# Full wwPDB NMR Structure Validation Report (i)

Mar 9, 2026 – 05:20 AM UTC

| | | |
|---|---|---|
| PDB ID | : | 7SA5 / pdb_00007sa5 |
| BMRB ID | : | 27579 |
| Title | : | Two-state solution NMR structure of Apo Pin1 |
| Authors | : | Born, A.; Vogeli, B. |
| Deposited on | : | 2021-09-22 |

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (i)) were used in the production of this report:

| | | |
|---|---|---|
| MolProbity | : | 4-5-2 with Phenix2.0 |
| Percentile statistics | : | 20250101.v01 (using entries in the PDB archive January 1st 2025) |
| wwPDB-RCI | : | v_1n_11_5_13_A (Berjanski et al., 2005) |
| PANAV | : | Wang et al. (2010) |
| wwPDB-ShiftChecker | : | v1.2 |
| BMRB Restraints Analysis | : | v1.2 |
| Ideal geometry (proteins) | : | Engh & Huber (2001) |
| Ideal geometry (DNA, RNA) | : | Parkinson et al. (1996) |
| Validation Pipeline (wwPDB-VP) | : | 2.49 |

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 83%.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.

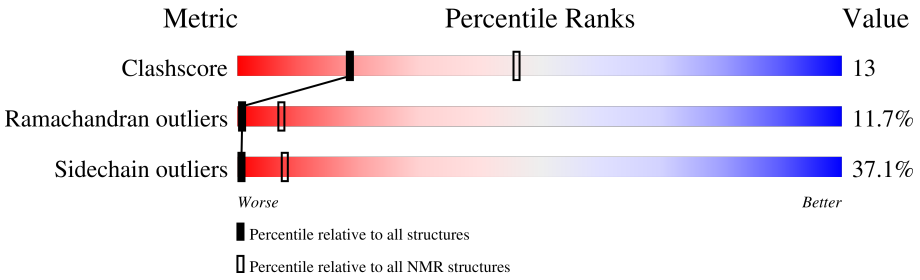


| Metric | Whole archive (#Entries) | NMR archive (#Entries) |
|---|---|---|
| Clashscore | 229148 | 14424 |
| Ramachandran outliers | 224038 | 12848 |
| Sidechain outliers | 223484 | 12823 |

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

| Mol | Chain | Length | Quality of chain |
|---|---|---|---|
| 1 | A | 163 | 34% 52% · 10% |

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 11 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *target function*.

The following residues are included in the computation of the global validation metrics.

| Well-defined (core) protein residues | | | |
|---|---|---|---|
| **Well-defined core** | **Residue range (total)** | **Backbone RMSD (Å)** | **Medoid model** |
| 1 | A:5-A:39 (35) | 1.19 | 2 |
| 2 | A:53-A:163 (111) | 1.18 | 11 |

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 4 clusters. No single-model clusters were found.

| Cluster number | Models |
|---|---|
| 1 | 2, 4, 5, 8, 9, 12, 13, 16, 18, 20 |
| 2 | 7, 11, 15, 19 |
| 3 | 1, 6, 10, 17 |
| 4 | 3, 14 |

# 3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2519 atoms, of which 1238 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1.

| Mol | Chain | Residues | Atoms | | | | | | Trace |
|---|---|---|---|---|---|---|---|---|---|
| | | | Total | C | H | N | O | S | |
| 1 | A | 163 | 2519 | 786 | 1238 | 239 | 250 | 6 | 0 |

# 4 Residue-property plots

## 4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

## 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

### 4.2.1 Score per residue for model 1

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

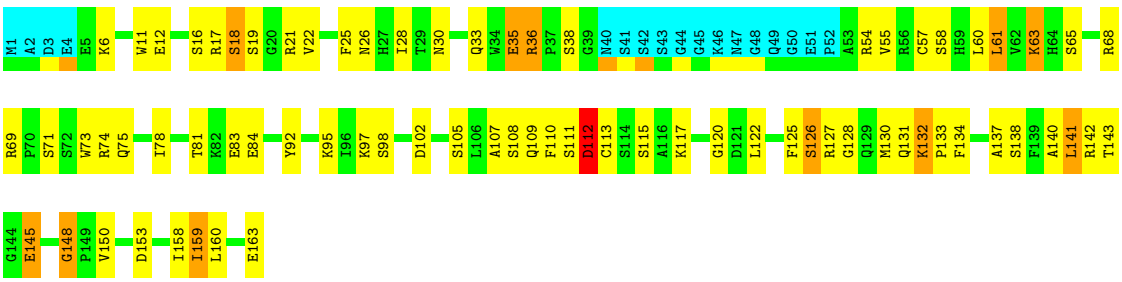

### 4.2.2 Score per residue for model 2

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

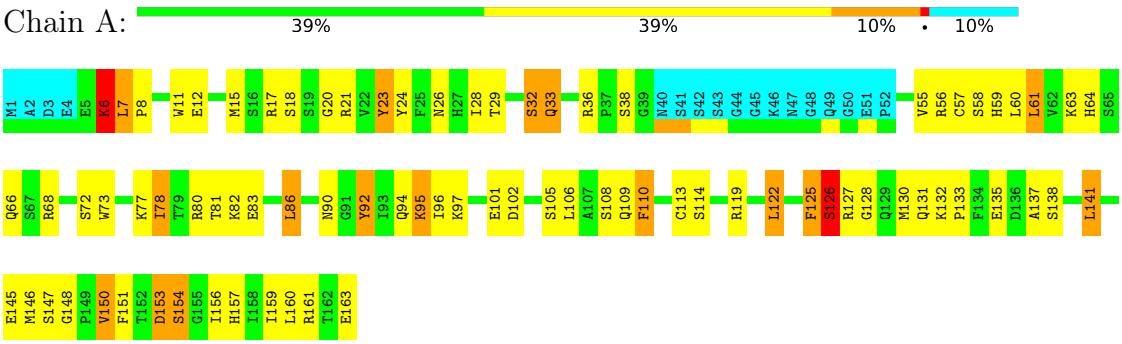


### 4.2.3 Score per residue for model 3

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

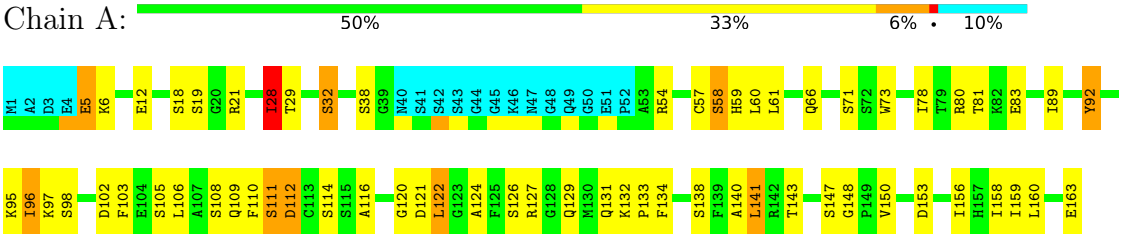


### 4.2.4 Score per residue for model 4

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

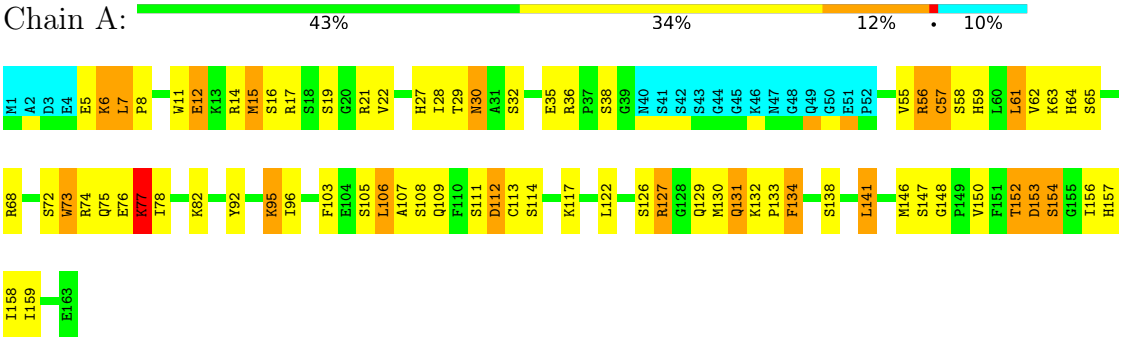


### 4.2.5 Score per residue for model 5

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

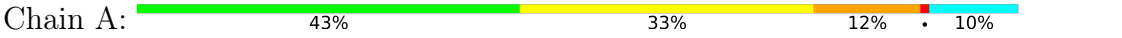

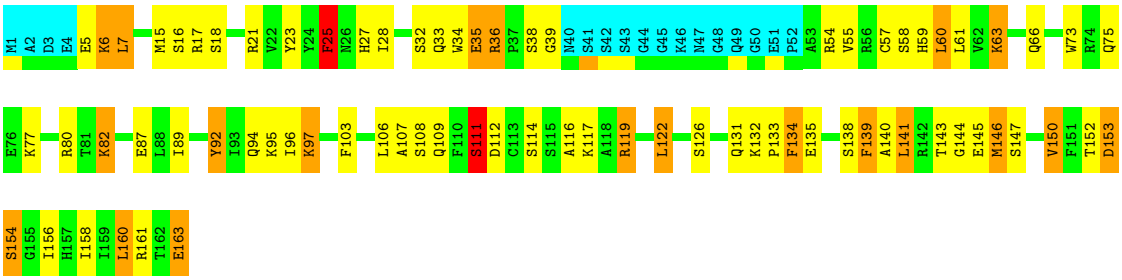

### 4.2.6 Score per residue for model 6

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

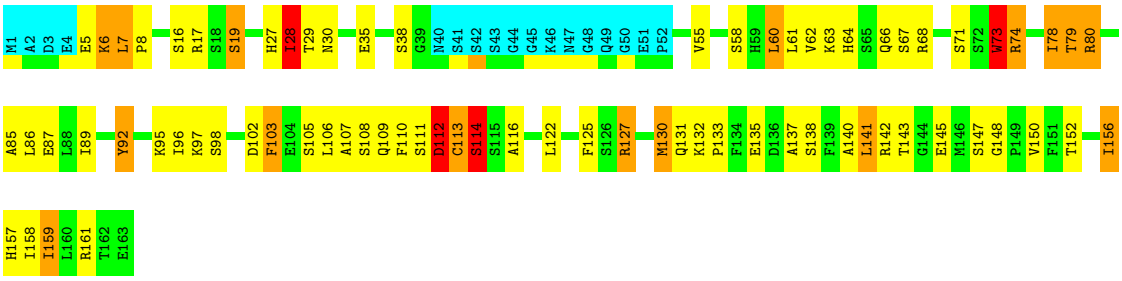

### 4.2.7 Score per residue for model 7

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

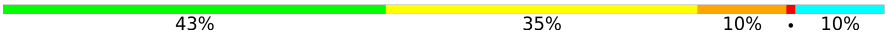


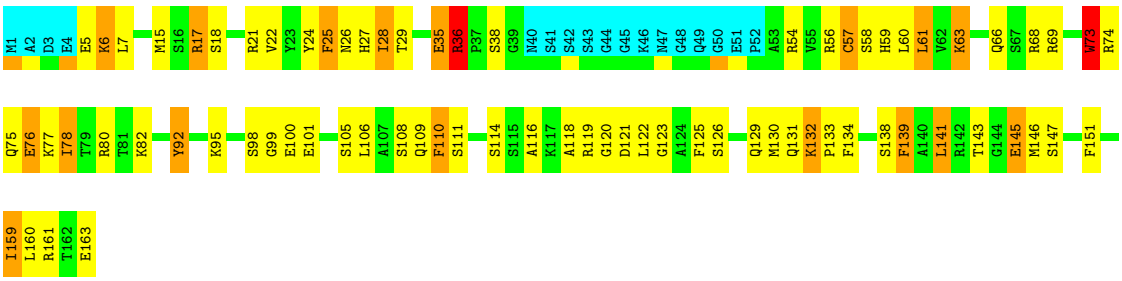

### 4.2.8 Score per residue for model 8

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

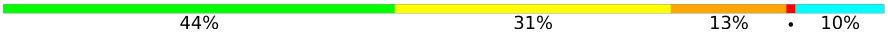

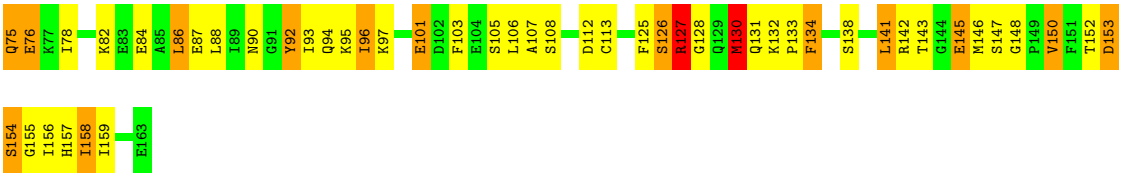


### 4.2.9 Score per residue for model 9

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

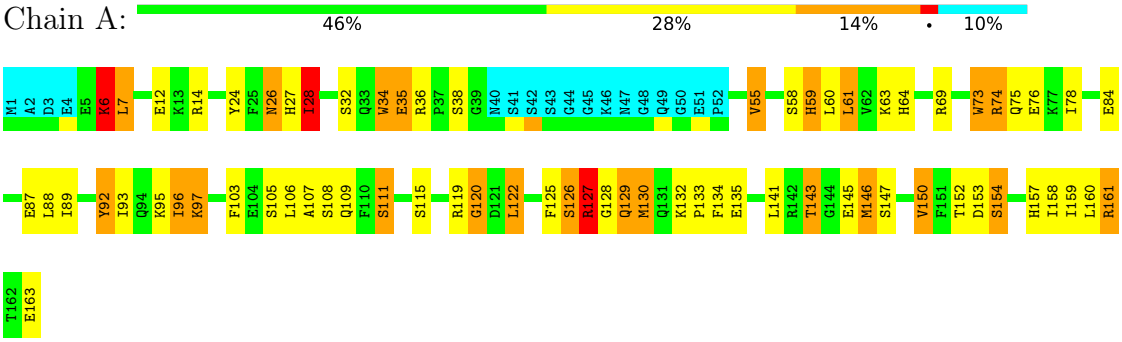


### 4.2.10 Score per residue for model 10

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

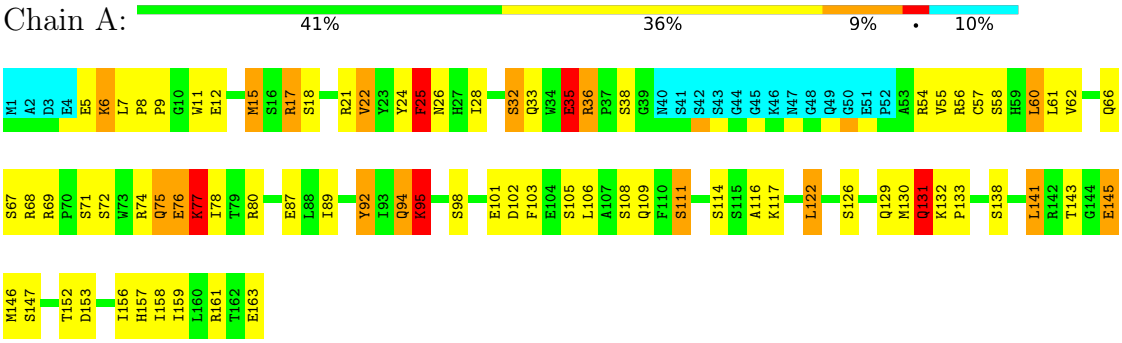


### 4.2.11 Score per residue for model 11 (medoid)

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

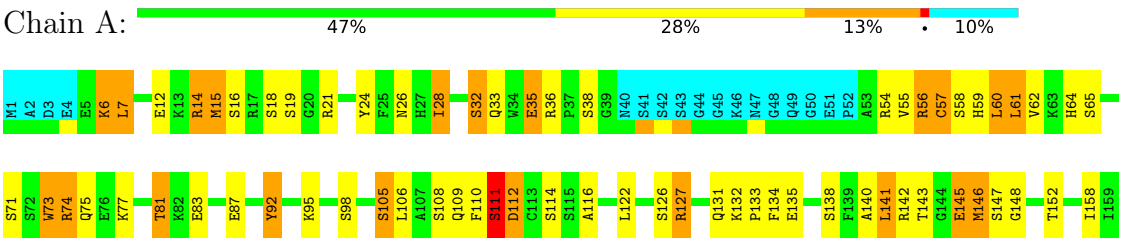

### 4.2.12 Score per residue for model 12

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

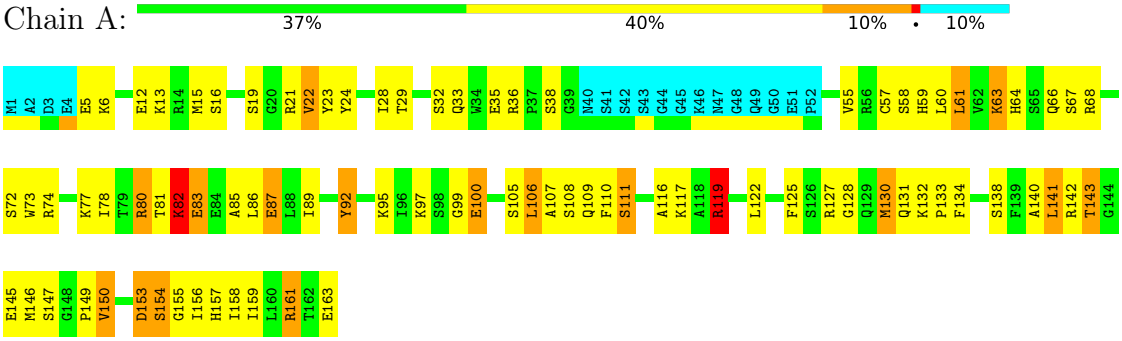


### 4.2.13 Score per residue for model 13

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

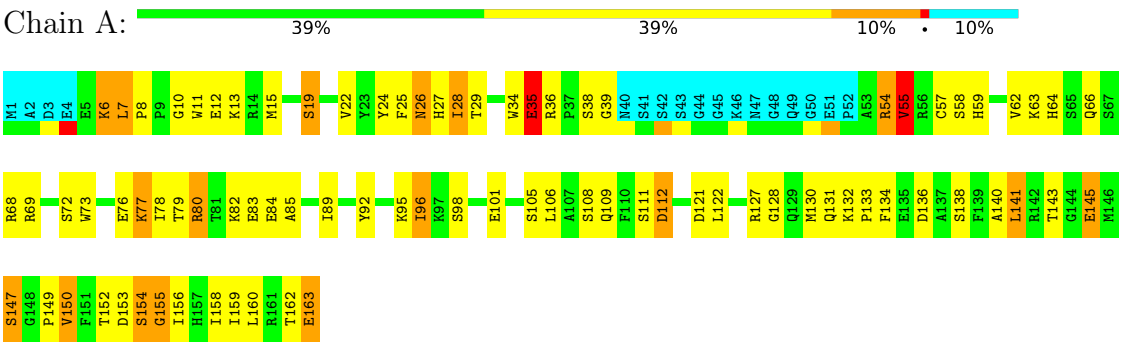


### 4.2.14 Score per residue for model 14

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

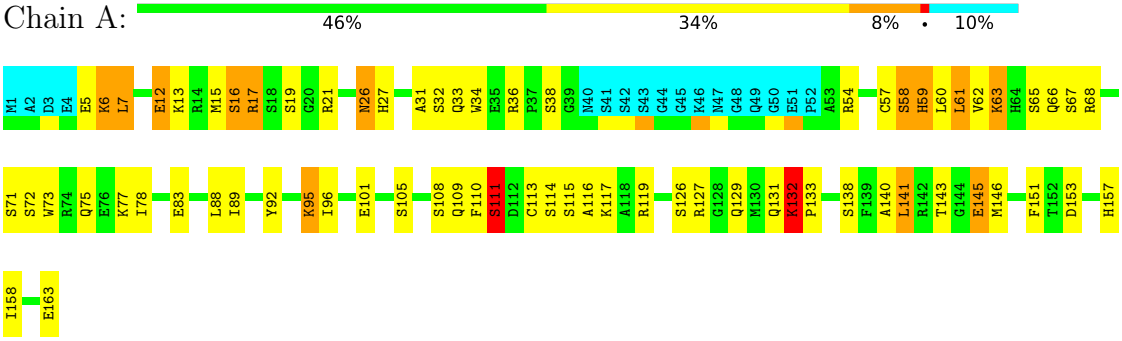

### 4.2.15 Score per residue for model 15

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

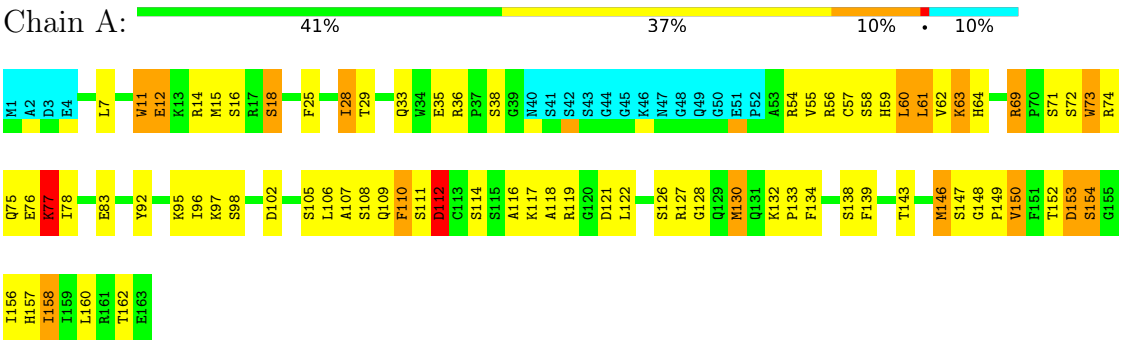


### 4.2.16 Score per residue for model 16

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

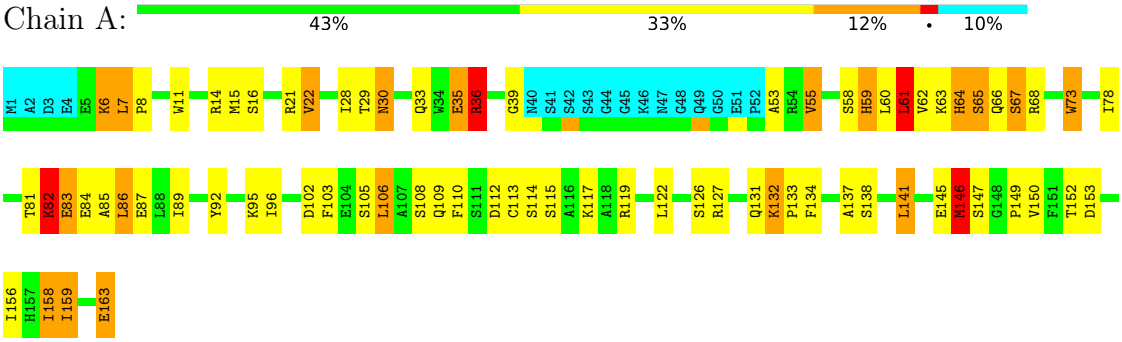


### 4.2.17 Score per residue for model 17

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

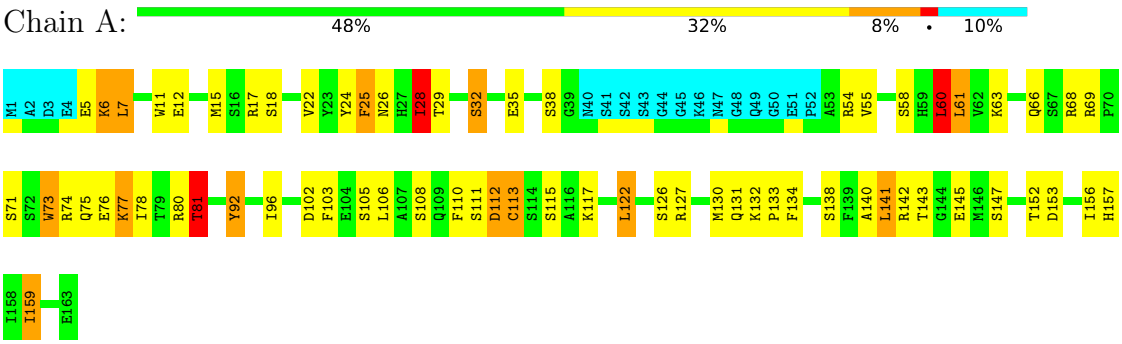

### 4.2.18 Score per residue for model 18

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

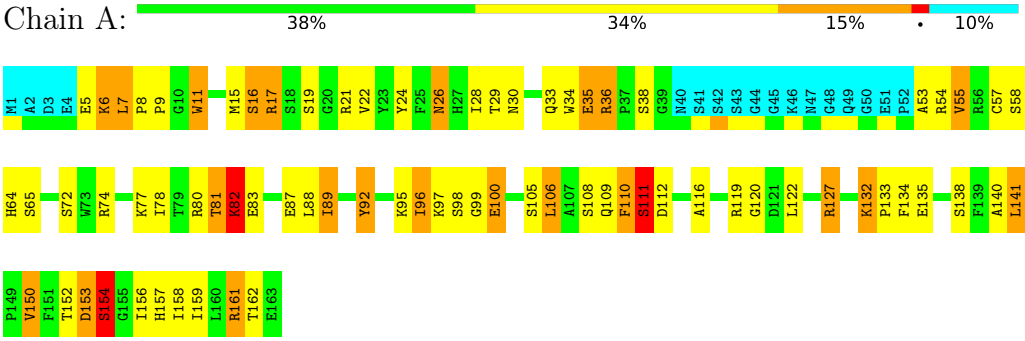


### 4.2.19 Score per residue for model 19

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

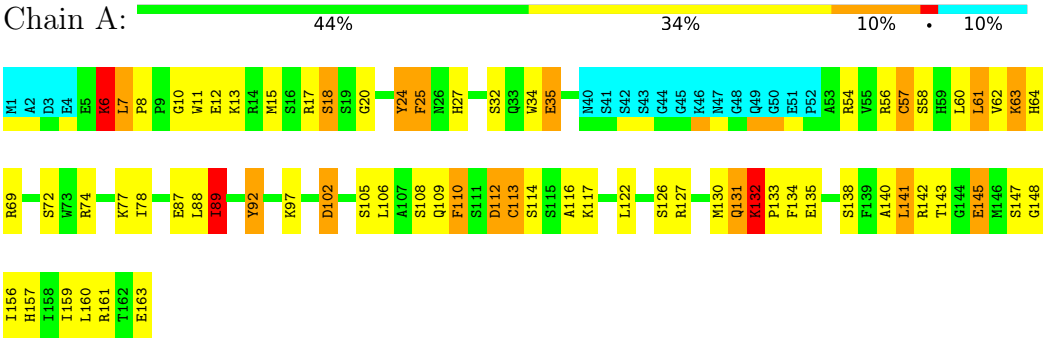


### 4.2.20 Score per residue for model 20

• Molecule 1: Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1

Chain A:

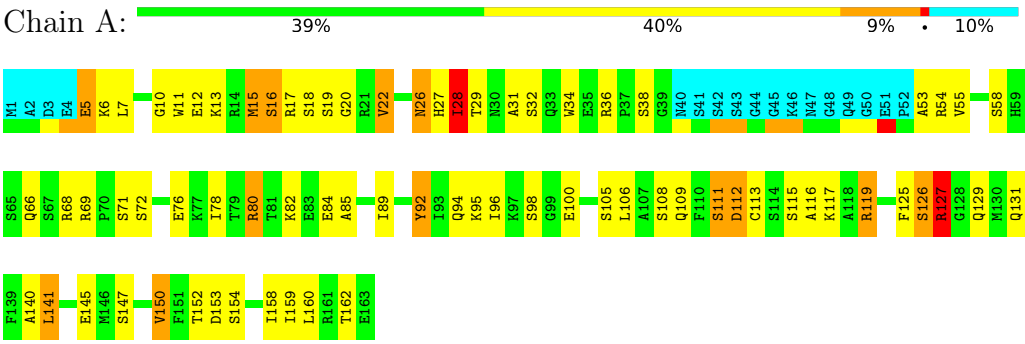

# 5 Refinement protocol and experimental data overview

The models were refined using the following method: *torsion angle dynamics*.

Of the 400 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

The following table shows the software used for structure solution, optimisation and refinement.

| Software name | Classification | Version |
|---|---|---|
| CYANA | refinement | |
| CYANA | structure calculation | |

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

| Chemical shift file(s) | working_cs.cif |
|---|---|
| Number of chemical shift lists | 1 |
| Total number of shifts | 1801 |
| Number of shifts mapped to atoms | 1801 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 83% |

# 6 Model quality

## 6.1 Standard geometry

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

## 6.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

| Mol | Chain | Non-H | H(model) | H(added) | Clashes |
|---|---|---|---|---|---|
| 1 | A | 1167 | 1141 | 1141 | 30±8 |
| All | All | 23340 | 22820 | 22820 | 598 |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 13.

All unique clashes are listed below, sorted by their clash magnitude.

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:128:GLY:O | 1:A:130:MET:N | 0.95 | 1.99 | 9 | 3 |
| 1:A:28:ILE:HG22 | 1:A:140:ALA:HB1 | 0.91 | 1.41 | 12 | 1 |
| 1:A:29:THR:HG21 | 1:A:141:LEU:HD11 | 0.86 | 1.47 | 8 | 1 |
| 1:A:60:LEU:HD13 | 1:A:158:ILE:HD12 | 0.80 | 1.52 | 20 | 5 |
| 1:A:96:ILE:HD11 | 1:A:106:LEU:HD13 | 0.78 | 1.55 | 9 | 3 |
| 1:A:34:TRP:O | 1:A:35:GLU:HB3 | 0.76 | 1.80 | 5 | 2 |
| 1:A:34:TRP:O | 1:A:35:GLU:CB | 0.76 | 2.34 | 5 | 3 |
| 1:A:89:ILE:HD11 | 1:A:156:ILE:HG22 | 0.71 | 1.62 | 5 | 2 |
| 1:A:6:LYS:O | 1:A:7:LEU:HD23 | 0.70 | 1.86 | 2 | 8 |
| 1:A:29:THR:HG22 | 1:A:141:LEU:HD23 | 0.70 | 1.62 | 16 | 1 |
| 1:A:92:TYR:CE2 | 1:A:106:LEU:HD21 | 0.70 | 2.21 | 19 | 2 |
| 1:A:28:ILE:HG22 | 1:A:29:THR:HG23 | 0.70 | 1.63 | 3 | 5 |
| 1:A:141:LEU:HD13 | 1:A:145:GLU:O | 0.70 | 1.85 | 7 | 6 |
| 1:A:59:HIS:CE1 | 1:A:122:LEU:HD13 | 0.69 | 2.22 | 7 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:28:ILE:CG2 | 1:A:140:ALA:HB1 | 0.69 | 2.16 | 20 | 2 |
| 1:A:59:HIS:CE1 | 1:A:61:LEU:HD23 | 0.69 | 2.22 | 11 | 1 |
| 1:A:29:THR:OG1 | 1:A:141:LEU:HD11 | 0.69 | 1.86 | 18 | 3 |
| 1:A:122:LEU:HD11 | 1:A:130:MET:HE2 | 0.69 | 1.64 | 6 | 1 |
| 1:A:89:ILE:CD1 | 1:A:158:ILE:HD11 | 0.68 | 2.19 | 14 | 3 |
| 1:A:6:LYS:C | 1:A:7:LEU:HD23 | 0.68 | 2.14 | 17 | 11 |
| 1:A:28:ILE:HG22 | 1:A:140:ALA:CB | 0.68 | 2.17 | 12 | 2 |
| 1:A:150:VAL:HG21 | 1:A:159:ILE:CD1 | 0.68 | 2.19 | 18 | 8 |
| 1:A:61:LEU:HD13 | 1:A:157:HIS:CE1 | 0.67 | 2.25 | 9 | 6 |
| 1:A:150:VAL:HG12 | 1:A:152:THR:HG22 | 0.67 | 1.66 | 16 | 2 |
| 1:A:92:TYR:OH | 1:A:106:LEU:HD22 | 0.67 | 1.88 | 15 | 1 |
| 1:A:81:THR:O | 1:A:83:GLU:N | 0.67 | 2.28 | 18 | 2 |
| 1:A:147:SER:O | 1:A:158:ILE:HG23 | 0.66 | 1.90 | 18 | 6 |
| 1:A:92:TYR:CZ | 1:A:106:LEU:HD21 | 0.66 | 2.26 | 17 | 2 |
| 1:A:137:ALA:O | 1:A:141:LEU:HD21 | 0.65 | 1.91 | 6 | 1 |
| 1:A:61:LEU:HD21 | 1:A:63:LYS:CG | 0.65 | 2.21 | 7 | 1 |
| 1:A:6:LYS:C | 1:A:7:LEU:HD22 | 0.64 | 2.17 | 7 | 2 |
| 1:A:111:SER:CB | 1:A:116:ALA:HB2 | 0.64 | 2.23 | 11 | 4 |
| 1:A:62:VAL:CG1 | 1:A:88:LEU:HD21 | 0.64 | 2.21 | 14 | 1 |
| 1:A:130:MET:O | 1:A:131:GLN:C | 0.64 | 2.39 | 10 | 5 |
| 1:A:54:ARG:O | 1:A:55:VAL:O | 0.64 | 2.16 | 13 | 1 |
| 1:A:122:LEU:CD1 | 1:A:130:MET:HE3 | 0.64 | 2.23 | 10 | 1 |
| 1:A:132:LYS:N | 1:A:133:PRO:HD2 | 0.64 | 2.08 | 3 | 18 |
| 1:A:143:THR:HG21 | 1:A:163:GLU:CG | 0.64 | 2.22 | 9 | 1 |
| 1:A:122:LEU:HD11 | 1:A:130:MET:HE3 | 0.64 | 1.68 | 10 | 1 |
| 1:A:80:ARG:CG | 1:A:85:ALA:HB2 | 0.63 | 2.23 | 12 | 3 |
| 1:A:92:TYR:CE1 | 1:A:106:LEU:HD11 | 0.63 | 2.29 | 17 | 5 |
| 1:A:150:VAL:HG21 | 1:A:159:ILE:HD13 | 0.63 | 1.70 | 3 | 3 |
| 1:A:59:HIS:CE1 | 1:A:122:LEU:HD21 | 0.63 | 2.29 | 3 | 2 |
| 1:A:61:LEU:HD12 | 1:A:157:HIS:CE1 | 0.63 | 2.29 | 17 | 1 |
| 1:A:106:LEU:O | 1:A:106:LEU:HD13 | 0.63 | 1.94 | 18 | 5 |
| 1:A:61:LEU:HD23 | 1:A:112:ASP:CB | 0.63 | 2.24 | 6 | 2 |
| 1:A:122:LEU:HD13 | 1:A:130:MET:HE3 | 0.62 | 1.68 | 17 | 1 |
| 1:A:92:TYR:CD2 | 1:A:106:LEU:HD21 | 0.62 | 2.30 | 5 | 2 |
| 1:A:28:ILE:HG23 | 1:A:29:THR:HG23 | 0.62 | 1.69 | 7 | 1 |
| 1:A:99:GLY:O | 1:A:100:GLU:CB | 0.62 | 2.47 | 12 | 2 |
| 1:A:110:PHE:O | 1:A:112:ASP:N | 0.61 | 2.33 | 11 | 1 |
| 1:A:61:LEU:HD23 | 1:A:112:ASP:HB2 | 0.61 | 1.72 | 6 | 2 |
| 1:A:111:SER:O | 1:A:112:ASP:CB | 0.61 | 2.48 | 11 | 1 |
| 1:A:61:LEU:HD13 | 1:A:157:HIS:CD2 | 0.61 | 2.29 | 12 | 1 |
| 1:A:6:LYS:O | 1:A:7:LEU:HD22 | 0.61 | 1.95 | 10 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:143:THR:HG21 | 1:A:163:GLU:HG2 | 0.61 | 1.73 | 9 | 1 |
| 1:A:92:TYR:CE1 | 1:A:106:LEU:HD22 | 0.60 | 2.32 | 11 | 2 |
| 1:A:29:THR:HG23 | 1:A:141:LEU:HD21 | 0.60 | 1.73 | 4 | 2 |
| 1:A:59:HIS:CD2 | 1:A:61:LEU:HD23 | 0.60 | 2.32 | 16 | 1 |
| 1:A:96:ILE:HD11 | 1:A:106:LEU:CD1 | 0.60 | 2.26 | 9 | 2 |
| 1:A:29:THR:OG1 | 1:A:141:LEU:HD21 | 0.60 | 1.97 | 20 | 2 |
| 1:A:33:GLN:NE2 | 1:A:35:GLU:C | 0.59 | 2.60 | 10 | 1 |
| 1:A:20:GLY:O | 1:A:22:VAL:HG23 | 0.59 | 1.97 | 20 | 1 |
| 1:A:61:LEU:HD22 | 1:A:112:ASP:HB2 | 0.59 | 1.74 | 1 | 1 |
| 1:A:73:TRP:CG | 1:A:74:ARG:N | 0.59 | 2.71 | 4 | 7 |
| 1:A:148:GLY:O | 1:A:158:ILE:HG22 | 0.59 | 1.97 | 1 | 1 |
| 1:A:92:TYR:CD2 | 1:A:106:LEU:HD11 | 0.59 | 2.33 | 5 | 1 |
| 1:A:92:TYR:CZ | 1:A:106:LEU:HD11 | 0.58 | 2.33 | 12 | 2 |
| 1:A:92:TYR:CE2 | 1:A:106:LEU:HD22 | 0.58 | 2.33 | 10 | 2 |
| 1:A:87:GLU:O | 1:A:88:LEU:HD23 | 0.58 | 1.97 | 9 | 2 |
| 1:A:111:SER:HB2 | 1:A:116:ALA:HB2 | 0.58 | 1.75 | 12 | 3 |
| 1:A:141:LEU:HD12 | 1:A:141:LEU:N | 0.58 | 2.13 | 16 | 2 |
| 1:A:146:MET:HB2 | 1:A:160:LEU:HD22 | 0.58 | 1.76 | 11 | 1 |
| 1:A:80:ARG:HG2 | 1:A:85:ALA:HB2 | 0.58 | 1.74 | 20 | 3 |
| 1:A:61:LEU:HD23 | 1:A:112:ASP:CG | 0.58 | 2.23 | 3 | 1 |
| 1:A:62:VAL:HG23 | 1:A:156:ILE:O | 0.58 | 1.98 | 4 | 2 |
| 1:A:26:ASN:OD1 | 1:A:26:ASN:N | 0.58 | 2.36 | 18 | 2 |
| 1:A:10:GLY:O | 1:A:11:TRP:CG | 0.58 | 2.57 | 19 | 2 |
| 1:A:61:LEU:HD23 | 1:A:61:LEU:O | 0.57 | 1.98 | 17 | 2 |
| 1:A:82:LYS:O | 1:A:85:ALA:HB3 | 0.57 | 2.00 | 16 | 2 |
| 1:A:59:HIS:CG | 1:A:122:LEU:HD12 | 0.57 | 2.34 | 12 | 1 |
| 1:A:29:THR:CG2 | 1:A:141:LEU:HD21 | 0.57 | 2.30 | 4 | 1 |
| 1:A:61:LEU:HD13 | 1:A:157:HIS:NE2 | 0.57 | 2.15 | 12 | 5 |
| 1:A:29:THR:CG2 | 1:A:141:LEU:HD11 | 0.57 | 2.25 | 8 | 1 |
| 1:A:143:THR:HG22 | 1:A:161:ARG:HG2 | 0.57 | 1.76 | 12 | 1 |
| 1:A:62:VAL:HG13 | 1:A:88:LEU:HD21 | 0.57 | 1.75 | 14 | 1 |
| 1:A:146:MET:SD | 1:A:160:LEU:HD13 | 0.57 | 2.39 | 5 | 3 |
| 1:A:92:TYR:CE1 | 1:A:106:LEU:HD21 | 0.56 | 2.34 | 8 | 3 |
| 1:A:122:LEU:HD11 | 1:A:130:MET:HE1 | 0.56 | 1.75 | 13 | 1 |
| 1:A:134:PHE:CE2 | 1:A:159:ILE:HD11 | 0.56 | 2.36 | 13 | 2 |
| 1:A:107:ALA:HB1 | 1:A:120:GLY:HA3 | 0.56 | 1.75 | 1 | 2 |
| 1:A:34:TRP:O | 1:A:35:GLU:CG | 0.56 | 2.53 | 19 | 4 |
| 1:A:111:SER:OG | 1:A:116:ALA:HB1 | 0.56 | 2.01 | 7 | 1 |
| 1:A:7:LEU:CB | 1:A:8:PRO:HD2 | 0.56 | 2.31 | 2 | 7 |
| 1:A:128:GLY:O | 1:A:129:GLN:C | 0.56 | 2.49 | 9 | 1 |
| 1:A:143:THR:HG22 | 1:A:161:ARG:CB | 0.56 | 2.30 | 9 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:59:HIS:CB | 1:A:122:LEU:HD12 | 0.56 | 2.30 | 12 | 1 |
| 1:A:89:ILE:HD11 | 1:A:156:ILE:HG21 | 0.56 | 1.77 | 19 | 1 |
| 1:A:143:THR:HG21 | 1:A:163:GLU:HG3 | 0.56 | 1.78 | 5 | 1 |
| 1:A:122:LEU:HD13 | 1:A:122:LEU:O | 0.55 | 2.01 | 6 | 3 |
| 1:A:92:TYR:CE1 | 1:A:106:LEU:HD13 | 0.55 | 2.36 | 11 | 2 |
| 1:A:61:LEU:HD12 | 1:A:157:HIS:HB3 | 0.55 | 1.77 | 4 | 1 |
| 1:A:111:SER:CB | 1:A:116:ALA:HB3 | 0.55 | 2.32 | 18 | 1 |
| 1:A:125:PHE:O | 1:A:126:SER:CB | 0.55 | 2.54 | 9 | 3 |
| 1:A:61:LEU:HD22 | 1:A:112:ASP:HB3 | 0.55 | 1.77 | 17 | 1 |
| 1:A:7:LEU:HD12 | 1:A:11:TRP:O | 0.55 | 2.02 | 16 | 3 |
| 1:A:60:LEU:HB2 | 1:A:158:ILE:HD11 | 0.55 | 1.78 | 6 | 4 |
| 1:A:140:ALA:O | 1:A:141:LEU:HD23 | 0.55 | 2.01 | 14 | 7 |
| 1:A:64:HIS:NE2 | 1:A:156:ILE:HD12 | 0.55 | 2.17 | 16 | 1 |
| 1:A:81:THR:C | 1:A:82:LYS:HG2 | 0.55 | 2.27 | 16 | 1 |
| 1:A:96:ILE:CG2 | 1:A:146:MET:HE2 | 0.55 | 2.32 | 18 | 1 |
| 1:A:133:PRO:O | 1:A:152:THR:HG21 | 0.55 | 2.01 | 17 | 3 |
| 1:A:55:VAL:HG13 | 1:A:55:VAL:O | 0.55 | 2.02 | 5 | 2 |
| 1:A:147:SER:O | 1:A:158:ILE:HG22 | 0.55 | 2.02 | 16 | 1 |
| 1:A:132:LYS:CB | 1:A:133:PRO:CD | 0.54 | 2.85 | 19 | 9 |
| 1:A:80:ARG:C | 1:A:81:THR:HG23 | 0.54 | 2.27 | 17 | 2 |
| 1:A:131:GLN:O | 1:A:132:LYS:C | 0.54 | 2.50 | 4 | 7 |
| 1:A:29:THR:HG22 | 1:A:141:LEU:CD2 | 0.54 | 2.33 | 16 | 1 |
| 1:A:89:ILE:HG13 | 1:A:156:ILE:HD12 | 0.54 | 1.80 | 3 | 1 |
| 1:A:150:VAL:HG21 | 1:A:159:ILE:HD12 | 0.54 | 1.78 | 8 | 4 |
| 1:A:26:ASN:HD21 | 1:A:141:LEU:HD22 | 0.53 | 1.64 | 8 | 1 |
| 1:A:5:GLU:HB3 | 1:A:7:LEU:HD21 | 0.53 | 1.78 | 6 | 1 |
| 1:A:141:LEU:HD12 | 1:A:161:ARG:HD2 | 0.53 | 1.79 | 6 | 1 |
| 1:A:132:LYS:N | 1:A:133:PRO:CD | 0.53 | 2.71 | 3 | 11 |
| 1:A:28:ILE:HB | 1:A:141:LEU:HD21 | 0.53 | 1.80 | 5 | 1 |
| 1:A:59:HIS:CE1 | 1:A:122:LEU:HD11 | 0.53 | 2.39 | 9 | 2 |
| 1:A:75:GLN:O | 1:A:77:LYS:N | 0.53 | 2.41 | 15 | 3 |
| 1:A:55:VAL:O | 1:A:56:ARG:C | 0.53 | 2.51 | 4 | 3 |
| 1:A:143:THR:HG22 | 1:A:161:ARG:HB2 | 0.53 | 1.81 | 9 | 1 |
| 1:A:55:VAL:O | 1:A:55:VAL:HG13 | 0.52 | 2.04 | 1 | 1 |
| 1:A:59:HIS:ND1 | 1:A:122:LEU:HD11 | 0.52 | 2.19 | 9 | 1 |
| 1:A:57:CYS:O | 1:A:122:LEU:HD12 | 0.52 | 2.03 | 11 | 2 |
| 1:A:64:HIS:CE1 | 1:A:156:ILE:HD12 | 0.52 | 2.38 | 16 | 1 |
| 1:A:55:VAL:HG12 | 1:A:163:GLU:CD | 0.52 | 2.30 | 16 | 2 |
| 1:A:81:THR:C | 1:A:82:LYS:CG | 0.52 | 2.82 | 12 | 2 |
| 1:A:86:LEU:HD12 | 1:A:86:LEU:O | 0.52 | 2.05 | 16 | 3 |
| 1:A:137:ALA:CB | 1:A:159:ILE:HD13 | 0.51 | 2.36 | 1 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:61:LEU:HD23 | 1:A:61:LEU:C | 0.51 | 2.30 | 17 | 2 |
| 1:A:57:CYS:SG | 1:A:159:ILE:HG23 | 0.51 | 2.45 | 4 | 1 |
| 1:A:60:LEU:HD13 | 1:A:158:ILE:CD1 | 0.51 | 2.36 | 15 | 1 |
| 1:A:61:LEU:HD22 | 1:A:157:HIS:CE1 | 0.51 | 2.39 | 19 | 1 |
| 1:A:67:SER:O | 1:A:68:ARG:CB | 0.51 | 2.58 | 10 | 1 |
| 1:A:160:LEU:CD1 | 1:A:162:THR:HG23 | 0.51 | 2.36 | 20 | 2 |
| 1:A:89:ILE:HG21 | 1:A:149:PRO:HD3 | 0.51 | 1.81 | 12 | 1 |
| 1:A:59:HIS:CD2 | 1:A:122:LEU:HD23 | 0.51 | 2.40 | 15 | 1 |
| 1:A:29:THR:HG22 | 1:A:141:LEU:HB3 | 0.51 | 1.80 | 16 | 1 |
| 1:A:122:LEU:HD13 | 1:A:122:LEU:C | 0.51 | 2.31 | 19 | 4 |
| 1:A:28:ILE:HG22 | 1:A:140:ALA:HB2 | 0.51 | 1.83 | 18 | 1 |
| 1:A:111:SER:HB3 | 1:A:116:ALA:HB2 | 0.51 | 1.83 | 10 | 3 |
| 1:A:29:THR:OG1 | 1:A:141:LEU:CD1 | 0.50 | 2.59 | 12 | 2 |
| 1:A:63:LYS:O | 1:A:78:ILE:HD12 | 0.50 | 2.06 | 7 | 1 |
| 1:A:99:GLY:O | 1:A:100:GLU:HB2 | 0.50 | 2.05 | 18 | 1 |
| 1:A:16:SER:O | 1:A:17:ARG:C | 0.50 | 2.55 | 18 | 2 |
| 1:A:61:LEU:HD21 | 1:A:63:LYS:HG3 | 0.50 | 1.84 | 7 | 1 |
| 1:A:64:HIS:O | 1:A:65:SER:CB | 0.50 | 2.59 | 8 | 2 |
| 1:A:141:LEU:HD12 | 1:A:161:ARG:NE | 0.50 | 2.22 | 11 | 1 |
| 1:A:122:LEU:CD1 | 1:A:130:MET:HE1 | 0.50 | 2.36 | 13 | 1 |
| 1:A:36:ARG:NH2 | 1:A:118:ALA:HB3 | 0.50 | 2.22 | 7 | 1 |
| 1:A:99:GLY:O | 1:A:100:GLU:C | 0.50 | 2.55 | 7 | 1 |
| 1:A:82:LYS:O | 1:A:83:GLU:C | 0.50 | 2.55 | 18 | 3 |
| 1:A:106:LEU:HD23 | 1:A:106:LEU:O | 0.49 | 2.07 | 9 | 2 |
| 1:A:7:LEU:HD21 | 1:A:12:GLU:HA | 0.49 | 1.84 | 14 | 1 |
| 1:A:103:PHE:O | 1:A:107:ALA:HB2 | 0.49 | 2.08 | 9 | 4 |
| 1:A:96:ILE:HD11 | 1:A:106:LEU:HD22 | 0.49 | 1.84 | 5 | 2 |
| 1:A:122:LEU:H | 1:A:122:LEU:HD23 | 0.49 | 1.67 | 7 | 1 |
| 1:A:29:THR:CG2 | 1:A:141:LEU:HB3 | 0.49 | 2.38 | 16 | 1 |
| 1:A:96:ILE:HG22 | 1:A:146:MET:HE2 | 0.49 | 1.84 | 18 | 1 |
| 1:A:89:ILE:HD12 | 1:A:158:ILE:HD11 | 0.49 | 1.85 | 14 | 1 |
| 1:A:59:HIS:CG | 1:A:122:LEU:HD23 | 0.49 | 2.42 | 15 | 1 |
| 1:A:26:ASN:OD1 | 1:A:31:ALA:HB3 | 0.49 | 2.08 | 20 | 1 |
| 1:A:62:VAL:HG12 | 1:A:64:HIS:CE1 | 0.48 | 2.42 | 20 | 1 |
| 1:A:112:ASP:OD1 | 1:A:116:ALA:HB2 | 0.48 | 2.08 | 19 | 1 |
| 1:A:15:MET:SD | 1:A:22:VAL:HG22 | 0.48 | 2.48 | 20 | 1 |
| 1:A:160:LEU:C | 1:A:160:LEU:HD12 | 0.48 | 2.33 | 5 | 2 |
| 1:A:5:GLU:CG | 1:A:7:LEU:HD21 | 0.48 | 2.38 | 6 | 1 |
| 1:A:132:LYS:HB3 | 1:A:133:PRO:HD3 | 0.48 | 1.85 | 10 | 3 |
| 1:A:148:GLY:O | 1:A:158:ILE:HG23 | 0.48 | 2.09 | 15 | 1 |
| 1:A:5:GLU:C | 1:A:7:LEU:HD23 | 0.48 | 2.33 | 5 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:141:LEU:HD12 | 1:A:161:ARG:CD | 0.48 | 2.38 | 7 | 1 |
| 1:A:141:LEU:HD13 | 1:A:145:GLU:HG2 | 0.48 | 1.86 | 8 | 2 |
| 1:A:80:ARG:C | 1:A:81:THR:CG2 | 0.48 | 2.86 | 17 | 1 |
| 1:A:62:VAL:HG21 | 1:A:89:ILE:HD11 | 0.48 | 1.86 | 10 | 2 |
| 1:A:112:ASP:H | 1:A:116:ALA:HB2 | 0.47 | 1.69 | 15 | 2 |
| 1:A:75:GLN:O | 1:A:76:GLU:C | 0.47 | 2.58 | 9 | 3 |
| 1:A:92:TYR:O | 1:A:96:ILE:HD12 | 0.47 | 2.09 | 15 | 1 |
| 1:A:156:ILE:O | 1:A:156:ILE:HG23 | 0.47 | 2.09 | 18 | 1 |
| 1:A:15:MET:HE2 | 1:A:17:ARG:HA | 0.47 | 1.86 | 10 | 1 |
| 1:A:80:ARG:O | 1:A:81:THR:O | 0.47 | 2.33 | 17 | 1 |
| 1:A:92:TYR:CE2 | 1:A:106:LEU:HD13 | 0.47 | 2.44 | 3 | 1 |
| 1:A:82:LYS:CG | 1:A:82:LYS:O | 0.47 | 2.63 | 5 | 1 |
| 1:A:92:TYR:CZ | 1:A:106:LEU:HD22 | 0.47 | 2.44 | 6 | 2 |
| 1:A:156:ILE:HG22 | 1:A:156:ILE:O | 0.47 | 2.09 | 8 | 1 |
| 1:A:140:ALA:C | 1:A:141:LEU:HG | 0.47 | 2.35 | 3 | 1 |
| 1:A:35:GLU:CD | 1:A:130:MET:HE2 | 0.47 | 2.35 | 15 | 1 |
| 1:A:83:GLU:O | 1:A:86:LEU:HB3 | 0.46 | 2.10 | 12 | 1 |
| 1:A:29:THR:HB | 1:A:147:SER:HA | 0.46 | 1.87 | 8 | 1 |
| 1:A:96:ILE:CD1 | 1:A:106:LEU:HD13 | 0.46 | 2.37 | 9 | 1 |
| 1:A:96:ILE:HD11 | 1:A:106:LEU:HD23 | 0.46 | 1.87 | 13 | 1 |
| 1:A:26:ASN:ND2 | 1:A:26:ASN:N | 0.46 | 2.61 | 20 | 1 |
| 1:A:28:ILE:CG2 | 1:A:29:THR:HG23 | 0.46 | 2.41 | 7 | 1 |
| 1:A:59:HIS:NE2 | 1:A:122:LEU:HD23 | 0.46 | 2.25 | 11 | 1 |
| 1:A:107:ALA:HB1 | 1:A:119:ARG:O | 0.46 | 2.10 | 12 | 1 |
| 1:A:7:LEU:HB3 | 1:A:8:PRO:HD2 | 0.46 | 1.87 | 13 | 1 |
| 1:A:146:MET:SD | 1:A:160:LEU:HD22 | 0.46 | 2.50 | 15 | 1 |
| 1:A:148:GLY:C | 1:A:158:ILE:HG22 | 0.46 | 2.35 | 11 | 2 |
| 1:A:125:PHE:CD2 | 1:A:125:PHE:N | 0.46 | 2.84 | 2 | 1 |
| 1:A:155:GLY:O | 1:A:156:ILE:CG1 | 0.46 | 2.64 | 13 | 1 |
| 1:A:92:TYR:CD1 | 1:A:106:LEU:HD11 | 0.46 | 2.46 | 2 | 1 |
| 1:A:75:GLN:HE22 | 1:A:80:ARG:NH2 | 0.46 | 2.09 | 10 | 1 |
| 1:A:25:PHE:O | 1:A:25:PHE:CG | 0.46 | 2.68 | 5 | 2 |
| 1:A:5:GLU:CB | 1:A:7:LEU:HD21 | 0.46 | 2.40 | 6 | 1 |
| 1:A:126:SER:O | 1:A:127:ARG:CB | 0.45 | 2.64 | 8 | 3 |
| 1:A:115:SER:CB | 1:A:122:LEU:HD22 | 0.45 | 2.41 | 9 | 1 |
| 1:A:59:HIS:HB2 | 1:A:122:LEU:HD12 | 0.45 | 1.86 | 12 | 1 |
| 1:A:150:VAL:HG21 | 1:A:159:ILE:HD11 | 0.45 | 1.88 | 6 | 2 |
| 1:A:61:LEU:HD12 | 1:A:61:LEU:C | 0.45 | 2.35 | 18 | 2 |
| 1:A:54:ARG:O | 1:A:55:VAL:C | 0.45 | 2.58 | 13 | 1 |
| 1:A:159:ILE:HD13 | 1:A:159:ILE:N | 0.45 | 2.26 | 17 | 1 |
| 1:A:59:HIS:HB3 | 1:A:122:LEU:HD21 | 0.45 | 1.89 | 5 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:60:LEU:HD23 | 1:A:111:SER:HA | 0.45 | 1.87 | 5 | 1 |
| 1:A:159:ILE:HD12 | 1:A:159:ILE:N | 0.45 | 2.27 | 19 | 1 |
| 1:A:89:ILE:HD13 | 1:A:158:ILE:HD11 | 0.45 | 1.87 | 20 | 3 |
| 1:A:66:GLN:HE21 | 1:A:82:LYS:NZ | 0.45 | 2.10 | 8 | 1 |
| 1:A:33:GLN:NE2 | 1:A:35:GLU:O | 0.45 | 2.50 | 12 | 1 |
| 1:A:80:ARG:O | 1:A:81:THR:OG1 | 0.45 | 2.20 | 18 | 1 |
| 1:A:61:LEU:HD22 | 1:A:112:ASP:CB | 0.45 | 2.42 | 1 | 1 |
| 1:A:139:PHE:CD2 | 1:A:139:PHE:N | 0.45 | 2.80 | 7 | 1 |
| 1:A:81:THR:O | 1:A:82:LYS:C | 0.45 | 2.59 | 2 | 1 |
| 1:A:150:VAL:CG2 | 1:A:159:ILE:HD13 | 0.44 | 2.42 | 2 | 1 |
| 1:A:86:LEU:HD13 | 1:A:156:ILE:HG12 | 0.44 | 1.89 | 6 | 1 |
| 1:A:76:GLU:O | 1:A:77:LYS:CB | 0.44 | 2.63 | 10 | 1 |
| 1:A:28:ILE:CG2 | 1:A:140:ALA:CB | 0.44 | 2.95 | 18 | 1 |
| 1:A:92:TYR:CE2 | 1:A:106:LEU:HD11 | 0.44 | 2.47 | 9 | 3 |
| 1:A:26:ASN:HD21 | 1:A:31:ALA:HB3 | 0.44 | 1.70 | 14 | 1 |
| 1:A:62:VAL:O | 1:A:63:LYS:CB | 0.44 | 2.65 | 19 | 1 |
| 1:A:7:LEU:CB | 1:A:8:PRO:CD | 0.44 | 2.95 | 2 | 4 |
| 1:A:78:ILE:HG22 | 1:A:80:ARG:HG2 | 0.44 | 1.88 | 2 | 1 |
| 1:A:132:LYS:HB3 | 1:A:133:PRO:CD | 0.44 | 2.43 | 10 | 2 |
| 1:A:60:LEU:CD1 | 1:A:158:ILE:HD12 | 0.44 | 2.41 | 12 | 2 |
| 1:A:30:ASN:OD1 | 1:A:149:PRO:HD2 | 0.44 | 2.12 | 16 | 1 |
| 1:A:131:GLN:CB | 1:A:134:PHE:HB2 | 0.44 | 2.41 | 1 | 1 |
| 1:A:8:PRO:HB2 | 1:A:9:PRO:HD2 | 0.44 | 1.88 | 18 | 2 |
| 1:A:58:SER:O | 1:A:160:LEU:HD23 | 0.44 | 2.13 | 1 | 1 |
| 1:A:60:LEU:CB | 1:A:158:ILE:HD11 | 0.44 | 2.42 | 1 | 1 |
| 1:A:28:ILE:HG21 | 1:A:140:ALA:HB1 | 0.44 | 1.89 | 5 | 1 |
| 1:A:29:THR:HG22 | 1:A:141:LEU:CB | 0.44 | 2.43 | 16 | 1 |
| 1:A:162:THR:O | 1:A:162:THR:HG23 | 0.44 | 2.12 | 18 | 1 |
| 1:A:126:SER:C | 1:A:127:ARG:CG | 0.44 | 2.91 | 2 | 1 |
| 1:A:131:GLN:HB2 | 1:A:134:PHE:HB2 | 0.44 | 1.89 | 3 | 1 |
| 1:A:150:VAL:O | 1:A:150:VAL:HG12 | 0.44 | 2.13 | 5 | 1 |
| 1:A:139:PHE:CD1 | 1:A:139:PHE:N | 0.43 | 2.86 | 5 | 1 |
| 1:A:132:LYS:CB | 1:A:133:PRO:HD3 | 0.43 | 2.43 | 19 | 2 |
| 1:A:111:SER:HB2 | 1:A:116:ALA:HB3 | 0.43 | 1.90 | 18 | 1 |
| 1:A:23:TYR:CD2 | 1:A:23:TYR:C | 0.43 | 2.96 | 2 | 2 |
| 1:A:60:LEU:HD13 | 1:A:158:ILE:HD11 | 0.43 | 1.90 | 6 | 1 |
| 1:A:118:ALA:HB3 | 1:A:121:ASP:OD2 | 0.43 | 2.12 | 15 | 1 |
| 1:A:29:THR:O | 1:A:30:ASN:C | 0.43 | 2.61 | 8 | 1 |
| 1:A:136:ASP:O | 1:A:140:ALA:HB2 | 0.43 | 2.13 | 13 | 1 |
| 1:A:24:TYR:CZ | 1:A:36:ARG:HA | 0.43 | 2.49 | 9 | 2 |
| 1:A:58:SER:OG | 1:A:160:LEU:HD23 | 0.43 | 2.13 | 3 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:73:TRP:CD1 | 1:A:73:TRP:N | 0.43 | 2.86 | 14 | 1 |
| 1:A:11:TRP:CD1 | 1:A:11:TRP:N | 0.43 | 2.83 | 20 | 1 |
| 1:A:73:TRP:CD2 | 1:A:74:ARG:N | 0.43 | 2.87 | 7 | 3 |
| 1:A:24:TYR:O | 1:A:25:PHE:HB3 | 0.43 | 2.14 | 7 | 1 |
| 1:A:61:LEU:HD11 | 1:A:63:LYS:HG2 | 0.43 | 1.91 | 18 | 1 |
| 1:A:78:ILE:O | 1:A:79:THR:C | 0.43 | 2.60 | 6 | 1 |
| 1:A:29:THR:HB | 1:A:147:SER:CA | 0.43 | 2.43 | 8 | 1 |
| 1:A:101:GLU:OE1 | 1:A:106:LEU:HD23 | 0.42 | 2.14 | 2 | 1 |
| 1:A:93:ILE:HD11 | 1:A:146:MET:HG2 | 0.42 | 1.90 | 8 | 1 |
| 1:A:162:THR:O | 1:A:162:THR:HG22 | 0.42 | 2.14 | 15 | 1 |
| 1:A:55:VAL:HG23 | 1:A:125:PHE:CE1 | 0.42 | 2.49 | 9 | 1 |
| 1:A:21:ARG:C | 1:A:22:VAL:HG23 | 0.42 | 2.39 | 12 | 1 |
| 1:A:29:THR:HG22 | 1:A:141:LEU:HD11 | 0.42 | 1.90 | 2 | 1 |
| 1:A:113:CYS:O | 1:A:114:SER:C | 0.42 | 2.62 | 6 | 1 |
| 1:A:93:ILE:HG22 | 1:A:97:LYS:NZ | 0.42 | 2.28 | 9 | 1 |
| 1:A:94:GLN:C | 1:A:95:LYS:CG | 0.42 | 2.93 | 10 | 1 |
| 1:A:156:ILE:C | 1:A:157:HIS:CG | 0.42 | 2.97 | 10 | 2 |
| 1:A:87:GLU:CG | 1:A:87:GLU:O | 0.42 | 2.65 | 12 | 1 |
| 1:A:55:VAL:HG12 | 1:A:139:PHE:CE1 | 0.42 | 2.50 | 15 | 1 |
| 1:A:30:ASN:O | 1:A:146:MET:HE3 | 0.42 | 2.14 | 16 | 1 |
| 1:A:60:LEU:HD12 | 1:A:103:PHE:CD2 | 0.42 | 2.49 | 17 | 1 |
| 1:A:7:LEU:HD13 | 1:A:24:TYR:CE2 | 0.42 | 2.50 | 19 | 1 |
| 1:A:96:ILE:CG1 | 1:A:106:LEU:HD12 | 0.42 | 2.44 | 3 | 1 |
| 1:A:152:THR:O | 1:A:153:ASP:CB | 0.42 | 2.67 | 5 | 1 |
| 1:A:8:PRO:CB | 1:A:9:PRO:HD2 | 0.42 | 2.44 | 18 | 2 |
| 1:A:24:TYR:CD1 | 1:A:35:GLU:C | 0.42 | 2.98 | 12 | 1 |
| 1:A:156:ILE:HG13 | 1:A:156:ILE:O | 0.42 | 2.14 | 13 | 1 |
| 1:A:160:LEU:HD12 | 1:A:160:LEU:O | 0.42 | 2.15 | 20 | 1 |
| 1:A:111:SER:OG | 1:A:116:ALA:HB2 | 0.42 | 2.15 | 6 | 2 |
| 1:A:132:LYS:C | 1:A:134:PHE:H | 0.42 | 2.21 | 8 | 1 |
| 1:A:35:GLU:O | 1:A:36:ARG:CB | 0.42 | 2.67 | 16 | 1 |
| 1:A:92:TYR:HD2 | 1:A:106:LEU:HD21 | 0.42 | 1.73 | 5 | 1 |
| 1:A:11:TRP:CZ2 | 1:A:26:ASN:CG | 0.42 | 2.98 | 13 | 1 |
| 1:A:131:GLN:O | 1:A:132:LYS:CB | 0.42 | 2.68 | 14 | 1 |
| 1:A:153:ASP:O | 1:A:154:SER:CB | 0.42 | 2.68 | 18 | 1 |
| 1:A:11:TRP:CE3 | 1:A:11:TRP:HA | 0.42 | 2.50 | 17 | 2 |
| 1:A:96:ILE:CD1 | 1:A:106:LEU:HD22 | 0.42 | 2.45 | 9 | 1 |
| 1:A:60:LEU:O | 1:A:61:LEU:CB | 0.41 | 2.68 | 5 | 1 |
| 1:A:134:PHE:CE1 | 1:A:159:ILE:HD11 | 0.41 | 2.50 | 7 | 1 |
| 1:A:130:MET:C | 1:A:131:GLN:CG | 0.41 | 2.93 | 12 | 2 |
| 1:A:133:PRO:HB3 | 1:A:152:THR:HG22 | 0.41 | 1.91 | 4 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:156:ILE:C | 1:A:157:HIS:CD2 | 0.41 | 2.98 | 6 | 1 |
| 1:A:26:ASN:OD1 | 1:A:141:LEU:HD22 | 0.41 | 2.16 | 13 | 1 |
| 1:A:54:ARG:C | 1:A:55:VAL:CG2 | 0.41 | 2.92 | 13 | 1 |
| 1:A:24:TYR:CE1 | 1:A:35:GLU:HA | 0.41 | 2.50 | 13 | 1 |
| 1:A:137:ALA:CB | 1:A:150:VAL:HG22 | 0.41 | 2.46 | 2 | 1 |
| 1:A:5:GLU:O | 1:A:6:LYS:C | 0.41 | 2.61 | 8 | 1 |
| 1:A:122:LEU:HD11 | 1:A:125:PHE:CE1 | 0.41 | 2.50 | 7 | 1 |
| 1:A:61:LEU:C | 1:A:61:LEU:CD2 | 0.41 | 2.93 | 17 | 1 |
| 1:A:57:CYS:O | 1:A:122:LEU:HD21 | 0.41 | 2.16 | 7 | 1 |
| 1:A:28:ILE:HB | 1:A:141:LEU:HD23 | 0.41 | 1.92 | 4 | 1 |
| 1:A:137:ALA:O | 1:A:141:LEU:HD11 | 0.41 | 2.15 | 16 | 1 |
| 1:A:78:ILE:C | 1:A:79:THR:CG2 | 0.41 | 2.94 | 6 | 1 |
| 1:A:148:GLY:O | 1:A:157:HIS:O | 0.41 | 2.38 | 8 | 1 |
| 1:A:24:TYR:CZ | 1:A:36:ARG:HB3 | 0.41 | 2.51 | 18 | 1 |
| 1:A:126:SER:C | 1:A:128:GLY:N | 0.41 | 2.79 | 1 | 1 |
| 1:A:82:LYS:O | 1:A:82:LYS:CG | 0.41 | 2.68 | 7 | 2 |
| 1:A:27:HIS:CD2 | 1:A:28:ILE:HD12 | 0.41 | 2.51 | 9 | 1 |
| 1:A:7:LEU:HD12 | 1:A:8:PRO:HD2 | 0.41 | 1.92 | 10 | 1 |
| 1:A:21:ARG:C | 1:A:22:VAL:HG22 | 0.41 | 2.41 | 10 | 2 |
| 1:A:29:THR:O | 1:A:147:SER:HA | 0.41 | 2.16 | 12 | 2 |
| 1:A:60:LEU:HD11 | 1:A:106:LEU:HD13 | 0.41 | 1.93 | 16 | 1 |
| 1:A:11:TRP:HA | 1:A:11:TRP:CE3 | 0.41 | 2.51 | 19 | 1 |
| 1:A:12:GLU:C | 1:A:24:TYR:CD1 | 0.41 | 2.99 | 10 | 1 |
| 1:A:80:ARG:O | 1:A:81:THR:CB | 0.41 | 2.69 | 18 | 1 |
| 1:A:89:ILE:HD12 | 1:A:149:PRO:HB3 | 0.41 | 1.93 | 19 | 1 |
| 1:A:106:LEU:O | 1:A:106:LEU:HD23 | 0.40 | 2.16 | 5 | 1 |
| 1:A:143:THR:HG21 | 1:A:163:GLU:CD | 0.40 | 2.40 | 9 | 1 |
| 1:A:103:PHE:CE2 | 1:A:107:ALA:HB2 | 0.40 | 2.51 | 6 | 1 |
| 1:A:89:ILE:HG13 | 1:A:156:ILE:HD11 | 0.40 | 1.93 | 18 | 1 |
| 1:A:23:TYR:C | 1:A:24:TYR:CD1 | 0.40 | 2.99 | 12 | 1 |
| 1:A:59:HIS:CD2 | 1:A:59:HIS:C | 0.40 | 2.97 | 14 | 1 |
| 1:A:59:HIS:NE2 | 1:A:61:LEU:HD23 | 0.40 | 2.31 | 16 | 1 |
| 1:A:133:PRO:HB2 | 1:A:152:THR:O | 0.40 | 2.17 | 5 | 1 |
| 1:A:55:VAL:HG11 | 1:A:161:ARG:NH1 | 0.40 | 2.30 | 18 | 1 |
| 1:A:156:ILE:O | 1:A:156:ILE:HG22 | 0.40 | 2.17 | 2 | 1 |

## 6.3 Torsion angles (i)

### 6.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles |
|---|---|---|---|---|---|---|
| 1 | A | 145/163 (89%) | 91±6 (63±4%) | 37±5 (26±4%) | 17±3 (12±2%) | 1 7 |
| All | All | 2900/3260 (89%) | 1816 (63%) | 744 (26%) | 340 (12%) | 1 7 |

All 82 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 153 | ASP | 16 |
| 1 | A | 127 | ARG | 13 |
| 1 | A | 61 | LEU | 12 |
| 1 | A | 110 | PHE | 12 |
| 1 | A | 111 | SER | 12 |
| 1 | A | 77 | LYS | 11 |
| 1 | A | 96 | ILE | 11 |
| 1 | A | 112 | ASP | 9 |
| 1 | A | 113 | CYS | 9 |
| 1 | A | 28 | ILE | 9 |
| 1 | A | 154 | SER | 9 |
| 1 | A | 35 | GLU | 8 |
| 1 | A | 63 | LYS | 8 |
| 1 | A | 143 | THR | 8 |
| 1 | A | 32 | SER | 8 |
| 1 | A | 36 | ARG | 7 |
| 1 | A | 73 | TRP | 7 |
| 1 | A | 148 | GLY | 7 |
| 1 | A | 6 | LYS | 7 |
| 1 | A | 114 | SER | 6 |
| 1 | A | 18 | SER | 5 |
| 1 | A | 25 | PHE | 5 |
| 1 | A | 83 | GLU | 5 |
| 1 | A | 95 | LYS | 5 |
| 1 | A | 102 | ASP | 5 |
| 1 | A | 76 | GLU | 5 |
| 1 | A | 134 | PHE | 5 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 75 | GLN | 4 |
| 1 | A | 81 | THR | 4 |
| 1 | A | 33 | GLN | 4 |
| 1 | A | 151 | PHE | 4 |
| 1 | A | 120 | GLY | 4 |
| 1 | A | 11 | TRP | 4 |
| 1 | A | 15 | MET | 4 |
| 1 | A | 119 | ARG | 4 |
| 1 | A | 12 | GLU | 3 |
| 1 | A | 128 | GLY | 3 |
| 1 | A | 16 | SER | 3 |
| 1 | A | 131 | GLN | 3 |
| 1 | A | 39 | GLY | 3 |
| 1 | A | 19 | SER | 3 |
| 1 | A | 56 | ARG | 3 |
| 1 | A | 155 | GLY | 3 |
| 1 | A | 22 | VAL | 3 |
| 1 | A | 82 | LYS | 3 |
| 1 | A | 53 | ALA | 3 |
| 1 | A | 20 | GLY | 2 |
| 1 | A | 126 | SER | 2 |
| 1 | A | 58 | SER | 2 |
| 1 | A | 146 | MET | 2 |
| 1 | A | 17 | ARG | 2 |
| 1 | A | 67 | SER | 2 |
| 1 | A | 79 | THR | 2 |
| 1 | A | 80 | ARG | 2 |
| 1 | A | 130 | MET | 2 |
| 1 | A | 161 | ARG | 2 |
| 1 | A | 142 | ARG | 2 |
| 1 | A | 149 | PRO | 2 |
| 1 | A | 150 | VAL | 2 |
| 1 | A | 13 | LYS | 2 |
| 1 | A | 132 | LYS | 2 |
| 1 | A | 5 | GLU | 1 |
| 1 | A | 124 | ALA | 1 |
| 1 | A | 30 | ASN | 1 |
| 1 | A | 97 | LYS | 1 |
| 1 | A | 144 | GLY | 1 |
| 1 | A | 26 | ASN | 1 |
| 1 | A | 101 | GLU | 1 |
| 1 | A | 158 | ILE | 1 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 34 | TRP | 1 |
| 1 | A | 129 | GLN | 1 |
| 1 | A | 14 | ARG | 1 |
| 1 | A | 105 | SER | 1 |
| 1 | A | 100 | GLU | 1 |
| 1 | A | 55 | VAL | 1 |
| 1 | A | 69 | ARG | 1 |
| 1 | A | 107 | ALA | 1 |
| 1 | A | 147 | SER | 1 |
| 1 | A | 68 | ARG | 1 |
| 1 | A | 60 | LEU | 1 |
| 1 | A | 89 | ILE | 1 |
| 1 | A | 10 | GLY | 1 |

### 6.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles |
|---|---|---|---|---|---|
| 1 | A | 126/138 (91%) | 79±4 (63±3%) | 47±4 (37±3%) | 1 8 |
| All | All | 2520/2760 (91%) | 1585 (63%) | 935 (37%) | 1 8 |

All 113 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 108 | SER | 20 |
| 1 | A | 105 | SER | 19 |
| 1 | A | 138 | SER | 19 |
| 1 | A | 141 | LEU | 19 |
| 1 | A | 38 | SER | 18 |
| 1 | A | 78 | ILE | 18 |
| 1 | A | 92 | TYR | 18 |
| 1 | A | 109 | GLN | 18 |
| 1 | A | 58 | SER | 18 |
| 1 | A | 95 | LYS | 17 |
| 1 | A | 6 | LYS | 16 |
| 1 | A | 145 | GLU | 16 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 126 | SER | 15 |
| 1 | A | 60 | LEU | 15 |
| 1 | A | 54 | ARG | 14 |
| 1 | A | 57 | CYS | 14 |
| 1 | A | 66 | GLN | 14 |
| 1 | A | 7 | LEU | 13 |
| 1 | A | 15 | MET | 13 |
| 1 | A | 63 | LYS | 12 |
| 1 | A | 68 | ARG | 12 |
| 1 | A | 163 | GLU | 12 |
| 1 | A | 12 | GLU | 12 |
| 1 | A | 17 | ARG | 11 |
| 1 | A | 18 | SER | 11 |
| 1 | A | 36 | ARG | 11 |
| 1 | A | 97 | LYS | 11 |
| 1 | A | 112 | ASP | 11 |
| 1 | A | 117 | LYS | 11 |
| 1 | A | 64 | HIS | 11 |
| 1 | A | 73 | TRP | 11 |
| 1 | A | 21 | ARG | 10 |
| 1 | A | 26 | ASN | 10 |
| 1 | A | 28 | ILE | 10 |
| 1 | A | 35 | GLU | 10 |
| 1 | A | 69 | ARG | 10 |
| 1 | A | 71 | SER | 10 |
| 1 | A | 98 | SER | 10 |
| 1 | A | 122 | LEU | 10 |
| 1 | A | 127 | ARG | 10 |
| 1 | A | 32 | SER | 10 |
| 1 | A | 72 | SER | 10 |
| 1 | A | 147 | SER | 10 |
| 1 | A | 150 | VAL | 10 |
| 1 | A | 154 | SER | 10 |
| 1 | A | 5 | GLU | 10 |
| 1 | A | 146 | MET | 10 |
| 1 | A | 16 | SER | 9 |
| 1 | A | 19 | SER | 9 |
| 1 | A | 55 | VAL | 9 |
| 1 | A | 119 | ARG | 9 |
| 1 | A | 74 | ARG | 8 |
| 1 | A | 111 | SER | 8 |
| 1 | A | 27 | HIS | 8 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 134 | PHE | 8 |
| 1 | A | 87 | GLU | 8 |
| 1 | A | 22 | VAL | 7 |
| 1 | A | 65 | SER | 7 |
| 1 | A | 135 | GLU | 7 |
| 1 | A | 161 | ARG | 7 |
| 1 | A | 114 | SER | 7 |
| 1 | A | 152 | THR | 7 |
| 1 | A | 25 | PHE | 7 |
| 1 | A | 33 | GLN | 6 |
| 1 | A | 84 | GLU | 6 |
| 1 | A | 132 | LYS | 6 |
| 1 | A | 142 | ARG | 6 |
| 1 | A | 159 | ILE | 6 |
| 1 | A | 130 | MET | 6 |
| 1 | A | 129 | GLN | 6 |
| 1 | A | 14 | ARG | 6 |
| 1 | A | 77 | LYS | 6 |
| 1 | A | 82 | LYS | 6 |
| 1 | A | 143 | THR | 6 |
| 1 | A | 30 | ASN | 5 |
| 1 | A | 102 | ASP | 5 |
| 1 | A | 115 | SER | 5 |
| 1 | A | 94 | GLN | 5 |
| 1 | A | 110 | PHE | 5 |
| 1 | A | 153 | ASP | 5 |
| 1 | A | 80 | ARG | 5 |
| 1 | A | 59 | HIS | 5 |
| 1 | A | 61 | LEU | 5 |
| 1 | A | 101 | GLU | 5 |
| 1 | A | 89 | ILE | 5 |
| 1 | A | 62 | VAL | 5 |
| 1 | A | 83 | GLU | 4 |
| 1 | A | 125 | PHE | 4 |
| 1 | A | 103 | PHE | 4 |
| 1 | A | 158 | ILE | 4 |
| 1 | A | 106 | LEU | 4 |
| 1 | A | 160 | LEU | 4 |
| 1 | A | 11 | TRP | 3 |
| 1 | A | 56 | ARG | 3 |
| 1 | A | 86 | LEU | 3 |
| 1 | A | 113 | CYS | 3 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 81 | THR | 3 |
| 1 | A | 34 | TRP | 3 |
| 1 | A | 76 | GLU | 3 |
| 1 | A | 131 | GLN | 3 |
| 1 | A | 24 | TYR | 3 |
| 1 | A | 13 | LYS | 3 |
| 1 | A | 67 | SER | 3 |
| 1 | A | 23 | TYR | 2 |
| 1 | A | 90 | ASN | 2 |
| 1 | A | 121 | ASP | 2 |
| 1 | A | 139 | PHE | 2 |
| 1 | A | 75 | GLN | 2 |
| 1 | A | 88 | LEU | 2 |
| 1 | A | 100 | GLU | 2 |
| 1 | A | 156 | ILE | 1 |
| 1 | A | 29 | THR | 1 |
| 1 | A | 157 | HIS | 1 |

#### 6.3.3 RNA

There are no RNA molecules in this entry.

### 6.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

### 6.5 Carbohydrates

There are no oligosaccharides in this entry.

### 6.6 Ligand geometry

There are no ligands in this entry.

### 6.7 Other polymers

There are no such molecules in this entry.

## 6.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

# 7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 83% for the well-defined parts and 83% for the entire structure.

## 7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

### 7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

| | |
|---|---|
| Total number of shifts | 1801 |
| Number of shifts mapped to atoms | 1801 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 9 |

### 7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

| Nucleus | # values | Correction ± precision, *ppm* | Suggested action |
|---|---|---|---|
| $^{13}C_{\alpha}$ | 163 | -0.21 ± 0.13 | None needed (< 0.5 ppm) |
| $^{13}C_{\beta}$ | 148 | -0.09 ± 0.10 | None needed (< 0.5 ppm) |
| $^{13}C'$ | 0 | — | None (insufficient data) |
| $^{15}N$ | 152 | 0.12 ± 0.17 | None needed (< 0.5 ppm) |

### 7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 83%, i.e. 1655 atoms were assigned a chemical shift out of a possible 1995. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | $^{1}H$ | $^{13}C$ | $^{15}N$ |
|---|---|---|---|---|
| Backbone | 578/729 (79%) | 295/297 (99%) | 146/292 (50%) | 137/140 (98%) |
| Sidechain | 935/1105 (85%) | 634/709 (89%) | 291/335 (87%) | 10/61 (16%) |

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| | Total | $^{1}$H | $^{13}$C | $^{15}$N |
|---|---|---|---|---|
| Aromatic | 142/161 (88%) | 71/81 (88%) | 68/73 (93%) | 3/7 (43%) |
| Overall | 1655/1995 (83%) | 1000/1087 (92%) | 505/700 (72%) | 150/208 (72%) |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 83%, i.e. 1801 atoms were assigned a chemical shift out of a possible 2169. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | $^{1}$H | $^{13}$C | $^{15}$N |
|---|---|---|---|---|
| Backbone | 646/816 (79%) | 331/334 (99%) | 163/326 (50%) | 152/156 (97%) |
| Sidechain | 1013/1192 (85%) | 686/763 (90%) | 314/364 (86%) | 13/65 (20%) |
| Aromatic | 142/161 (88%) | 71/81 (88%) | 68/73 (93%) | 3/7 (43%) |
| Overall | 1801/2169 (83%) | 1088/1178 (92%) | 545/763 (71%) | 168/228 (74%) |

### 7.1.4 Statistically unusual chemical shifts (i)

The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

| List Id | Chain | Res | Type | Atom | Shift, *ppm* | Expected range, *ppm* | Z-score |
|---|---|---|---|---|---|---|---|
| 1 | A | 26 | ASN | HB2 | -0.69 | 1.27 – 4.34 | -11.4 |
| 1 | A | 74 | ARG | HG3 | -0.64 | 0.15 – 2.94 | -7.8 |
| 1 | A | 14 | ARG | HB2 | 0.11 | 0.52 – 3.08 | -6.6 |
| 1 | A | 26 | ASN | HD22 | 4.06 | 4.69 – 9.61 | -6.3 |
| 1 | A | 37 | PRO | HG3 | -0.04 | 0.33 – 3.48 | -6.2 |
| 1 | A | 74 | ARG | HG2 | -0.02 | 0.26 – 2.87 | -6.1 |
| 1 | A | 55 | VAL | HG21 | -0.63 | -0.58 – 2.19 | -5.2 |
| 1 | A | 55 | VAL | HG22 | -0.63 | -0.58 – 2.19 | -5.2 |
| 1 | A | 55 | VAL | HG23 | -0.63 | -0.58 – 2.19 | -5.2 |

### 7.1.5 Random Coil Index (RCI) plots (i)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition.If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:

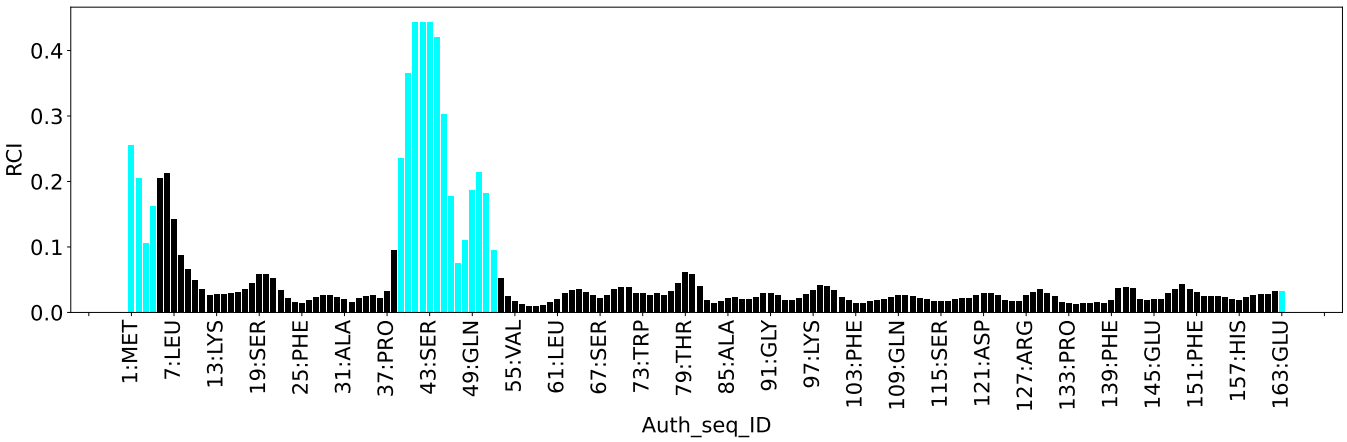
RCI
0.0
0.1
0.2
0.3
0.4
1:MET
7:LEU
13:LYS
19:SER
25:PHE
31:ALA
37:PRO
43:SER
49:GLN
55:VAL
61:LEU
67:SER
73:TRP
79:THR
85:ALA
91:GLY
97:LYS
103:PHE
109:GLN
115:SER
121:ASP
127:ARG
133:PRO
139:PHE
145:GLU
151:PHE
157:HIS
163:GLU
Auth_seq_ID

# 8 NMR restraints analysis

## 8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

| Description | Value |
|---|---|
| Total distance restraints | 11609 |
| Intra-residue (\|i-j\|=0) | 2768 |
| Sequential (\|i-j\|=1) | 3004 |
| Medium range (\|i-j\|>1 and \|i-j\|<5) | 2002 |
| Long range (\|i-j\|≥5) | 3835 |
| Inter-chain | 0 |
| Hydrogen bond restraints | 0 |
| Disulfide bond restraints | 0 |
| Total dihedral-angle restraints | 132 |
| Number of unmapped restraints | 0 |
| Number of restraints per residue | 36.0 |
| Number of long range restraints per residue[1] | 11.8 |

[1]Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

## 8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

### 8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å
are not included in the calculation.

| Bins (Å) | Average number of violations per model | Max (Å) |
|---|---|---|
| 0.1-0.2 (Small) | 238.9 | 0.2 |
| 0.2-0.5 (Medium) | 538.2 | 0.5 |
| >0.5 (Large) | 7463.5 | 43.27 |

### 8.2.2 Average number of dihedral-angle violations per model (i)

Dihedral-angle violations less than 1° are not included in the calculation.

| Bins (°) | Average number of violations per model | Max (°) |
|---|---|---|
| 1.0-10.0 (Small) | 3.2 | 9.9 |
| 10.0-20.0 (Medium) | 2.7 | 17.87 |
| >20.0 (Large) | 10.2 | 76.65 |

# 9 Distance violation analysis (i)

## 9.1 Summary of distance violations (i)

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

| Restraints type | Count | %[1] | Violated[3] | | | Consistently Violated[4] | | |
|---|---|---|---|---|---|---|---|---|
| | | | Count | %[2] | %[1] | Count | %[2] | %[1] |
| Intra-residue (\|i-j\|=0) | 2768 | 23.8 | 2235 | 80.7 | 19.3 | 1496 | 54.0 | 12.9 |
| Backbone-Backbone | 242 | 2.1 | 199 | 82.2 | 1.7 | 145 | 59.9 | 1.2 |
| Backbone-Sidechain | 1936 | 16.7 | 1585 | 81.9 | 13.7 | 1045 | 54.0 | 9.0 |
| Sidechain-Sidechain | 590 | 5.1 | 451 | 76.4 | 3.9 | 306 | 51.9 | 2.6 |
| Sequential (\|i-j\|=1) | 3004 | 25.9 | 2411 | 80.3 | 20.8 | 1737 | 57.8 | 15.0 |
| Backbone-Backbone | 846 | 7.3 | 713 | 84.3 | 6.1 | 461 | 54.5 | 4.0 |
| Backbone-Sidechain | 1737 | 15.0 | 1372 | 79.0 | 11.8 | 992 | 57.1 | 8.5 |
| Sidechain-Sidechain | 421 | 3.6 | 326 | 77.4 | 2.8 | 284 | 67.5 | 2.4 |
| Medium range (\|i-j\|>1 & \|i-j\|<5) | 2002 | 17.2 | 1648 | 82.3 | 14.2 | 1189 | 59.4 | 10.2 |
| Backbone-Backbone | 532 | 4.6 | 426 | 80.1 | 3.7 | 303 | 57.0 | 2.6 |
| Backbone-Sidechain | 889 | 7.7 | 731 | 82.2 | 6.3 | 534 | 60.1 | 4.6 |
| Sidechain-Sidechain | 581 | 5.0 | 491 | 84.5 | 4.2 | 352 | 60.6 | 3.0 |
| Long range (\|i-j\|≥5) | 3835 | 33.0 | 3280 | 85.5 | 28.3 | 2237 | 58.3 | 19.3 |
| Backbone-Backbone | 278 | 2.4 | 237 | 85.3 | 2.0 | 146 | 52.5 | 1.3 |
| Backbone-Sidechain | 1835 | 15.8 | 1568 | 85.4 | 13.5 | 1026 | 55.9 | 8.8 |
| Sidechain-Sidechain | 1722 | 14.8 | 1475 | 85.7 | 12.7 | 1065 | 61.8 | 9.2 |
| Inter-chain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Backbone | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Sidechain-Sidechain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Hydrogen bond | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Disulfide bond | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Total | 11609 | 100.0 | 9574 | 82.5 | 82.5 | 6659 | 57.4 | 57.4 |
| Backbone-Backbone | 1898 | 16.3 | 1575 | 83.0 | 13.6 | 1055 | 55.6 | 9.1 |
| Backbone-Sidechain | 6397 | 55.1 | 5256 | 82.2 | 45.3 | 3597 | 56.2 | 31.0 |
| Sidechain-Sidechain | 3314 | 28.5 | 2743 | 82.8 | 23.6 | 2007 | 60.6 | 17.3 |

[1] percentage calculated with respect to the total number of distance restraints, [2] percentage calculated with respect to the number of restraints in a particular restraint category, [3] violated in at least one model, [4] violated in all the models

### 9.1.1 Bar chart : Distribution of distance restraints and violations

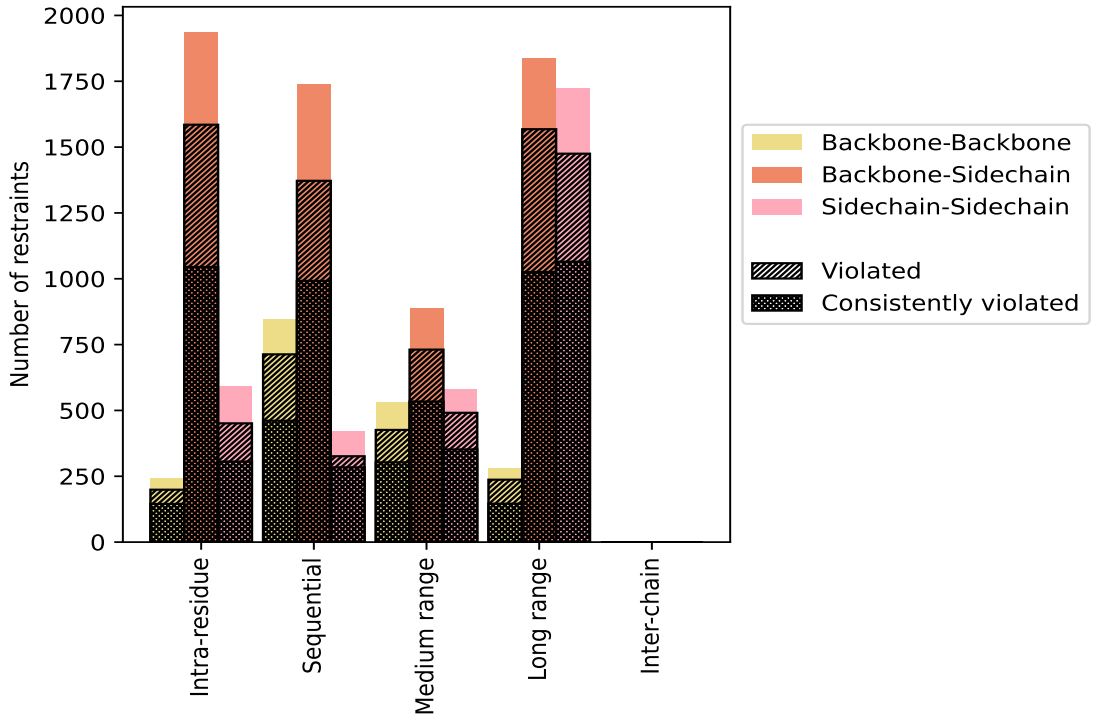


Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

## 9.2 Distance violation statistics for each model

The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å
are not included in the statistics.

| Model ID | Number of violations | | | | | | Mean (Å) | Max (Å) | SD[6] (Å) | Median (Å) |
|---|---|---|---|---|---|---|---|---|---|---|
| | IR[1] | SQ[2] | MR[3] | LR[4] | IC[5] | Total | | | | |
| 1 | 1919 | 2110 | 1415 | 2849 | 0 | 8293 | 3.89 | 42.83 | 4.34 | 3.32 |
| 2 | 1887 | 2117 | 1404 | 2762 | 0 | 8170 | 3.38 | 23.19 | 2.34 | 3.25 |
| 3 | 1893 | 2123 | 1387 | 2808 | 0 | 8211 | 3.75 | 41.3 | 3.87 | 3.25 |
| 4 | 1934 | 2115 | 1438 | 2808 | 0 | 8295 | 3.47 | 24.75 | 2.41 | 3.33 |
| 5 | 1926 | 2122 | 1401 | 2785 | 0 | 8234 | 3.38 | 23.38 | 2.31 | 3.27 |
| 6 | 1901 | 2125 | 1403 | 2846 | 0 | 8275 | 3.87 | 41.93 | 4.15 | 3.32 |
| 7 | 1896 | 2126 | 1416 | 2820 | 0 | 8258 | 3.78 | 43.27 | 3.9 | 3.3 |
| 8 | 1895 | 2116 | 1408 | 2814 | 0 | 8233 | 3.41 | 24.6 | 2.41 | 3.23 |
| 9 | 1898 | 2104 | 1446 | 2810 | 0 | 8258 | 3.44 | 24.0 | 2.41 | 3.28 |
| 10 | 1908 | 2128 | 1374 | 2838 | 0 | 8248 | 3.87 | 42.96 | 4.15 | 3.34 |

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| Model ID | Number of violations | | | | | | Mean (Å) | Max (Å) | SD[6] (Å) | Median (Å) |
|---|---|---|---|---|---|---|---|---|---|---|
| | IR[1] | SQ[2] | MR[3] | LR[4] | IC[5] | Total | | | | |
| 11 | 1919 | 2118 | 1403 | 2821 | 0 | 8261 | 3.71 | 37.58 | 3.53 | 3.3 |
| 12 | 1908 | 2131 | 1429 | 2786 | 0 | 8254 | 3.42 | 25.14 | 2.4 | 3.25 |
| 13 | 1915 | 2134 | 1447 | 2850 | 0 | 8346 | 3.47 | 25.4 | 2.42 | 3.32 |
| 14 | 1909 | 2119 | 1401 | 2789 | 0 | 8218 | 3.82 | 41.31 | 4.07 | 3.32 |
| 15 | 1898 | 2112 | 1394 | 2819 | 0 | 8223 | 3.72 | 39.39 | 3.61 | 3.27 |
| 16 | 1941 | 2105 | 1400 | 2801 | 0 | 8247 | 3.43 | 25.11 | 2.43 | 3.28 |
| 17 | 1890 | 2127 | 1372 | 2796 | 0 | 8185 | 3.85 | 42.75 | 4.15 | 3.3 |
| 18 | 1929 | 2123 | 1443 | 2825 | 0 | 8320 | 3.44 | 23.65 | 2.34 | 3.32 |
| 19 | 1904 | 2088 | 1384 | 2832 | 0 | 8208 | 3.7 | 35.73 | 3.44 | 3.28 |
| 20 | 1930 | 2128 | 1445 | 2816 | 0 | 8319 | 3.45 | 22.41 | 2.35 | 3.35 |

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints, [5]Inter-chain restraints, [6]Standard deviation

### 9.2.1 Bar graph : Distance Violation statistics for each model

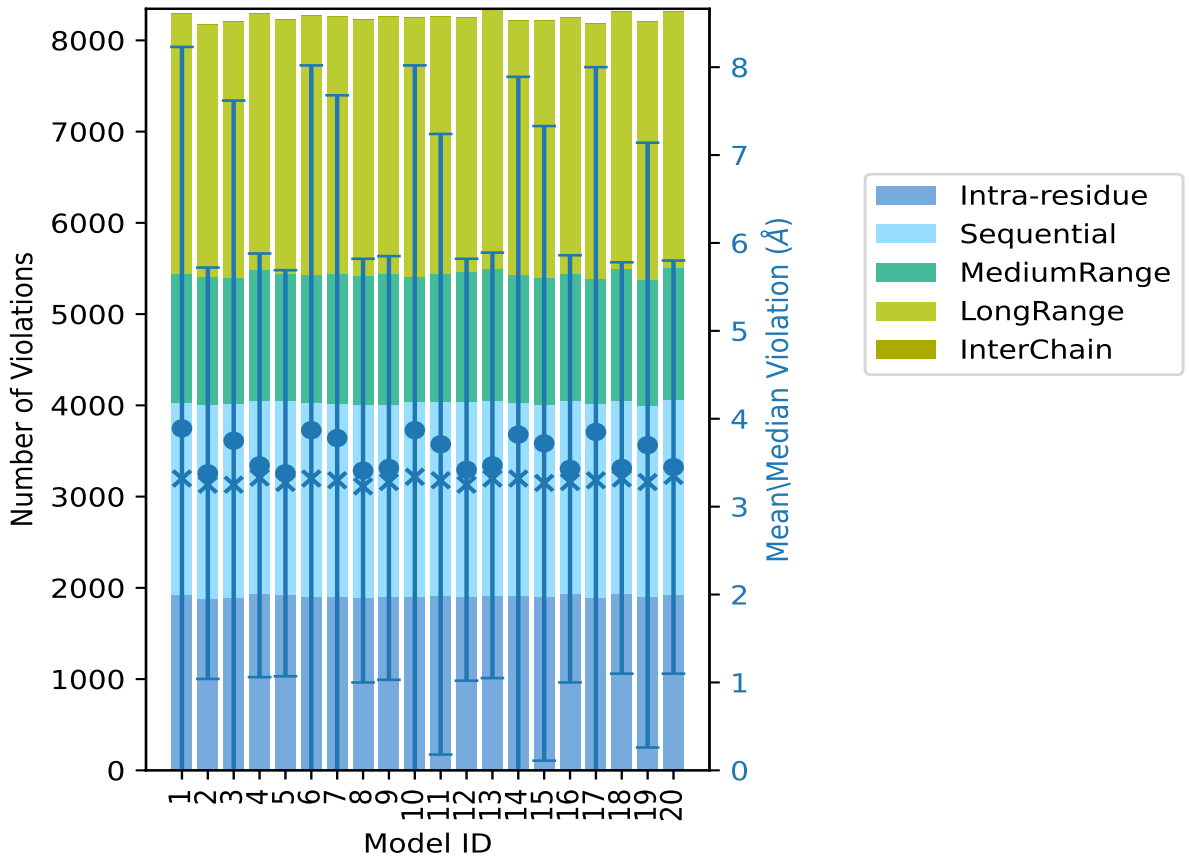


The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

## 9.3 Distance violation statistics for the ensemble (i)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 2035(IR:533, SQ:593, MR:354, LR:555, IC:0) restraints are not violated in the ensemble.

| Number of violated restraints | | | | | | Fraction of the ensemble | |
|---|---|---|---|---|---|---|---|
| IR[1] | SQ[2] | MR[3] | LR[4] | IC[5] | Total | Count[6] | % |
| 38 | 34 | 51 | 59 | 0 | 182 | 1 | 5.0 |
| 27 | 39 | 33 | 66 | 0 | 165 | 2 | 10.0 |
| 28 | 20 | 26 | 33 | 0 | 107 | 3 | 15.0 |
| 24 | 27 | 16 | 32 | 0 | 99 | 4 | 20.0 |
| 21 | 21 | 30 | 39 | 0 | 111 | 5 | 25.0 |
| 19 | 26 | 14 | 28 | 0 | 87 | 6 | 30.0 |
| 31 | 16 | 16 | 24 | 0 | 87 | 7 | 35.0 |
| 52 | 32 | 5 | 45 | 0 | 134 | 8 | 40.0 |
| 41 | 23 | 25 | 40 | 0 | 129 | 9 | 45.0 |
| 57 | 43 | 33 | 123 | 0 | 256 | 10 | 50.0 |
| 39 | 48 | 18 | 48 | 0 | 153 | 11 | 55.0 |
| 39 | 41 | 20 | 62 | 0 | 162 | 12 | 60.0 |
| 28 | 26 | 22 | 51 | 0 | 127 | 13 | 65.0 |
| 43 | 34 | 24 | 39 | 0 | 140 | 14 | 70.0 |
| 45 | 28 | 23 | 52 | 0 | 148 | 15 | 75.0 |
| 38 | 40 | 16 | 43 | 0 | 137 | 16 | 80.0 |
| 39 | 44 | 28 | 84 | 0 | 195 | 17 | 85.0 |
| 62 | 65 | 28 | 66 | 0 | 221 | 18 | 90.0 |
| 68 | 67 | 31 | 109 | 0 | 275 | 19 | 95.0 |
| 1496 | 1737 | 1189 | 2237 | 0 | 6659 | 20 | 100.0 |

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints, [5]Inter-chain restraints, [6] Number of models with violations

### 9.3.1 Bar graph : Distance violation statistics for the ensemble

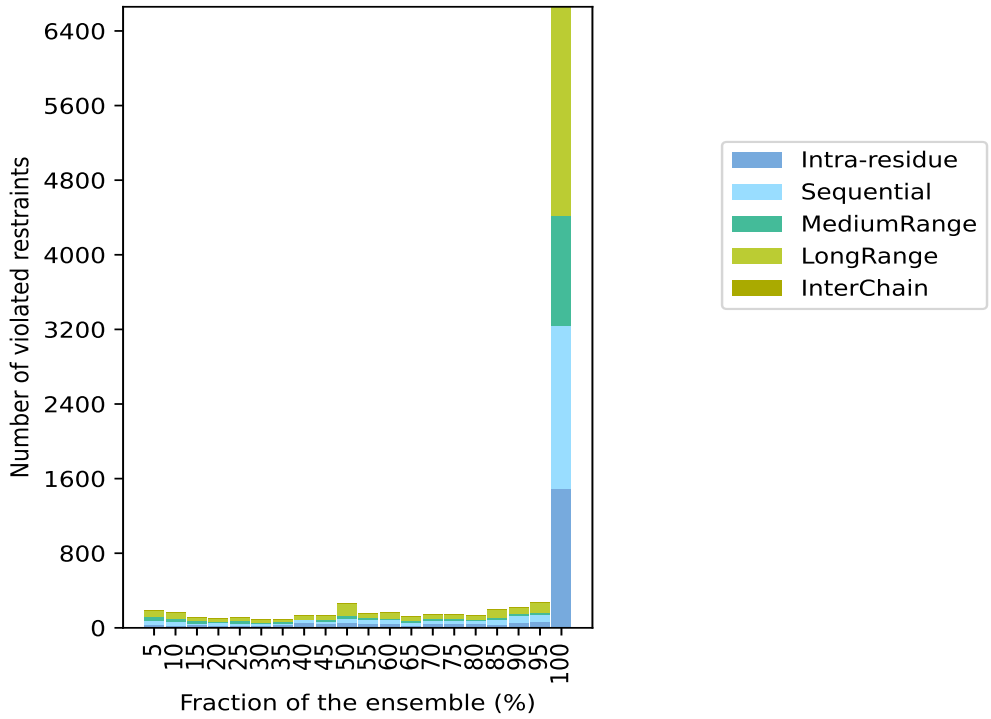


## 9.4 Most violated distance restraints in the ensemble

### 9.4.1 Histogram : Distribution of mean distance violations

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble

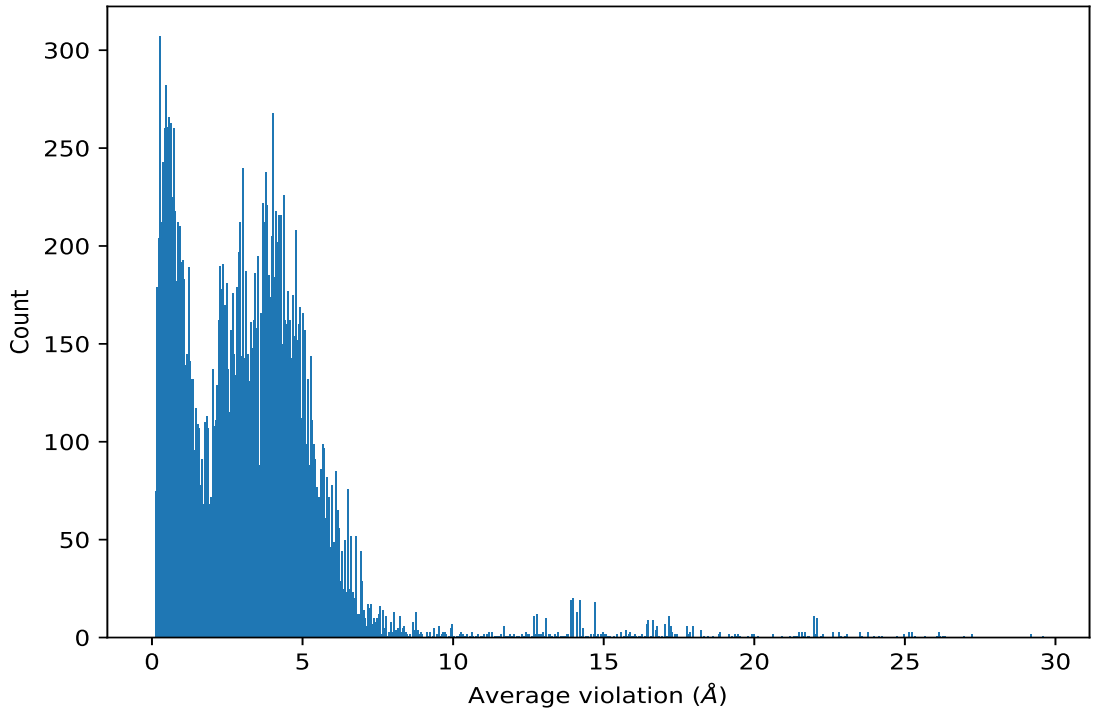


### 9.4.2 Table: Most violated distance restraints

The following table provides the mean and the standard deviation of theviolation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 20 | 22.25 | 15.13 | 21.02 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 20 | 22.25 | 15.13 | 21.02 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 20 | 22.04 | 16.33 | 18.76 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 20 | 21.97 | 16.72 | 21.17 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 20 | 21.97 | 16.72 | 21.17 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 20 | 21.62 | 15.22 | 17.93 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 20 | 20.9 | 12.56 | 18.42 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 20 | 19.5 | 10.25 | 16.81 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 20 | 19.43 | 6.68 | 16.92 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 20 | 19.38 | 16.05 | 16.6 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 20 | 19.38 | 16.05 | 16.6 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 20 | 19.15 | 11.37 | 17.74 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 20 | 18.84 | 16.72 | 18.05 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 20 | 18.33 | 15.13 | 17.1 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 20 | 18.2 | 14.85 | 12.94 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 20 | 18.2 | 12.27 | 17.05 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 20 | 18.2 | 12.27 | 17.05 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 20 | 18.2 | 12.27 | 17.05 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 20 | 17.97 | 14.29 | 16.45 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 20 | 17.97 | 14.29 | 16.45 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 20 | 17.97 | 14.29 | 16.45 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 20 | 17.97 | 14.29 | 16.45 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 20 | 17.97 | 14.29 | 16.45 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 20 | 17.97 | 14.29 | 16.45 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 20 | 17.86 | 12.22 | 16.78 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 20 | 17.86 | 12.22 | 16.78 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 20 | 17.86 | 12.22 | 16.78 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 20 | 17.83 | 15.54 | 12.16 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 20 | 17.79 | 12.02 | 16.5 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 20 | 17.79 | 12.02 | 16.5 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 20 | 17.79 | 12.02 | 16.5 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 20 | 17.44 | 15.34 | 11.56 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 20 | 17.38 | 10.57 | 15.62 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 20 | 17.27 | 12.76 | 15.95 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 20 | 17.27 | 12.76 | 15.95 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 20 | 17.27 | 12.76 | 15.95 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 20 | 17.24 | 13.15 | 16.18 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 20 | 17.24 | 13.15 | 16.18 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 20 | 17.24 | 13.15 | 16.18 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 20 | 17.24 | 13.15 | 16.18 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 20 | 17.24 | 13.15 | 16.18 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 20 | 17.24 | 13.15 | 16.18 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 20 | 17.17 | 14.75 | 12.52 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 20 | 17.15 | 9.83 | 15.87 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 20 | 17.05 | 11.9 | 16.14 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 20 | 17.04 | 13.45 | 15.57 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 20 | 17.04 | 13.45 | 15.57 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 20 | 17.04 | 13.45 | 15.57 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 20 | 17.04 | 13.45 | 15.57 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 20 | 17.04 | 13.45 | 15.57 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 20 | 17.04 | 13.45 | 15.57 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 20 | 16.79 | 13.44 | 14.95 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 20 | 16.79 | 13.44 | 14.95 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 20 | 16.79 | 13.44 | 14.95 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 20 | 16.79 | 13.44 | 14.95 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 20 | 16.79 | 13.44 | 14.95 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 20 | 16.79 | 13.44 | 14.95 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 20 | 16.63 | 10.13 | 15.25 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 20 | 16.62 | 13.92 | 13.77 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 20 | 16.61 | 13.25 | 14.98 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 20 | 16.61 | 13.25 | 14.98 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 20 | 16.61 | 13.25 | 14.98 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 20 | 16.61 | 13.25 | 14.98 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 20 | 16.61 | 13.25 | 14.98 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 20 | 16.61 | 13.25 | 14.98 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 20 | 16.61 | 11.42 | 16.23 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 20 | 16.57 | 14.89 | 11.8 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 20 | 16.42 | 12.39 | 14.54 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 20 | 16.42 | 12.39 | 14.54 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 20 | 16.42 | 12.39 | 14.54 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 20 | 16.42 | 12.39 | 14.54 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 20 | 16.42 | 12.39 | 14.54 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 20 | 16.42 | 12.39 | 14.54 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 20 | 16.41 | 7.22 | 18.8 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 20 | 16.26 | 10.08 | 13.98 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 20 | 16.04 | 12.92 | 13.66 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 20 | 16.03 | 12.56 | 13.55 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 20 | 15.9 | 5.13 | 14.78 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 20 | 15.86 | 14.29 | 14.34 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 20 | 15.86 | 14.29 | 14.34 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 20 | 15.86 | 14.29 | 14.34 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 20 | 15.83 | 12.96 | 14.13 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 20 | 15.76 | 15.13 | 14.52 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 20 | 15.13 | 6.68 | 12.62 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 20 | 14.94 | 10.25 | 12.26 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 20 | 14.72 | 11.57 | 13.16 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 20 | 14.72 | 11.57 | 13.16 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 20 | 14.72 | 11.57 | 13.16 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 20 | 14.72 | 11.57 | 13.16 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 20 | 14.72 | 11.57 | 13.16 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 20 | 14.72 | 11.57 | 13.16 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 20 | 14.72 | 11.57 | 13.16 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 20 | 14.72 | 11.57 | 13.16 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 20 | 14.72 | 11.57 | 13.16 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 20 | 14.72 | 11.57 | 13.16 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 20 | 14.72 | 11.57 | 13.16 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 20 | 14.72 | 11.57 | 13.16 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 20 | 14.72 | 11.57 | 13.16 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 20 | 14.72 | 11.57 | 13.16 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 20 | 14.72 | 11.57 | 13.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 20 | 14.72 | 11.57 | 13.16 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 20 | 14.72 | 11.57 | 13.16 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 20 | 14.72 | 11.57 | 13.16 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 20 | 14.67 | 12.2 | 13.76 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 20 | 14.55 | 9.56 | 13.04 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 20 | 14.32 | 1.92 | 14.38 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 20 | 14.3 | 13.25 | 12.66 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 20 | 14.3 | 13.25 | 12.66 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 20 | 14.3 | 13.25 | 12.66 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 20 | 14.22 | 10.8 | 13.38 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 20 | 14.22 | 10.8 | 13.38 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 20 | 14.22 | 10.8 | 13.38 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 20 | 14.22 | 10.8 | 13.38 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 20 | 14.22 | 10.8 | 13.38 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 20 | 14.22 | 10.8 | 13.38 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 20 | 14.22 | 10.8 | 13.38 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 20 | 14.22 | 10.8 | 13.38 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 20 | 14.22 | 10.8 | 13.38 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 20 | 14.22 | 10.8 | 13.38 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 20 | 14.22 | 10.8 | 13.38 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 20 | 14.22 | 10.8 | 13.38 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 20 | 14.22 | 10.8 | 13.38 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 20 | 14.22 | 10.8 | 13.38 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 20 | 14.22 | 10.8 | 13.38 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 20 | 14.22 | 10.8 | 13.38 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 20 | 14.22 | 10.8 | 13.38 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 20 | 14.22 | 10.8 | 13.38 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 20 | 14.14 | 12.39 | 12.26 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 20 | 14.14 | 12.39 | 12.26 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 20 | 14.14 | 12.39 | 12.26 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 20 | 13.99 | 12.27 | 12.76 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 20 | 13.99 | 12.27 | 12.76 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 20 | 13.99 | 12.27 | 12.76 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 20 | 13.99 | 12.27 | 12.76 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 20 | 13.99 | 12.27 | 12.76 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 20 | 13.99 | 12.27 | 12.76 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 20 | 13.99 | 12.27 | 12.76 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 20 | 13.99 | 12.27 | 12.76 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 20 | 13.99 | 12.27 | 12.76 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 20 | 13.99 | 12.27 | 12.76 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 20 | 13.99 | 12.27 | 12.76 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 20 | 13.99 | 12.27 | 12.76 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 20 | 13.99 | 12.27 | 12.76 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 20 | 13.99 | 12.27 | 12.76 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 20 | 13.99 | 12.27 | 12.76 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 20 | 13.99 | 12.27 | 12.76 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 20 | 13.99 | 12.27 | 12.76 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 20 | 13.99 | 12.27 | 12.76 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 20 | 13.92 | 11.75 | 12.67 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 20 | 13.92 | 11.75 | 12.67 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 20 | 13.92 | 11.75 | 12.67 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 20 | 13.92 | 11.75 | 12.67 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 20 | 13.92 | 11.75 | 12.67 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 20 | 13.92 | 11.75 | 12.67 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 20 | 13.92 | 11.75 | 12.67 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 20 | 13.92 | 11.75 | 12.67 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 20 | 13.92 | 11.75 | 12.67 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 20 | 13.92 | 11.75 | 12.67 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 20 | 13.92 | 11.75 | 12.67 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 20 | 13.92 | 11.75 | 12.67 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 20 | 13.92 | 11.75 | 12.67 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 20 | 13.92 | 11.75 | 12.67 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 20 | 13.92 | 11.75 | 12.67 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 20 | 13.92 | 11.75 | 12.67 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 20 | 13.92 | 11.75 | 12.67 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 20 | 13.92 | 11.75 | 12.67 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 20 | 13.92 | 8.43 | 12.94 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 20 | 13.84 | 10.45 | 11.44 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 20 | 13.84 | 11.37 | 12.44 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 20 | 13.75 | 6.22 | 12.46 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 20 | 13.71 | 4.74 | 13.82 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 20 | 13.15 | 9.31 | 13.82 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 20 | 13.06 | 11.33 | 10.48 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 20 | 13.01 | 7.3 | 10.44 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 20 | 12.99 | 9.85 | 10.68 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 20 | 12.91 | 3.34 | 12.55 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 20 | 12.91 | 10.57 | 11.16 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 20 | 12.84 | 7.45 | 13.79 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 20 | 12.83 | 9.83 | 11.55 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 20 | 12.76 | 8.22 | 10.09 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 20 | 12.71 | 6.47 | 10.7 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 20 | 12.69 | 10.8 | 11.86 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 20 | 12.69 | 10.8 | 11.86 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 20 | 12.69 | 10.8 | 11.86 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 20 | 12.69 | 10.8 | 11.86 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 20 | 12.69 | 10.8 | 11.86 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 20 | 12.69 | 10.8 | 11.86 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 20 | 12.69 | 10.8 | 11.86 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 20 | 12.69 | 10.8 | 11.86 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 20 | 12.69 | 10.8 | 11.86 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 20 | 12.67 | 8.41 | 12.0 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 20 | 12.53 | 6.8 | 11.22 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 20 | 12.38 | 10.13 | 11.0 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 20 | 11.99 | 10.08 | 9.72 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 20 | 11.88 | 9.79 | 9.67 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 20 | 11.68 | 2.96 | 11.65 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 20 | 11.66 | 3.59 | 11.91 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 20 | 11.66 | 1.84 | 11.86 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 20 | 11.65 | 2.22 | 11.86 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 20 | 11.52 | 8.51 | 9.72 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 20 | 11.47 | 5.13 | 10.35 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 11.39 | 6.14 | 7.09 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 11.26 | 6.29 | 7.04 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 20 | 11.18 | 6.68 | 9.02 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 20 | 11.17 | 4.14 | 13.03 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 20 | 11.17 | 7.72 | 7.8 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 20 | 11.13 | 2.18 | 11.61 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 20 | 11.12 | 7.56 | 9.97 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 20 | 10.83 | 4.9 | 10.92 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 10.79 | 6.14 | 6.49 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 10.66 | 6.29 | 6.44 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 20 | 10.63 | 6.47 | 12.42 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 10.62 | 4.45 | 10.37 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 10.62 | 3.77 | 10.15 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 10.48 | 4.5 | 10.27 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 10.47 | 3.83 | 10.53 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 20 | 10.34 | 6.86 | 12.35 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 20 | 10.31 | 2.54 | 10.16 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 20 | 10.29 | 2.43 | 10.1 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 20 | 10.29 | 2.43 | 10.1 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 20 | 10.28 | 3.13 | 11.01 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 20 | 10.24 | 4.48 | 10.2 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 20 | 10.18 | 2.22 | 9.7 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 9.99 | 5.56 | 6.01 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 9.99 | 5.56 | 6.01 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 9.99 | 5.56 | 6.01 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 9.99 | 5.56 | 6.01 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 20 | 9.98 | 4.04 | 11.62 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 20 | 9.98 | 4.04 | 11.62 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 9.93 | 4.45 | 9.68 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 9.93 | 3.77 | 9.46 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 9.93 | 2.97 | 8.83 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 9.93 | 2.97 | 8.83 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 9.93 | 2.97 | 8.83 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 9.79 | 4.5 | 9.58 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 9.78 | 3.83 | 9.84 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 20 | 9.74 | 7.84 | 7.67 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 20 | 9.68 | 5.3 | 9.82 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 20 | 9.68 | 2.06 | 9.52 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 20 | 9.6 | 2.0 | 9.38 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 20 | 9.55 | 5.17 | 9.58 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 9.53 | 0.4 | 9.54 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 9.53 | 0.4 | 9.54 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 9.53 | 0.4 | 9.54 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 20 | 9.5 | 0.99 | 9.34 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 20 | 9.5 | 0.99 | 9.34 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 20 | 9.5 | 0.99 | 9.34 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 20 | 9.49 | 3.25 | 9.16 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 9.38 | 5.56 | 5.41 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 9.38 | 5.56 | 5.41 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 20 | 9.36 | 7.84 | 9.31 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 20 | 9.24 | 1.53 | 9.18 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 20 | 9.24 | 1.53 | 9.18 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 20 | 9.23 | 3.17 | 9.79 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 20 | 9.16 | 3.59 | 9.28 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 20 | 9.14 | 5.83 | 9.25 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 20 | 9.12 | 1.8 | 8.91 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 20 | 9.11 | 1.57 | 8.5 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 20 | 8.99 | 1.7 | 8.48 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 20 | 8.99 | 1.7 | 8.48 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 20 | 8.9 | 3.01 | 9.78 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 20 | 8.89 | 2.04 | 8.94 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 8.87 | 2.04 | 8.72 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 20 | 8.82 | 3.84 | 8.41 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 20 | 8.82 | 4.23 | 10.38 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 20 | 8.76 | 2.56 | 7.51 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 20 | 8.76 | 2.56 | 7.51 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 20 | 8.76 | 2.56 | 7.51 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 8.76 | 2.56 | 7.51 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 8.76 | 2.56 | 7.51 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 8.76 | 2.56 | 7.51 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 20 | 8.76 | 2.56 | 7.51 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 20 | 8.76 | 2.56 | 7.51 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 20 | 8.76 | 2.56 | 7.51 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 8.76 | 2.56 | 7.51 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 8.76 | 2.56 | 7.51 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 8.76 | 2.56 | 7.51 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 20 | 8.75 | 4.59 | 10.14 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 20 | 8.72 | 1.18 | 8.68 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 20 | 8.72 | 1.18 | 8.68 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 20 | 8.72 | 1.18 | 8.68 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 20 | 8.72 | 1.18 | 8.68 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 8.67 | 0.6 | 8.61 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 8.67 | 0.6 | 8.61 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 8.67 | 0.6 | 8.61 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 20 | 8.66 | 1.44 | 8.84 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 20 | 8.66 | 1.44 | 8.84 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 20 | 8.66 | 1.44 | 8.84 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 20 | 8.66 | 4.74 | 8.77 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 8.58 | 2.16 | 8.13 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 8.56 | 1.07 | 8.43 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 8.48 | 0.91 | 8.12 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 8.48 | 0.91 | 8.12 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 20 | 8.42 | 1.52 | 8.2 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 20 | 8.4 | 1.99 | 7.56 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 20 | 8.4 | 3.0 | 8.57 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 20 | 8.38 | 0.92 | 8.18 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 20 | 8.38 | 0.92 | 8.18 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 20 | 8.38 | 0.92 | 8.18 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 20 | 8.38 | 0.92 | 8.18 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 20 | 8.35 | 1.17 | 8.02 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 20 | 8.35 | 1.17 | 8.02 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 20 | 8.31 | 0.73 | 8.14 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 20 | 8.31 | 0.73 | 8.14 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 20 | 8.28 | 1.26 | 8.08 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 20 | 8.26 | 3.35 | 9.22 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 20 | 8.23 | 2.19 | 7.82 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 20 | 8.23 | 2.19 | 7.82 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 8.2 | 3.33 | 7.69 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 8.2 | 3.33 | 7.69 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 8.2 | 3.33 | 7.69 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 8.2 | 3.33 | 7.69 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 8.2 | 3.33 | 7.69 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 8.2 | 3.33 | 7.69 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 8.2 | 3.33 | 7.69 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 8.2 | 3.33 | 7.69 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 20 | 8.15 | 0.8 | 7.86 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 20 | 8.15 | 0.8 | 7.86 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 20 | 8.15 | 0.8 | 7.86 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 20 | 8.15 | 0.8 | 7.86 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 20 | 8.13 | 1.42 | 8.18 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 20 | 8.12 | 1.36 | 7.78 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 20 | 8.12 | 1.36 | 7.78 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 8.11 | 2.04 | 7.96 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 20 | 8.08 | 5.78 | 8.24 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 20 | 8.08 | 2.81 | 7.33 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 20 | 8.08 | 2.81 | 7.33 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 8.06 | 1.02 | 8.07 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 8.03 | 0.47 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 8.03 | 0.47 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 8.03 | 0.47 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 8.03 | 0.47 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 8.03 | 0.47 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 8.03 | 0.47 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 8.03 | 0.47 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 8.03 | 0.47 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 8.03 | 0.47 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 8.03 | 0.47 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 8.03 | 0.47 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 8.03 | 0.47 | 8.02 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 20 | 8.03 | 0.59 | 8.0 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 7.97 | 0.99 | 7.69 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 7.97 | 0.99 | 7.69 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 7.95 | 1.02 | 7.58 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 20 | 7.94 | 0.99 | 7.61 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 20 | 7.94 | 0.99 | 7.61 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 20 | 7.94 | 0.99 | 7.61 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 20 | 7.9 | 0.89 | 7.62 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 20 | 7.9 | 0.89 | 7.62 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 20 | 7.87 | 1.42 | 7.78 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 20 | 7.85 | 2.3 | 6.42 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 20 | 7.85 | 2.3 | 6.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 7.82 | 2.16 | 7.37 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 7.78 | 1.0 | 7.68 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 20 | 7.77 | 4.43 | 8.51 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 20 | 7.77 | 4.43 | 8.51 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 20 | 7.77 | 2.69 | 7.56 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 7.76 | 0.72 | 7.71 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 20 | 7.76 | 1.34 | 7.54 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 20 | 7.76 | 1.34 | 7.54 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 20 | 7.76 | 1.34 | 7.54 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 7.75 | 0.51 | 7.62 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 7.75 | 0.51 | 7.62 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 7.75 | 0.51 | 7.62 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 20 | 7.73 | 2.69 | 7.54 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 7.71 | 0.88 | 7.76 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 20 | 7.7 | 0.61 | 7.62 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 20 | 7.69 | 1.29 | 7.76 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 20 | 7.69 | 1.29 | 7.76 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 20 | 7.69 | 0.96 | 7.72 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 7.69 | 0.96 | 7.72 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 20 | 7.69 | 0.96 | 7.72 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 7.69 | 0.96 | 7.72 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 20 | 7.68 | 0.9 | 7.96 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 7.68 | 1.36 | 7.72 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 20 | 7.67 | 1.16 | 7.53 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 20 | 7.67 | 1.16 | 7.53 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 20 | 7.67 | 0.88 | 7.46 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 20 | 7.67 | 0.88 | 7.46 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 20 | 7.67 | 0.88 | 7.46 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 20 | 7.65 | 1.89 | 7.6 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 7.64 | 0.99 | 7.64 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 20 | 7.59 | 0.59 | 7.54 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 20 | 7.59 | 0.59 | 7.54 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 20 | 7.59 | 0.59 | 7.54 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 20 | 7.59 | 0.59 | 7.54 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 20 | 7.58 | 1.43 | 7.14 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 20 | 7.58 | 1.43 | 7.14 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 7.56 | 0.75 | 7.6 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 7.56 | 0.75 | 7.6 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 7.56 | 0.75 | 7.6 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 7.56 | 1.51 | 7.46 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 20 | 7.55 | 1.66 | 7.6 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 20 | 7.55 | 1.66 | 7.6 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 20 | 7.55 | 1.12 | 7.42 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 20 | 7.55 | 1.12 | 7.42 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 20 | 7.54 | 0.59 | 7.71 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 20 | 7.54 | 0.69 | 7.6 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 20 | 7.54 | 0.69 | 7.6 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 20 | 7.54 | 0.69 | 7.6 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 20 | 7.54 | 0.69 | 7.6 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 20 | 7.54 | 0.73 | 7.54 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 7.52 | 1.66 | 7.54 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 7.51 | 3.33 | 7.0 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 7.51 | 3.33 | 7.0 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 7.51 | 3.33 | 7.0 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 7.51 | 3.33 | 7.0 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 20 | 7.5 | 1.01 | 7.25 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 20 | 7.49 | 1.67 | 6.72 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 20 | 7.49 | 1.67 | 6.72 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 20 | 7.49 | 1.67 | 6.72 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 20 | 7.49 | 1.67 | 6.72 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 20 | 7.47 | 0.59 | 7.7 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 20 | 7.47 | 0.59 | 7.7 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 20 | 7.47 | 0.86 | 7.38 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 20 | 7.47 | 0.86 | 7.38 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 20 | 7.47 | 0.86 | 7.38 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 20 | 7.42 | 1.26 | 6.7 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 20 | 7.42 | 0.67 | 7.28 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 20 | 7.42 | 0.67 | 7.28 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 20 | 7.42 | 0.67 | 7.28 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 20 | 7.41 | 0.75 | 7.4 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 20 | 7.41 | 0.75 | 7.4 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 7.41 | 1.67 | 7.01 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 7.4 | 1.89 | 6.58 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 7.38 | 1.02 | 7.25 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 20 | 7.38 | 1.04 | 7.77 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 20 | 7.38 | 1.04 | 7.77 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 20 | 7.37 | 0.33 | 7.35 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 20 | 7.37 | 0.78 | 7.36 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 20 | 7.37 | 0.78 | 7.36 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 7.36 | 1.13 | 6.98 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 20 | 7.36 | 5.55 | 7.1 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 20 | 7.35 | 0.77 | 7.23 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 20 | 7.34 | 1.48 | 6.76 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 20 | 7.32 | 0.94 | 6.78 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 20 | 7.32 | 0.94 | 6.78 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 20 | 7.32 | 0.94 | 6.78 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 20 | 7.32 | 5.06 | 6.83 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 7.31 | 1.61 | 6.86 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 20 | 7.29 | 1.53 | 6.42 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 20 | 7.28 | 3.01 | 6.58 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 7.27 | 1.12 | 7.44 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 20 | 7.27 | 0.96 | 7.14 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 7.27 | 0.83 | 7.16 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 7.26 | 0.81 | 6.96 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 7.26 | 0.81 | 6.96 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 7.26 | 0.81 | 6.96 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 7.26 | 0.81 | 6.96 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 7.26 | 0.81 | 6.96 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 7.26 | 0.81 | 6.96 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 7.26 | 0.81 | 6.96 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 7.26 | 0.81 | 6.96 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 7.25 | 2.46 | 6.24 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 7.25 | 1.91 | 7.18 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 20 | 7.24 | 0.86 | 7.08 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 20 | 7.23 | 0.95 | 6.92 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 20 | 7.23 | 0.95 | 6.92 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 20 | 7.23 | 0.6 | 7.44 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 20 | 7.23 | 0.6 | 7.44 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 20 | 7.23 | 0.6 | 7.44 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 20 | 7.21 | 1.13 | 7.2 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 20 | 7.21 | 1.13 | 7.2 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 20 | 7.21 | 1.13 | 7.2 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 20 | 7.21 | 0.48 | 7.38 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 20 | 7.2 | 0.69 | 7.36 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 20 | 7.2 | 0.69 | 7.36 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 20 | 7.2 | 0.29 | 7.2 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 20 | 7.2 | 2.22 | 6.12 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 20 | 7.2 | 2.22 | 6.12 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 7.19 | 2.02 | 6.7 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 7.19 | 1.92 | 6.68 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 7.18 | 1.61 | 6.9 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 7.18 | 0.84 | 7.26 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 20 | 7.17 | 0.79 | 7.12 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 20 | 7.17 | 1.28 | 6.76 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 20 | 7.17 | 1.28 | 6.76 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 20 | 7.17 | 1.37 | 6.76 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 20 | 7.17 | 1.37 | 6.76 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 20 | 7.16 | 3.31 | 7.11 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 20 | 7.16 | 3.31 | 7.11 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 20 | 7.16 | 4.75 | 5.62 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 20 | 7.15 | 0.68 | 7.27 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 20 | 7.15 | 0.24 | 7.08 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 20 | 7.15 | 0.24 | 7.08 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 20 | 7.15 | 0.24 | 7.08 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 20 | 7.13 | 0.56 | 7.11 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 20 | 7.13 | 0.56 | 7.11 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 20 | 7.13 | 0.56 | 7.11 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 20 | 7.13 | 1.98 | 6.27 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 20 | 7.11 | 0.91 | 7.24 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 20 | 7.09 | 0.91 | 6.93 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 20 | 7.09 | 0.91 | 6.93 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 20 | 7.09 | 0.91 | 6.93 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 20 | 7.07 | 2.25 | 7.4 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 20 | 7.06 | 0.98 | 7.38 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 20 | 7.06 | 0.98 | 7.38 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 7.06 | 0.89 | 7.28 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 7.06 | 0.89 | 7.28 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 7.06 | 0.89 | 7.28 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 20 | 7.05 | 2.15 | 7.38 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 7.04 | 2.33 | 6.84 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 20 | 7.04 | 1.66 | 6.5 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 20 | 7.04 | 1.66 | 6.5 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 20 | 7.03 | 0.5 | 7.0 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 20 | 7.03 | 0.5 | 7.0 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 20 | 7.03 | 0.5 | 7.0 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 20 | 7.03 | 0.83 | 6.84 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 7.02 | 1.0 | 6.52 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 7.02 | 1.0 | 6.52 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 7.02 | 1.51 | 7.18 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 20 | 7.01 | 1.26 | 6.92 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 20 | 7.01 | 0.74 | 7.06 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 20 | 7.01 | 0.74 | 7.06 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 20 | 7.01 | 0.74 | 7.06 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 20 | 6.99 | 0.49 | 7.06 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 20 | 6.99 | 0.49 | 7.06 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 20 | 6.99 | 0.49 | 7.06 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 6.99 | 1.06 | 6.77 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 20 | 6.98 | 1.44 | 6.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 20 | 6.98 | 1.44 | 6.96 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 20 | 6.97 | 1.29 | 6.43 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 20 | 6.97 | 1.29 | 6.43 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 20 | 6.97 | 1.29 | 6.43 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 20 | 6.97 | 1.84 | 7.18 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 6.97 | 0.87 | 6.8 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 6.97 | 0.87 | 6.8 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 6.97 | 0.87 | 6.8 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 6.97 | 0.87 | 6.8 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 6.97 | 1.0 | 6.84 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 20 | 6.97 | 0.93 | 6.71 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 20 | 6.97 | 0.93 | 6.71 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 20 | 6.97 | 0.93 | 6.71 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 20 | 6.97 | 0.93 | 6.71 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 20 | 6.97 | 0.93 | 6.71 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 20 | 6.97 | 0.93 | 6.71 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 20 | 6.97 | 0.93 | 6.71 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 20 | 6.97 | 0.93 | 6.71 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 20 | 6.97 | 0.93 | 6.71 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 6.96 | 0.93 | 6.85 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 6.96 | 2.16 | 6.72 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 6.96 | 2.16 | 6.72 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 20 | 6.95 | 1.27 | 6.77 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 20 | 6.94 | 1.4 | 6.43 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 20 | 6.94 | 1.4 | 6.43 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 20 | 6.94 | 1.4 | 6.43 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 20 | 6.94 | 1.4 | 6.43 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 20 | 6.94 | 1.4 | 6.43 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 20 | 6.94 | 1.4 | 6.43 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 20 | 6.94 | 1.25 | 6.51 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 20 | 6.94 | 1.25 | 6.51 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 20 | 6.94 | 1.25 | 6.51 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 6.94 | 1.68 | 6.62 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 6.94 | 1.68 | 6.62 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 20 | 6.94 | 1.25 | 7.38 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 20 | 6.93 | 3.59 | 7.18 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 6.93 | 0.85 | 6.85 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 20 | 6.93 | 1.45 | 6.85 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 20 | 6.93 | 1.45 | 6.85 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 20 | 6.93 | 1.45 | 6.85 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 20 | 6.93 | 1.45 | 6.85 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 20 | 6.93 | 1.45 | 6.85 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 20 | 6.93 | 1.45 | 6.85 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 6.93 | 2.97 | 5.83 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 6.93 | 2.97 | 5.83 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 6.93 | 2.97 | 5.83 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 20 | 6.92 | 1.03 | 6.35 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 20 | 6.92 | 1.03 | 6.35 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 20 | 6.92 | 1.03 | 6.35 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 20 | 6.92 | 1.03 | 6.35 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 20 | 6.92 | 1.03 | 6.35 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 20 | 6.92 | 1.03 | 6.35 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 20 | 6.92 | 3.14 | 6.7 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 20 | 6.92 | 3.14 | 6.7 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 6.92 | 0.63 | 6.91 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 6.92 | 3.17 | 5.5 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 20 | 6.92 | 2.37 | 6.12 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 6.92 | 0.81 | 7.0 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 6.92 | 0.81 | 7.0 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 20 | 6.92 | 2.37 | 6.12 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 6.92 | 0.81 | 7.0 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 6.92 | 0.81 | 7.0 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 20 | 6.9 | 1.78 | 6.07 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 6.9 | 1.16 | 6.43 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 6.9 | 1.16 | 6.43 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 6.9 | 1.93 | 6.34 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 20 | 6.9 | 0.72 | 6.69 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 6.89 | 1.6 | 6.56 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 20 | 6.89 | 2.75 | 5.62 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 20 | 6.89 | 2.75 | 5.62 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 20 | 6.89 | 2.75 | 5.62 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 6.89 | 0.59 | 6.6 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 20 | 6.86 | 0.76 | 6.88 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 20 | 6.86 | 0.76 | 6.88 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 20 | 6.86 | 0.76 | 6.88 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 20 | 6.86 | 0.76 | 6.88 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 20 | 6.86 | 2.22 | 7.08 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 20 | 6.85 | 2.03 | 5.76 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 20 | 6.85 | 2.03 | 5.76 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 6.84 | 1.04 | 6.98 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 6.83 | 0.59 | 6.65 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 6.83 | 0.59 | 6.65 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 6.83 | 0.59 | 6.65 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 20 | 6.82 | 0.63 | 6.73 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 20 | 6.81 | 0.74 | 7.0 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 20 | 6.81 | 0.64 | 6.7 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 20 | 6.8 | 1.97 | 5.62 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 20 | 6.8 | 1.97 | 5.62 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 20 | 6.8 | 1.27 | 6.76 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 20 | 6.8 | 1.27 | 6.76 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 20 | 6.8 | 1.27 | 6.76 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 6.79 | 0.95 | 6.71 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 20 | 6.79 | 0.64 | 6.68 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 20 | 6.79 | 0.64 | 6.68 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 20 | 6.79 | 0.98 | 6.6 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 20 | 6.79 | 0.98 | 6.6 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 20 | 6.79 | 0.91 | 6.44 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 20 | 6.79 | 0.91 | 6.44 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 20 | 6.78 | 0.74 | 6.64 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 20 | 6.78 | 0.74 | 6.64 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 20 | 6.78 | 0.74 | 6.64 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 20 | 6.78 | 0.74 | 6.64 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 20 | 6.78 | 0.74 | 6.64 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 20 | 6.78 | 0.74 | 6.64 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 20 | 6.78 | 0.74 | 6.64 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 20 | 6.78 | 0.74 | 6.64 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 20 | 6.78 | 0.74 | 6.64 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 20 | 6.78 | 0.64 | 6.9 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 20 | 6.78 | 0.64 | 6.9 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 20 | 6.78 | 0.64 | 6.9 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 20 | 6.78 | 0.64 | 6.9 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 6.78 | 1.02 | 6.58 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 20 | 6.78 | 2.22 | 7.37 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 20 | 6.78 | 0.41 | 6.86 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 20 | 6.78 | 0.41 | 6.86 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 20 | 6.78 | 0.41 | 6.86 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 20 | 6.77 | 0.98 | 6.6 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 20 | 6.77 | 1.48 | 6.82 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 20 | 6.77 | 1.48 | 6.82 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 20 | 6.77 | 0.87 | 6.28 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 20 | 6.77 | 0.87 | 6.28 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 20 | 6.77 | 0.87 | 6.28 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 20 | 6.77 | 1.33 | 6.57 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 20 | 6.77 | 1.33 | 6.57 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 6.76 | 1.66 | 6.78 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 20 | 6.76 | 0.37 | 6.81 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 20 | 6.76 | 0.37 | 6.81 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 20 | 6.76 | 0.37 | 6.81 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 20 | 6.76 | 0.37 | 6.81 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 20 | 6.76 | 1.32 | 6.61 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 20 | 6.76 | 1.32 | 6.61 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 20 | 6.76 | 1.32 | 6.61 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 20 | 6.76 | 0.67 | 6.97 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 20 | 6.76 | 1.09 | 6.82 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 20 | 6.76 | 1.09 | 6.82 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 20 | 6.76 | 0.78 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 20 | 6.76 | 0.78 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 20 | 6.76 | 0.78 | 6.32 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 6.75 | 0.36 | 6.88 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 20 | 6.75 | 0.57 | 6.72 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 20 | 6.75 | 0.57 | 6.72 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 20 | 6.75 | 0.57 | 6.72 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 20 | 6.75 | 0.48 | 6.9 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 20 | 6.74 | 0.46 | 6.84 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 20 | 6.74 | 0.46 | 6.84 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 20 | 6.74 | 0.46 | 6.84 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 6.74 | 0.79 | 6.7 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 6.74 | 0.71 | 6.63 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 20 | 6.73 | 0.5 | 6.8 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 20 | 6.73 | 1.43 | 6.84 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 6.73 | 1.19 | 6.42 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 6.73 | 1.19 | 6.42 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 6.73 | 1.19 | 6.42 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 6.72 | 0.62 | 6.72 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 20 | 6.72 | 1.01 | 6.72 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 20 | 6.72 | 1.01 | 6.72 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 20 | 6.72 | 1.01 | 6.72 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 20 | 6.72 | 1.01 | 6.72 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 20 | 6.71 | 0.63 | 6.74 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 20 | 6.71 | 0.63 | 6.74 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 6.7 | 1.91 | 6.63 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 6.7 | 0.32 | 6.8 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 20 | 6.68 | 1.33 | 6.54 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 20 | 6.68 | 0.49 | 6.8 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 20 | 6.68 | 0.49 | 6.8 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 20 | 6.68 | 0.49 | 6.8 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 6.68 | 1.73 | 6.34 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 20 | 6.68 | 1.65 | 6.51 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 20 | 6.68 | 1.65 | 6.51 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 20 | 6.67 | 0.57 | 6.84 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 20 | 6.67 | 0.57 | 6.84 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 20 | 6.67 | 0.57 | 6.84 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 20 | 6.67 | 0.55 | 6.9 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 20 | 6.67 | 0.92 | 6.73 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 20 | 6.67 | 0.92 | 6.73 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 20 | 6.67 | 0.92 | 6.73 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 20 | 6.66 | 0.75 | 6.6 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 20 | 6.66 | 1.36 | 6.98 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 20 | 6.66 | 1.36 | 6.98 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 20 | 6.65 | 1.01 | 6.53 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 20 | 6.65 | 1.01 | 6.53 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 20 | 6.65 | 1.01 | 6.53 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 20 | 6.65 | 1.06 | 6.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 20 | 6.65 | 1.06 | 6.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 20 | 6.65 | 1.06 | 6.22 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 20 | 6.64 | 0.56 | 6.7 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 20 | 6.64 | 0.56 | 6.7 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 20 | 6.64 | 0.56 | 6.7 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 20 | 6.64 | 1.53 | 6.5 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 20 | 6.64 | 1.53 | 6.5 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 20 | 6.64 | 1.53 | 6.5 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 20 | 6.64 | 1.53 | 6.5 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 20 | 6.64 | 1.49 | 6.34 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 20 | 6.64 | 1.49 | 6.34 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 20 | 6.64 | 1.49 | 6.34 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 20 | 6.64 | 1.49 | 6.34 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 20 | 6.64 | 1.49 | 6.34 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 20 | 6.64 | 1.49 | 6.34 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 6.64 | 1.19 | 6.34 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 6.64 | 1.19 | 6.34 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 6.64 | 1.19 | 6.34 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 6.64 | 1.19 | 6.34 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 6.63 | 1.61 | 6.35 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 20 | 6.63 | 1.11 | 6.64 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 20 | 6.63 | 1.11 | 6.64 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 20 | 6.63 | 1.11 | 6.64 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 20 | 6.63 | 1.19 | 6.46 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 20 | 6.63 | 1.19 | 6.46 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 20 | 6.63 | 1.19 | 6.46 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 20 | 6.63 | 1.19 | 6.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 20 | 6.63 | 0.56 | 6.8 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 20 | 6.63 | 0.56 | 6.8 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 20 | 6.63 | 0.56 | 6.8 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 6.62 | 1.12 | 6.2 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 6.62 | 1.12 | 6.2 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 6.62 | 1.12 | 6.2 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 20 | 6.62 | 0.48 | 6.57 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 20 | 6.62 | 0.48 | 6.57 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 20 | 6.62 | 0.48 | 6.57 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 20 | 6.62 | 0.25 | 6.65 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 20 | 6.61 | 1.43 | 6.02 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 20 | 6.61 | 1.43 | 6.02 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 20 | 6.61 | 0.35 | 6.66 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 20 | 6.61 | 0.35 | 6.66 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 20 | 6.61 | 0.35 | 6.66 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 20 | 6.61 | 0.59 | 6.66 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 20 | 6.61 | 0.59 | 6.66 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 20 | 6.6 | 0.57 | 6.5 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 20 | 6.6 | 0.57 | 6.5 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 20 | 6.6 | 0.57 | 6.5 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 6.6 | 0.76 | 6.72 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 6.6 | 0.76 | 6.72 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 6.6 | 0.76 | 6.72 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 6.6 | 0.76 | 6.72 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 20 | 6.6 | 1.02 | 6.64 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 20 | 6.6 | 1.02 | 6.64 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 20 | 6.59 | 0.46 | 6.48 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 20 | 6.59 | 0.46 | 6.48 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 20 | 6.59 | 0.46 | 6.48 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 20 | 6.58 | 0.52 | 6.54 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 20 | 6.58 | 0.52 | 6.54 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 20 | 6.58 | 0.52 | 6.54 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 6.58 | 0.56 | 6.59 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 6.58 | 0.56 | 6.59 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 6.58 | 0.56 | 6.59 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 6.58 | 0.56 | 6.59 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 20 | 6.57 | 0.41 | 6.68 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 20 | 6.57 | 0.41 | 6.68 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 20 | 6.56 | 0.85 | 6.64 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 20 | 6.56 | 0.85 | 6.64 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 6.56 | 1.14 | 6.35 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 20 | 6.56 | 0.69 | 6.53 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 20 | 6.56 | 0.69 | 6.53 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 20 | 6.56 | 0.69 | 6.53 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 20 | 6.56 | 0.7 | 6.4 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 20 | 6.56 | 0.7 | 6.4 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 20 | 6.56 | 0.7 | 6.4 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 20 | 6.56 | 0.96 | 6.54 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 20 | 6.56 | 0.96 | 6.54 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 20 | 6.56 | 0.96 | 6.54 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 20 | 6.54 | 0.76 | 6.44 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 20 | 6.54 | 0.76 | 6.44 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 20 | 6.54 | 0.76 | 6.44 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 20 | 6.54 | 1.27 | 6.03 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 20 | 6.54 | 1.27 | 6.03 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 6.54 | 0.57 | 6.5 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 6.54 | 0.57 | 6.5 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 6.54 | 0.57 | 6.5 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 6.54 | 1.53 | 5.96 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 20 | 6.54 | 1.39 | 5.88 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 20 | 6.54 | 1.39 | 5.88 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 20 | 6.54 | 1.39 | 5.88 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 20 | 6.54 | 1.39 | 5.88 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 20 | 6.54 | 1.39 | 5.88 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 20 | 6.54 | 1.39 | 5.88 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 6.53 | 1.09 | 6.51 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 6.53 | 1.09 | 6.51 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 6.53 | 1.09 | 6.51 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 20 | 6.53 | 1.31 | 5.96 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 20 | 6.53 | 1.31 | 5.96 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 20 | 6.53 | 0.46 | 6.44 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 20 | 6.53 | 0.46 | 6.44 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 20 | 6.53 | 0.46 | 6.44 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 20 | 6.53 | 0.46 | 6.44 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 20 | 6.53 | 0.46 | 6.44 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 20 | 6.53 | 0.46 | 6.44 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 20 | 6.53 | 1.58 | 6.34 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 20 | 6.53 | 1.58 | 6.34 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 20 | 6.53 | 1.58 | 6.34 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 20 | 6.53 | 1.36 | 6.55 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 20 | 6.53 | 1.36 | 6.55 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 20 | 6.53 | 1.36 | 6.55 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 20 | 6.53 | 1.36 | 6.55 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 6.53 | 0.95 | 6.58 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 20 | 6.53 | 0.72 | 6.69 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 20 | 6.53 | 0.72 | 6.69 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 20 | 6.53 | 0.72 | 6.69 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 20 | 6.53 | 0.61 | 6.46 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 20 | 6.53 | 0.61 | 6.46 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 20 | 6.53 | 0.61 | 6.46 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 20 | 6.52 | 3.62 | 6.84 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 20 | 6.52 | 0.7 | 6.52 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 20 | 6.52 | 0.7 | 6.52 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 20 | 6.52 | 1.48 | 6.01 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 20 | 6.52 | 1.48 | 6.01 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 20 | 6.52 | 1.48 | 6.01 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 20 | 6.52 | 0.7 | 6.52 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 20 | 6.52 | 0.7 | 6.52 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 6.52 | 1.18 | 6.58 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 6.52 | 1.18 | 6.58 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 20 | 6.52 | 0.94 | 6.52 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 20 | 6.52 | 0.94 | 6.52 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 20 | 6.52 | 0.94 | 6.52 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 20 | 6.52 | 0.94 | 6.52 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 20 | 6.52 | 0.94 | 6.52 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 20 | 6.52 | 0.94 | 6.52 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 20 | 6.52 | 1.33 | 6.58 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 20 | 6.52 | 1.33 | 6.58 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 20 | 6.52 | 1.33 | 6.58 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 6.52 | 0.91 | 6.68 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 6.52 | 0.91 | 6.68 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 6.52 | 0.91 | 6.68 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 6.52 | 0.91 | 6.68 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 20 | 6.52 | 0.75 | 6.39 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 6.51 | 1.36 | 6.66 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 6.51 | 0.67 | 6.52 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 20 | 6.51 | 1.06 | 6.78 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 20 | 6.51 | 0.36 | 6.49 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 20 | 6.5 | 0.92 | 6.34 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 6.5 | 0.92 | 6.34 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 20 | 6.5 | 0.59 | 6.46 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 20 | 6.5 | 0.92 | 6.34 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 6.5 | 0.92 | 6.34 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 6.5 | 1.05 | 6.3 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 20 | 6.5 | 0.81 | 6.6 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 20 | 6.5 | 0.81 | 6.6 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 20 | 6.49 | 0.57 | 6.63 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 20 | 6.49 | 0.57 | 6.63 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 20 | 6.49 | 1.43 | 6.05 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 20 | 6.49 | 1.43 | 6.05 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 20 | 6.48 | 1.16 | 6.0 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 6.48 | 0.67 | 6.57 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 6.48 | 0.67 | 6.57 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 6.48 | 0.67 | 6.57 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 20 | 6.48 | 0.43 | 6.5 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 20 | 6.48 | 0.43 | 6.5 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 20 | 6.48 | 0.43 | 6.5 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 20 | 6.48 | 0.96 | 6.56 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 20 | 6.48 | 0.96 | 6.56 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 20 | 6.48 | 2.96 | 6.45 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 6.47 | 1.51 | 6.62 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 20 | 6.46 | 0.98 | 6.54 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 20 | 6.46 | 0.98 | 6.54 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 20 | 6.46 | 0.98 | 6.54 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 20 | 6.45 | 1.39 | 6.09 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 20 | 6.45 | 1.39 | 6.09 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 20 | 6.45 | 0.62 | 6.54 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 20 | 6.45 | 1.9 | 5.82 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 20 | 6.45 | 1.9 | 5.82 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 6.44 | 1.49 | 5.56 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 6.44 | 1.49 | 5.56 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 6.44 | 1.49 | 5.56 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 6.44 | 1.49 | 5.56 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 20 | 6.44 | 1.23 | 6.62 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 20 | 6.44 | 1.23 | 6.62 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 20 | 6.44 | 1.23 | 6.62 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 20 | 6.44 | 1.23 | 6.62 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 20 | 6.44 | 1.23 | 6.62 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 20 | 6.44 | 1.23 | 6.62 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 20 | 6.44 | 0.69 | 6.39 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 20 | 6.44 | 0.69 | 6.39 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 20 | 6.44 | 0.69 | 6.39 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 20 | 6.44 | 0.69 | 6.39 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 20 | 6.44 | 0.69 | 6.39 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 20 | 6.44 | 0.69 | 6.39 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 20 | 6.43 | 1.57 | 6.12 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 20 | 6.43 | 1.57 | 6.12 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 6.43 | 1.92 | 5.92 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 20 | 6.43 | 0.4 | 6.48 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 20 | 6.42 | 0.41 | 6.5 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 20 | 6.42 | 0.41 | 6.5 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 20 | 6.42 | 0.9 | 5.96 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 20 | 6.42 | 0.9 | 5.96 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 20 | 6.42 | 0.45 | 6.46 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 20 | 6.41 | 0.98 | 6.34 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 20 | 6.41 | 0.98 | 6.34 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 20 | 6.41 | 2.06 | 5.04 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 20 | 6.41 | 2.06 | 5.04 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 20 | 6.41 | 2.06 | 5.04 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 6.41 | 1.79 | 6.46 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 6.4 | 1.07 | 6.16 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 6.4 | 1.07 | 6.16 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 6.4 | 1.07 | 6.16 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 20 | 6.4 | 0.72 | 6.58 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 20 | 6.4 | 0.72 | 6.58 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 20 | 6.4 | 0.72 | 6.58 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 20 | 6.4 | 0.98 | 6.24 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 6.4 | 0.5 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 6.4 | 0.5 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 6.4 | 0.5 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 6.4 | 0.5 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 6.4 | 0.5 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 6.4 | 0.5 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 6.4 | 0.5 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 6.4 | 0.5 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 6.4 | 0.5 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 6.4 | 0.5 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 6.4 | 0.5 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 6.4 | 0.5 | 6.26 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 20 | 6.39 | 0.45 | 6.45 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 20 | 6.39 | 0.45 | 6.45 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 20 | 6.38 | 1.72 | 5.73 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 20 | 6.38 | 1.72 | 5.73 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 20 | 6.38 | 0.95 | 6.44 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 20 | 6.38 | 0.95 | 6.44 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 20 | 6.38 | 0.95 | 6.44 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 20 | 6.38 | 0.95 | 6.44 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 20 | 6.38 | 0.95 | 6.44 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 20 | 6.38 | 0.95 | 6.44 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 20 | 6.38 | 0.95 | 6.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 20 | 6.38 | 0.95 | 6.44 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 20 | 6.38 | 0.95 | 6.44 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 20 | 6.38 | 0.95 | 6.44 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 20 | 6.38 | 0.95 | 6.44 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 20 | 6.38 | 0.95 | 6.44 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 6.38 | 0.38 | 6.53 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 6.38 | 1.34 | 6.5 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 20 | 6.37 | 2.18 | 6.85 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 20 | 6.37 | 0.46 | 6.24 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 20 | 6.36 | 1.04 | 6.35 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 20 | 6.36 | 1.53 | 5.96 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 6.35 | 0.69 | 6.27 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 6.35 | 0.69 | 6.27 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 6.35 | 0.69 | 6.27 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 6.34 | 0.67 | 6.24 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 20 | 6.34 | 0.88 | 6.44 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 6.34 | 1.86 | 6.06 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 6.34 | 1.86 | 6.06 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 6.34 | 1.86 | 6.06 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 6.34 | 1.86 | 6.06 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 20 | 6.34 | 1.51 | 6.22 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 20 | 6.34 | 1.51 | 6.22 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 20 | 6.34 | 1.51 | 6.22 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 20 | 6.34 | 1.51 | 6.22 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 20 | 6.34 | 1.51 | 6.22 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 20 | 6.34 | 1.51 | 6.22 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 20 | 6.34 | 1.51 | 6.22 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 20 | 6.34 | 1.51 | 6.22 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 20 | 6.34 | 1.51 | 6.22 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 20 | 6.34 | 1.51 | 6.22 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 20 | 6.34 | 1.51 | 6.22 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 20 | 6.34 | 1.51 | 6.22 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 20 | 6.33 | 0.73 | 6.24 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 20 | 6.33 | 0.73 | 6.24 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 20 | 6.33 | 0.61 | 6.14 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 20 | 6.32 | 0.97 | 6.3 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 20 | 6.32 | 1.17 | 6.02 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 20 | 6.32 | 1.17 | 6.02 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 20 | 6.32 | 1.17 | 6.02 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 20 | 6.32 | 0.76 | 6.27 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 20 | 6.32 | 0.76 | 6.27 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 20 | 6.32 | 0.75 | 6.28 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 20 | 6.32 | 0.75 | 6.28 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 20 | 6.32 | 0.75 | 6.28 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 20 | 6.31 | 0.32 | 6.26 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 20 | 6.31 | 0.32 | 6.26 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 20 | 6.31 | 0.32 | 6.26 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 20 | 6.3 | 1.84 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 20 | 6.3 | 1.84 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 20 | 6.3 | 1.84 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 20 | 6.3 | 1.84 | 5.94 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 6.3 | 1.25 | 6.54 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 6.3 | 1.59 | 6.26 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 6.3 | 1.59 | 6.26 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 6.3 | 1.59 | 6.26 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 20 | 6.3 | 0.78 | 6.1 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 20 | 6.3 | 0.78 | 6.1 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 20 | 6.3 | 0.78 | 6.1 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 20 | 6.29 | 1.21 | 5.92 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 20 | 6.28 | 0.89 | 6.38 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 20 | 6.28 | 0.89 | 6.38 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 20 | 6.28 | 0.89 | 6.22 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 20 | 6.28 | 0.89 | 6.22 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 20 | 6.28 | 0.89 | 6.22 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 20 | 6.28 | 0.89 | 6.22 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 20 | 6.28 | 1.17 | 6.3 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 20 | 6.28 | 0.97 | 6.16 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 6.28 | 0.97 | 6.16 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 20 | 6.28 | 0.97 | 6.16 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 6.28 | 0.97 | 6.16 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 20 | 6.27 | 1.34 | 6.16 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 20 | 6.27 | 1.34 | 6.16 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 6.27 | 0.88 | 6.24 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 6.27 | 0.88 | 6.24 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 6.27 | 0.88 | 6.24 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 20 | 6.26 | 3.12 | 5.93 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 20 | 6.26 | 3.12 | 5.93 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 20 | 6.26 | 0.66 | 6.22 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 20 | 6.26 | 0.66 | 6.22 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 20 | 6.26 | 0.66 | 6.22 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 20 | 6.26 | 1.31 | 5.7 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 20 | 6.26 | 1.31 | 5.7 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 20 | 6.25 | 1.22 | 6.27 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 20 | 6.25 | 0.13 | 6.28 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 20 | 6.25 | 0.15 | 6.25 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 20 | 6.25 | 0.15 | 6.25 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 20 | 6.24 | 0.9 | 6.24 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 20 | 6.24 | 0.9 | 6.24 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 20 | 6.24 | 0.9 | 6.24 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 20 | 6.24 | 0.9 | 6.24 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 20 | 6.24 | 0.9 | 6.24 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 20 | 6.24 | 0.9 | 6.24 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 6.24 | 1.59 | 5.86 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 6.24 | 1.59 | 5.86 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 6.24 | 1.59 | 5.86 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 6.24 | 1.59 | 5.86 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 20 | 6.24 | 0.51 | 6.17 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 20 | 6.24 | 0.51 | 6.17 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 20 | 6.24 | 0.69 | 6.5 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 20 | 6.24 | 0.68 | 6.15 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 20 | 6.24 | 0.68 | 6.15 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 20 | 6.24 | 0.68 | 6.15 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 20 | 6.24 | 0.74 | 5.98 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 20 | 6.24 | 0.74 | 5.98 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 20 | 6.23 | 1.36 | 5.9 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 20 | 6.23 | 1.36 | 5.9 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 20 | 6.23 | 0.57 | 6.14 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 20 | 6.23 | 0.57 | 6.14 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 20 | 6.23 | 0.67 | 6.22 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 20 | 6.23 | 0.67 | 6.22 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 20 | 6.23 | 0.67 | 6.22 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 6.23 | 1.48 | 5.94 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 6.23 | 1.48 | 5.94 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 6.23 | 1.48 | 5.94 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 6.23 | 1.48 | 5.94 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 6.22 | 0.76 | 6.3 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 20 | 6.22 | 1.3 | 5.91 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 20 | 6.21 | 0.7 | 6.2 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 20 | 6.21 | 0.7 | 6.2 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 20 | 6.21 | 0.7 | 6.26 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 20 | 6.21 | 0.7 | 6.26 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 20 | 6.21 | 0.7 | 6.26 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 20 | 6.21 | 0.7 | 6.26 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 6.2 | 0.86 | 6.1 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 6.2 | 0.86 | 6.1 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 6.2 | 0.86 | 6.1 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 6.2 | 0.86 | 6.1 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 20 | 6.2 | 0.61 | 5.99 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 20 | 6.2 | 0.61 | 5.99 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 20 | 6.2 | 0.61 | 5.99 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 6.2 | 1.04 | 6.26 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 20 | 6.2 | 0.9 | 6.04 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 20 | 6.2 | 0.9 | 6.04 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 20 | 6.2 | 0.9 | 6.04 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 6.2 | 1.03 | 6.15 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 20 | 6.2 | 0.75 | 5.99 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 20 | 6.2 | 0.75 | 5.99 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 20 | 6.2 | 0.75 | 5.99 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 6.2 | 2.58 | 4.97 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 6.2 | 2.58 | 4.97 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 6.2 | 2.58 | 4.97 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 6.2 | 2.58 | 4.97 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 20 | 6.19 | 0.84 | 6.31 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 20 | 6.19 | 0.84 | 6.31 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 20 | 6.19 | 0.84 | 6.31 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 20 | 6.19 | 0.84 | 6.31 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 6.19 | 0.91 | 5.84 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 6.19 | 0.91 | 5.84 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 6.19 | 0.48 | 6.42 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 20 | 6.18 | 0.77 | 6.22 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 20 | 6.18 | 0.77 | 6.22 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 20 | 6.18 | 0.77 | 6.22 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 20 | 6.18 | 0.77 | 6.22 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 20 | 6.18 | 0.77 | 6.22 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 20 | 6.18 | 0.77 | 6.22 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 20 | 6.18 | 0.77 | 6.22 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 20 | 6.18 | 0.77 | 6.22 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 20 | 6.18 | 0.77 | 6.22 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 6.18 | 0.76 | 5.96 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 6.18 | 0.76 | 5.96 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 6.18 | 0.76 | 5.96 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 6.18 | 0.76 | 5.96 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 20 | 6.18 | 1.4 | 5.52 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 20 | 6.18 | 2.03 | 5.18 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 20 | 6.17 | 0.68 | 6.31 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 20 | 6.17 | 0.68 | 6.31 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 20 | 6.17 | 0.98 | 6.59 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 20 | 6.17 | 1.38 | 5.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 20 | 6.17 | 1.38 | 5.62 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 20 | 6.17 | 1.38 | 5.62 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 20 | 6.17 | 3.11 | 6.52 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 20 | 6.17 | 3.11 | 6.52 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 20 | 6.17 | 3.11 | 6.52 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 20 | 6.17 | 3.11 | 6.52 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 20 | 6.17 | 3.11 | 6.52 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 20 | 6.17 | 3.11 | 6.52 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 20 | 6.16 | 1.29 | 5.99 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 20 | 6.16 | 1.29 | 5.99 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 20 | 6.16 | 1.29 | 5.99 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 20 | 6.16 | 0.94 | 6.16 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 20 | 6.16 | 0.94 | 6.16 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 20 | 6.16 | 0.94 | 6.16 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 6.16 | 1.74 | 5.84 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 20 | 6.16 | 1.74 | 5.84 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 6.16 | 1.74 | 5.84 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 20 | 6.16 | 1.74 | 5.84 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 20 | 6.16 | 0.79 | 6.27 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 20 | 6.16 | 1.34 | 5.95 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 20 | 6.16 | 1.34 | 5.95 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 20 | 6.16 | 1.34 | 5.95 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 20 | 6.16 | 1.34 | 5.95 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 20 | 6.15 | 3.14 | 5.56 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 20 | 6.15 | 3.14 | 5.56 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 20 | 6.15 | 3.14 | 5.56 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 20 | 6.15 | 3.14 | 5.56 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 20 | 6.15 | 3.14 | 5.56 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 20 | 6.15 | 3.14 | 5.56 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 20 | 6.15 | 0.74 | 6.27 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 20 | 6.15 | 0.74 | 6.27 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 20 | 6.15 | 0.74 | 6.27 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 6.15 | 0.82 | 6.26 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 20 | 6.15 | 0.26 | 6.14 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 20 | 6.15 | 0.26 | 6.14 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 20 | 6.15 | 4.22 | 3.96 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 20 | 6.15 | 4.22 | 3.96 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 20 | 6.15 | 1.72 | 5.3 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 20 | 6.15 | 1.72 | 5.3 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 20 | 6.14 | 0.46 | 6.15 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 20 | 6.14 | 0.96 | 6.14 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 20 | 6.14 | 0.96 | 6.14 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 20 | 6.14 | 0.96 | 6.14 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 20 | 6.14 | 0.96 | 6.14 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 20 | 6.14 | 1.37 | 5.86 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 20 | 6.14 | 1.37 | 5.86 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 20 | 6.14 | 1.37 | 5.86 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 20 | 6.14 | 1.37 | 5.86 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 20 | 6.14 | 1.37 | 5.86 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 20 | 6.14 | 1.37 | 5.86 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 20 | 6.14 | 1.37 | 5.86 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 20 | 6.14 | 1.37 | 5.86 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 20 | 6.14 | 1.37 | 5.86 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 20 | 6.14 | 1.37 | 5.86 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 20 | 6.14 | 1.37 | 5.86 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 20 | 6.14 | 1.37 | 5.86 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 20 | 6.14 | 1.18 | 5.82 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 20 | 6.13 | 1.36 | 5.4 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 20 | 6.13 | 1.36 | 5.4 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 20 | 6.13 | 1.36 | 5.4 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 20 | 6.13 | 1.36 | 5.4 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 6.13 | 0.63 | 6.18 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 6.13 | 0.63 | 6.18 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 6.13 | 0.63 | 6.18 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 6.13 | 0.63 | 6.18 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 6.13 | 0.63 | 6.18 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 6.13 | 0.63 | 6.18 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 6.13 | 0.63 | 6.18 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 6.13 | 0.63 | 6.18 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 6.13 | 0.63 | 6.18 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 6.13 | 0.63 | 6.18 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 6.13 | 0.63 | 6.18 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 6.13 | 0.63 | 6.18 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 20 | 6.13 | 0.15 | 6.12 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 6.12 | 1.7 | 5.64 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 6.12 | 1.7 | 5.64 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 6.12 | 1.7 | 5.64 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 6.12 | 1.7 | 5.64 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 6.12 | 1.7 | 5.64 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 6.12 | 1.7 | 5.64 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 6.12 | 1.7 | 5.64 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 6.12 | 1.7 | 5.64 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 20 | 6.12 | 0.54 | 6.1 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 20 | 6.12 | 0.54 | 6.1 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 20 | 6.12 | 0.54 | 6.1 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 6.12 | 0.64 | 6.09 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 6.12 | 0.64 | 6.09 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 6.12 | 0.64 | 6.09 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 6.12 | 0.64 | 6.09 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 20 | 6.12 | 1.36 | 5.44 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 20 | 6.12 | 1.04 | 5.86 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 20 | 6.12 | 1.11 | 6.14 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 20 | 6.12 | 1.11 | 6.14 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 20 | 6.12 | 1.11 | 6.14 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 20 | 6.12 | 1.02 | 5.6 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 20 | 6.11 | 0.69 | 5.92 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 20 | 6.11 | 0.69 | 5.92 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 20 | 6.11 | 0.69 | 5.92 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 20 | 6.11 | 0.89 | 6.12 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 20 | 6.11 | 0.89 | 6.12 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 20 | 6.11 | 2.23 | 5.24 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 20 | 6.11 | 2.23 | 5.24 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 20 | 6.1 | 0.9 | 6.25 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 20 | 6.1 | 0.9 | 6.25 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 20 | 6.1 | 0.9 | 6.25 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 20 | 6.1 | 0.9 | 6.25 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 20 | 6.1 | 0.9 | 6.25 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 20 | 6.1 | 0.9 | 6.25 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 20 | 6.1 | 0.9 | 6.25 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 20 | 6.1 | 0.9 | 6.25 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 20 | 6.1 | 0.9 | 6.25 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 20 | 6.1 | 0.9 | 6.25 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 20 | 6.1 | 0.9 | 6.25 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 20 | 6.1 | 0.9 | 6.25 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 20 | 6.1 | 0.78 | 6.0 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 20 | 6.1 | 0.78 | 6.0 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 6.1 | 1.39 | 6.35 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 6.1 | 1.39 | 6.35 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 6.1 | 1.39 | 6.35 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 6.1 | 1.11 | 6.21 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 20 | 6.09 | 1.68 | 6.6 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 20 | 6.09 | 1.09 | 5.82 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 20 | 6.09 | 1.73 | 5.14 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 20 | 6.08 | 0.57 | 6.02 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 20 | 6.08 | 0.57 | 6.02 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 20 | 6.08 | 0.57 | 6.02 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 6.08 | 1.25 | 6.04 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 6.08 | 0.52 | 5.87 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 20 | 6.08 | 0.52 | 5.87 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 20 | 6.08 | 0.94 | 5.71 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 20 | 6.07 | 1.13 | 6.0 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 20 | 6.07 | 1.13 | 6.0 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 20 | 6.07 | 1.13 | 6.0 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 20 | 6.07 | 1.13 | 6.0 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 6.07 | 1.5 | 5.78 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 6.07 | 1.5 | 5.78 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 6.07 | 1.5 | 5.78 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 6.07 | 1.5 | 5.78 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 6.07 | 1.5 | 5.78 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 6.07 | 1.5 | 5.78 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 6.07 | 1.5 | 5.78 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 6.07 | 1.5 | 5.78 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 20 | 6.07 | 0.98 | 6.2 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 20 | 6.07 | 0.98 | 6.2 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 20 | 6.06 | 0.51 | 6.06 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 20 | 6.06 | 1.18 | 5.93 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 20 | 6.06 | 1.18 | 5.93 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 20 | 6.06 | 1.18 | 5.93 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 20 | 6.06 | 0.43 | 6.06 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 20 | 6.06 | 0.43 | 6.06 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 20 | 6.06 | 1.13 | 6.13 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 20 | 6.06 | 1.13 | 6.13 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 20 | 6.06 | 1.13 | 6.13 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 20 | 6.06 | 1.13 | 6.13 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 20 | 6.06 | 1.13 | 6.13 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 20 | 6.06 | 1.13 | 6.13 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 6.06 | 1.12 | 5.9 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 6.06 | 1.12 | 5.9 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 20 | 6.06 | 0.87 | 6.01 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 20 | 6.06 | 0.4 | 5.98 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 20 | 6.06 | 0.4 | 5.98 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 20 | 6.06 | 0.4 | 5.98 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 20 | 6.05 | 1.46 | 6.7 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 20 | 6.05 | 1.46 | 6.7 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 20 | 6.05 | 1.76 | 6.73 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 6.05 | 1.25 | 5.46 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 6.05 | 1.25 | 5.46 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 6.05 | 1.25 | 5.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 20 | 6.04 | 1.14 | 5.56 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 20 | 6.04 | 1.14 | 5.56 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 20 | 6.04 | 1.14 | 5.56 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 20 | 6.04 | 1.97 | 6.3 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 6.04 | 1.05 | 5.66 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 6.04 | 1.05 | 5.66 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 6.04 | 1.05 | 5.66 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 20 | 6.04 | 0.55 | 5.94 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 20 | 6.03 | 1.04 | 5.6 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 20 | 6.03 | 1.04 | 5.6 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 20 | 6.03 | 1.04 | 5.6 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 6.03 | 1.68 | 6.18 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 6.03 | 1.68 | 6.18 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 20 | 6.03 | 0.46 | 6.02 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 20 | 6.03 | 0.49 | 5.98 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 20 | 6.03 | 0.49 | 5.98 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 20 | 6.03 | 0.49 | 5.98 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 20 | 6.03 | 0.49 | 5.98 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 20 | 6.03 | 0.49 | 5.98 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 20 | 6.03 | 0.49 | 5.98 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 20 | 6.02 | 2.64 | 4.97 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 20 | 6.02 | 2.64 | 4.97 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 20 | 6.02 | 0.6 | 6.1 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 20 | 6.02 | 0.6 | 6.1 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 20 | 6.02 | 0.79 | 6.08 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 20 | 6.02 | 0.79 | 6.08 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 20 | 6.02 | 0.79 | 6.08 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 20 | 6.02 | 0.79 | 5.8 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 20 | 6.02 | 0.79 | 5.8 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 20 | 6.02 | 0.79 | 5.8 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 20 | 6.02 | 0.79 | 5.8 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 20 | 6.02 | 0.79 | 5.8 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 20 | 6.02 | 0.79 | 5.8 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 6.02 | 0.38 | 5.96 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 20 | 6.02 | 0.48 | 6.1 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 20 | 6.01 | 1.0 | 5.65 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 20 | 6.01 | 1.0 | 5.65 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 20 | 6.01 | 1.0 | 5.65 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 20 | 6.01 | 0.74 | 6.09 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 20 | 6.0 | 0.44 | 5.98 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 20 | 6.0 | 0.44 | 5.98 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 20 | 6.0 | 0.44 | 5.98 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 20 | 6.0 | 1.6 | 6.06 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 20 | 6.0 | 0.68 | 6.24 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 20 | 6.0 | 0.68 | 6.24 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 20 | 6.0 | 0.68 | 6.24 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 20 | 6.0 | 0.43 | 5.82 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 20 | 6.0 | 0.43 | 5.82 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 20 | 6.0 | 0.43 | 5.82 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 20 | 5.99 | 0.7 | 5.6 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 5.99 | 1.26 | 5.84 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 20 | 5.99 | 1.39 | 5.9 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 20 | 5.98 | 0.61 | 5.96 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 20 | 5.98 | 0.72 | 5.88 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 20 | 5.98 | 0.72 | 5.88 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 20 | 5.98 | 0.72 | 5.88 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 20 | 5.98 | 0.72 | 5.88 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 5.98 | 0.75 | 6.02 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 5.98 | 0.75 | 6.02 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 5.98 | 0.75 | 6.02 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 20 | 5.98 | 0.79 | 5.8 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 20 | 5.98 | 0.79 | 5.8 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 20 | 5.98 | 0.79 | 5.8 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 20 | 5.98 | 1.54 | 5.7 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 20 | 5.98 | 1.54 | 5.7 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 20 | 5.98 | 0.97 | 5.86 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 20 | 5.98 | 0.97 | 5.86 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 5.97 | 0.82 | 5.68 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 20 | 5.97 | 0.15 | 6.0 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 20 | 5.97 | 0.15 | 6.0 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 20 | 5.97 | 0.15 | 6.0 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 20 | 5.97 | 0.64 | 5.91 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 20 | 5.97 | 0.58 | 6.0 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 20 | 5.97 | 0.58 | 6.0 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 20 | 5.97 | 1.76 | 5.18 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 20 | 5.97 | 1.76 | 5.18 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 20 | 5.97 | 0.56 | 6.06 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 20 | 5.97 | 0.53 | 5.97 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 20 | 5.96 | 0.57 | 5.93 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 20 | 5.96 | 0.57 | 5.93 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 20 | 5.96 | 0.57 | 5.93 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 20 | 5.96 | 0.57 | 5.93 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 20 | 5.96 | 0.57 | 5.93 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 20 | 5.96 | 0.57 | 5.93 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 20 | 5.96 | 1.03 | 6.02 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 20 | 5.96 | 1.03 | 6.02 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 20 | 5.96 | 1.03 | 6.02 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 20 | 5.96 | 1.03 | 6.02 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 20 | 5.96 | 1.03 | 6.02 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 20 | 5.96 | 1.03 | 6.02 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 20 | 5.96 | 0.41 | 5.94 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 20 | 5.96 | 0.41 | 5.94 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 20 | 5.96 | 0.41 | 5.94 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 20 | 5.96 | 1.52 | 5.28 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 20 | 5.96 | 1.52 | 5.28 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 20 | 5.96 | 1.37 | 6.21 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 20 | 5.96 | 1.37 | 6.21 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 20 | 5.96 | 1.37 | 6.21 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 5.95 | 0.85 | 5.98 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 5.95 | 0.85 | 5.98 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 5.95 | 0.85 | 5.98 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 5.95 | 0.85 | 5.98 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 5.95 | 0.85 | 5.98 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 5.95 | 0.85 | 5.98 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 5.95 | 0.85 | 5.98 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 5.95 | 0.85 | 5.98 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 5.95 | 0.85 | 5.98 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 5.95 | 0.85 | 5.98 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 5.95 | 0.85 | 5.98 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 5.95 | 0.85 | 5.98 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 20 | 5.95 | 1.08 | 5.77 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 20 | 5.95 | 1.08 | 5.77 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 20 | 5.95 | 1.08 | 5.77 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 20 | 5.95 | 1.08 | 5.77 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 20 | 5.95 | 1.08 | 5.77 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 20 | 5.95 | 1.08 | 5.77 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 20 | 5.95 | 0.35 | 5.97 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 20 | 5.95 | 0.35 | 5.97 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 20 | 5.95 | 0.35 | 5.97 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 20 | 5.95 | 0.35 | 5.97 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 20 | 5.95 | 0.35 | 5.97 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 20 | 5.95 | 0.35 | 5.97 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 20 | 5.95 | 1.42 | 5.66 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 20 | 5.95 | 1.42 | 5.66 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 20 | 5.95 | 0.87 | 5.67 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 20 | 5.94 | 0.93 | 5.55 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 20 | 5.94 | 0.64 | 5.92 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 20 | 5.94 | 0.64 | 5.92 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 20 | 5.94 | 1.39 | 5.96 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 20 | 5.94 | 1.39 | 5.96 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 20 | 5.94 | 0.98 | 5.84 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 20 | 5.94 | 0.98 | 5.84 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 5.93 | 0.48 | 5.96 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 5.93 | 0.48 | 5.96 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 5.93 | 0.48 | 5.96 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 5.93 | 0.48 | 5.96 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 20 | 5.93 | 1.12 | 5.76 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 20 | 5.93 | 1.12 | 5.76 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 5.93 | 0.97 | 6.06 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 5.93 | 0.97 | 6.06 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 5.93 | 0.97 | 6.06 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 20 | 5.93 | 0.92 | 6.06 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 20 | 5.93 | 0.92 | 6.06 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 20 | 5.93 | 0.92 | 6.06 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 20 | 5.93 | 0.92 | 6.06 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 20 | 5.93 | 0.92 | 6.06 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 20 | 5.93 | 0.92 | 6.06 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 20 | 5.92 | 1.34 | 6.02 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 20 | 5.92 | 1.1 | 6.0 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 20 | 5.92 | 1.1 | 6.0 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 20 | 5.92 | 1.1 | 6.0 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 20 | 5.92 | 1.1 | 6.0 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 20 | 5.92 | 1.1 | 6.0 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 20 | 5.92 | 1.1 | 6.0 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 20 | 5.92 | 0.68 | 5.94 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 20 | 5.92 | 0.68 | 5.94 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 20 | 5.92 | 1.06 | 6.3 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 5.91 | 0.76 | 5.96 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 5.91 | 0.76 | 5.96 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 5.91 | 0.76 | 5.96 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 5.91 | 0.76 | 5.96 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 5.91 | 1.1 | 5.48 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 5.91 | 1.1 | 5.48 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 5.91 | 1.1 | 5.48 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 5.91 | 1.1 | 5.48 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 20 | 5.91 | 0.73 | 5.78 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 20 | 5.91 | 0.73 | 5.78 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 20 | 5.91 | 0.73 | 5.78 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 20 | 5.91 | 1.2 | 5.56 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 20 | 5.91 | 1.2 | 5.56 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 20 | 5.9 | 0.48 | 5.88 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 20 | 5.89 | 0.61 | 5.88 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 20 | 5.89 | 1.47 | 5.88 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 20 | 5.89 | 1.47 | 5.88 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 5.89 | 0.81 | 5.97 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 5.88 | 0.32 | 5.86 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 20 | 5.88 | 1.04 | 5.48 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 20 | 5.88 | 0.68 | 5.74 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 20 | 5.88 | 0.68 | 5.74 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 20 | 5.88 | 1.19 | 5.21 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 20 | 5.88 | 1.19 | 5.21 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 20 | 5.88 | 0.83 | 5.82 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 20 | 5.88 | 0.83 | 5.82 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 20 | 5.88 | 0.83 | 5.82 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 20 | 5.88 | 0.83 | 5.82 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 20 | 5.88 | 0.83 | 5.82 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 20 | 5.88 | 0.83 | 5.82 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 20 | 5.88 | 1.45 | 5.38 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 20 | 5.88 | 1.45 | 5.38 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 20 | 5.88 | 1.45 | 5.38 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 5.87 | 1.83 | 5.86 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 5.87 | 1.83 | 5.86 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 5.87 | 1.83 | 5.86 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 5.87 | 1.83 | 5.86 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 5.87 | 1.83 | 5.86 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 5.87 | 1.83 | 5.86 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 20 | 5.87 | 0.65 | 5.88 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 20 | 5.87 | 0.65 | 5.88 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 20 | 5.87 | 0.65 | 5.88 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 20 | 5.87 | 1.13 | 5.2 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 20 | 5.87 | 1.13 | 5.2 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 20 | 5.87 | 0.14 | 5.86 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 20 | 5.87 | 0.14 | 5.86 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 5.87 | 1.01 | 5.86 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 5.87 | 1.01 | 5.86 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 5.87 | 1.01 | 5.86 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 20 | 5.87 | 0.84 | 5.79 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 5.87 | 0.39 | 5.86 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 5.87 | 0.39 | 5.86 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 5.87 | 0.39 | 5.86 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 5.87 | 0.39 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 20 | 5.86 | 0.18 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 20 | 5.86 | 0.18 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 20 | 5.86 | 0.18 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 20 | 5.86 | 0.18 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 20 | 5.86 | 0.18 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 20 | 5.86 | 0.18 | 5.86 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 20 | 5.86 | 0.65 | 5.83 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 20 | 5.86 | 0.65 | 5.83 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 20 | 5.86 | 0.65 | 5.83 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 20 | 5.86 | 0.46 | 5.7 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 20 | 5.86 | 0.46 | 5.7 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 20 | 5.86 | 0.46 | 5.7 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 20 | 5.86 | 1.48 | 5.19 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 20 | 5.86 | 1.07 | 5.44 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 20 | 5.86 | 1.07 | 5.44 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 20 | 5.86 | 1.07 | 5.44 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 20 | 5.86 | 0.83 | 5.72 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 20 | 5.85 | 1.32 | 5.2 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 20 | 5.85 | 1.32 | 5.2 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 20 | 5.85 | 1.32 | 5.2 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 20 | 5.85 | 1.32 | 5.2 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 20 | 5.85 | 1.32 | 5.2 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 20 | 5.85 | 1.32 | 5.2 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 20 | 5.85 | 0.66 | 6.03 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 20 | 5.85 | 0.66 | 6.03 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 20 | 5.85 | 0.66 | 6.03 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 5.85 | 1.51 | 5.75 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 20 | 5.85 | 3.04 | 5.87 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 20 | 5.85 | 3.04 | 5.87 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 20 | 5.85 | 0.69 | 6.04 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 20 | 5.85 | 0.69 | 6.04 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 5.85 | 0.8 | 5.65 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 5.84 | 1.42 | 5.7 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 5.84 | 1.42 | 5.7 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 20 | 5.84 | 0.97 | 5.6 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 20 | 5.84 | 0.97 | 5.6 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 5.84 | 0.91 | 6.44 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 20 | 5.84 | 0.86 | 5.68 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 5.84 | 0.74 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 5.84 | 0.74 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 5.84 | 0.74 | 5.9 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 5.84 | 0.74 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 5.84 | 0.74 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 5.84 | 0.74 | 5.9 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 20 | 5.83 | 0.49 | 5.73 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 20 | 5.83 | 1.34 | 5.79 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 20 | 5.83 | 1.34 | 5.79 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 20 | 5.83 | 1.34 | 5.79 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 20 | 5.83 | 0.7 | 5.76 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 20 | 5.83 | 0.7 | 5.76 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 20 | 5.83 | 0.7 | 5.76 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 20 | 5.83 | 0.7 | 5.76 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 20 | 5.83 | 0.7 | 5.76 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 20 | 5.83 | 0.7 | 5.76 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 20 | 5.83 | 0.97 | 5.58 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 5.83 | 0.33 | 5.96 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 5.83 | 0.33 | 5.96 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 5.83 | 0.33 | 5.96 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 5.83 | 0.33 | 5.96 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 5.83 | 0.89 | 5.65 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 20 | 5.83 | 1.43 | 5.08 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 5.83 | 1.2 | 5.64 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 5.82 | 1.0 | 5.32 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 5.82 | 1.0 | 5.32 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 20 | 5.82 | 0.86 | 6.04 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 20 | 5.82 | 0.86 | 6.04 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 5.82 | 0.31 | 5.84 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 20 | 5.82 | 0.63 | 5.86 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 20 | 5.82 | 0.8 | 5.9 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 20 | 5.82 | 0.8 | 5.9 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 5.82 | 0.59 | 5.72 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 20 | 5.81 | 0.66 | 5.79 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 20 | 5.81 | 0.66 | 5.79 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 20 | 5.81 | 0.66 | 5.79 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 20 | 5.81 | 0.87 | 5.46 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 20 | 5.81 | 0.87 | 5.46 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 20 | 5.81 | 0.87 | 5.46 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 5.81 | 0.34 | 5.7 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 5.81 | 0.34 | 5.7 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 5.81 | 0.34 | 5.7 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 5.81 | 0.34 | 5.7 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 5.81 | 0.34 | 5.7 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 5.81 | 0.34 | 5.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 5.81 | 0.71 | 5.92 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 5.81 | 0.71 | 5.92 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 5.81 | 0.71 | 5.92 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 20 | 5.81 | 0.8 | 5.92 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 20 | 5.81 | 0.8 | 5.92 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 20 | 5.8 | 0.64 | 5.78 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 20 | 5.8 | 0.64 | 5.78 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 20 | 5.8 | 0.64 | 5.78 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 20 | 5.8 | 2.56 | 4.54 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 20 | 5.8 | 2.56 | 4.54 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 20 | 5.8 | 2.56 | 4.54 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 5.8 | 2.56 | 4.54 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 5.8 | 2.56 | 4.54 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 5.8 | 2.56 | 4.54 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 20 | 5.8 | 0.84 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 20 | 5.8 | 0.84 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 20 | 5.8 | 0.84 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 20 | 5.8 | 0.84 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 20 | 5.8 | 0.84 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 20 | 5.8 | 0.84 | 6.12 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 20 | 5.8 | 0.89 | 5.73 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 5.8 | 0.62 | 5.82 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 5.8 | 0.62 | 5.82 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 5.8 | 0.62 | 5.82 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 5.8 | 0.62 | 5.82 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 5.8 | 0.62 | 5.82 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 5.8 | 0.62 | 5.82 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 20 | 5.8 | 1.51 | 5.67 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 20 | 5.8 | 1.51 | 5.67 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 20 | 5.8 | 1.51 | 5.67 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 20 | 5.8 | 1.51 | 5.67 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 20 | 5.79 | 1.89 | 5.3 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 20 | 5.79 | 1.49 | 6.1 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 20 | 5.79 | 1.49 | 6.1 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 20 | 5.79 | 1.49 | 6.1 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 20 | 5.79 | 0.59 | 5.85 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 20 | 5.79 | 0.59 | 5.85 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 20 | 5.79 | 0.59 | 5.85 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 20 | 5.79 | 0.59 | 5.85 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 20 | 5.79 | 0.59 | 5.85 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 20 | 5.79 | 0.59 | 5.85 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 20 | 5.79 | 0.59 | 5.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 20 | 5.79 | 0.59 | 5.8 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 20 | 5.79 | 0.59 | 5.8 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 5.79 | 1.54 | 5.42 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 20 | 5.78 | 0.89 | 5.71 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 20 | 5.78 | 0.89 | 5.71 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 20 | 5.78 | 0.89 | 5.71 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 20 | 5.78 | 0.47 | 5.77 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 20 | 5.78 | 0.47 | 5.77 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 20 | 5.78 | 0.47 | 5.77 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 20 | 5.78 | 0.92 | 5.33 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 20 | 5.78 | 0.92 | 5.33 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 20 | 5.78 | 0.92 | 5.33 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 5.78 | 0.4 | 5.79 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 5.78 | 0.4 | 5.79 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 5.78 | 0.4 | 5.79 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 20 | 5.78 | 1.24 | 5.28 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 20 | 5.78 | 1.24 | 5.28 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 20 | 5.78 | 1.24 | 5.28 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 20 | 5.78 | 1.24 | 5.28 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 20 | 5.78 | 1.24 | 5.28 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 20 | 5.78 | 1.24 | 5.28 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 20 | 5.77 | 1.1 | 5.4 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 20 | 5.77 | 1.1 | 5.4 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 20 | 5.77 | 1.1 | 5.4 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 20 | 5.77 | 1.11 | 5.62 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 5.77 | 0.45 | 5.6 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 20 | 5.77 | 0.45 | 5.6 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 20 | 5.77 | 0.45 | 5.6 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 20 | 5.77 | 0.45 | 5.6 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 5.77 | 0.64 | 5.77 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 20 | 5.77 | 1.05 | 5.84 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 5.77 | 0.87 | 6.06 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 20 | 5.77 | 0.86 | 5.88 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 20 | 5.76 | 0.91 | 5.54 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 20 | 5.76 | 0.91 | 5.54 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 20 | 5.76 | 0.91 | 5.54 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 20 | 5.76 | 0.62 | 5.75 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 20 | 5.76 | 0.62 | 5.75 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 20 | 5.76 | 0.62 | 5.75 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 20 | 5.76 | 1.41 | 5.68 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 20 | 5.76 | 1.41 | 5.68 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 20 | 5.76 | 1.41 | 5.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 20 | 5.76 | 1.41 | 5.68 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 20 | 5.76 | 1.41 | 5.68 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 20 | 5.76 | 1.41 | 5.68 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 20 | 5.75 | 0.24 | 5.78 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 20 | 5.75 | 0.24 | 5.78 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 20 | 5.75 | 0.74 | 5.64 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 20 | 5.75 | 0.74 | 5.64 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 20 | 5.75 | 0.79 | 5.42 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 20 | 5.74 | 0.84 | 5.85 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 20 | 5.74 | 0.84 | 5.85 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 20 | 5.74 | 0.84 | 5.85 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 20 | 5.74 | 0.89 | 5.66 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 20 | 5.74 | 0.89 | 5.66 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 20 | 5.74 | 0.89 | 5.66 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 20 | 5.74 | 0.89 | 5.66 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 20 | 5.74 | 0.89 | 5.66 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 20 | 5.74 | 0.89 | 5.66 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 20 | 5.74 | 0.89 | 5.66 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 20 | 5.74 | 0.89 | 5.66 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 20 | 5.74 | 0.89 | 5.66 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 20 | 5.74 | 0.42 | 5.89 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 20 | 5.74 | 0.42 | 5.89 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 20 | 5.74 | 0.67 | 5.92 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 20 | 5.74 | 0.67 | 5.92 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 20 | 5.74 | 0.21 | 5.8 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 20 | 5.74 | 0.59 | 5.56 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 20 | 5.74 | 0.59 | 5.56 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 20 | 5.74 | 0.59 | 5.56 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 20 | 5.74 | 0.44 | 5.92 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 20 | 5.73 | 1.06 | 5.86 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 20 | 5.73 | 1.06 | 5.86 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 5.73 | 0.35 | 5.78 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 5.73 | 0.35 | 5.78 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 5.73 | 0.35 | 5.78 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 20 | 5.73 | 0.57 | 5.59 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 20 | 5.73 | 1.08 | 6.02 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 20 | 5.73 | 1.28 | 5.03 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 20 | 5.73 | 1.28 | 5.03 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 20 | 5.73 | 1.28 | 5.03 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 20 | 5.73 | 1.43 | 5.29 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 20 | 5.73 | 1.43 | 5.29 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 20 | 5.73 | 1.43 | 5.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 20 | 5.73 | 1.28 | 5.03 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 20 | 5.73 | 1.28 | 5.03 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 20 | 5.73 | 1.28 | 5.03 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 5.73 | 0.81 | 5.59 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 5.73 | 0.81 | 5.59 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 5.73 | 0.81 | 5.59 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 5.73 | 0.81 | 5.59 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 5.73 | 1.04 | 5.76 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 5.73 | 1.04 | 5.76 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 20 | 5.72 | 0.69 | 5.83 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 20 | 5.72 | 0.69 | 5.83 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 20 | 5.72 | 0.69 | 5.83 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 20 | 5.72 | 0.69 | 5.83 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 20 | 5.72 | 0.69 | 5.83 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 20 | 5.72 | 0.69 | 5.83 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 20 | 5.72 | 0.25 | 5.78 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 20 | 5.72 | 0.25 | 5.78 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 20 | 5.72 | 1.37 | 5.8 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 20 | 5.72 | 1.37 | 5.8 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 20 | 5.72 | 1.37 | 5.8 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 20 | 5.72 | 1.37 | 5.8 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 20 | 5.71 | 1.29 | 5.53 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 20 | 5.71 | 1.29 | 5.53 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 20 | 5.71 | 0.88 | 5.68 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 20 | 5.71 | 0.88 | 5.68 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 20 | 5.71 | 0.88 | 5.68 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 5.71 | 1.03 | 5.76 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 5.71 | 1.03 | 5.76 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 20 | 5.71 | 0.46 | 5.74 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 20 | 5.71 | 0.46 | 5.74 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 20 | 5.71 | 0.85 | 5.62 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 5.7 | 1.13 | 5.28 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 5.7 | 1.13 | 5.28 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 5.7 | 0.74 | 5.76 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 5.7 | 0.74 | 5.76 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 5.7 | 0.74 | 5.76 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 5.7 | 0.74 | 5.76 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 20 | 5.7 | 1.43 | 5.5 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 5.7 | 0.57 | 5.64 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 5.7 | 0.57 | 5.64 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 5.7 | 0.57 | 5.64 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 5.7 | 0.57 | 5.64 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 5.7 | 1.02 | 5.77 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 20 | 5.7 | 0.89 | 5.62 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 20 | 5.7 | 0.89 | 5.62 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 20 | 5.7 | 0.86 | 5.44 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 20 | 5.7 | 0.86 | 5.44 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 20 | 5.7 | 0.44 | 5.77 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 20 | 5.7 | 0.44 | 5.77 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 5.7 | 0.93 | 6.18 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 20 | 5.7 | 0.37 | 5.76 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 5.7 | 0.79 | 5.62 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 5.7 | 0.79 | 5.62 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 5.7 | 0.79 | 5.62 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 5.7 | 0.79 | 5.62 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 5.7 | 0.79 | 5.62 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 5.7 | 0.79 | 5.62 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 5.7 | 0.79 | 5.62 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 5.7 | 0.79 | 5.62 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 5.7 | 0.79 | 5.62 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 5.7 | 0.79 | 5.62 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 5.7 | 0.79 | 5.62 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 5.7 | 0.79 | 5.62 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 20 | 5.69 | 0.41 | 5.74 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 20 | 5.69 | 0.41 | 5.74 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 20 | 5.69 | 0.41 | 5.74 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 5.69 | 0.53 | 5.7 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 20 | 5.69 | 0.86 | 5.44 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 20 | 5.69 | 0.87 | 5.84 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 20 | 5.69 | 0.87 | 5.84 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 20 | 5.69 | 0.93 | 5.51 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 20 | 5.69 | 0.93 | 5.51 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 20 | 5.69 | 0.93 | 5.51 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 20 | 5.69 | 0.93 | 5.51 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 20 | 5.69 | 0.93 | 5.51 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 20 | 5.69 | 0.93 | 5.51 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 20 | 5.69 | 0.48 | 5.78 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 20 | 5.69 | 0.48 | 5.78 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 20 | 5.69 | 0.48 | 5.78 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 20 | 5.69 | 0.48 | 5.78 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 20 | 5.69 | 0.48 | 5.78 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 20 | 5.69 | 0.48 | 5.78 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 20 | 5.69 | 0.94 | 5.68 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 20 | 5.69 | 0.94 | 5.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 20 | 5.69 | 0.94 | 5.68 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 5.68 | 0.99 | 5.4 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 5.68 | 0.99 | 5.4 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 5.68 | 0.55 | 5.74 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 5.68 | 1.26 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 5.68 | 1.26 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 5.68 | 1.26 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 5.68 | 1.26 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 5.68 | 1.26 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 5.68 | 1.26 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 5.68 | 1.26 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 5.68 | 1.26 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 5.68 | 1.26 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 5.68 | 1.26 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 5.68 | 1.26 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 5.68 | 1.26 | 5.48 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 20 | 5.67 | 0.27 | 5.62 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 20 | 5.67 | 0.27 | 5.62 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 20 | 5.67 | 0.39 | 5.64 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 20 | 5.67 | 0.39 | 5.64 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 20 | 5.67 | 0.39 | 5.64 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 20 | 5.67 | 0.47 | 5.66 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 20 | 5.67 | 0.47 | 5.66 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 20 | 5.67 | 1.04 | 5.23 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 5.67 | 1.04 | 5.23 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 20 | 5.67 | 1.04 | 5.23 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 5.67 | 1.04 | 5.23 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 20 | 5.67 | 0.87 | 5.7 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 20 | 5.67 | 0.87 | 5.7 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 20 | 5.67 | 0.87 | 5.7 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 20 | 5.67 | 0.87 | 5.7 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 20 | 5.67 | 0.87 | 5.7 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 20 | 5.67 | 0.87 | 5.7 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 20 | 5.67 | 0.87 | 5.7 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 20 | 5.67 | 0.87 | 5.7 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 20 | 5.67 | 0.87 | 5.7 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 20 | 5.67 | 0.18 | 5.68 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 20 | 5.67 | 0.18 | 5.68 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 20 | 5.67 | 0.92 | 5.78 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 20 | 5.67 | 0.92 | 5.78 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 20 | 5.67 | 0.92 | 5.78 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 20 | 5.67 | 0.92 | 5.78 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 20 | 5.67 | 0.92 | 5.78 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 20 | 5.67 | 0.92 | 5.78 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 20 | 5.67 | 0.92 | 5.78 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 20 | 5.67 | 0.92 | 5.78 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 20 | 5.67 | 0.92 | 5.78 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 20 | 5.67 | 0.92 | 5.78 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 20 | 5.67 | 0.92 | 5.78 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 20 | 5.67 | 0.92 | 5.78 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 20 | 5.67 | 0.51 | 5.73 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 20 | 5.67 | 0.51 | 5.73 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 20 | 5.67 | 0.51 | 5.73 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 20 | 5.67 | 0.51 | 5.73 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 20 | 5.67 | 0.51 | 5.73 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 20 | 5.67 | 0.51 | 5.73 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 20 | 5.67 | 0.24 | 5.73 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 20 | 5.67 | 0.24 | 5.73 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 20 | 5.67 | 0.24 | 5.73 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 20 | 5.67 | 0.24 | 5.73 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 20 | 5.67 | 0.24 | 5.73 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 20 | 5.67 | 0.24 | 5.73 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 5.67 | 0.61 | 5.7 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 5.66 | 1.59 | 5.73 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 5.66 | 1.59 | 5.73 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 5.66 | 1.59 | 5.73 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 20 | 5.66 | 1.11 | 5.52 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 20 | 5.66 | 1.11 | 5.52 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 20 | 5.66 | 1.62 | 5.48 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 5.66 | 1.06 | 5.54 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 5.66 | 1.06 | 5.54 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 5.65 | 0.26 | 5.66 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 20 | 5.65 | 0.88 | 5.57 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 20 | 5.65 | 0.88 | 5.57 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 5.65 | 0.42 | 5.81 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 20 | 5.65 | 1.34 | 5.78 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 20 | 5.65 | 1.34 | 5.78 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 20 | 5.65 | 1.34 | 5.78 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 20 | 5.64 | 0.4 | 5.82 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 20 | 5.64 | 0.4 | 5.82 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 20 | 5.64 | 0.19 | 5.66 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 5.64 | 0.68 | 5.7 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 20 | 5.64 | 0.19 | 5.66 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 20 | 5.64 | 0.98 | 5.07 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 20 | 5.64 | 0.98 | 5.07 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 20 | 5.64 | 0.98 | 5.07 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 20 | 5.64 | 0.98 | 5.07 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 5.64 | 2.46 | 4.64 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 20 | 5.64 | 1.17 | 5.42 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 20 | 5.64 | 1.72 | 5.32 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 20 | 5.64 | 1.72 | 5.32 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 20 | 5.63 | 0.45 | 5.7 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 20 | 5.63 | 0.45 | 5.7 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 20 | 5.63 | 0.45 | 5.7 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 20 | 5.63 | 0.74 | 5.54 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 20 | 5.63 | 0.74 | 5.54 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 20 | 5.63 | 0.74 | 5.54 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 20 | 5.63 | 0.74 | 5.54 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 5.63 | 0.85 | 5.62 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 5.63 | 0.85 | 5.62 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 5.63 | 0.85 | 5.62 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 20 | 5.62 | 0.49 | 5.66 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 20 | 5.62 | 0.49 | 5.66 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 20 | 5.62 | 1.4 | 5.35 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 20 | 5.62 | 1.4 | 5.35 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 20 | 5.62 | 1.4 | 5.35 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 20 | 5.62 | 0.45 | 5.67 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 20 | 5.62 | 0.45 | 5.67 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 20 | 5.62 | 0.45 | 5.67 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 20 | 5.62 | 0.45 | 5.67 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 20 | 5.62 | 0.45 | 5.67 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 20 | 5.62 | 0.45 | 5.67 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 5.61 | 1.89 | 4.8 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 20 | 5.61 | 0.5 | 5.51 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 20 | 5.61 | 0.68 | 5.68 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 20 | 5.61 | 0.68 | 5.68 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 20 | 5.61 | 0.68 | 5.68 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 20 | 5.61 | 0.66 | 5.59 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 20 | 5.61 | 0.66 | 5.59 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 20 | 5.61 | 0.52 | 5.6 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 20 | 5.61 | 0.52 | 5.6 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 20 | 5.61 | 0.52 | 5.6 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 20 | 5.61 | 0.52 | 5.6 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 20 | 5.61 | 0.52 | 5.6 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 20 | 5.61 | 0.52 | 5.6 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 20 | 5.61 | 0.54 | 5.59 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 20 | 5.61 | 0.54 | 5.59 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 20 | 5.61 | 1.32 | 5.19 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 20 | 5.61 | 1.32 | 5.19 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 20 | 5.61 | 1.32 | 5.19 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 20 | 5.61 | 0.82 | 5.3 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 20 | 5.61 | 0.82 | 5.3 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 20 | 5.61 | 0.82 | 5.3 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 20 | 5.61 | 0.61 | 5.56 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 20 | 5.61 | 0.61 | 5.56 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 20 | 5.61 | 0.8 | 5.6 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 20 | 5.61 | 0.8 | 5.6 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 20 | 5.6 | 1.47 | 5.76 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 20 | 5.6 | 1.47 | 5.76 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 20 | 5.6 | 1.47 | 5.76 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 20 | 5.6 | 1.18 | 5.2 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 20 | 5.6 | 1.18 | 5.2 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 20 | 5.6 | 1.18 | 5.2 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 20 | 5.6 | 1.18 | 5.2 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 20 | 5.6 | 1.18 | 5.2 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 20 | 5.6 | 1.18 | 5.2 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 20 | 5.6 | 1.18 | 5.2 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 20 | 5.6 | 1.18 | 5.2 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 20 | 5.6 | 1.18 | 5.2 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 20 | 5.6 | 1.18 | 5.2 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 20 | 5.6 | 1.18 | 5.2 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 20 | 5.6 | 1.18 | 5.2 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 20 | 5.6 | 1.18 | 5.2 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 20 | 5.6 | 1.18 | 5.2 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 20 | 5.6 | 1.18 | 5.2 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 20 | 5.6 | 1.18 | 5.2 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 20 | 5.6 | 1.18 | 5.2 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 20 | 5.6 | 1.18 | 5.2 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 20 | 5.6 | 0.41 | 5.64 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 20 | 5.6 | 0.41 | 5.64 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 20 | 5.6 | 0.74 | 5.5 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 20 | 5.6 | 0.74 | 5.5 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 20 | 5.6 | 0.74 | 5.5 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 20 | 5.6 | 0.74 | 5.5 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 20 | 5.59 | 1.17 | 5.28 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 5.59 | 1.07 | 5.46 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 20 | 5.59 | 0.95 | 5.9 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 20 | 5.59 | 0.95 | 5.9 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 20 | 5.59 | 0.95 | 5.9 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 20 | 5.59 | 0.95 | 5.9 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 20 | 5.59 | 0.28 | 5.56 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 20 | 5.59 | 0.59 | 5.58 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 20 | 5.59 | 0.59 | 5.58 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 5.59 | 1.22 | 5.92 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 20 | 5.59 | 0.36 | 5.56 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 20 | 5.58 | 0.56 | 5.56 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 20 | 5.58 | 0.56 | 5.56 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 20 | 5.58 | 0.56 | 5.56 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 20 | 5.58 | 0.56 | 5.56 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 20 | 5.58 | 0.56 | 5.56 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 20 | 5.58 | 0.56 | 5.56 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 20 | 5.58 | 0.45 | 5.57 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 20 | 5.58 | 1.15 | 5.24 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 20 | 5.58 | 1.15 | 5.24 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 5.58 | 1.15 | 5.56 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 5.58 | 1.15 | 5.56 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 5.58 | 1.15 | 5.56 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 20 | 5.58 | 1.01 | 5.7 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 20 | 5.58 | 1.23 | 5.6 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 5.58 | 0.59 | 5.62 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 5.58 | 0.59 | 5.62 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 5.58 | 0.59 | 5.62 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 5.58 | 0.99 | 5.58 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 20 | 5.58 | 0.51 | 5.68 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 20 | 5.58 | 0.51 | 5.68 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 20 | 5.58 | 0.51 | 5.68 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 20 | 5.57 | 1.31 | 6.12 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 20 | 5.57 | 1.31 | 6.12 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 20 | 5.57 | 1.28 | 5.25 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 20 | 5.57 | 1.28 | 5.25 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 20 | 5.57 | 1.28 | 5.25 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 20 | 5.57 | 1.28 | 5.25 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 20 | 5.57 | 1.28 | 5.25 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 20 | 5.57 | 1.28 | 5.25 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 20 | 5.57 | 1.03 | 5.7 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 20 | 5.57 | 1.03 | 5.7 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 20 | 5.57 | 1.03 | 5.7 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 20 | 5.57 | 1.03 | 5.7 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 20 | 5.57 | 1.03 | 5.7 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 20 | 5.57 | 1.03 | 5.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 20 | 5.57 | 1.27 | 5.71 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 20 | 5.57 | 1.27 | 5.71 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 20 | 5.57 | 0.68 | 5.25 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 20 | 5.57 | 0.68 | 5.25 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 20 | 5.56 | 0.57 | 5.54 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 20 | 5.56 | 0.57 | 5.54 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 20 | 5.56 | 0.57 | 5.54 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 20 | 5.56 | 0.72 | 5.71 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 20 | 5.56 | 0.72 | 5.71 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 20 | 5.56 | 0.78 | 5.35 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 20 | 5.56 | 0.78 | 5.35 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 5.56 | 1.31 | 5.72 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 20 | 5.55 | 1.41 | 5.14 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 20 | 5.55 | 1.41 | 5.14 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 20 | 5.55 | 1.12 | 5.76 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 20 | 5.55 | 1.12 | 5.76 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 20 | 5.55 | 1.12 | 5.76 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 20 | 5.55 | 1.12 | 5.76 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 20 | 5.55 | 1.12 | 5.76 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 20 | 5.55 | 1.12 | 5.76 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 5.55 | 0.68 | 5.6 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 5.55 | 1.04 | 5.6 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 20 | 5.55 | 1.0 | 5.5 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 5.55 | 0.72 | 5.4 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 5.55 | 0.72 | 5.4 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 5.55 | 0.72 | 5.4 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 20 | 5.54 | 0.51 | 5.39 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 20 | 5.54 | 0.51 | 5.39 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 20 | 5.54 | 0.51 | 5.39 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 20 | 5.54 | 0.51 | 5.46 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 20 | 5.54 | 0.51 | 5.46 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 20 | 5.54 | 0.37 | 5.54 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 20 | 5.54 | 0.37 | 5.54 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 20 | 5.54 | 0.37 | 5.54 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 20 | 5.54 | 0.78 | 5.32 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 20 | 5.54 | 0.78 | 5.32 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 20 | 5.54 | 0.41 | 5.54 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 20 | 5.54 | 0.41 | 5.54 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 20 | 5.53 | 0.49 | 5.46 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 20 | 5.53 | 0.49 | 5.46 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 20 | 5.53 | 1.3 | 6.0 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 20 | 5.53 | 1.3 | 6.0 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 20 | 5.53 | 1.3 | 6.0 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 20 | 5.53 | 1.3 | 6.0 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 20 | 5.53 | 0.46 | 5.4 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 20 | 5.53 | 0.46 | 5.4 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 20 | 5.53 | 0.31 | 5.52 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 20 | 5.53 | 0.31 | 5.52 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 20 | 5.53 | 0.31 | 5.52 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 20 | 5.53 | 0.31 | 5.52 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 20 | 5.53 | 0.31 | 5.52 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 20 | 5.53 | 0.31 | 5.52 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 20 | 5.53 | 0.74 | 5.64 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 20 | 5.53 | 0.74 | 5.64 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 20 | 5.53 | 1.16 | 5.28 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 5.53 | 1.16 | 5.28 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 20 | 5.53 | 1.16 | 5.28 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 5.53 | 1.16 | 5.28 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 5.52 | 0.88 | 5.42 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 5.52 | 1.61 | 5.06 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 20 | 5.52 | 0.8 | 5.39 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 20 | 5.52 | 0.8 | 5.39 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 20 | 5.52 | 0.6 | 5.52 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 20 | 5.52 | 0.6 | 5.52 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 5.52 | 0.98 | 5.19 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 5.52 | 0.98 | 5.19 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 5.52 | 0.98 | 5.19 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 5.52 | 0.41 | 5.62 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 5.52 | 0.41 | 5.62 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 5.52 | 0.41 | 5.62 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 20 | 5.51 | 1.19 | 5.44 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 20 | 5.51 | 1.19 | 5.44 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 20 | 5.51 | 1.03 | 5.66 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 20 | 5.51 | 1.03 | 5.66 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 20 | 5.51 | 1.03 | 5.66 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 20 | 5.51 | 0.42 | 5.48 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 20 | 5.51 | 1.12 | 5.32 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 20 | 5.51 | 0.7 | 5.24 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 20 | 5.51 | 0.7 | 5.24 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 20 | 5.51 | 1.51 | 4.72 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 20 | 5.51 | 1.51 | 4.72 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 20 | 5.51 | 1.51 | 4.72 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 20 | 5.51 | 1.51 | 4.72 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 20 | 5.51 | 1.51 | 4.72 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 20 | 5.51 | 1.51 | 4.72 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 5.51 | 0.47 | 5.42 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 20 | 5.51 | 1.59 | 5.68 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 20 | 5.51 | 0.35 | 5.64 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 20 | 5.51 | 0.35 | 5.64 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 20 | 5.51 | 0.35 | 5.64 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 20 | 5.51 | 0.35 | 5.64 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 20 | 5.51 | 0.35 | 5.64 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 20 | 5.51 | 0.35 | 5.64 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 20 | 5.5 | 0.91 | 5.42 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 5.5 | 1.36 | 5.54 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 20 | 5.5 | 0.73 | 5.51 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 20 | 5.5 | 0.73 | 5.51 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 20 | 5.5 | 1.65 | 5.76 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 5.49 | 0.86 | 5.3 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 5.49 | 0.86 | 5.3 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 5.49 | 0.86 | 5.3 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 20 | 5.49 | 0.42 | 5.39 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 20 | 5.49 | 0.42 | 5.39 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 20 | 5.49 | 0.62 | 5.6 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 20 | 5.49 | 0.62 | 5.6 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 20 | 5.49 | 0.62 | 5.6 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 5.49 | 0.86 | 5.38 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 20 | 5.49 | 1.18 | 5.76 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 20 | 5.49 | 1.18 | 5.76 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 20 | 5.49 | 1.18 | 5.76 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 20 | 5.49 | 0.4 | 5.56 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 5.48 | 0.72 | 5.44 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 5.48 | 0.72 | 5.44 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 5.48 | 0.72 | 5.44 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 5.48 | 0.72 | 5.44 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 5.48 | 0.72 | 5.44 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 5.48 | 0.72 | 5.44 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 5.48 | 0.72 | 5.44 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 5.48 | 0.72 | 5.44 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 5.48 | 0.72 | 5.44 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 5.48 | 0.72 | 5.44 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 5.48 | 0.72 | 5.44 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 5.48 | 0.72 | 5.44 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 5.48 | 0.76 | 5.7 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 5.48 | 1.14 | 5.7 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 20 | 5.48 | 0.61 | 5.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 20 | 5.48 | 1.27 | 4.97 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 5.48 | 1.27 | 4.97 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 5.48 | 1.27 | 4.97 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 5.48 | 1.27 | 4.97 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 20 | 5.48 | 1.27 | 4.97 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 5.48 | 1.27 | 4.97 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 5.48 | 1.27 | 4.97 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 5.48 | 1.27 | 4.97 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 5.47 | 1.63 | 5.22 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 5.47 | 1.67 | 5.07 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 5.47 | 0.26 | 5.41 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 20 | 5.47 | 0.37 | 5.56 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 20 | 5.47 | 0.54 | 5.22 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 20 | 5.47 | 0.54 | 5.22 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 20 | 5.46 | 0.71 | 5.15 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 20 | 5.46 | 0.68 | 5.2 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 20 | 5.46 | 0.63 | 5.52 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 20 | 5.46 | 0.63 | 5.52 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 5.46 | 0.65 | 5.46 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 5.46 | 0.65 | 5.46 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 20 | 5.46 | 1.06 | 5.0 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 20 | 5.46 | 1.06 | 5.0 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 20 | 5.46 | 1.06 | 5.0 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 5.46 | 1.01 | 5.06 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 5.46 | 1.01 | 5.06 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 5.46 | 1.01 | 5.06 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 5.46 | 1.01 | 5.06 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 20 | 5.46 | 0.44 | 5.36 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 20 | 5.46 | 0.44 | 5.36 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 5.46 | 1.01 | 5.06 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 5.46 | 1.01 | 5.06 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 5.46 | 1.01 | 5.06 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 5.46 | 1.01 | 5.06 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 5.46 | 1.0 | 5.36 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 5.46 | 1.0 | 5.36 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 20 | 5.46 | 0.55 | 5.48 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 20 | 5.46 | 0.61 | 5.5 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 20 | 5.46 | 0.61 | 5.5 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 20 | 5.45 | 0.91 | 5.36 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 20 | 5.45 | 0.91 | 5.36 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 20 | 5.45 | 0.66 | 5.46 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 20 | 5.45 | 0.66 | 5.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 20 | 5.45 | 1.06 | 5.42 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 20 | 5.45 | 1.06 | 5.42 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 20 | 5.45 | 1.06 | 5.42 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 20 | 5.45 | 0.59 | 5.36 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 20 | 5.45 | 0.59 | 5.36 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 20 | 5.45 | 2.16 | 4.39 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 20 | 5.45 | 2.16 | 4.39 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 20 | 5.44 | 0.75 | 5.56 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 20 | 5.44 | 0.75 | 5.56 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 20 | 5.44 | 0.75 | 5.56 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 20 | 5.44 | 0.75 | 5.56 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 20 | 5.44 | 0.75 | 5.56 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 20 | 5.44 | 0.75 | 5.56 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 20 | 5.44 | 0.51 | 5.35 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 20 | 5.43 | 0.91 | 5.65 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 20 | 5.43 | 0.59 | 5.35 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 20 | 5.43 | 0.59 | 5.35 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 20 | 5.43 | 0.59 | 5.35 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 20 | 5.43 | 1.53 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 20 | 5.43 | 1.53 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 20 | 5.43 | 1.53 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 20 | 5.43 | 1.53 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 20 | 5.43 | 1.53 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 20 | 5.43 | 1.53 | 4.94 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 20 | 5.43 | 1.52 | 5.41 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 20 | 5.43 | 1.52 | 5.41 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 20 | 5.43 | 1.52 | 5.41 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 20 | 5.43 | 1.52 | 5.41 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 20 | 5.43 | 1.03 | 5.12 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 20 | 5.43 | 1.03 | 5.12 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 20 | 5.43 | 1.03 | 5.12 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 20 | 5.43 | 1.03 | 5.12 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 20 | 5.43 | 1.03 | 5.12 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 20 | 5.43 | 1.03 | 5.12 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 20 | 5.42 | 0.21 | 5.41 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 20 | 5.42 | 0.21 | 5.41 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 20 | 5.42 | 1.01 | 5.22 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 5.42 | 1.0 | 5.28 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 5.42 | 1.0 | 5.41 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 5.42 | 1.0 | 5.41 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 5.42 | 1.0 | 5.41 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 5.42 | 0.81 | 5.58 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 5.42 | 0.81 | 5.58 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 20 | 5.42 | 0.68 | 5.22 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 20 | 5.42 | 0.54 | 5.46 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 20 | 5.42 | 0.54 | 5.46 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 20 | 5.42 | 0.54 | 5.46 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 20 | 5.42 | 0.54 | 5.46 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 20 | 5.42 | 0.54 | 5.46 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 20 | 5.42 | 0.54 | 5.46 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 20 | 5.42 | 1.37 | 5.46 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 20 | 5.42 | 1.37 | 5.46 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 20 | 5.42 | 1.02 | 5.56 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 20 | 5.42 | 1.02 | 5.56 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 20 | 5.42 | 2.41 | 4.1 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 20 | 5.41 | 0.29 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 20 | 5.41 | 0.29 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 20 | 5.41 | 0.29 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 20 | 5.41 | 0.29 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 20 | 5.41 | 0.29 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 20 | 5.41 | 0.29 | 5.42 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 5.41 | 0.85 | 5.52 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 5.41 | 0.85 | 5.52 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 20 | 5.41 | 1.19 | 5.08 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 5.41 | 0.95 | 5.72 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 20 | 5.41 | 0.95 | 5.72 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 5.41 | 0.95 | 5.72 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 20 | 5.41 | 0.95 | 5.72 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 5.41 | 1.04 | 5.24 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 5.41 | 1.04 | 5.24 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 5.41 | 1.04 | 5.24 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 20 | 5.41 | 0.62 | 5.59 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 20 | 5.41 | 0.62 | 5.59 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 5.41 | 0.28 | 5.4 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 5.41 | 0.28 | 5.4 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 5.41 | 0.28 | 5.4 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 5.41 | 0.28 | 5.4 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 20 | 5.4 | 1.15 | 4.85 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 20 | 5.4 | 1.15 | 4.85 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 20 | 5.4 | 1.15 | 4.85 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 20 | 5.4 | 1.15 | 4.85 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 20 | 5.4 | 1.15 | 4.85 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 20 | 5.4 | 1.15 | 4.85 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 5.4 | 0.84 | 4.94 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 5.4 | 0.84 | 4.94 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 5.4 | 0.84 | 4.94 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 20 | 5.4 | 1.03 | 5.23 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 20 | 5.4 | 0.79 | 5.48 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 20 | 5.4 | 0.79 | 5.48 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 20 | 5.4 | 0.79 | 5.48 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 20 | 5.4 | 0.79 | 5.48 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 20 | 5.4 | 0.79 | 5.48 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 20 | 5.4 | 0.79 | 5.48 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 20 | 5.4 | 0.61 | 5.35 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 20 | 5.4 | 0.9 | 4.92 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 20 | 5.4 | 0.9 | 4.92 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 5.4 | 1.19 | 5.1 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 5.4 | 1.19 | 5.1 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 20 | 5.39 | 0.22 | 5.38 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 20 | 5.39 | 1.24 | 6.24 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 20 | 5.39 | 0.55 | 5.37 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 20 | 5.39 | 1.76 | 5.04 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 20 | 5.39 | 1.76 | 5.04 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 20 | 5.39 | 0.5 | 5.29 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 20 | 5.39 | 1.53 | 4.5 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 20 | 5.39 | 0.5 | 5.29 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 20 | 5.38 | 0.75 | 5.4 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 20 | 5.38 | 0.66 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 20 | 5.38 | 0.66 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 20 | 5.38 | 0.66 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 20 | 5.38 | 0.66 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 20 | 5.38 | 0.66 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 20 | 5.38 | 0.66 | 5.26 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 5.38 | 1.4 | 5.68 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 20 | 5.38 | 1.54 | 5.22 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 20 | 5.38 | 1.54 | 5.22 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 20 | 5.38 | 1.54 | 5.22 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 20 | 5.38 | 1.54 | 5.22 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 20 | 5.38 | 0.61 | 5.52 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 20 | 5.38 | 0.61 | 5.52 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 20 | 5.38 | 0.35 | 5.46 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 5.38 | 0.71 | 5.41 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 5.38 | 1.26 | 5.1 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 5.38 | 1.26 | 5.1 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 5.38 | 1.26 | 5.1 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 20 | 5.37 | 0.91 | 5.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 20 | 5.37 | 0.91 | 5.3 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 20 | 5.37 | 0.91 | 5.3 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 20 | 5.37 | 0.91 | 5.3 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 20 | 5.37 | 0.91 | 5.3 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 20 | 5.37 | 0.91 | 5.3 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 20 | 5.37 | 1.24 | 4.76 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 20 | 5.37 | 1.24 | 4.76 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 20 | 5.37 | 0.56 | 5.36 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 20 | 5.37 | 0.56 | 5.36 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 20 | 5.37 | 0.56 | 5.36 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 20 | 5.37 | 0.91 | 5.08 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 5.37 | 0.91 | 5.08 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 20 | 5.37 | 0.91 | 5.08 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 5.37 | 0.91 | 5.08 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 5.37 | 0.82 | 5.52 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 5.37 | 0.83 | 5.16 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 5.37 | 0.83 | 5.16 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 5.37 | 0.83 | 5.16 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 5.37 | 0.83 | 5.16 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 5.37 | 0.83 | 5.16 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 5.37 | 0.83 | 5.16 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 20 | 5.37 | 1.13 | 5.03 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 5.37 | 1.41 | 5.46 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 20 | 5.37 | 0.52 | 5.4 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 20 | 5.36 | 0.6 | 5.38 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 20 | 5.36 | 0.6 | 5.38 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 20 | 5.36 | 0.6 | 5.38 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 20 | 5.36 | 0.6 | 5.38 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 20 | 5.36 | 2.29 | 3.92 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 20 | 5.36 | 2.29 | 3.92 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 20 | 5.36 | 0.59 | 5.32 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 20 | 5.36 | 0.59 | 5.32 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 20 | 5.36 | 0.59 | 5.32 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 5.36 | 1.13 | 5.36 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 20 | 5.36 | 0.56 | 5.19 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 5.36 | 0.48 | 5.28 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 20 | 5.36 | 0.75 | 5.3 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 20 | 5.36 | 0.75 | 5.3 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 20 | 5.36 | 0.75 | 5.3 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 20 | 5.36 | 0.75 | 5.3 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 20 | 5.36 | 0.75 | 5.3 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 20 | 5.36 | 0.75 | 5.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 20 | 5.36 | 0.44 | 5.2 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 20 | 5.36 | 0.44 | 5.2 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 20 | 5.36 | 0.44 | 5.2 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 20 | 5.36 | 0.44 | 5.2 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 20 | 5.36 | 0.44 | 5.2 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 20 | 5.36 | 0.44 | 5.2 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 5.35 | 1.22 | 5.23 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 5.35 | 1.22 | 5.23 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 5.35 | 1.22 | 5.23 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 20 | 5.35 | 1.23 | 5.14 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 20 | 5.35 | 1.23 | 5.14 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 20 | 5.35 | 0.88 | 5.32 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 20 | 5.35 | 0.88 | 5.32 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 20 | 5.35 | 0.88 | 5.32 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 20 | 5.35 | 0.88 | 5.32 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 20 | 5.35 | 0.88 | 5.32 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 20 | 5.35 | 0.88 | 5.32 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 20 | 5.35 | 0.82 | 5.32 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 20 | 5.35 | 0.82 | 5.32 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 20 | 5.35 | 0.85 | 5.52 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 20 | 5.35 | 0.85 | 5.52 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 20 | 5.35 | 0.85 | 5.52 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 20 | 5.35 | 0.85 | 5.52 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 20 | 5.35 | 0.85 | 5.52 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 20 | 5.35 | 0.85 | 5.52 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 20 | 5.35 | 0.78 | 5.35 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 20 | 5.35 | 0.78 | 5.35 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 20 | 5.35 | 0.99 | 5.02 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 20 | 5.35 | 0.99 | 5.02 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 20 | 5.34 | 0.33 | 5.32 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 20 | 5.34 | 0.26 | 5.38 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 20 | 5.34 | 0.53 | 5.22 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 20 | 5.34 | 0.53 | 5.22 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 20 | 5.34 | 0.53 | 5.22 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 20 | 5.34 | 0.53 | 5.22 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 20 | 5.34 | 0.53 | 5.22 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 20 | 5.34 | 0.53 | 5.22 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 20 | 5.34 | 0.53 | 5.22 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 20 | 5.34 | 0.53 | 5.22 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 20 | 5.34 | 0.53 | 5.22 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 5.34 | 0.64 | 5.46 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 20 | 5.34 | 0.36 | 5.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 20 | 5.34 | 1.3 | 5.29 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 20 | 5.34 | 1.3 | 5.29 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 20 | 5.34 | 1.3 | 5.29 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 20 | 5.34 | 0.78 | 5.18 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 20 | 5.34 | 0.78 | 5.18 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 20 | 5.34 | 0.78 | 5.18 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 5.34 | 1.08 | 5.4 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 5.34 | 1.08 | 5.4 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 20 | 5.34 | 0.73 | 5.11 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 20 | 5.34 | 0.73 | 5.11 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 20 | 5.34 | 1.51 | 4.74 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 20 | 5.34 | 1.51 | 4.74 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 20 | 5.34 | 1.51 | 4.74 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 20 | 5.34 | 1.51 | 4.74 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 20 | 5.34 | 1.89 | 4.64 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 20 | 5.34 | 1.89 | 4.64 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 20 | 5.34 | 0.67 | 5.38 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 20 | 5.34 | 0.67 | 5.38 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 20 | 5.34 | 0.98 | 5.06 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 20 | 5.33 | 0.96 | 5.0 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 20 | 5.33 | 0.96 | 5.0 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 20 | 5.33 | 0.96 | 5.0 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 20 | 5.33 | 0.82 | 5.1 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 20 | 5.33 | 0.82 | 5.1 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 20 | 5.33 | 0.82 | 5.1 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 5.33 | 0.82 | 4.89 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 5.33 | 0.82 | 4.89 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 5.33 | 0.82 | 4.89 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 20 | 5.33 | 0.82 | 5.1 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 20 | 5.33 | 0.82 | 5.1 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 20 | 5.33 | 0.82 | 5.1 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 20 | 5.33 | 2.07 | 5.61 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 20 | 5.33 | 2.07 | 5.61 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 20 | 5.33 | 2.07 | 5.61 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 20 | 5.33 | 2.07 | 5.61 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 20 | 5.33 | 2.07 | 5.61 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 20 | 5.33 | 2.07 | 5.61 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 20 | 5.33 | 0.85 | 5.3 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 5.33 | 0.85 | 5.3 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 20 | 5.33 | 0.85 | 5.3 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 5.33 | 0.85 | 5.3 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 5.33 | 1.25 | 5.57 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 20 | 5.32 | 0.94 | 4.93 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 20 | 5.32 | 1.05 | 5.28 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 20 | 5.32 | 1.05 | 5.28 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 20 | 5.32 | 0.77 | 5.4 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 20 | 5.32 | 0.77 | 5.4 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 20 | 5.32 | 1.03 | 5.02 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 20 | 5.32 | 1.03 | 5.02 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 20 | 5.32 | 1.03 | 5.02 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 20 | 5.32 | 1.03 | 5.02 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 20 | 5.32 | 0.64 | 5.28 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 20 | 5.31 | 0.68 | 5.66 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 20 | 5.31 | 0.08 | 5.3 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 20 | 5.31 | 0.94 | 5.38 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 20 | 5.31 | 0.94 | 5.38 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 20 | 5.31 | 0.42 | 5.26 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 20 | 5.31 | 0.42 | 5.26 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 20 | 5.31 | 0.42 | 5.26 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 20 | 5.31 | 0.42 | 5.26 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 20 | 5.31 | 0.42 | 5.26 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 20 | 5.31 | 0.42 | 5.26 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 5.31 | 1.5 | 5.02 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 5.31 | 1.5 | 5.02 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 5.31 | 1.5 | 5.02 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 5.31 | 1.5 | 5.02 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 5.31 | 0.89 | 5.53 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 5.31 | 0.89 | 5.53 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 5.31 | 0.89 | 5.53 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 5.31 | 1.33 | 5.28 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 20 | 5.31 | 0.7 | 4.97 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 20 | 5.31 | 1.32 | 4.84 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 20 | 5.31 | 1.32 | 4.84 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 5.31 | 3.17 | 3.9 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 20 | 5.31 | 0.96 | 5.34 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 5.3 | 0.73 | 5.23 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 5.3 | 0.73 | 5.23 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 5.3 | 0.73 | 5.23 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 20 | 5.3 | 1.06 | 5.42 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 20 | 5.3 | 1.06 | 5.42 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 20 | 5.3 | 1.06 | 5.42 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 20 | 5.3 | 0.62 | 5.31 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 20 | 5.3 | 0.62 | 5.31 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 20 | 5.3 | 0.62 | 5.31 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 20 | 5.3 | 0.46 | 5.26 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 20 | 5.3 | 0.46 | 5.26 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 20 | 5.3 | 0.46 | 5.26 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 20 | 5.3 | 0.46 | 5.26 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 20 | 5.3 | 0.6 | 5.2 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 20 | 5.3 | 0.75 | 5.38 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 5.3 | 1.03 | 5.49 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 20 | 5.3 | 0.49 | 5.17 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 20 | 5.3 | 0.49 | 5.17 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 20 | 5.3 | 0.75 | 5.44 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 20 | 5.3 | 0.75 | 5.44 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 20 | 5.3 | 0.75 | 5.44 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 20 | 5.3 | 1.42 | 4.73 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 20 | 5.3 | 1.42 | 4.73 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 20 | 5.29 | 1.42 | 5.09 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 20 | 5.29 | 1.42 | 5.09 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 20 | 5.29 | 1.42 | 5.09 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 20 | 5.29 | 1.42 | 5.09 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 20 | 5.29 | 1.42 | 5.09 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 20 | 5.29 | 1.42 | 5.09 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 20 | 5.29 | 1.42 | 5.09 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 20 | 5.29 | 1.42 | 5.09 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 20 | 5.29 | 1.42 | 5.09 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 20 | 5.29 | 0.76 | 5.07 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 20 | 5.29 | 0.76 | 5.07 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 20 | 5.29 | 0.96 | 5.07 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 20 | 5.29 | 1.14 | 5.58 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 20 | 5.29 | 1.14 | 5.58 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 20 | 5.29 | 1.14 | 5.58 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 20 | 5.29 | 1.14 | 5.58 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 20 | 5.29 | 0.77 | 5.44 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 20 | 5.29 | 0.77 | 5.44 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 20 | 5.29 | 0.77 | 5.44 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 20 | 5.29 | 0.17 | 5.31 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 5.29 | 0.87 | 5.26 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 5.29 | 0.99 | 5.24 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 5.29 | 0.99 | 5.24 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 5.29 | 0.99 | 5.24 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 20 | 5.29 | 0.51 | 5.35 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 20 | 5.28 | 0.82 | 5.64 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 20 | 5.28 | 0.82 | 5.64 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 20 | 5.28 | 1.13 | 4.97 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 20 | 5.28 | 1.13 | 4.97 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 20 | 5.28 | 0.33 | 5.26 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 5.28 | 0.72 | 4.89 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 20 | 5.28 | 0.44 | 5.34 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 20 | 5.28 | 0.44 | 5.34 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 20 | 5.28 | 0.59 | 5.49 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 20 | 5.28 | 0.59 | 5.49 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 20 | 5.28 | 0.59 | 5.49 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 20 | 5.28 | 0.59 | 5.49 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 5.28 | 0.91 | 5.44 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 5.28 | 0.91 | 5.44 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 20 | 5.28 | 0.68 | 5.32 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 20 | 5.28 | 0.68 | 5.32 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 20 | 5.28 | 0.99 | 5.28 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 20 | 5.28 | 0.99 | 5.28 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 5.28 | 0.99 | 5.28 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 5.28 | 0.99 | 5.28 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 20 | 5.28 | 0.99 | 5.28 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 20 | 5.28 | 0.99 | 5.28 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 5.28 | 0.99 | 5.28 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 5.28 | 0.99 | 5.28 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 20 | 5.28 | 0.54 | 5.27 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 20 | 5.28 | 0.54 | 5.27 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 20 | 5.28 | 0.54 | 5.27 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 20 | 5.28 | 0.54 | 5.27 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 20 | 5.28 | 0.54 | 5.27 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 20 | 5.28 | 0.54 | 5.27 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 20 | 5.28 | 1.03 | 5.32 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 20 | 5.28 | 1.03 | 5.32 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 20 | 5.28 | 0.68 | 5.08 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 20 | 5.28 | 0.68 | 5.08 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 20 | 5.28 | 1.08 | 5.46 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 20 | 5.28 | 1.08 | 5.46 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 20 | 5.28 | 1.51 | 4.76 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 20 | 5.28 | 1.51 | 4.76 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 20 | 5.28 | 1.51 | 4.76 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 20 | 5.28 | 1.51 | 4.76 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 20 | 5.28 | 1.51 | 4.76 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 20 | 5.28 | 1.51 | 4.76 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 20 | 5.28 | 0.35 | 5.5 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 20 | 5.28 | 0.35 | 5.5 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 20 | 5.28 | 0.35 | 5.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 20 | 5.28 | 0.35 | 5.5 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 20 | 5.28 | 0.35 | 5.5 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 20 | 5.28 | 0.35 | 5.5 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 20 | 5.28 | 0.53 | 5.27 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 20 | 5.28 | 0.78 | 5.18 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 20 | 5.28 | 0.54 | 5.08 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 20 | 5.28 | 0.54 | 5.08 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 20 | 5.28 | 0.54 | 5.08 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 20 | 5.28 | 0.54 | 5.08 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 20 | 5.28 | 0.54 | 5.08 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 20 | 5.28 | 0.54 | 5.08 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 20 | 5.27 | 0.61 | 5.14 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 20 | 5.27 | 0.61 | 5.14 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 20 | 5.27 | 0.61 | 5.14 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 20 | 5.27 | 0.99 | 5.17 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 20 | 5.27 | 0.99 | 5.17 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 20 | 5.27 | 0.99 | 5.17 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 20 | 5.27 | 0.99 | 5.17 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 20 | 5.27 | 0.68 | 5.2 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 20 | 5.27 | 0.68 | 5.2 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 20 | 5.27 | 1.14 | 4.94 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 20 | 5.27 | 1.14 | 4.94 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 20 | 5.27 | 1.14 | 4.94 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 20 | 5.27 | 1.14 | 4.94 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 20 | 5.27 | 1.14 | 4.94 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 20 | 5.27 | 1.14 | 4.94 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 20 | 5.27 | 0.51 | 5.28 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 20 | 5.27 | 0.51 | 5.28 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 5.27 | 1.16 | 5.2 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 5.27 | 0.95 | 5.32 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 5.27 | 0.95 | 5.32 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 20 | 5.27 | 1.57 | 4.71 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 20 | 5.27 | 1.57 | 4.71 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 20 | 5.27 | 1.57 | 4.71 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 20 | 5.27 | 0.65 | 5.28 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 20 | 5.27 | 0.65 | 5.28 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 5.27 | 1.28 | 5.31 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 20 | 5.27 | 2.64 | 5.16 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 20 | 5.26 | 1.34 | 4.95 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 20 | 5.26 | 1.34 | 4.95 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 20 | 5.26 | 0.82 | 5.52 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 20 | 5.26 | 0.82 | 5.52 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 20 | 5.26 | 0.82 | 5.52 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 20 | 5.26 | 1.09 | 5.22 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 20 | 5.26 | 1.09 | 5.22 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 20 | 5.26 | 1.09 | 5.22 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 20 | 5.26 | 1.09 | 5.22 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 20 | 5.26 | 1.59 | 5.02 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 20 | 5.26 | 1.59 | 5.02 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 20 | 5.26 | 0.54 | 5.19 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 20 | 5.26 | 1.87 | 4.8 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 20 | 5.26 | 1.87 | 4.8 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 20 | 5.26 | 1.87 | 4.8 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 20 | 5.26 | 1.87 | 4.8 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 20 | 5.26 | 1.87 | 4.8 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 20 | 5.26 | 1.87 | 4.8 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 5.26 | 0.47 | 5.2 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 20 | 5.26 | 1.4 | 5.51 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 20 | 5.26 | 1.4 | 5.51 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 5.26 | 1.29 | 5.74 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 5.26 | 1.29 | 5.74 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 5.26 | 1.29 | 5.74 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 5.26 | 1.29 | 5.74 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 20 | 5.26 | 0.53 | 5.01 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 20 | 5.25 | 0.93 | 5.26 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 20 | 5.25 | 0.93 | 5.26 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 5.25 | 0.47 | 5.38 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 20 | 5.25 | 0.65 | 5.57 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 20 | 5.25 | 0.65 | 5.57 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 20 | 5.25 | 0.65 | 5.57 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 5.25 | 0.69 | 5.29 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 5.25 | 0.69 | 5.29 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 5.25 | 0.69 | 5.29 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 5.24 | 0.51 | 5.12 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 20 | 5.24 | 0.92 | 5.04 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 20 | 5.24 | 0.67 | 5.08 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 20 | 5.24 | 0.99 | 4.78 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 5.24 | 0.36 | 5.18 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 20 | 5.24 | 0.99 | 4.78 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 20 | 5.24 | 0.45 | 5.27 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 20 | 5.23 | 0.64 | 5.26 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 20 | 5.23 | 0.64 | 5.26 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 20 | 5.23 | 0.64 | 5.26 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 20 | 5.23 | 0.81 | 4.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 20 | 5.23 | 0.81 | 4.96 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 20 | 5.23 | 1.62 | 4.28 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 20 | 5.23 | 0.58 | 5.27 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 20 | 5.23 | 0.58 | 5.27 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 20 | 5.23 | 0.59 | 5.06 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 20 | 5.23 | 0.25 | 5.36 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 20 | 5.23 | 1.48 | 4.81 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 5.22 | 0.2 | 5.22 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 5.22 | 0.2 | 5.22 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 5.22 | 0.2 | 5.22 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 5.22 | 0.2 | 5.22 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 20 | 5.22 | 0.95 | 4.92 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 20 | 5.22 | 0.95 | 4.92 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 20 | 5.22 | 0.88 | 4.99 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 20 | 5.22 | 0.88 | 4.99 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 20 | 5.22 | 0.88 | 4.99 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 20 | 5.22 | 0.88 | 4.99 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 20 | 5.22 | 0.75 | 5.36 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 20 | 5.22 | 0.75 | 5.36 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 20 | 5.22 | 0.61 | 5.12 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 20 | 5.22 | 0.35 | 5.18 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 20 | 5.22 | 0.49 | 5.29 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 20 | 5.21 | 0.82 | 5.12 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 20 | 5.21 | 0.82 | 5.12 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 5.21 | 0.31 | 5.25 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 5.21 | 0.31 | 5.25 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 5.21 | 0.31 | 5.25 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 5.21 | 0.63 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 5.21 | 0.63 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 5.21 | 0.63 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 5.21 | 0.63 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 5.21 | 0.63 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 5.21 | 0.63 | 5.1 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 20 | 5.21 | 0.98 | 4.8 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 20 | 5.21 | 0.98 | 4.8 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 20 | 5.21 | 0.98 | 4.8 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 5.21 | 0.98 | 4.8 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 5.21 | 0.98 | 4.8 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 5.21 | 0.98 | 4.8 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 20 | 5.21 | 0.98 | 4.8 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 20 | 5.21 | 0.98 | 4.8 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 20 | 5.21 | 0.98 | 4.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 5.21 | 0.98 | 4.8 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 5.21 | 0.98 | 4.8 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 5.21 | 0.98 | 4.8 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 20 | 5.21 | 0.96 | 5.3 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 5.21 | 1.1 | 5.42 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 5.21 | 1.1 | 5.42 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 5.21 | 1.1 | 5.42 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 20 | 5.2 | 0.62 | 4.98 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 20 | 5.2 | 0.62 | 4.98 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 20 | 5.2 | 0.62 | 4.98 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 20 | 5.2 | 0.62 | 4.98 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 20 | 5.2 | 0.62 | 4.98 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 20 | 5.2 | 0.62 | 4.98 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 20 | 5.2 | 0.42 | 5.29 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 20 | 5.2 | 0.61 | 5.28 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 20 | 5.2 | 0.61 | 5.28 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 20 | 5.2 | 0.61 | 5.28 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 20 | 5.2 | 0.61 | 5.28 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 20 | 5.2 | 0.01 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 20 | 5.2 | 0.01 | 5.2 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 20 | 5.2 | 0.87 | 5.44 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 20 | 5.2 | 0.87 | 5.44 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 20 | 5.2 | 0.87 | 5.44 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 20 | 5.2 | 1.09 | 4.97 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 20 | 5.2 | 0.69 | 5.14 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 20 | 5.2 | 0.69 | 5.14 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 20 | 5.2 | 0.5 | 5.44 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 20 | 5.2 | 0.5 | 5.44 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 5.2 | 1.19 | 4.88 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 5.2 | 1.19 | 4.88 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 5.2 | 1.19 | 4.88 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 20 | 5.2 | 1.03 | 4.86 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 20 | 5.19 | 0.79 | 5.27 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 5.19 | 0.75 | 5.53 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 5.19 | 0.75 | 5.53 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 5.19 | 0.75 | 5.53 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 5.19 | 0.75 | 5.53 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 20 | 5.19 | 2.3 | 4.4 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 20 | 5.19 | 2.3 | 4.4 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 20 | 5.19 | 0.62 | 5.33 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 20 | 5.19 | 0.62 | 5.33 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 20 | 5.18 | 0.94 | 5.12 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 5.18 | 0.35 | 5.14 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 5.18 | 0.35 | 5.14 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 5.18 | 0.35 | 5.14 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 5.18 | 0.35 | 5.14 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 20 | 5.18 | 0.81 | 5.15 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 20 | 5.18 | 1.32 | 4.71 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 20 | 5.18 | 1.32 | 4.71 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 20 | 5.18 | 1.32 | 4.71 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 20 | 5.18 | 1.32 | 4.71 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 20 | 5.18 | 1.32 | 4.71 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 20 | 5.18 | 1.32 | 4.71 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 5.18 | 2.16 | 4.94 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 5.18 | 2.16 | 4.94 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 5.18 | 0.94 | 4.66 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 20 | 5.18 | 0.94 | 4.66 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 5.18 | 0.94 | 4.66 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 20 | 5.18 | 0.94 | 4.66 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 5.18 | 0.82 | 5.05 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 5.18 | 0.82 | 5.05 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 5.18 | 0.82 | 5.05 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 5.18 | 0.82 | 5.05 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 5.18 | 0.82 | 5.05 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 5.18 | 0.82 | 5.05 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 5.18 | 0.82 | 5.05 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 5.18 | 0.82 | 5.05 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 5.18 | 0.82 | 5.05 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 5.18 | 0.82 | 5.05 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 5.18 | 0.82 | 5.05 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 5.18 | 0.82 | 5.05 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 5.17 | 0.72 | 5.3 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 5.17 | 0.72 | 5.3 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 5.17 | 0.72 | 5.3 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 5.17 | 0.72 | 5.3 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 20 | 5.17 | 0.58 | 5.22 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 20 | 5.17 | 0.58 | 5.22 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 20 | 5.17 | 0.58 | 5.22 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 20 | 5.17 | 0.23 | 5.15 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 20 | 5.17 | 0.23 | 5.15 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 20 | 5.17 | 0.88 | 5.32 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 20 | 5.17 | 0.88 | 5.32 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 20 | 5.17 | 0.75 | 5.27 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 5.17 | 0.45 | 5.1 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 5.17 | 1.32 | 4.74 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 5.17 | 1.32 | 4.74 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 5.17 | 1.32 | 4.74 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 20 | 5.17 | 1.18 | 4.76 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 20 | 5.16 | 0.96 | 5.16 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 20 | 5.16 | 0.96 | 5.16 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 20 | 5.16 | 0.95 | 5.09 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 5.16 | 0.16 | 5.15 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 20 | 5.16 | 0.98 | 4.8 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 20 | 5.16 | 0.98 | 4.8 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 5.16 | 0.16 | 5.15 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 20 | 5.16 | 0.98 | 4.8 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 20 | 5.16 | 0.98 | 4.8 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 20 | 5.16 | 0.74 | 5.18 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 20 | 5.16 | 0.74 | 5.18 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 20 | 5.16 | 0.74 | 5.18 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 20 | 5.16 | 0.18 | 5.17 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 20 | 5.16 | 0.18 | 5.17 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 20 | 5.16 | 0.74 | 5.18 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 20 | 5.16 | 0.74 | 5.18 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 20 | 5.16 | 0.74 | 5.18 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 20 | 5.16 | 0.18 | 5.17 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 20 | 5.16 | 0.18 | 5.17 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 20 | 5.16 | 0.57 | 5.09 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 20 | 5.16 | 0.57 | 5.09 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 20 | 5.16 | 0.57 | 5.09 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 20 | 5.16 | 0.57 | 5.09 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 20 | 5.16 | 1.64 | 5.3 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 20 | 5.16 | 1.5 | 4.69 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 20 | 5.16 | 1.5 | 4.69 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 20 | 5.16 | 1.5 | 4.69 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 20 | 5.16 | 1.5 | 4.69 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 20 | 5.16 | 1.02 | 5.24 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 20 | 5.16 | 1.02 | 5.24 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 20 | 5.16 | 1.02 | 5.24 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 20 | 5.16 | 0.42 | 5.14 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 20 | 5.16 | 0.42 | 5.14 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 20 | 5.16 | 1.15 | 4.72 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 20 | 5.16 | 1.15 | 4.72 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 5.15 | 1.68 | 4.84 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 5.15 | 1.68 | 4.84 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 20 | 5.15 | 0.51 | 5.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 20 | 5.15 | 0.51 | 5.22 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 20 | 5.15 | 0.51 | 5.22 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 20 | 5.15 | 0.51 | 5.22 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 20 | 5.15 | 1.35 | 4.92 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 20 | 5.15 | 1.35 | 4.92 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 20 | 5.15 | 0.7 | 5.34 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 20 | 5.15 | 0.7 | 5.34 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 20 | 5.15 | 0.7 | 5.34 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 20 | 5.15 | 0.7 | 5.34 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 20 | 5.15 | 0.7 | 5.34 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 20 | 5.15 | 0.7 | 5.34 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 20 | 5.15 | 0.7 | 5.34 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 20 | 5.15 | 0.7 | 5.34 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 20 | 5.15 | 0.7 | 5.34 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 20 | 5.15 | 0.7 | 5.34 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 20 | 5.15 | 0.7 | 5.34 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 20 | 5.15 | 0.7 | 5.34 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 20 | 5.15 | 0.87 | 4.9 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 20 | 5.15 | 0.87 | 4.9 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 20 | 5.15 | 0.0 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 20 | 5.15 | 0.0 | 5.15 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 20 | 5.15 | 0.71 | 5.1 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 20 | 5.15 | 0.71 | 5.1 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 20 | 5.15 | 0.71 | 5.1 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 20 | 5.15 | 0.83 | 5.15 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 20 | 5.15 | 0.83 | 5.15 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 20 | 5.15 | 0.38 | 5.1 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 5.15 | 0.38 | 5.1 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 20 | 5.15 | 0.38 | 5.1 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 5.15 | 0.38 | 5.1 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 20 | 5.15 | 1.66 | 5.15 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 20 | 5.15 | 1.66 | 5.15 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 20 | 5.15 | 0.55 | 5.12 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 5.15 | 1.15 | 4.7 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 20 | 5.15 | 0.51 | 5.44 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 20 | 5.15 | 0.51 | 5.44 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 20 | 5.15 | 0.51 | 5.44 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 20 | 5.15 | 1.43 | 5.16 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 20 | 5.14 | 1.17 | 5.0 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 20 | 5.14 | 1.17 | 5.0 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 5.14 | 0.88 | 5.2 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 5.14 | 1.01 | 4.94 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 20 | 5.14 | 0.5 | 5.16 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 20 | 5.14 | 0.69 | 4.94 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 20 | 5.14 | 0.69 | 4.94 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 20 | 5.14 | 0.33 | 5.15 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 20 | 5.14 | 0.33 | 5.15 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 20 | 5.14 | 0.33 | 5.15 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 20 | 5.14 | 0.6 | 5.18 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 20 | 5.14 | 0.6 | 5.18 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 20 | 5.14 | 1.65 | 4.63 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 20 | 5.14 | 1.65 | 4.63 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 20 | 5.14 | 1.65 | 4.63 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 20 | 5.14 | 1.65 | 4.63 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 20 | 5.14 | 1.65 | 4.63 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 20 | 5.14 | 1.65 | 4.63 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 20 | 5.13 | 1.0 | 5.38 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 20 | 5.13 | 1.0 | 5.38 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 20 | 5.13 | 1.0 | 5.38 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 20 | 5.13 | 1.0 | 5.38 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 20 | 5.13 | 1.0 | 5.38 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 20 | 5.13 | 1.0 | 5.38 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 20 | 5.13 | 1.0 | 5.38 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 20 | 5.13 | 1.0 | 5.38 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 20 | 5.13 | 1.0 | 5.38 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 20 | 5.13 | 1.0 | 5.38 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 20 | 5.13 | 1.0 | 5.38 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 20 | 5.13 | 1.0 | 5.38 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 5.13 | 0.79 | 5.11 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 5.13 | 0.79 | 5.11 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 5.13 | 0.79 | 5.11 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 20 | 5.13 | 0.86 | 5.36 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 20 | 5.13 | 0.86 | 5.36 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 5.13 | 0.3 | 5.13 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 5.13 | 0.3 | 5.13 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 20 | 5.13 | 0.7 | 5.31 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 20 | 5.13 | 0.7 | 5.31 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 20 | 5.13 | 0.7 | 5.31 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 20 | 5.13 | 0.7 | 5.31 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 20 | 5.13 | 0.64 | 5.04 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 5.13 | 0.66 | 5.03 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 5.13 | 0.66 | 5.03 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 5.13 | 0.66 | 5.03 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 5.13 | 0.66 | 5.03 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 5.13 | 0.66 | 5.03 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 5.13 | 0.66 | 5.03 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 20 | 5.13 | 0.86 | 4.86 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 20 | 5.13 | 0.86 | 4.86 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 5.12 | 1.06 | 4.96 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 5.12 | 1.06 | 4.96 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 5.12 | 1.06 | 4.96 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 5.12 | 1.06 | 4.96 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 20 | 5.12 | 0.8 | 5.06 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 20 | 5.12 | 0.8 | 5.06 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 20 | 5.12 | 0.8 | 5.06 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 20 | 5.12 | 0.8 | 5.06 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 20 | 5.12 | 0.96 | 4.85 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 20 | 5.12 | 1.64 | 4.61 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 20 | 5.12 | 1.64 | 4.61 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 20 | 5.12 | 0.36 | 4.96 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 20 | 5.12 | 0.36 | 4.96 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 20 | 5.12 | 0.88 | 5.29 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 20 | 5.12 | 0.53 | 5.0 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 20 | 5.12 | 0.53 | 5.0 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 20 | 5.11 | 0.28 | 5.18 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 20 | 5.11 | 1.51 | 4.55 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 20 | 5.11 | 1.51 | 4.55 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 20 | 5.11 | 0.6 | 5.18 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 20 | 5.11 | 0.6 | 5.18 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 20 | 5.11 | 0.53 | 5.13 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 20 | 5.11 | 0.53 | 5.13 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 20 | 5.11 | 0.53 | 5.13 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 20 | 5.11 | 0.96 | 4.97 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 20 | 5.11 | 0.96 | 4.97 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 20 | 5.11 | 0.96 | 4.97 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 5.11 | 1.15 | 4.88 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 5.11 | 1.15 | 4.88 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 5.11 | 1.15 | 4.88 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 5.11 | 1.15 | 4.88 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 20 | 5.11 | 1.19 | 4.58 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 20 | 5.11 | 1.61 | 5.12 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 20 | 5.11 | 0.81 | 5.21 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 20 | 5.11 | 0.81 | 5.21 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 20 | 5.11 | 0.87 | 4.91 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 20 | 5.11 | 0.87 | 4.91 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 20 | 5.11 | 0.87 | 4.91 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 20 | 5.11 | 0.82 | 5.02 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 20 | 5.1 | 0.51 | 5.14 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 20 | 5.1 | 0.51 | 5.14 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 20 | 5.1 | 0.57 | 4.82 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 5.1 | 2.33 | 4.89 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 20 | 5.1 | 0.71 | 4.58 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 5.1 | 0.61 | 5.22 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 20 | 5.1 | 1.18 | 4.81 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 20 | 5.1 | 1.18 | 4.81 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 20 | 5.1 | 0.47 | 5.13 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 20 | 5.1 | 0.43 | 5.22 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 5.09 | 0.69 | 4.93 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 5.09 | 0.69 | 4.93 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 5.09 | 0.69 | 4.93 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 20 | 5.09 | 0.4 | 5.01 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 20 | 5.09 | 0.58 | 5.24 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 20 | 5.09 | 0.58 | 5.24 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 20 | 5.09 | 0.58 | 5.24 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 20 | 5.09 | 0.58 | 5.24 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 20 | 5.09 | 0.58 | 5.24 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 20 | 5.09 | 0.58 | 5.24 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 20 | 5.09 | 0.58 | 5.24 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 20 | 5.09 | 0.58 | 5.24 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 20 | 5.09 | 0.58 | 5.24 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 20 | 5.09 | 1.07 | 4.96 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 20 | 5.09 | 0.96 | 5.07 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 20 | 5.09 | 0.96 | 5.07 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 20 | 5.09 | 0.96 | 5.07 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 5.09 | 0.99 | 4.94 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 20 | 5.09 | 1.13 | 5.2 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 5.09 | 1.13 | 5.2 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 20 | 5.09 | 0.92 | 4.94 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 20 | 5.09 | 0.92 | 4.94 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 20 | 5.09 | 0.65 | 5.08 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 20 | 5.09 | 0.65 | 5.08 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 20 | 5.09 | 2.58 | 4.28 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 20 | 5.09 | 2.58 | 4.28 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 20 | 5.09 | 0.67 | 5.09 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 20 | 5.09 | 0.67 | 5.09 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 20 | 5.09 | 0.67 | 5.09 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 20 | 5.09 | 0.67 | 5.09 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 20 | 5.09 | 0.67 | 5.09 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 20 | 5.09 | 0.67 | 5.09 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 20 | 5.08 | 0.82 | 5.06 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 20 | 5.08 | 0.82 | 5.06 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 20 | 5.08 | 0.82 | 5.06 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 5.08 | 0.78 | 5.03 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 5.08 | 0.78 | 5.03 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 5.08 | 0.78 | 5.03 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 20 | 5.08 | 1.18 | 4.7 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 20 | 5.08 | 1.18 | 4.7 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 20 | 5.08 | 1.29 | 4.95 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 20 | 5.08 | 1.29 | 4.95 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 20 | 5.08 | 1.29 | 4.95 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 20 | 5.08 | 1.29 | 4.95 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 20 | 5.08 | 0.58 | 5.01 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 20 | 5.08 | 0.58 | 5.01 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 5.08 | 1.28 | 5.37 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 5.08 | 1.28 | 5.37 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 5.08 | 1.28 | 5.37 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 5.08 | 1.28 | 5.37 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 5.08 | 1.28 | 5.37 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 5.08 | 1.28 | 5.37 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 5.08 | 1.28 | 5.37 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 5.08 | 1.28 | 5.37 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 5.08 | 1.28 | 5.37 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 5.08 | 1.28 | 5.37 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 5.08 | 1.28 | 5.37 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 5.08 | 1.28 | 5.37 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 5.08 | 1.39 | 5.04 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 5.08 | 1.39 | 5.04 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 5.08 | 1.39 | 5.04 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 20 | 5.08 | 0.46 | 4.88 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 20 | 5.08 | 1.58 | 4.06 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 20 | 5.08 | 1.58 | 4.06 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 20 | 5.08 | 1.58 | 4.06 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 20 | 5.07 | 0.71 | 5.08 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 20 | 5.07 | 0.71 | 5.08 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 20 | 5.07 | 0.71 | 5.08 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 20 | 5.07 | 0.71 | 5.08 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 20 | 5.07 | 0.71 | 5.08 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 20 | 5.07 | 0.71 | 5.08 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 20 | 5.07 | 0.55 | 4.82 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 20 | 5.07 | 0.55 | 4.82 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 20 | 5.07 | 0.55 | 4.82 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 20 | 5.07 | 0.55 | 4.82 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 20 | 5.07 | 0.55 | 4.82 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 20 | 5.07 | 0.55 | 4.82 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 20 | 5.07 | 0.63 | 5.27 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 20 | 5.07 | 0.01 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 20 | 5.07 | 0.01 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 20 | 5.07 | 0.01 | 5.08 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 20 | 5.07 | 0.45 | 5.02 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 20 | 5.07 | 0.45 | 5.02 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 20 | 5.07 | 0.66 | 5.24 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 20 | 5.07 | 0.66 | 5.24 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 20 | 5.07 | 0.66 | 5.24 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 20 | 5.07 | 0.7 | 4.88 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 20 | 5.07 | 0.7 | 4.88 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 20 | 5.07 | 0.7 | 4.88 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 20 | 5.07 | 0.7 | 4.88 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 20 | 5.07 | 0.7 | 4.88 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 20 | 5.07 | 0.7 | 4.88 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 20 | 5.07 | 0.91 | 5.3 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 20 | 5.07 | 0.91 | 5.3 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 20 | 5.07 | 0.91 | 5.3 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 20 | 5.06 | 1.14 | 4.47 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 20 | 5.06 | 1.14 | 4.47 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 20 | 5.06 | 1.14 | 4.47 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 20 | 5.06 | 1.14 | 4.47 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 20 | 5.06 | 1.14 | 4.47 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 20 | 5.06 | 1.14 | 4.47 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 20 | 5.06 | 1.53 | 4.78 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 20 | 5.06 | 1.53 | 4.78 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 20 | 5.06 | 1.53 | 4.78 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 20 | 5.06 | 0.56 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 20 | 5.06 | 0.56 | 5.0 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 20 | 5.06 | 0.56 | 5.0 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 20 | 5.06 | 2.0 | 4.54 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 20 | 5.06 | 2.0 | 4.54 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 20 | 5.06 | 0.51 | 5.15 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 20 | 5.06 | 0.51 | 5.15 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 20 | 5.06 | 0.54 | 4.97 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 20 | 5.06 | 1.08 | 4.7 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 20 | 5.06 | 1.08 | 4.7 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 20 | 5.06 | 1.08 | 4.7 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 20 | 5.06 | 0.37 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 20 | 5.06 | 0.37 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 20 | 5.06 | 0.37 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 20 | 5.06 | 0.37 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 20 | 5.06 | 0.37 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 20 | 5.06 | 0.37 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 20 | 5.06 | 0.37 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 20 | 5.06 | 0.37 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 20 | 5.06 | 0.37 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 20 | 5.06 | 0.37 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 20 | 5.06 | 0.37 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 20 | 5.06 | 0.37 | 5.03 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 20 | 5.05 | 0.58 | 4.98 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 20 | 5.05 | 0.61 | 5.0 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 20 | 5.05 | 0.61 | 5.0 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 5.05 | 1.42 | 4.9 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 5.05 | 1.42 | 4.9 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 20 | 5.05 | 0.64 | 5.03 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 20 | 5.05 | 0.64 | 5.03 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 20 | 5.05 | 0.64 | 5.03 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 5.05 | 0.93 | 5.09 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 5.05 | 0.93 | 5.09 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 5.05 | 0.93 | 5.09 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 5.05 | 0.93 | 5.09 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 5.05 | 0.93 | 5.09 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 5.05 | 0.93 | 5.09 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 5.05 | 0.93 | 5.09 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 5.05 | 0.93 | 5.09 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 5.05 | 0.93 | 5.09 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 5.05 | 0.93 | 5.09 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 5.05 | 0.93 | 5.09 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 5.05 | 0.93 | 5.09 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 20 | 5.04 | 0.46 | 5.06 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 20 | 5.04 | 0.46 | 5.06 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 20 | 5.04 | 0.67 | 5.04 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 20 | 5.04 | 0.22 | 5.06 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 5.04 | 0.33 | 5.13 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 20 | 5.04 | 0.22 | 5.06 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 20 | 5.04 | 1.76 | 4.36 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 20 | 5.04 | 0.98 | 5.12 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 20 | 5.04 | 0.98 | 5.12 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 20 | 5.04 | 0.98 | 5.12 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 20 | 5.04 | 0.98 | 5.12 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 20 | 5.04 | 0.98 | 5.12 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 20 | 5.04 | 0.98 | 5.12 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 5.04 | 0.74 | 5.13 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 5.04 | 0.74 | 5.13 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 5.04 | 0.74 | 5.13 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 20 | 5.04 | 0.33 | 5.04 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 20 | 5.04 | 0.33 | 5.04 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 5.04 | 0.61 | 4.97 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 5.04 | 0.61 | 4.97 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 5.04 | 0.61 | 4.97 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 5.03 | 0.67 | 5.24 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 20 | 5.03 | 0.47 | 4.94 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 20 | 5.03 | 0.47 | 4.94 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 20 | 5.03 | 0.84 | 4.76 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 20 | 5.03 | 0.84 | 4.76 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 20 | 5.03 | 1.82 | 3.93 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 20 | 5.03 | 1.82 | 3.93 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 20 | 5.03 | 1.82 | 3.93 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 20 | 5.03 | 0.73 | 4.84 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 20 | 5.03 | 0.73 | 4.84 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 20 | 5.03 | 0.99 | 5.37 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 20 | 5.03 | 0.99 | 5.37 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 20 | 5.03 | 0.99 | 5.37 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 20 | 5.03 | 0.99 | 5.37 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 20 | 5.03 | 0.99 | 5.37 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 20 | 5.03 | 0.99 | 5.37 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 20 | 5.03 | 0.54 | 4.9 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 5.03 | 1.19 | 4.62 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 5.03 | 1.19 | 4.62 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 5.03 | 1.19 | 4.62 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 20 | 5.03 | 0.43 | 5.1 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 20 | 5.03 | 0.43 | 5.1 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 20 | 5.03 | 0.43 | 5.1 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 20 | 5.03 | 0.43 | 5.1 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 20 | 5.03 | 0.43 | 5.1 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 20 | 5.03 | 0.43 | 5.1 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 5.03 | 0.72 | 4.98 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 20 | 5.03 | 0.37 | 5.04 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 20 | 5.03 | 0.37 | 5.04 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 20 | 5.03 | 0.37 | 4.91 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 20 | 5.03 | 0.37 | 4.91 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 20 | 5.03 | 0.37 | 4.91 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 20 | 5.03 | 0.37 | 4.91 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 20 | 5.03 | 0.37 | 4.91 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 20 | 5.03 | 0.37 | 4.91 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 20 | 5.03 | 0.37 | 4.91 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 20 | 5.03 | 0.37 | 4.91 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 20 | 5.03 | 0.37 | 4.91 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 20 | 5.03 | 0.51 | 5.21 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 20 | 5.03 | 0.51 | 5.21 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 20 | 5.03 | 0.51 | 5.21 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 20 | 5.03 | 0.51 | 5.21 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 20 | 5.03 | 1.88 | 4.06 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 5.03 | 0.58 | 4.95 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 5.03 | 0.58 | 4.95 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 5.03 | 0.58 | 4.95 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 20 | 5.02 | 2.56 | 5.12 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 20 | 5.02 | 2.56 | 5.12 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 20 | 5.02 | 2.56 | 5.12 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 20 | 5.02 | 2.56 | 5.12 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 20 | 5.02 | 2.56 | 5.12 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 20 | 5.02 | 2.56 | 5.12 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 20 | 5.02 | 0.69 | 5.04 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 20 | 5.02 | 0.69 | 5.04 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 20 | 5.02 | 0.69 | 5.04 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 5.02 | 0.69 | 5.04 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 5.02 | 0.69 | 5.04 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 5.02 | 0.69 | 5.04 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 20 | 5.02 | 0.69 | 5.04 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 20 | 5.02 | 0.69 | 5.04 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 20 | 5.02 | 0.69 | 5.04 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 5.02 | 0.69 | 5.04 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 5.02 | 0.69 | 5.04 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 5.02 | 0.69 | 5.04 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 5.02 | 1.02 | 5.03 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 20 | 5.02 | 0.67 | 5.01 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 20 | 5.02 | 0.67 | 5.01 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 5.02 | 0.78 | 4.86 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 5.02 | 0.78 | 4.86 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 5.02 | 0.28 | 5.01 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 20 | 5.02 | 0.9 | 4.72 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 20 | 5.01 | 0.7 | 5.11 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 20 | 5.01 | 0.7 | 5.11 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 20 | 5.01 | 0.23 | 5.05 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 20 | 5.01 | 1.15 | 4.86 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 20 | 5.01 | 1.15 | 4.86 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 20 | 5.01 | 1.15 | 4.86 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 20 | 5.01 | 1.15 | 4.86 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 20 | 5.01 | 1.15 | 4.86 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 20 | 5.01 | 1.15 | 4.86 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 20 | 5.01 | 0.65 | 5.21 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 20 | 5.01 | 0.65 | 5.21 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 20 | 5.01 | 0.65 | 5.21 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 20 | 5.01 | 0.81 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 20 | 5.01 | 0.81 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 20 | 5.01 | 0.81 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 20 | 5.01 | 0.81 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 20 | 5.01 | 0.81 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 20 | 5.01 | 0.81 | 4.89 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 20 | 5.01 | 1.33 | 5.12 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 20 | 5.01 | 1.33 | 5.12 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 20 | 5.01 | 1.33 | 5.12 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 20 | 5.01 | 1.33 | 5.12 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 20 | 5.01 | 1.33 | 5.12 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 20 | 5.01 | 1.33 | 5.12 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 20 | 5.01 | 1.33 | 5.12 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 20 | 5.01 | 1.33 | 5.12 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 20 | 5.01 | 1.33 | 5.12 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 20 | 5.01 | 1.33 | 5.12 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 20 | 5.01 | 1.33 | 5.12 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 20 | 5.01 | 1.33 | 5.12 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 20 | 5.01 | 0.31 | 4.99 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 20 | 5.01 | 0.69 | 5.05 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 20 | 5.01 | 0.69 | 5.05 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 20 | 5.01 | 0.69 | 5.05 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 20 | 5.01 | 0.69 | 5.05 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 20 | 5.01 | 0.69 | 5.05 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 20 | 5.01 | 0.69 | 5.05 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 20 | 5.0 | 0.71 | 4.99 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 20 | 5.0 | 0.71 | 4.99 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 20 | 5.0 | 0.71 | 4.99 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 20 | 5.0 | 0.71 | 4.99 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 20 | 5.0 | 0.71 | 4.99 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 20 | 5.0 | 0.71 | 4.99 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 20 | 5.0 | 1.12 | 4.8 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 20 | 5.0 | 1.12 | 4.8 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 20 | 5.0 | 1.12 | 4.8 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 20 | 5.0 | 0.71 | 4.99 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 20 | 5.0 | 0.71 | 4.99 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 20 | 5.0 | 0.71 | 4.99 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 20 | 5.0 | 0.71 | 4.99 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 20 | 5.0 | 0.71 | 4.99 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 20 | 5.0 | 0.71 | 4.99 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 20 | 5.0 | 1.12 | 4.8 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 20 | 5.0 | 1.12 | 4.8 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 20 | 5.0 | 1.12 | 4.8 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 20 | 5.0 | 1.59 | 4.12 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 20 | 5.0 | 1.59 | 4.12 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 20 | 5.0 | 1.59 | 4.12 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 20 | 5.0 | 1.59 | 4.12 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 20 | 5.0 | 1.59 | 4.12 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 20 | 5.0 | 1.59 | 4.12 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 20 | 5.0 | 0.81 | 4.7 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 5.0 | 0.41 | 4.93 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 5.0 | 0.41 | 4.93 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 5.0 | 1.96 | 4.53 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 5.0 | 1.96 | 4.53 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 5.0 | 1.96 | 4.53 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 20 | 5.0 | 0.67 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 20 | 5.0 | 0.67 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 20 | 5.0 | 0.67 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 20 | 5.0 | 0.67 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 20 | 5.0 | 0.67 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 20 | 5.0 | 0.67 | 4.94 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 20 | 5.0 | 1.33 | 4.28 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 20 | 4.99 | 0.83 | 5.0 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 20 | 4.99 | 1.41 | 4.42 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 20 | 4.99 | 1.41 | 4.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 20 | 4.99 | 1.41 | 4.42 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 20 | 4.99 | 1.41 | 4.42 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 20 | 4.99 | 1.41 | 4.42 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 20 | 4.99 | 1.41 | 4.42 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 4.99 | 0.81 | 4.69 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 4.99 | 0.81 | 4.69 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 4.99 | 0.81 | 4.69 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 4.99 | 0.81 | 4.69 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 20 | 4.99 | 0.5 | 4.86 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 20 | 4.99 | 1.26 | 4.46 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 20 | 4.99 | 1.26 | 4.46 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 4.99 | 0.96 | 4.63 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 4.99 | 0.96 | 4.63 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 4.99 | 0.96 | 4.63 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 20 | 4.98 | 0.56 | 5.01 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 20 | 4.98 | 0.56 | 5.01 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 20 | 4.98 | 0.56 | 5.01 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 20 | 4.98 | 0.34 | 4.89 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 20 | 4.98 | 0.34 | 4.89 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 20 | 4.98 | 0.34 | 4.89 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 20 | 4.98 | 0.34 | 4.89 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 20 | 4.98 | 0.34 | 4.89 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 20 | 4.98 | 0.34 | 4.89 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 20 | 4.98 | 1.29 | 4.76 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 20 | 4.98 | 1.29 | 4.76 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 20 | 4.98 | 1.29 | 4.76 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 4.98 | 0.07 | 5.01 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 4.98 | 0.06 | 5.0 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 20 | 4.98 | 0.8 | 5.0 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 20 | 4.98 | 0.57 | 4.91 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 20 | 4.98 | 1.44 | 4.2 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 20 | 4.98 | 1.44 | 4.2 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 20 | 4.98 | 1.02 | 4.74 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 20 | 4.98 | 1.02 | 4.74 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 20 | 4.98 | 1.02 | 4.74 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 20 | 4.97 | 0.45 | 4.96 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 20 | 4.97 | 0.45 | 4.96 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 20 | 4.97 | 0.45 | 4.96 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 20 | 4.97 | 0.45 | 4.96 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 20 | 4.97 | 0.45 | 4.96 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 20 | 4.97 | 0.45 | 4.96 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 20 | 4.97 | 0.66 | 5.02 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 20 | 4.97 | 0.66 | 5.02 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 20 | 4.97 | 0.66 | 5.02 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 20 | 4.97 | 1.48 | 4.25 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 4.97 | 0.75 | 4.78 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 20 | 4.97 | 0.75 | 4.78 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 4.97 | 0.75 | 4.78 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 20 | 4.97 | 0.75 | 4.78 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 4.97 | 1.73 | 4.63 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 20 | 4.97 | 0.26 | 4.94 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 20 | 4.97 | 0.77 | 4.94 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 20 | 4.97 | 0.77 | 4.94 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 20 | 4.97 | 0.77 | 4.94 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 20 | 4.97 | 0.77 | 4.94 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 20 | 4.97 | 0.77 | 4.94 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 20 | 4.97 | 0.77 | 4.94 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 20 | 4.97 | 0.77 | 4.94 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 20 | 4.97 | 0.77 | 4.94 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 20 | 4.97 | 0.77 | 4.94 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 20 | 4.97 | 0.77 | 4.94 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 20 | 4.97 | 0.77 | 4.94 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 20 | 4.97 | 0.77 | 4.94 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 20 | 4.97 | 0.77 | 4.94 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 20 | 4.97 | 0.77 | 4.94 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 20 | 4.97 | 0.77 | 4.94 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 20 | 4.97 | 0.77 | 4.94 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 20 | 4.97 | 0.77 | 4.94 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 20 | 4.97 | 0.77 | 4.94 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 4.96 | 0.53 | 5.22 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 4.96 | 0.53 | 5.22 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 4.96 | 0.53 | 5.22 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 20 | 4.96 | 0.34 | 5.1 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 20 | 4.96 | 0.34 | 5.1 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 20 | 4.96 | 0.34 | 5.1 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 20 | 4.96 | 0.34 | 5.1 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 20 | 4.96 | 0.34 | 5.1 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 20 | 4.96 | 0.34 | 5.1 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 20 | 4.96 | 0.93 | 5.15 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 20 | 4.96 | 0.93 | 5.15 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 20 | 4.96 | 0.93 | 5.15 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 4.96 | 0.37 | 4.9 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 4.96 | 0.37 | 4.9 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 20 | 4.96 | 0.14 | 4.93 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 4.96 | 0.37 | 4.9 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 4.96 | 0.37 | 4.9 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 20 | 4.96 | 0.47 | 4.78 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 20 | 4.96 | 0.74 | 4.7 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 20 | 4.96 | 0.85 | 4.71 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 20 | 4.96 | 0.85 | 4.71 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 20 | 4.95 | 0.7 | 4.86 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 20 | 4.95 | 0.7 | 4.86 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 20 | 4.95 | 0.7 | 4.86 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 20 | 4.95 | 0.43 | 4.87 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 20 | 4.95 | 1.4 | 4.86 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 20 | 4.95 | 1.4 | 4.86 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 20 | 4.95 | 1.4 | 4.86 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 20 | 4.95 | 1.4 | 4.86 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 20 | 4.95 | 0.83 | 4.68 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 20 | 4.95 | 0.58 | 4.94 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 20 | 4.95 | 0.58 | 4.94 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 20 | 4.95 | 0.58 | 4.94 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 20 | 4.95 | 0.85 | 5.26 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 20 | 4.95 | 1.24 | 4.34 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 20 | 4.95 | 1.24 | 4.34 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 20 | 4.95 | 0.95 | 5.11 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 20 | 4.95 | 0.95 | 5.11 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 20 | 4.95 | 0.95 | 5.11 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 4.94 | 0.7 | 4.72 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 20 | 4.94 | 0.88 | 5.18 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 20 | 4.94 | 0.88 | 5.18 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 20 | 4.94 | 0.88 | 5.18 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 20 | 4.94 | 0.88 | 5.18 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 20 | 4.94 | 0.88 | 5.18 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 20 | 4.94 | 0.88 | 5.18 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 20 | 4.94 | 0.88 | 5.18 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 20 | 4.94 | 0.88 | 5.18 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 20 | 4.94 | 0.88 | 5.18 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 20 | 4.94 | 0.88 | 5.18 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 20 | 4.94 | 0.88 | 5.18 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 20 | 4.94 | 0.88 | 5.18 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 20 | 4.94 | 0.7 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 20 | 4.94 | 0.7 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 20 | 4.94 | 0.7 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 20 | 4.94 | 0.7 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 20 | 4.94 | 0.7 | 4.78 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 20 | 4.94 | 0.7 | 4.78 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 20 | 4.94 | 0.72 | 5.1 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 20 | 4.94 | 0.72 | 5.1 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 20 | 4.94 | 0.72 | 5.1 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 4.94 | 0.65 | 4.93 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 4.94 | 0.65 | 4.93 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 4.94 | 0.65 | 4.93 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 4.94 | 0.54 | 4.89 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 4.94 | 0.54 | 4.89 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 4.94 | 0.54 | 4.89 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 4.94 | 0.54 | 4.89 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 4.94 | 0.68 | 4.96 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 20 | 4.94 | 0.91 | 4.72 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 20 | 4.94 | 0.3 | 4.92 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 20 | 4.94 | 0.3 | 4.92 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 20 | 4.94 | 0.3 | 4.92 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 4.94 | 1.85 | 4.36 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 4.94 | 1.85 | 4.36 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 4.94 | 1.85 | 4.36 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 20 | 4.94 | 0.3 | 4.92 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 20 | 4.94 | 0.3 | 4.92 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 20 | 4.94 | 0.3 | 4.92 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 20 | 4.94 | 0.2 | 5.0 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 20 | 4.94 | 0.2 | 5.0 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 20 | 4.94 | 0.2 | 5.0 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 20 | 4.94 | 1.05 | 4.89 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 20 | 4.94 | 1.27 | 4.64 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 20 | 4.94 | 1.27 | 4.64 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 20 | 4.94 | 1.27 | 4.64 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 20 | 4.94 | 1.27 | 4.64 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 20 | 4.94 | 0.92 | 4.86 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 20 | 4.94 | 0.92 | 4.86 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 20 | 4.94 | 0.92 | 4.86 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 20 | 4.94 | 0.92 | 4.86 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 20 | 4.94 | 0.92 | 4.86 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 20 | 4.94 | 0.92 | 4.86 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 20 | 4.94 | 0.92 | 4.82 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 20 | 4.94 | 0.92 | 4.82 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 20 | 4.94 | 0.92 | 4.82 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 20 | 4.94 | 0.92 | 4.82 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 20 | 4.94 | 0.92 | 4.82 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 20 | 4.94 | 0.92 | 4.82 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 20 | 4.94 | 1.02 | 5.0 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 4.94 | 1.02 | 5.0 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 20 | 4.94 | 1.02 | 5.0 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 20 | 4.93 | 1.1 | 4.7 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 20 | 4.93 | 1.1 | 4.7 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 20 | 4.93 | 1.1 | 4.7 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 20 | 4.93 | 0.29 | 4.99 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 20 | 4.93 | 0.29 | 4.99 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 20 | 4.93 | 0.29 | 4.99 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 20 | 4.93 | 0.98 | 4.57 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 20 | 4.93 | 0.98 | 4.57 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 20 | 4.93 | 0.81 | 4.64 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 20 | 4.93 | 0.81 | 4.64 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 20 | 4.93 | 0.62 | 4.8 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 20 | 4.93 | 0.62 | 4.8 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 20 | 4.93 | 0.62 | 4.8 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 4.93 | 0.46 | 4.88 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 4.93 | 0.46 | 4.88 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 4.93 | 0.46 | 4.88 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 4.93 | 0.46 | 4.88 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 4.93 | 0.46 | 4.88 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 4.93 | 0.46 | 4.88 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 4.93 | 0.29 | 4.99 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 20 | 4.93 | 1.27 | 4.42 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 4.93 | 1.27 | 4.42 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 4.93 | 1.27 | 4.42 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 4.93 | 1.27 | 4.42 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 20 | 4.93 | 0.59 | 4.81 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 20 | 4.93 | 0.59 | 4.81 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 20 | 4.93 | 0.59 | 4.81 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 20 | 4.93 | 0.59 | 4.81 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 20 | 4.93 | 0.87 | 4.73 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 20 | 4.93 | 1.22 | 5.55 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 20 | 4.93 | 1.22 | 5.55 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 20 | 4.92 | 0.76 | 5.0 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 20 | 4.92 | 0.76 | 5.0 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 20 | 4.92 | 0.76 | 5.0 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 4.92 | 1.41 | 4.92 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 4.92 | 1.41 | 4.92 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 4.92 | 0.63 | 4.82 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 20 | 4.92 | 0.85 | 4.77 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 20 | 4.92 | 0.85 | 4.77 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 20 | 4.92 | 0.85 | 4.77 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 4.92 | 0.79 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 4.92 | 0.79 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 4.92 | 0.79 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 4.92 | 0.79 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 4.92 | 0.79 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 4.92 | 0.79 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 4.92 | 0.79 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 4.92 | 0.79 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 4.92 | 0.79 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 4.92 | 0.79 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 4.92 | 0.79 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 4.92 | 0.79 | 5.0 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 4.92 | 0.25 | 4.88 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 4.92 | 0.6 | 4.86 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 4.92 | 0.6 | 4.86 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 4.92 | 0.6 | 4.86 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 4.91 | 1.48 | 4.84 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 4.91 | 1.48 | 4.84 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 4.91 | 1.48 | 4.84 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 4.91 | 1.27 | 4.55 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 20 | 4.91 | 0.76 | 4.62 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 20 | 4.91 | 0.76 | 4.62 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 20 | 4.91 | 0.63 | 4.88 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 20 | 4.91 | 0.86 | 4.85 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 20 | 4.91 | 0.86 | 4.85 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 20 | 4.91 | 0.86 | 4.85 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 4.91 | 1.56 | 4.38 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 20 | 4.91 | 1.45 | 4.97 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 20 | 4.9 | 0.69 | 4.91 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 20 | 4.9 | 1.83 | 4.18 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 20 | 4.9 | 1.83 | 4.18 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 4.9 | 0.67 | 4.99 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 4.9 | 0.67 | 4.99 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 4.9 | 0.67 | 4.99 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 4.9 | 0.66 | 5.07 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 4.9 | 0.66 | 5.07 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 4.9 | 0.66 | 5.07 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 4.9 | 0.66 | 5.07 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 20 | 4.9 | 0.75 | 5.01 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 20 | 4.9 | 0.76 | 4.96 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 20 | 4.9 | 0.76 | 4.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 20 | 4.9 | 0.76 | 4.96 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 20 | 4.9 | 0.83 | 4.78 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 20 | 4.9 | 1.01 | 4.66 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 20 | 4.9 | 1.01 | 4.66 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 20 | 4.9 | 1.01 | 4.66 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 4.9 | 1.05 | 4.34 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 4.9 | 1.05 | 4.34 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 4.9 | 1.05 | 4.34 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 4.9 | 0.8 | 5.06 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 4.9 | 0.8 | 5.06 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 4.9 | 0.8 | 5.06 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 20 | 4.9 | 1.58 | 4.46 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 20 | 4.9 | 0.57 | 4.8 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 20 | 4.9 | 0.57 | 4.8 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 20 | 4.9 | 0.57 | 4.8 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 20 | 4.9 | 0.57 | 4.8 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 20 | 4.9 | 0.72 | 4.9 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 20 | 4.9 | 0.72 | 4.9 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 20 | 4.9 | 0.72 | 4.9 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 20 | 4.9 | 1.32 | 5.06 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 20 | 4.9 | 1.32 | 5.06 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 20 | 4.9 | 0.37 | 4.78 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 20 | 4.9 | 0.37 | 4.78 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 20 | 4.9 | 0.37 | 4.78 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 20 | 4.9 | 0.37 | 4.78 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 20 | 4.89 | 0.16 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 20 | 4.89 | 0.16 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 20 | 4.89 | 0.16 | 4.96 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 20 | 4.89 | 1.84 | 4.02 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 20 | 4.89 | 1.84 | 4.02 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 20 | 4.89 | 1.84 | 4.02 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 20 | 4.89 | 0.89 | 4.88 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 20 | 4.89 | 0.24 | 4.85 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 20 | 4.89 | 0.24 | 4.85 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 20 | 4.89 | 0.44 | 4.89 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 20 | 4.89 | 0.44 | 4.89 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 20 | 4.89 | 0.44 | 4.89 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 20 | 4.89 | 0.44 | 4.89 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 20 | 4.89 | 0.44 | 4.89 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 20 | 4.89 | 0.44 | 4.89 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 20 | 4.89 | 1.03 | 4.68 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 20 | 4.89 | 1.03 | 4.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 20 | 4.89 | 1.03 | 4.68 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 4.89 | 1.02 | 4.76 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 4.89 | 1.02 | 4.76 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 4.89 | 1.02 | 4.76 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 4.89 | 1.02 | 4.76 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 4.89 | 1.02 | 4.76 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 4.89 | 1.02 | 4.76 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 4.89 | 1.02 | 4.76 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 4.89 | 1.02 | 4.76 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 20 | 4.89 | 0.77 | 4.88 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 20 | 4.89 | 0.77 | 4.88 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 20 | 4.89 | 0.77 | 4.88 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 20 | 4.88 | 1.09 | 4.43 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 4.88 | 0.52 | 4.81 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 20 | 4.88 | 1.09 | 4.43 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 20 | 4.88 | 0.57 | 4.77 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 20 | 4.88 | 0.57 | 4.77 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 20 | 4.88 | 0.57 | 4.77 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 20 | 4.88 | 0.57 | 4.77 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 20 | 4.88 | 0.57 | 4.77 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 20 | 4.88 | 0.57 | 4.77 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 20 | 4.88 | 0.84 | 5.0 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 20 | 4.88 | 0.84 | 5.0 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 20 | 4.88 | 0.38 | 4.84 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 20 | 4.88 | 0.38 | 4.84 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 20 | 4.88 | 0.38 | 4.84 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 20 | 4.88 | 0.38 | 4.84 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 20 | 4.88 | 0.38 | 4.84 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 20 | 4.88 | 0.38 | 4.84 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 20 | 4.88 | 0.98 | 4.64 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 4.88 | 0.54 | 4.86 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 20 | 4.88 | 0.76 | 4.96 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 20 | 4.88 | 0.76 | 4.96 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 20 | 4.88 | 0.76 | 4.96 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 20 | 4.88 | 0.51 | 4.73 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 20 | 4.88 | 0.51 | 4.73 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 20 | 4.88 | 0.51 | 4.73 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 20 | 4.88 | 0.51 | 4.73 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 20 | 4.88 | 0.51 | 4.73 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 20 | 4.88 | 0.51 | 4.73 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 20 | 4.88 | 0.42 | 4.63 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 20 | 4.88 | 0.42 | 4.63 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 4.88 | 0.91 | 5.02 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 20 | 4.88 | 1.18 | 5.01 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 20 | 4.88 | 1.18 | 5.01 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 20 | 4.88 | 1.18 | 5.01 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 20 | 4.88 | 0.42 | 4.86 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 20 | 4.88 | 0.42 | 4.86 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 20 | 4.88 | 0.42 | 4.86 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 20 | 4.88 | 0.42 | 4.86 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 20 | 4.88 | 0.42 | 4.86 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 20 | 4.88 | 0.42 | 4.86 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 20 | 4.88 | 0.28 | 4.8 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 4.88 | 0.56 | 5.02 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 4.88 | 0.85 | 5.15 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 4.88 | 0.85 | 5.15 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 4.88 | 0.85 | 5.15 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 4.88 | 1.18 | 4.46 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 4.88 | 1.18 | 4.46 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 4.88 | 1.18 | 4.46 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 4.88 | 1.18 | 4.46 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 4.88 | 1.18 | 4.46 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 4.88 | 1.18 | 4.46 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 20 | 4.88 | 1.19 | 4.62 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 20 | 4.88 | 1.19 | 4.62 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 4.88 | 1.18 | 4.46 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 4.88 | 1.18 | 4.46 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 4.88 | 1.18 | 4.46 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 4.88 | 1.18 | 4.46 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 4.88 | 1.18 | 4.46 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 4.88 | 1.18 | 4.46 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 20 | 4.88 | 0.23 | 4.85 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 20 | 4.87 | 1.61 | 4.59 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 20 | 4.87 | 0.79 | 5.02 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 20 | 4.87 | 0.79 | 5.02 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 4.87 | 1.21 | 4.72 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 4.87 | 1.21 | 4.72 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 20 | 4.87 | 0.42 | 4.81 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 20 | 4.87 | 0.42 | 4.81 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 20 | 4.87 | 0.42 | 4.81 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 20 | 4.87 | 0.42 | 4.81 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 20 | 4.87 | 0.42 | 4.81 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 20 | 4.87 | 0.42 | 4.81 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 20 | 4.86 | 2.02 | 4.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 20 | 4.86 | 2.02 | 4.26 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 20 | 4.86 | 2.02 | 4.26 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 20 | 4.86 | 2.02 | 4.26 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 20 | 4.86 | 2.02 | 4.26 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 20 | 4.86 | 2.02 | 4.26 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 20 | 4.86 | 0.35 | 4.84 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 4.86 | 0.46 | 4.97 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 4.86 | 0.6 | 4.88 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 4.86 | 0.6 | 4.88 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 4.86 | 0.6 | 4.88 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 4.86 | 0.6 | 4.88 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 4.86 | 0.6 | 4.88 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 4.86 | 0.6 | 4.88 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 4.86 | 0.6 | 4.88 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 4.86 | 0.6 | 4.88 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 4.86 | 0.6 | 4.88 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 4.86 | 0.6 | 4.88 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 4.86 | 0.6 | 4.88 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 4.86 | 0.6 | 4.88 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 4.86 | 1.07 | 5.12 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 20 | 4.86 | 1.3 | 5.12 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 20 | 4.86 | 1.3 | 5.12 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 20 | 4.86 | 1.3 | 5.12 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 20 | 4.86 | 1.3 | 5.12 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 20 | 4.86 | 1.3 | 5.12 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 20 | 4.86 | 1.3 | 5.12 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 20 | 4.86 | 0.28 | 4.81 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 20 | 4.86 | 0.28 | 4.81 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 20 | 4.86 | 0.28 | 4.81 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 4.86 | 1.01 | 4.65 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 20 | 4.86 | 0.24 | 4.86 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 20 | 4.86 | 0.84 | 4.94 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 20 | 4.85 | 1.35 | 4.19 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 20 | 4.85 | 0.25 | 4.77 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 4.85 | 0.7 | 4.88 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 4.85 | 0.7 | 4.88 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 4.85 | 0.7 | 4.88 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 4.85 | 0.7 | 4.88 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 4.85 | 0.7 | 4.88 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 4.85 | 0.7 | 4.88 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 4.85 | 0.7 | 4.88 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 4.85 | 0.7 | 4.88 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 4.85 | 0.7 | 4.88 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 4.85 | 0.7 | 4.88 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 4.85 | 0.7 | 4.88 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 4.85 | 0.7 | 4.88 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 20 | 4.85 | 0.33 | 4.86 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 20 | 4.85 | 0.67 | 4.89 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 20 | 4.85 | 0.67 | 4.89 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 4.85 | 0.98 | 4.64 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 4.85 | 0.78 | 4.85 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 4.85 | 0.78 | 4.85 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 20 | 4.85 | 0.62 | 4.61 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 20 | 4.85 | 0.66 | 4.79 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 20 | 4.85 | 0.66 | 4.79 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 20 | 4.85 | 0.66 | 4.79 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 20 | 4.85 | 0.63 | 4.94 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 20 | 4.85 | 0.63 | 4.94 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 4.84 | 0.57 | 4.69 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 4.84 | 0.57 | 4.69 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 4.84 | 0.57 | 4.69 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 4.84 | 0.57 | 4.69 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 4.84 | 0.57 | 4.69 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 4.84 | 0.57 | 4.69 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 4.84 | 0.67 | 4.81 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 4.84 | 0.67 | 4.81 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 4.84 | 0.67 | 4.81 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 4.84 | 0.67 | 4.81 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 20 | 4.84 | 1.2 | 4.26 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 20 | 4.84 | 1.2 | 4.26 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 20 | 4.84 | 1.2 | 4.26 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 20 | 4.84 | 1.2 | 4.26 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 20 | 4.84 | 1.2 | 4.26 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 20 | 4.84 | 1.2 | 4.26 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 20 | 4.84 | 1.2 | 4.26 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 20 | 4.84 | 1.2 | 4.26 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 20 | 4.84 | 0.32 | 4.98 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 20 | 4.84 | 0.32 | 4.98 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 20 | 4.84 | 0.32 | 4.98 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 20 | 4.84 | 0.22 | 4.76 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 20 | 4.84 | 0.22 | 4.76 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 20 | 4.84 | 0.53 | 4.86 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 20 | 4.84 | 0.53 | 4.86 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 20 | 4.84 | 0.53 | 4.86 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 20 | 4.84 | 3.24 | 6.17 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 20 | 4.84 | 0.85 | 4.78 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 20 | 4.84 | 0.85 | 4.78 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 20 | 4.84 | 0.85 | 4.78 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 4.84 | 0.46 | 4.83 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 4.84 | 0.46 | 4.83 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 4.84 | 0.46 | 4.83 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 4.84 | 0.46 | 4.83 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 20 | 4.84 | 0.74 | 4.56 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 20 | 4.84 | 0.74 | 4.56 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 20 | 4.83 | 0.57 | 4.78 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 20 | 4.83 | 0.57 | 4.78 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 20 | 4.83 | 0.57 | 4.78 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 20 | 4.83 | 0.57 | 4.78 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 20 | 4.83 | 0.57 | 4.78 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 20 | 4.83 | 0.57 | 4.78 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 20 | 4.83 | 0.42 | 4.77 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 20 | 4.83 | 0.42 | 4.77 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 20 | 4.83 | 0.42 | 4.77 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 20 | 4.83 | 0.57 | 4.98 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 20 | 4.83 | 0.64 | 4.52 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 20 | 4.83 | 0.64 | 4.52 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 20 | 4.83 | 1.35 | 4.69 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 20 | 4.83 | 1.35 | 4.69 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 20 | 4.83 | 1.35 | 4.69 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 20 | 4.83 | 1.35 | 4.69 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 20 | 4.83 | 1.35 | 4.69 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 20 | 4.83 | 1.35 | 4.69 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 20 | 4.83 | 0.88 | 5.24 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 20 | 4.83 | 0.88 | 5.24 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 20 | 4.83 | 0.88 | 5.24 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 20 | 4.83 | 0.88 | 5.24 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 20 | 4.83 | 0.69 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 20 | 4.83 | 0.69 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 20 | 4.83 | 0.69 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 20 | 4.83 | 0.69 | 4.52 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 4.83 | 0.63 | 4.82 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 20 | 4.83 | 0.83 | 4.54 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 20 | 4.83 | 0.83 | 4.54 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 4.83 | 1.09 | 4.3 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 4.83 | 1.09 | 4.3 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 4.83 | 1.09 | 4.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 20 | 4.83 | 0.73 | 4.41 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 20 | 4.83 | 0.73 | 4.41 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 20 | 4.82 | 0.25 | 4.87 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 4.82 | 0.22 | 4.8 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 4.82 | 0.22 | 4.8 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 20 | 4.82 | 0.17 | 4.81 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 20 | 4.82 | 0.17 | 4.81 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 20 | 4.82 | 0.17 | 4.81 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 4.82 | 1.63 | 4.57 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 4.82 | 0.3 | 4.89 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 20 | 4.82 | 0.44 | 4.81 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 20 | 4.82 | 0.44 | 4.94 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 20 | 4.82 | 0.44 | 4.94 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 20 | 4.82 | 0.44 | 4.94 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 20 | 4.82 | 0.44 | 4.94 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 20 | 4.82 | 0.44 | 4.94 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 20 | 4.82 | 0.44 | 4.94 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 20 | 4.82 | 1.18 | 4.36 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 20 | 4.82 | 1.18 | 4.36 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 20 | 4.82 | 0.15 | 4.78 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 20 | 4.82 | 0.66 | 4.69 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 20 | 4.82 | 0.66 | 4.69 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 20 | 4.82 | 1.09 | 4.38 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 20 | 4.82 | 1.09 | 4.38 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 20 | 4.82 | 1.74 | 5.26 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 20 | 4.82 | 0.4 | 4.79 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 20 | 4.82 | 0.4 | 4.79 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 20 | 4.82 | 0.4 | 4.79 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 20 | 4.82 | 0.4 | 4.79 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 20 | 4.82 | 0.4 | 4.79 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 20 | 4.82 | 0.4 | 4.79 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 20 | 4.81 | 0.92 | 5.37 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 20 | 4.81 | 0.92 | 5.37 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 20 | 4.81 | 1.12 | 4.8 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 20 | 4.81 | 1.12 | 4.8 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 4.81 | 0.56 | 4.96 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 4.81 | 0.56 | 4.96 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 20 | 4.81 | 0.58 | 4.68 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 20 | 4.81 | 0.58 | 4.68 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 20 | 4.81 | 0.58 | 4.68 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 20 | 4.81 | 0.58 | 4.68 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 20 | 4.81 | 0.58 | 4.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 20 | 4.81 | 0.58 | 4.68 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 20 | 4.81 | 0.58 | 4.68 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 20 | 4.81 | 0.58 | 4.68 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 20 | 4.81 | 0.58 | 4.68 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 4.81 | 1.12 | 4.98 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 20 | 4.81 | 0.31 | 4.78 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 20 | 4.81 | 0.31 | 4.78 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 20 | 4.8 | 1.42 | 5.04 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 20 | 4.8 | 0.95 | 4.51 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 20 | 4.8 | 0.95 | 4.51 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 20 | 4.8 | 0.95 | 4.51 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 20 | 4.8 | 0.75 | 5.18 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 20 | 4.8 | 0.75 | 5.18 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 4.8 | 0.21 | 4.78 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 4.8 | 0.21 | 4.78 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 4.8 | 0.21 | 4.78 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 4.8 | 0.21 | 4.78 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 20 | 4.8 | 0.16 | 4.78 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 20 | 4.8 | 0.16 | 4.78 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 20 | 4.8 | 1.73 | 4.04 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 20 | 4.8 | 1.73 | 4.04 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 20 | 4.8 | 1.73 | 4.04 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 20 | 4.8 | 1.73 | 4.04 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 20 | 4.8 | 0.31 | 4.88 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 20 | 4.8 | 0.31 | 4.88 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 20 | 4.8 | 0.41 | 4.9 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 20 | 4.8 | 0.41 | 4.9 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 20 | 4.8 | 0.41 | 4.9 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 20 | 4.8 | 2.37 | 4.8 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 20 | 4.8 | 2.37 | 4.8 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 20 | 4.8 | 1.45 | 4.8 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 20 | 4.8 | 1.45 | 4.8 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 20 | 4.8 | 1.45 | 4.8 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 20 | 4.8 | 1.45 | 4.8 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 20 | 4.8 | 1.45 | 4.8 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 20 | 4.8 | 1.45 | 4.8 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 20 | 4.8 | 1.45 | 4.8 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 20 | 4.8 | 1.45 | 4.8 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 20 | 4.8 | 1.45 | 4.8 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 20 | 4.8 | 1.45 | 4.8 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 20 | 4.8 | 1.45 | 4.8 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 20 | 4.8 | 1.45 | 4.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 20 | 4.79 | 0.24 | 4.76 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 20 | 4.79 | 0.24 | 4.76 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 20 | 4.79 | 0.24 | 4.76 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 20 | 4.79 | 0.24 | 4.76 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 20 | 4.79 | 0.24 | 4.76 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 20 | 4.79 | 0.24 | 4.76 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 20 | 4.79 | 1.19 | 5.26 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 20 | 4.79 | 1.19 | 5.26 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 20 | 4.79 | 1.19 | 5.26 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 20 | 4.79 | 1.19 | 5.26 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 20 | 4.79 | 1.19 | 5.26 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 20 | 4.79 | 1.19 | 5.26 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 20 | 4.79 | 1.19 | 5.26 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 20 | 4.79 | 1.19 | 5.26 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 20 | 4.79 | 0.27 | 4.84 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 4.79 | 1.49 | 4.6 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 4.79 | 1.49 | 4.6 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 20 | 4.79 | 0.81 | 4.61 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 20 | 4.79 | 0.81 | 4.61 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 20 | 4.79 | 0.81 | 4.61 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 4.79 | 0.88 | 4.88 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 4.79 | 0.88 | 4.88 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 4.79 | 0.88 | 4.88 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 20 | 4.79 | 0.68 | 4.77 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 4.79 | 1.29 | 4.78 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 4.79 | 1.29 | 4.78 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 20 | 4.79 | 1.1 | 4.96 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 20 | 4.79 | 1.1 | 4.96 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 20 | 4.79 | 1.1 | 4.96 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 20 | 4.79 | 1.1 | 4.96 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 4.78 | 0.73 | 4.58 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 4.78 | 0.73 | 4.58 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 4.78 | 0.73 | 4.58 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 4.78 | 0.73 | 4.58 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 4.78 | 0.73 | 4.58 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 4.78 | 0.73 | 4.58 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 4.78 | 0.73 | 4.58 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 4.78 | 0.73 | 4.58 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 4.78 | 1.26 | 4.72 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 4.78 | 1.09 | 4.76 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 4.78 | 1.09 | 4.76 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 4.78 | 1.09 | 4.76 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 20 | 4.78 | 0.91 | 4.61 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 20 | 4.78 | 0.91 | 4.61 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 20 | 4.78 | 0.52 | 4.69 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 20 | 4.78 | 0.52 | 4.69 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 20 | 4.78 | 0.21 | 4.8 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 20 | 4.78 | 0.21 | 4.8 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 20 | 4.78 | 0.93 | 4.56 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 20 | 4.78 | 0.93 | 4.56 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 20 | 4.78 | 0.93 | 4.56 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 20 | 4.78 | 0.93 | 4.56 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 20 | 4.78 | 0.93 | 4.56 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 20 | 4.78 | 0.93 | 4.56 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 20 | 4.78 | 0.95 | 4.6 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 20 | 4.78 | 0.95 | 4.6 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 20 | 4.78 | 0.95 | 4.6 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 20 | 4.78 | 0.95 | 4.6 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 20 | 4.78 | 0.95 | 4.6 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 20 | 4.78 | 0.95 | 4.6 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 20 | 4.78 | 0.57 | 4.74 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 20 | 4.78 | 0.57 | 4.74 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 4.78 | 1.02 | 4.54 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 20 | 4.78 | 0.71 | 4.89 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 20 | 4.78 | 1.38 | 4.97 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 20 | 4.78 | 1.38 | 4.97 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 20 | 4.78 | 1.38 | 4.97 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 20 | 4.78 | 1.38 | 4.97 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 20 | 4.78 | 1.38 | 4.97 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 20 | 4.78 | 1.38 | 4.97 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 4.78 | 0.84 | 4.5 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 4.78 | 0.84 | 4.5 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 4.78 | 0.84 | 4.5 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 4.78 | 0.84 | 4.5 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 4.78 | 0.84 | 4.5 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 4.78 | 0.84 | 4.5 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 20 | 4.78 | 1.38 | 4.97 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 20 | 4.78 | 1.38 | 4.97 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 20 | 4.78 | 1.38 | 4.97 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 20 | 4.78 | 1.38 | 4.97 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 20 | 4.78 | 1.38 | 4.97 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 20 | 4.78 | 1.38 | 4.97 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 4.78 | 0.84 | 4.5 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 4.78 | 0.84 | 4.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 4.78 | 0.84 | 4.5 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 4.78 | 0.84 | 4.5 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 4.78 | 0.84 | 4.5 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 4.78 | 0.84 | 4.5 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 20 | 4.78 | 1.2 | 4.18 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 20 | 4.78 | 1.2 | 4.18 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 20 | 4.78 | 1.2 | 4.18 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 20 | 4.78 | 1.2 | 4.18 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 20 | 4.78 | 1.2 | 4.18 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 20 | 4.78 | 1.2 | 4.18 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 20 | 4.78 | 0.49 | 4.78 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 20 | 4.78 | 0.49 | 4.78 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 20 | 4.78 | 0.49 | 4.78 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 20 | 4.77 | 0.64 | 4.86 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 20 | 4.77 | 0.64 | 4.86 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 20 | 4.77 | 0.64 | 4.86 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 20 | 4.77 | 0.64 | 4.86 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 20 | 4.77 | 0.64 | 4.86 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 20 | 4.77 | 0.64 | 4.86 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 20 | 4.77 | 0.64 | 4.86 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 20 | 4.77 | 0.64 | 4.86 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 20 | 4.77 | 0.64 | 4.86 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 4.77 | 1.56 | 5.12 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 4.77 | 1.56 | 5.12 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 4.77 | 1.56 | 5.12 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 20 | 4.77 | 1.0 | 4.78 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 20 | 4.77 | 1.0 | 4.78 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 20 | 4.77 | 1.0 | 4.78 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 4.77 | 0.96 | 4.86 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 4.77 | 0.96 | 4.86 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 20 | 4.77 | 1.23 | 4.61 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 20 | 4.77 | 1.23 | 4.61 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 20 | 4.77 | 1.23 | 4.61 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 20 | 4.77 | 1.23 | 4.61 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 20 | 4.77 | 1.23 | 4.61 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 20 | 4.77 | 1.23 | 4.61 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 20 | 4.77 | 1.23 | 4.61 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 20 | 4.77 | 1.23 | 4.61 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 20 | 4.77 | 1.23 | 4.61 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 20 | 4.77 | 1.23 | 4.61 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 20 | 4.77 | 1.23 | 4.61 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 20 | 4.77 | 1.23 | 4.61 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 20 | 4.77 | 1.1 | 4.96 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 20 | 4.77 | 1.1 | 4.96 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 20 | 4.77 | 0.37 | 4.68 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 20 | 4.77 | 0.37 | 4.68 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 4.77 | 1.59 | 4.72 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 4.77 | 1.59 | 4.72 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 4.77 | 1.59 | 4.72 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 20 | 4.77 | 0.57 | 4.77 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 20 | 4.77 | 0.57 | 4.77 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 20 | 4.77 | 0.57 | 4.77 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 20 | 4.77 | 0.77 | 4.86 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 20 | 4.77 | 0.77 | 4.86 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 20 | 4.77 | 0.77 | 4.86 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 20 | 4.76 | 1.08 | 4.8 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 20 | 4.76 | 0.73 | 4.73 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 4.76 | 0.38 | 4.68 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 4.76 | 0.38 | 4.68 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 4.76 | 0.38 | 4.68 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 4.76 | 0.38 | 4.68 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 20 | 4.76 | 0.34 | 4.87 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 20 | 4.76 | 1.06 | 4.48 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 20 | 4.76 | 1.06 | 4.48 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 20 | 4.76 | 1.06 | 4.48 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 20 | 4.76 | 1.02 | 4.34 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 20 | 4.76 | 1.02 | 4.34 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 20 | 4.76 | 1.02 | 4.34 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 20 | 4.76 | 1.01 | 4.66 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 20 | 4.76 | 1.01 | 4.66 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 20 | 4.76 | 1.01 | 4.66 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 20 | 4.76 | 1.01 | 4.66 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 20 | 4.76 | 1.01 | 4.66 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 20 | 4.76 | 1.01 | 4.66 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 20 | 4.76 | 1.01 | 4.66 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 20 | 4.76 | 1.01 | 4.66 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 20 | 4.76 | 1.01 | 4.66 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 20 | 4.76 | 0.57 | 4.62 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 20 | 4.76 | 0.57 | 4.62 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 20 | 4.76 | 0.57 | 4.62 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 20 | 4.76 | 0.57 | 4.62 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 20 | 4.76 | 0.57 | 4.62 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 20 | 4.76 | 0.57 | 4.62 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 20 | 4.76 | 1.68 | 4.1 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 20 | 4.75 | 1.21 | 4.38 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 20 | 4.75 | 0.46 | 4.57 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 20 | 4.75 | 0.46 | 4.57 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 20 | 4.75 | 0.46 | 4.57 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 20 | 4.75 | 0.46 | 4.57 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 20 | 4.75 | 0.46 | 4.57 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 20 | 4.75 | 0.46 | 4.57 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 20 | 4.75 | 0.46 | 4.57 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 20 | 4.75 | 0.46 | 4.57 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 20 | 4.75 | 0.46 | 4.57 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 20 | 4.75 | 0.96 | 4.78 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 4.75 | 0.96 | 4.78 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 20 | 4.75 | 1.07 | 4.38 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 20 | 4.75 | 0.16 | 4.84 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 20 | 4.75 | 0.16 | 4.84 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 20 | 4.75 | 1.01 | 4.64 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 20 | 4.75 | 1.01 | 4.64 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 20 | 4.75 | 1.01 | 4.64 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 20 | 4.75 | 1.01 | 4.64 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 20 | 4.75 | 1.01 | 4.64 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 20 | 4.75 | 1.01 | 4.64 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 20 | 4.75 | 1.13 | 4.74 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 20 | 4.75 | 1.13 | 4.74 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 20 | 4.75 | 1.13 | 4.74 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 20 | 4.75 | 1.13 | 4.74 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 20 | 4.75 | 1.13 | 4.74 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 20 | 4.75 | 1.13 | 4.74 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 20 | 4.75 | 0.68 | 4.73 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 20 | 4.75 | 1.13 | 4.74 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 20 | 4.75 | 1.13 | 4.74 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 20 | 4.75 | 1.13 | 4.74 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 20 | 4.75 | 1.13 | 4.74 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 20 | 4.75 | 1.13 | 4.74 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 20 | 4.75 | 1.13 | 4.74 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 20 | 4.75 | 0.07 | 4.75 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 20 | 4.75 | 0.07 | 4.75 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 20 | 4.75 | 0.07 | 4.75 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 20 | 4.75 | 0.48 | 4.67 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 20 | 4.75 | 0.48 | 4.67 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 20 | 4.75 | 0.48 | 4.67 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 20 | 4.74 | 0.03 | 4.75 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 20 | 4.74 | 0.53 | 4.69 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 20 | 4.74 | 0.52 | 4.8 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 20 | 4.74 | 0.52 | 4.8 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 20 | 4.74 | 0.52 | 4.8 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 4.74 | 0.29 | 4.8 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 20 | 4.74 | 0.81 | 4.43 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 20 | 4.74 | 0.81 | 4.43 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 20 | 4.74 | 0.81 | 4.43 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 20 | 4.74 | 0.81 | 4.43 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 20 | 4.74 | 0.81 | 4.43 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 20 | 4.74 | 0.81 | 4.43 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 20 | 4.74 | 1.15 | 4.37 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 4.74 | 1.15 | 4.37 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 20 | 4.74 | 1.15 | 4.37 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 4.74 | 1.15 | 4.37 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 20 | 4.74 | 1.15 | 4.37 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 4.74 | 1.15 | 4.37 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 20 | 4.74 | 1.15 | 4.37 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 4.74 | 1.15 | 4.37 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 20 | 4.74 | 1.15 | 4.37 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 4.74 | 1.15 | 4.37 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 20 | 4.74 | 1.15 | 4.37 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 4.74 | 1.15 | 4.37 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 20 | 4.74 | 1.52 | 4.28 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 20 | 4.74 | 1.52 | 4.28 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 20 | 4.74 | 0.88 | 4.65 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 4.74 | 0.88 | 4.65 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 20 | 4.74 | 0.88 | 4.65 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 4.74 | 0.88 | 4.65 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 20 | 4.74 | 0.95 | 4.59 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 20 | 4.74 | 0.95 | 4.59 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 20 | 4.74 | 0.95 | 4.59 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 20 | 4.74 | 0.95 | 4.59 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 20 | 4.74 | 0.95 | 4.59 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 20 | 4.74 | 0.95 | 4.59 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 20 | 4.74 | 0.95 | 4.59 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 20 | 4.74 | 0.95 | 4.59 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 20 | 4.74 | 0.95 | 4.59 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 4.73 | 0.61 | 4.61 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 20 | 4.73 | 0.47 | 4.72 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 20 | 4.73 | 0.17 | 4.75 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 20 | 4.73 | 0.92 | 4.62 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 20 | 4.73 | 0.92 | 4.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 20 | 4.73 | 0.72 | 4.86 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 20 | 4.72 | 0.58 | 4.56 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 20 | 4.72 | 0.58 | 4.56 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 20 | 4.72 | 0.39 | 4.78 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 20 | 4.72 | 0.67 | 4.53 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 20 | 4.72 | 0.67 | 4.53 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 20 | 4.72 | 0.11 | 4.7 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 20 | 4.72 | 0.69 | 4.7 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 20 | 4.72 | 0.69 | 4.7 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 20 | 4.72 | 0.69 | 4.7 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 20 | 4.72 | 1.1 | 4.41 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 20 | 4.72 | 1.1 | 4.41 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 20 | 4.72 | 0.39 | 4.86 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 20 | 4.72 | 0.39 | 4.86 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 4.72 | 1.45 | 4.31 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 4.72 | 1.45 | 4.31 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 4.72 | 1.45 | 4.31 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 4.72 | 1.45 | 4.31 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 4.72 | 1.45 | 4.31 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 4.72 | 1.45 | 4.31 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 20 | 4.72 | 0.73 | 4.69 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 20 | 4.72 | 0.9 | 5.08 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 20 | 4.72 | 1.24 | 5.14 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 4.72 | 1.0 | 4.62 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 4.72 | 1.0 | 4.62 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 20 | 4.72 | 0.45 | 4.74 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 20 | 4.72 | 0.45 | 4.74 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 20 | 4.72 | 0.24 | 4.66 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 20 | 4.71 | 1.18 | 4.72 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 20 | 4.71 | 1.18 | 4.72 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 20 | 4.71 | 1.18 | 4.72 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 20 | 4.71 | 1.18 | 4.72 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 20 | 4.71 | 1.18 | 4.72 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 20 | 4.71 | 1.18 | 4.72 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 4.71 | 1.31 | 4.62 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 20 | 4.71 | 1.11 | 4.84 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 20 | 4.71 | 1.11 | 4.84 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 20 | 4.71 | 1.11 | 4.84 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 20 | 4.71 | 0.35 | 4.74 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 20 | 4.71 | 0.58 | 4.68 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 4.71 | 0.25 | 4.81 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 4.71 | 0.47 | 4.64 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 4.71 | 0.47 | 4.64 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 4.71 | 0.47 | 4.64 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 4.71 | 0.47 | 4.64 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 4.71 | 0.47 | 4.64 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 4.71 | 0.47 | 4.64 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 4.71 | 0.7 | 4.96 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 20 | 4.71 | 1.54 | 4.64 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 20 | 4.71 | 1.54 | 4.64 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 20 | 4.71 | 1.54 | 4.64 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 4.71 | 0.7 | 4.96 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 20 | 4.71 | 0.49 | 4.61 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 20 | 4.71 | 0.49 | 4.61 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 4.71 | 1.56 | 4.63 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 4.71 | 1.56 | 4.63 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 20 | 4.71 | 0.73 | 4.68 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 20 | 4.71 | 0.73 | 4.68 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 20 | 4.71 | 4.22 | 2.52 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 20 | 4.71 | 0.63 | 4.63 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 20 | 4.71 | 0.63 | 4.63 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 20 | 4.71 | 0.63 | 4.63 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 20 | 4.71 | 0.78 | 4.54 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 20 | 4.71 | 0.78 | 4.54 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 20 | 4.71 | 0.78 | 4.54 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 20 | 4.71 | 0.78 | 4.54 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 20 | 4.7 | 0.76 | 5.04 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 20 | 4.7 | 0.93 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 20 | 4.7 | 0.93 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 20 | 4.7 | 0.93 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 20 | 4.7 | 0.93 | 4.78 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 4.7 | 1.06 | 4.49 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 20 | 4.7 | 0.76 | 5.04 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 20 | 4.7 | 0.93 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 20 | 4.7 | 0.93 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 20 | 4.7 | 0.93 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 20 | 4.7 | 0.93 | 4.78 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 20 | 4.7 | 1.35 | 4.87 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 20 | 4.7 | 1.35 | 4.87 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 20 | 4.7 | 1.35 | 4.87 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 20 | 4.7 | 0.18 | 4.7 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 20 | 4.7 | 1.04 | 4.22 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 20 | 4.7 | 1.04 | 4.22 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 20 | 4.7 | 1.04 | 4.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 20 | 4.7 | 1.04 | 4.22 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 20 | 4.7 | 1.04 | 4.22 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 20 | 4.7 | 1.04 | 4.22 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 20 | 4.7 | 1.04 | 4.22 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 20 | 4.7 | 1.04 | 4.22 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 20 | 4.7 | 1.04 | 4.22 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 20 | 4.7 | 1.04 | 4.22 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 20 | 4.7 | 1.04 | 4.22 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 20 | 4.7 | 1.04 | 4.22 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 20 | 4.7 | 0.31 | 4.71 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 20 | 4.7 | 0.79 | 5.0 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 20 | 4.7 | 0.79 | 5.0 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 4.7 | 0.95 | 4.36 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 4.7 | 0.95 | 4.36 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 20 | 4.7 | 0.81 | 4.73 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 20 | 4.7 | 0.81 | 4.73 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 20 | 4.7 | 0.81 | 4.73 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 20 | 4.7 | 0.51 | 4.56 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 4.7 | 1.39 | 4.94 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 4.7 | 1.39 | 4.94 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 4.7 | 1.39 | 4.94 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 20 | 4.7 | 0.06 | 4.71 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 20 | 4.7 | 0.06 | 4.71 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 20 | 4.69 | 0.87 | 4.9 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 20 | 4.69 | 0.87 | 4.9 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 20 | 4.69 | 0.87 | 4.9 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 20 | 4.69 | 0.35 | 4.69 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 20 | 4.69 | 0.35 | 4.69 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 20 | 4.69 | 0.35 | 4.69 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 20 | 4.69 | 1.37 | 3.92 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 20 | 4.69 | 1.37 | 3.92 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 20 | 4.69 | 0.87 | 4.86 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 20 | 4.69 | 0.87 | 4.86 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 20 | 4.69 | 0.87 | 4.86 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 20 | 4.69 | 0.87 | 4.86 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 20 | 4.69 | 0.41 | 4.66 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 20 | 4.69 | 0.41 | 4.66 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 20 | 4.69 | 0.41 | 4.66 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 20 | 4.69 | 0.41 | 4.66 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 20 | 4.69 | 0.41 | 4.66 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 20 | 4.69 | 0.41 | 4.66 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 20 | 4.69 | 0.56 | 4.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 20 | 4.69 | 0.56 | 4.7 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 20 | 4.69 | 0.56 | 4.7 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 20 | 4.69 | 0.56 | 4.7 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 20 | 4.69 | 0.56 | 4.7 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 20 | 4.69 | 0.56 | 4.7 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 20 | 4.69 | 0.56 | 4.45 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 20 | 4.69 | 0.56 | 4.45 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 20 | 4.69 | 0.77 | 4.66 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 20 | 4.69 | 0.5 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 20 | 4.69 | 0.5 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 20 | 4.69 | 0.5 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 20 | 4.69 | 0.5 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 20 | 4.69 | 0.5 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 20 | 4.69 | 0.5 | 4.72 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 20 | 4.69 | 0.06 | 4.68 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 20 | 4.69 | 0.64 | 4.62 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 20 | 4.69 | 0.64 | 4.62 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 20 | 4.68 | 0.58 | 4.78 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 20 | 4.68 | 0.58 | 4.78 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 20 | 4.68 | 0.58 | 4.78 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 20 | 4.68 | 1.4 | 4.32 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 20 | 4.68 | 1.4 | 4.32 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 20 | 4.68 | 1.19 | 4.84 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 20 | 4.68 | 1.19 | 4.84 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 20 | 4.68 | 1.19 | 4.84 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 20 | 4.68 | 1.19 | 4.84 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 20 | 4.68 | 1.19 | 4.84 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 20 | 4.68 | 1.19 | 4.84 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 20 | 4.68 | 1.19 | 4.84 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 20 | 4.68 | 1.19 | 4.84 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 20 | 4.68 | 1.19 | 4.84 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 20 | 4.68 | 0.62 | 4.55 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 20 | 4.68 | 0.62 | 4.55 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 20 | 4.68 | 0.62 | 4.55 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 4.68 | 0.61 | 4.52 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 4.68 | 0.61 | 4.52 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 4.68 | 0.61 | 4.52 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 4.68 | 0.61 | 4.52 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 4.68 | 0.56 | 4.46 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 4.68 | 0.56 | 4.46 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 4.68 | 0.54 | 4.69 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 20 | 4.68 | 1.19 | 4.36 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 4.68 | 0.54 | 4.69 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 20 | 4.68 | 1.19 | 4.36 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 4.68 | 0.83 | 4.54 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 4.68 | 0.83 | 4.54 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 4.68 | 0.83 | 4.54 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 4.68 | 0.83 | 4.54 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 4.68 | 0.17 | 4.69 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 20 | 4.68 | 0.91 | 4.62 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 4.68 | 0.91 | 4.62 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 20 | 4.68 | 0.91 | 4.62 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 4.68 | 0.91 | 4.62 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 20 | 4.68 | 1.72 | 4.1 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 20 | 4.68 | 1.72 | 4.1 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 20 | 4.68 | 1.72 | 4.1 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 20 | 4.68 | 1.72 | 4.1 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 20 | 4.68 | 1.72 | 4.1 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 20 | 4.68 | 1.72 | 4.1 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 4.68 | 0.48 | 4.51 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 20 | 4.68 | 0.83 | 4.36 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 20 | 4.68 | 0.83 | 4.36 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 20 | 4.68 | 0.83 | 4.36 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 4.68 | 0.83 | 4.36 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 4.68 | 0.83 | 4.36 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 4.68 | 0.83 | 4.36 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 20 | 4.68 | 0.83 | 4.36 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 20 | 4.68 | 0.83 | 4.36 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 20 | 4.68 | 0.83 | 4.36 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 4.68 | 0.83 | 4.36 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 4.68 | 0.83 | 4.36 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 4.68 | 0.83 | 4.36 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 20 | 4.67 | 0.54 | 4.72 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 20 | 4.67 | 0.75 | 4.74 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 20 | 4.67 | 0.75 | 4.74 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 20 | 4.67 | 0.45 | 4.66 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 20 | 4.67 | 0.45 | 4.66 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 20 | 4.67 | 1.09 | 4.35 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 20 | 4.67 | 1.09 | 4.35 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 20 | 4.67 | 1.09 | 4.35 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 20 | 4.67 | 0.26 | 4.62 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 4.67 | 0.86 | 4.54 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 4.67 | 0.86 | 4.54 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 4.67 | 0.86 | 4.54 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 4.67 | 1.24 | 4.69 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 4.67 | 1.24 | 4.69 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 4.67 | 1.24 | 4.69 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 20 | 4.67 | 1.1 | 4.28 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 20 | 4.67 | 1.01 | 5.12 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 20 | 4.67 | 1.01 | 5.12 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 20 | 4.67 | 1.01 | 5.12 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 20 | 4.67 | 0.62 | 4.45 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 20 | 4.67 | 0.62 | 4.45 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 20 | 4.67 | 0.4 | 4.48 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 20 | 4.67 | 0.4 | 4.48 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 20 | 4.67 | 0.4 | 4.48 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 20 | 4.67 | 0.4 | 4.48 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 4.66 | 1.49 | 3.78 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 4.66 | 1.49 | 3.78 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 20 | 4.66 | 0.27 | 4.54 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 20 | 4.66 | 0.54 | 4.54 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 20 | 4.66 | 0.54 | 4.54 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 20 | 4.66 | 0.7 | 4.56 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 20 | 4.66 | 0.7 | 4.56 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 20 | 4.66 | 0.7 | 4.56 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 20 | 4.66 | 0.7 | 4.56 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 20 | 4.66 | 0.7 | 4.56 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 20 | 4.66 | 0.7 | 4.56 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 20 | 4.66 | 1.09 | 4.69 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 20 | 4.66 | 1.09 | 4.69 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 20 | 4.66 | 1.09 | 4.69 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 20 | 4.66 | 1.09 | 4.69 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 4.66 | 0.61 | 4.7 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 4.66 | 0.93 | 5.14 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 20 | 4.66 | 0.41 | 4.6 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 20 | 4.66 | 0.41 | 4.6 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 4.66 | 1.33 | 4.63 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 4.66 | 0.71 | 4.72 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 4.66 | 0.71 | 4.72 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 4.66 | 0.71 | 4.72 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 4.66 | 0.71 | 4.72 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 4.66 | 0.71 | 4.72 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 4.66 | 0.71 | 4.72 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 4.66 | 0.71 | 4.72 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 4.66 | 0.71 | 4.72 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 4.66 | 0.71 | 4.72 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 4.66 | 0.71 | 4.72 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 4.66 | 0.71 | 4.72 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 4.66 | 0.71 | 4.72 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 20 | 4.66 | 0.19 | 4.63 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 20 | 4.66 | 1.28 | 4.12 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 20 | 4.66 | 2.81 | 3.92 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 20 | 4.65 | 0.97 | 4.43 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 20 | 4.65 | 0.97 | 4.43 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 20 | 4.65 | 0.97 | 4.43 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 4.65 | 0.88 | 4.56 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 4.65 | 0.88 | 4.56 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 4.65 | 0.88 | 4.56 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 20 | 4.65 | 0.25 | 4.63 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 20 | 4.65 | 0.25 | 4.63 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 20 | 4.65 | 0.25 | 4.63 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 20 | 4.65 | 0.48 | 4.71 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 20 | 4.65 | 0.48 | 4.71 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 20 | 4.65 | 0.48 | 4.71 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 4.65 | 0.69 | 4.54 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 20 | 4.65 | 0.83 | 4.85 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 20 | 4.65 | 0.83 | 4.85 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 20 | 4.65 | 0.83 | 4.85 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 20 | 4.65 | 0.83 | 4.85 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 20 | 4.65 | 0.83 | 4.85 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 20 | 4.65 | 0.83 | 4.85 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 4.65 | 0.59 | 4.36 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 20 | 4.65 | 1.07 | 4.44 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 20 | 4.65 | 0.1 | 4.65 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 4.65 | 0.64 | 4.55 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 4.65 | 0.64 | 4.55 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 20 | 4.64 | 0.9 | 4.57 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 20 | 4.64 | 0.9 | 4.57 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 20 | 4.64 | 0.51 | 4.47 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 20 | 4.64 | 0.83 | 4.82 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 20 | 4.64 | 0.83 | 4.82 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 20 | 4.64 | 0.86 | 4.78 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 20 | 4.64 | 0.43 | 4.65 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 20 | 4.64 | 0.43 | 4.65 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 20 | 4.64 | 0.48 | 4.57 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 20 | 4.64 | 0.48 | 4.57 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 20 | 4.64 | 0.48 | 4.57 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 20 | 4.63 | 2.01 | 4.36 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 20 | 4.63 | 0.59 | 4.64 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 20 | 4.63 | 0.59 | 4.64 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 20 | 4.63 | 0.59 | 4.64 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 20 | 4.63 | 0.59 | 4.64 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 20 | 4.63 | 0.59 | 4.64 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 20 | 4.63 | 0.59 | 4.64 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 20 | 4.63 | 0.75 | 4.34 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 20 | 4.63 | 0.75 | 4.34 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 20 | 4.63 | 0.75 | 4.34 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 4.63 | 0.45 | 4.44 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 20 | 4.63 | 0.83 | 4.66 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 20 | 4.63 | 0.83 | 4.66 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 20 | 4.63 | 0.37 | 4.66 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 20 | 4.63 | 0.37 | 4.66 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 20 | 4.63 | 0.62 | 4.64 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 20 | 4.63 | 0.62 | 4.64 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 20 | 4.62 | 0.85 | 4.54 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 20 | 4.62 | 0.85 | 4.54 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 20 | 4.62 | 0.85 | 4.54 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 20 | 4.62 | 0.8 | 4.45 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 20 | 4.62 | 0.52 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 20 | 4.62 | 0.52 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 20 | 4.62 | 0.52 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 20 | 4.62 | 0.52 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 20 | 4.62 | 0.52 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 20 | 4.62 | 0.52 | 4.88 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 20 | 4.62 | 0.9 | 4.56 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 20 | 4.62 | 0.9 | 4.56 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 20 | 4.62 | 1.14 | 4.04 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 20 | 4.62 | 1.14 | 4.04 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 20 | 4.62 | 1.14 | 4.04 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 20 | 4.62 | 1.14 | 4.04 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 20 | 4.62 | 1.14 | 4.04 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 20 | 4.62 | 1.14 | 4.04 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 20 | 4.62 | 0.56 | 4.57 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 20 | 4.62 | 0.56 | 4.57 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 20 | 4.62 | 0.56 | 4.57 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 20 | 4.62 | 0.56 | 4.57 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 20 | 4.62 | 0.72 | 4.38 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 20 | 4.62 | 0.28 | 4.58 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 20 | 4.62 | 0.28 | 4.58 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 20 | 4.62 | 1.67 | 4.05 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 20 | 4.62 | 1.67 | 4.05 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 20 | 4.62 | 1.67 | 4.05 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 20 | 4.62 | 0.81 | 4.51 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 20 | 4.62 | 0.81 | 4.51 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 20 | 4.62 | 0.98 | 4.47 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 20 | 4.62 | 0.52 | 4.65 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 20 | 4.62 | 0.52 | 4.65 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 20 | 4.62 | 0.52 | 4.65 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 20 | 4.61 | 0.95 | 4.32 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 20 | 4.61 | 0.95 | 4.32 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 20 | 4.61 | 0.95 | 4.32 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 20 | 4.61 | 0.95 | 4.32 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 20 | 4.61 | 0.95 | 4.32 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 20 | 4.61 | 0.95 | 4.32 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 4.61 | 0.42 | 4.49 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 20 | 4.61 | 0.61 | 4.93 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 20 | 4.61 | 0.82 | 4.32 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 20 | 4.61 | 0.82 | 4.32 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 20 | 4.61 | 0.82 | 4.32 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 20 | 4.61 | 0.46 | 4.64 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 20 | 4.61 | 0.46 | 4.64 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 20 | 4.61 | 0.46 | 4.64 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 20 | 4.61 | 0.46 | 4.64 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 20 | 4.61 | 0.46 | 4.64 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 20 | 4.61 | 0.46 | 4.64 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 20 | 4.61 | 0.79 | 4.4 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 4.61 | 0.79 | 4.4 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 20 | 4.61 | 0.79 | 4.4 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 4.61 | 0.79 | 4.4 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 20 | 4.61 | 0.61 | 4.71 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 20 | 4.61 | 0.33 | 4.68 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 20 | 4.61 | 0.2 | 4.66 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 20 | 4.61 | 0.55 | 4.49 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 20 | 4.61 | 0.55 | 4.49 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 20 | 4.61 | 0.56 | 4.64 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 20 | 4.61 | 0.56 | 4.64 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 20 | 4.61 | 0.34 | 4.64 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 20 | 4.61 | 0.34 | 4.64 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 20 | 4.61 | 0.34 | 4.64 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 4.61 | 1.06 | 4.48 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 4.61 | 1.06 | 4.48 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 20 | 4.61 | 0.28 | 4.59 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 20 | 4.61 | 0.28 | 4.59 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 20 | 4.61 | 0.28 | 4.59 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 4.61 | 0.84 | 4.7 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 20 | 4.61 | 0.19 | 4.7 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 20 | 4.61 | 1.12 | 4.47 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 20 | 4.61 | 0.53 | 4.71 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 20 | 4.61 | 0.53 | 4.71 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 20 | 4.61 | 0.15 | 4.51 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 20 | 4.61 | 1.09 | 4.65 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 20 | 4.61 | 1.09 | 4.65 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 20 | 4.61 | 1.09 | 4.65 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 20 | 4.61 | 1.09 | 4.65 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 20 | 4.61 | 1.09 | 4.65 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 20 | 4.61 | 1.09 | 4.65 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 20 | 4.61 | 1.55 | 4.58 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 20 | 4.61 | 0.61 | 4.68 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 20 | 4.61 | 0.61 | 4.68 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 20 | 4.61 | 0.61 | 4.68 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 20 | 4.61 | 0.67 | 4.38 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 20 | 4.61 | 0.67 | 4.38 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 20 | 4.61 | 0.67 | 4.38 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 20 | 4.6 | 0.46 | 4.6 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 20 | 4.6 | 0.46 | 4.6 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 20 | 4.6 | 0.46 | 4.6 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 20 | 4.6 | 0.46 | 4.6 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 20 | 4.6 | 0.46 | 4.6 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 20 | 4.6 | 0.46 | 4.6 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 20 | 4.6 | 0.31 | 4.45 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 20 | 4.6 | 1.02 | 4.67 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 20 | 4.6 | 1.02 | 4.67 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 20 | 4.6 | 1.02 | 4.28 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 20 | 4.6 | 1.02 | 4.28 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 20 | 4.6 | 1.02 | 4.28 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 20 | 4.6 | 1.02 | 4.28 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 20 | 4.6 | 0.7 | 4.49 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 20 | 4.6 | 0.7 | 4.49 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 20 | 4.6 | 0.7 | 4.49 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 20 | 4.6 | 0.7 | 4.49 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 20 | 4.6 | 0.7 | 4.49 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 20 | 4.6 | 0.7 | 4.49 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 20 | 4.6 | 1.86 | 4.46 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 20 | 4.6 | 1.86 | 4.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 20 | 4.6 | 1.86 | 4.46 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 20 | 4.6 | 1.86 | 4.46 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 20 | 4.6 | 1.86 | 4.46 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 20 | 4.6 | 1.86 | 4.46 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 4.6 | 0.99 | 4.6 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 20 | 4.59 | 0.49 | 4.46 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 20 | 4.59 | 0.49 | 4.46 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 20 | 4.59 | 2.53 | 3.53 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 20 | 4.59 | 0.31 | 4.56 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 20 | 4.59 | 0.31 | 4.56 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 20 | 4.59 | 0.76 | 4.56 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 20 | 4.59 | 0.46 | 4.66 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 20 | 4.59 | 0.46 | 4.66 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 20 | 4.59 | 0.46 | 4.66 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 20 | 4.59 | 0.79 | 4.16 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 20 | 4.59 | 0.79 | 4.16 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 20 | 4.59 | 0.79 | 4.16 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 20 | 4.59 | 0.52 | 4.51 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 20 | 4.59 | 0.32 | 4.57 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 20 | 4.59 | 0.52 | 4.51 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 20 | 4.59 | 0.98 | 4.54 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 4.59 | 0.98 | 4.54 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 20 | 4.59 | 0.98 | 4.54 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 20 | 4.59 | 0.37 | 4.54 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 20 | 4.59 | 0.33 | 4.51 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 4.58 | 2.58 | 3.36 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 4.58 | 2.58 | 3.36 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 4.58 | 0.85 | 4.53 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 20 | 4.58 | 0.39 | 4.64 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 20 | 4.58 | 1.08 | 4.09 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 20 | 4.58 | 0.57 | 4.47 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 20 | 4.58 | 0.57 | 4.47 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 20 | 4.58 | 0.57 | 4.47 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 20 | 4.58 | 0.57 | 4.47 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 20 | 4.58 | 0.57 | 4.47 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 20 | 4.58 | 0.57 | 4.47 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 20 | 4.58 | 0.15 | 4.53 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 20 | 4.58 | 0.72 | 4.34 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 20 | 4.58 | 0.72 | 4.34 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 20 | 4.58 | 0.72 | 4.34 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 20 | 4.58 | 0.72 | 4.34 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 20 | 4.58 | 0.63 | 4.39 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 20 | 4.58 | 1.04 | 4.51 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 20 | 4.58 | 1.04 | 4.51 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 20 | 4.58 | 0.39 | 4.46 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 20 | 4.58 | 0.39 | 4.46 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 20 | 4.58 | 0.39 | 4.46 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 20 | 4.58 | 0.39 | 4.46 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 20 | 4.58 | 0.39 | 4.46 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 20 | 4.58 | 0.39 | 4.46 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 20 | 4.58 | 0.47 | 4.53 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 20 | 4.58 | 0.47 | 4.53 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 20 | 4.58 | 0.12 | 4.58 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 20 | 4.58 | 0.12 | 4.58 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 20 | 4.58 | 0.12 | 4.58 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 20 | 4.58 | 0.29 | 4.58 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 20 | 4.58 | 0.29 | 4.58 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 20 | 4.58 | 0.29 | 4.58 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 20 | 4.58 | 0.12 | 4.58 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 20 | 4.58 | 0.12 | 4.58 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 20 | 4.58 | 0.12 | 4.58 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 20 | 4.58 | 0.29 | 4.58 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 20 | 4.58 | 0.29 | 4.58 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 20 | 4.58 | 0.29 | 4.58 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 20 | 4.57 | 1.19 | 4.74 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 20 | 4.57 | 1.19 | 4.74 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 20 | 4.57 | 1.19 | 4.74 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 20 | 4.57 | 1.19 | 4.74 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 20 | 4.57 | 1.19 | 4.74 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 20 | 4.57 | 1.19 | 4.74 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 20 | 4.57 | 0.27 | 4.54 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 20 | 4.57 | 0.27 | 4.54 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 20 | 4.57 | 0.79 | 4.35 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 20 | 4.57 | 0.79 | 4.35 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 20 | 4.57 | 0.79 | 4.35 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 20 | 4.57 | 0.82 | 4.34 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 20 | 4.57 | 0.79 | 4.35 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 20 | 4.57 | 0.79 | 4.35 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 20 | 4.57 | 0.79 | 4.35 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 20 | 4.57 | 0.53 | 4.52 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 20 | 4.57 | 0.53 | 4.52 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 20 | 4.57 | 0.26 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 20 | 4.57 | 0.26 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 20 | 4.57 | 0.26 | 4.66 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 20 | 4.57 | 0.26 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 20 | 4.57 | 0.26 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 20 | 4.57 | 0.26 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 20 | 4.57 | 0.26 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 20 | 4.57 | 0.26 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 20 | 4.57 | 0.26 | 4.66 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 20 | 4.57 | 0.67 | 4.47 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 20 | 4.57 | 0.46 | 4.62 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 20 | 4.57 | 0.46 | 4.62 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 20 | 4.57 | 0.6 | 4.49 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 20 | 4.57 | 0.65 | 4.42 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 20 | 4.57 | 0.65 | 4.42 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 20 | 4.57 | 0.65 | 4.42 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 20 | 4.57 | 0.65 | 4.42 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 20 | 4.57 | 0.65 | 4.42 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 20 | 4.57 | 0.65 | 4.42 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 20 | 4.57 | 0.65 | 4.42 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 20 | 4.57 | 0.65 | 4.42 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 20 | 4.57 | 0.65 | 4.42 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 20 | 4.57 | 1.17 | 4.12 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 20 | 4.57 | 1.17 | 4.12 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 20 | 4.57 | 1.17 | 4.12 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 20 | 4.57 | 1.17 | 4.12 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 20 | 4.56 | 1.23 | 4.4 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 20 | 4.56 | 1.23 | 4.4 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 20 | 4.56 | 1.82 | 4.62 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 20 | 4.56 | 1.82 | 4.62 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 20 | 4.56 | 1.82 | 4.62 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 20 | 4.56 | 1.82 | 4.62 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 20 | 4.56 | 1.82 | 4.62 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 20 | 4.56 | 1.82 | 4.62 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 20 | 4.56 | 0.89 | 4.88 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 20 | 4.56 | 0.89 | 4.88 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 20 | 4.56 | 0.89 | 4.88 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 20 | 4.56 | 0.29 | 4.46 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 20 | 4.56 | 1.34 | 3.94 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 20 | 4.56 | 1.34 | 3.94 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 20 | 4.56 | 0.3 | 4.5 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 20 | 4.56 | 0.3 | 4.5 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 20 | 4.56 | 0.37 | 4.47 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 20 | 4.56 | 1.14 | 4.14 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 20 | 4.56 | 1.14 | 4.14 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 20 | 4.56 | 1.14 | 4.14 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 20 | 4.56 | 1.14 | 4.14 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 20 | 4.56 | 1.14 | 4.14 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 20 | 4.56 | 1.14 | 4.14 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 20 | 4.56 | 1.14 | 4.14 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 20 | 4.56 | 1.14 | 4.14 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 20 | 4.56 | 1.14 | 4.14 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 20 | 4.55 | 0.27 | 4.53 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 20 | 4.55 | 0.27 | 4.53 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 20 | 4.55 | 0.27 | 4.53 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 20 | 4.55 | 0.27 | 4.53 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 20 | 4.55 | 0.27 | 4.53 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 20 | 4.55 | 0.27 | 4.53 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 4.55 | 1.34 | 4.68 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 4.55 | 1.34 | 4.68 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 4.55 | 1.34 | 4.68 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 20 | 4.55 | 1.69 | 3.56 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 20 | 4.55 | 1.69 | 3.56 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 20 | 4.55 | 1.69 | 3.56 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 20 | 4.55 | 1.69 | 3.56 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 20 | 4.55 | 0.44 | 4.44 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 20 | 4.55 | 0.14 | 4.56 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 20 | 4.55 | 1.31 | 4.36 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 20 | 4.55 | 1.31 | 4.36 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 20 | 4.55 | 0.32 | 4.54 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 20 | 4.55 | 0.32 | 4.54 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 4.55 | 0.63 | 4.61 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 4.55 | 0.63 | 4.61 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 4.55 | 0.63 | 4.61 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 4.55 | 0.63 | 4.61 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 4.55 | 0.63 | 4.61 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 4.55 | 0.63 | 4.61 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 4.55 | 1.22 | 4.88 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 20 | 4.55 | 1.23 | 4.06 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 20 | 4.55 | 1.23 | 4.06 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 20 | 4.54 | 0.42 | 4.76 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 20 | 4.54 | 0.99 | 4.41 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 20 | 4.54 | 0.99 | 4.41 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 4.54 | 0.99 | 4.41 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 4.54 | 0.99 | 4.41 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 20 | 4.54 | 0.99 | 4.41 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 20 | 4.54 | 0.99 | 4.41 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 4.54 | 0.99 | 4.41 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 4.54 | 0.99 | 4.41 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 4.54 | 1.36 | 4.56 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 4.54 | 1.36 | 4.56 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 4.54 | 1.36 | 4.56 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 4.54 | 1.72 | 4.22 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 20 | 4.54 | 0.78 | 4.45 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 20 | 4.54 | 0.78 | 4.45 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 20 | 4.54 | 0.13 | 4.54 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 20 | 4.54 | 1.18 | 4.18 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 4.54 | 0.83 | 4.44 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 20 | 4.54 | 0.33 | 4.39 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 20 | 4.54 | 0.24 | 4.58 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 20 | 4.54 | 0.24 | 4.58 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 20 | 4.53 | 0.33 | 4.56 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 20 | 4.53 | 0.62 | 4.6 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 20 | 4.53 | 0.62 | 4.6 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 20 | 4.53 | 0.62 | 4.6 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 20 | 4.53 | 0.62 | 4.6 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 20 | 4.53 | 0.62 | 4.6 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 20 | 4.53 | 0.62 | 4.6 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 20 | 4.53 | 1.13 | 3.96 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 20 | 4.53 | 1.13 | 3.96 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 20 | 4.53 | 1.13 | 3.96 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 20 | 4.53 | 1.13 | 3.96 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 20 | 4.53 | 1.13 | 3.96 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 20 | 4.53 | 1.13 | 3.96 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 4.53 | 1.14 | 4.53 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 4.53 | 1.14 | 4.53 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 4.53 | 1.14 | 4.53 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 4.53 | 1.14 | 4.53 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 4.53 | 1.14 | 4.53 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 4.53 | 1.14 | 4.53 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 4.53 | 1.14 | 4.53 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 4.53 | 1.14 | 4.53 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 20 | 4.53 | 0.73 | 4.4 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 20 | 4.53 | 0.73 | 4.4 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 20 | 4.53 | 0.73 | 4.4 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 20 | 4.53 | 0.95 | 4.4 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 4.53 | 0.34 | 4.57 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 4.53 | 0.34 | 4.57 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 4.53 | 0.34 | 4.57 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 4.53 | 0.34 | 4.57 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 20 | 4.53 | 0.63 | 4.39 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 20 | 4.53 | 0.63 | 4.39 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 20 | 4.53 | 0.63 | 4.39 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 20 | 4.53 | 0.63 | 4.39 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 20 | 4.53 | 0.63 | 4.39 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 20 | 4.53 | 0.63 | 4.39 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 20 | 4.53 | 0.43 | 4.54 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 20 | 4.53 | 0.43 | 4.54 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 4.53 | 0.19 | 4.48 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 20 | 4.53 | 0.11 | 4.56 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 20 | 4.53 | 0.36 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 20 | 4.53 | 0.36 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 20 | 4.53 | 0.36 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 20 | 4.53 | 0.36 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 20 | 4.53 | 0.36 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 20 | 4.53 | 0.36 | 4.39 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 20 | 4.52 | 1.06 | 4.46 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 20 | 4.52 | 1.06 | 4.46 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 20 | 4.52 | 1.06 | 4.46 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 20 | 4.52 | 1.12 | 4.08 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 20 | 4.52 | 1.12 | 4.08 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 20 | 4.52 | 1.12 | 4.08 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 20 | 4.52 | 0.61 | 4.36 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 20 | 4.52 | 0.61 | 4.36 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 20 | 4.52 | 0.6 | 4.37 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 4.52 | 0.56 | 4.66 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 4.52 | 0.56 | 4.66 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 4.52 | 0.56 | 4.66 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 4.52 | 0.56 | 4.66 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 4.52 | 0.56 | 4.66 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 4.52 | 0.56 | 4.66 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 4.52 | 1.26 | 4.51 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 4.52 | 1.26 | 4.51 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 20 | 4.52 | 0.98 | 4.66 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 20 | 4.52 | 0.98 | 4.66 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 20 | 4.52 | 0.81 | 4.44 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 20 | 4.52 | 0.81 | 4.44 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 20 | 4.52 | 0.81 | 4.44 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 20 | 4.52 | 0.81 | 4.44 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 20 | 4.52 | 0.83 | 4.57 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 20 | 4.52 | 0.83 | 4.57 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 20 | 4.52 | 0.83 | 4.57 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 20 | 4.52 | 0.83 | 4.57 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 20 | 4.52 | 1.03 | 4.5 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 20 | 4.52 | 1.03 | 4.5 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 20 | 4.52 | 0.12 | 4.53 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 20 | 4.52 | 0.12 | 4.53 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 20 | 4.52 | 0.47 | 4.36 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 20 | 4.52 | 0.47 | 4.36 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 20 | 4.52 | 1.62 | 5.0 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 20 | 4.52 | 1.62 | 5.0 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 20 | 4.52 | 1.62 | 5.0 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 20 | 4.52 | 1.62 | 5.0 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 20 | 4.52 | 0.35 | 4.44 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 20 | 4.52 | 0.35 | 4.44 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 4.52 | 1.48 | 4.23 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 4.52 | 1.48 | 4.23 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 20 | 4.52 | 1.55 | 3.58 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 20 | 4.52 | 1.55 | 3.58 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 20 | 4.52 | 0.52 | 4.36 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 4.52 | 0.58 | 4.44 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 4.52 | 0.58 | 4.44 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 4.52 | 0.58 | 4.44 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 20 | 4.51 | 1.11 | 4.43 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 20 | 4.51 | 1.11 | 4.43 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 20 | 4.51 | 1.11 | 4.43 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 20 | 4.51 | 0.64 | 4.54 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 20 | 4.51 | 0.72 | 4.34 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 20 | 4.51 | 0.72 | 4.34 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 20 | 4.51 | 0.72 | 4.34 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 20 | 4.51 | 0.72 | 4.34 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 20 | 4.51 | 0.72 | 4.34 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 20 | 4.51 | 0.72 | 4.34 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 20 | 4.51 | 0.7 | 4.58 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 4.51 | 1.93 | 3.94 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 20 | 4.51 | 0.22 | 4.44 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 20 | 4.51 | 0.22 | 4.44 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 4.51 | 1.02 | 4.35 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 4.51 | 1.02 | 4.35 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 4.51 | 1.02 | 4.35 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 4.51 | 1.02 | 4.35 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 4.51 | 1.02 | 4.35 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 4.51 | 1.02 | 4.35 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 20 | 4.51 | 0.4 | 4.42 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 20 | 4.51 | 0.4 | 4.42 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 4.51 | 0.86 | 4.06 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 4.51 | 0.86 | 4.06 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 4.51 | 0.86 | 4.06 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 4.51 | 0.86 | 4.06 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 4.51 | 0.86 | 4.06 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 4.51 | 0.86 | 4.06 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 4.51 | 0.86 | 4.06 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 4.51 | 0.86 | 4.06 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 4.51 | 0.86 | 4.06 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 4.51 | 0.86 | 4.06 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 4.51 | 0.86 | 4.06 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 4.51 | 0.86 | 4.06 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 4.51 | 0.49 | 4.54 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 20 | 4.51 | 0.08 | 4.54 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 20 | 4.51 | 0.08 | 4.54 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 4.5 | 1.13 | 4.08 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 4.5 | 1.13 | 4.08 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 20 | 4.5 | 1.5 | 4.64 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 20 | 4.5 | 1.87 | 3.92 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 20 | 4.5 | 1.87 | 3.92 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 20 | 4.5 | 1.87 | 3.92 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 20 | 4.5 | 0.69 | 4.38 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 20 | 4.5 | 0.69 | 4.38 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 20 | 4.5 | 1.01 | 4.36 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 20 | 4.5 | 1.01 | 4.36 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 20 | 4.5 | 0.2 | 4.6 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 20 | 4.5 | 0.2 | 4.6 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 20 | 4.5 | 0.2 | 4.6 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 20 | 4.5 | 0.61 | 4.49 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 20 | 4.5 | 0.61 | 4.49 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 20 | 4.5 | 1.06 | 4.85 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 4.5 | 0.87 | 4.52 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 4.5 | 0.87 | 4.52 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 4.5 | 0.87 | 4.52 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 20 | 4.5 | 0.15 | 4.4 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 20 | 4.5 | 0.16 | 4.55 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 4.5 | 0.81 | 4.36 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 4.5 | 0.81 | 4.36 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 4.5 | 0.81 | 4.36 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 4.5 | 0.81 | 4.36 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 20 | 4.5 | 0.16 | 4.55 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 20 | 4.49 | 0.89 | 4.3 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 20 | 4.49 | 0.89 | 4.3 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 4.49 | 1.12 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 4.49 | 1.12 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 4.49 | 1.12 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 4.49 | 1.12 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 4.49 | 1.12 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 4.49 | 1.12 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 4.49 | 1.12 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 4.49 | 1.12 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 4.49 | 1.12 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 4.49 | 1.12 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 4.49 | 1.12 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 4.49 | 1.12 | 4.47 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 20 | 4.49 | 0.8 | 4.2 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 20 | 4.49 | 0.8 | 4.2 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 20 | 4.49 | 1.05 | 4.58 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 20 | 4.49 | 1.55 | 3.9 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 20 | 4.49 | 1.55 | 3.9 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 20 | 4.49 | 1.55 | 3.9 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 20 | 4.49 | 1.55 | 3.9 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 20 | 4.49 | 1.55 | 3.9 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 20 | 4.49 | 1.55 | 3.9 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 4.49 | 0.29 | 4.43 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 20 | 4.49 | 0.42 | 4.51 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 20 | 4.49 | 0.42 | 4.51 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 4.49 | 1.4 | 4.42 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 4.49 | 1.4 | 4.42 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 4.49 | 1.4 | 4.42 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 4.49 | 1.4 | 4.42 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 4.49 | 1.4 | 4.42 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 4.49 | 1.4 | 4.42 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 4.49 | 1.4 | 4.42 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 4.49 | 1.4 | 4.42 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 20 | 4.49 | 0.34 | 4.4 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 20 | 4.49 | 0.34 | 4.4 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 20 | 4.49 | 0.34 | 4.4 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 20 | 4.48 | 0.27 | 4.53 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 20 | 4.48 | 0.27 | 4.53 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 20 | 4.48 | 0.27 | 4.53 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 20 | 4.48 | 0.27 | 4.53 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 20 | 4.48 | 0.27 | 4.46 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 20 | 4.48 | 0.27 | 4.46 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 4.48 | 0.93 | 4.65 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 4.48 | 0.93 | 4.65 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 20 | 4.48 | 0.74 | 4.75 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 20 | 4.48 | 0.74 | 4.75 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 20 | 4.48 | 0.74 | 4.75 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 20 | 4.48 | 0.74 | 4.75 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 20 | 4.48 | 0.74 | 4.75 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 20 | 4.48 | 0.74 | 4.75 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 20 | 4.48 | 0.93 | 4.51 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 4.48 | 0.93 | 4.65 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 4.48 | 0.93 | 4.65 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 20 | 4.48 | 0.37 | 4.55 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 20 | 4.48 | 0.99 | 4.6 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 20 | 4.48 | 0.07 | 4.5 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 4.48 | 0.25 | 4.5 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 20 | 4.48 | 0.14 | 4.51 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 20 | 4.48 | 0.7 | 4.65 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 20 | 4.48 | 0.61 | 4.47 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 20 | 4.48 | 0.61 | 4.47 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 20 | 4.48 | 0.61 | 4.47 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 20 | 4.48 | 0.61 | 4.47 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 20 | 4.48 | 1.17 | 4.04 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 4.48 | 1.07 | 4.88 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 20 | 4.48 | 1.17 | 4.04 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 20 | 4.47 | 0.08 | 4.49 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 20 | 4.47 | 0.14 | 4.45 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 20 | 4.47 | 0.14 | 4.45 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 20 | 4.47 | 0.14 | 4.45 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 20 | 4.47 | 0.14 | 4.45 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 20 | 4.47 | 0.77 | 4.55 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 20 | 4.47 | 0.77 | 4.55 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 20 | 4.47 | 1.38 | 3.92 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 20 | 4.47 | 0.08 | 4.44 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 20 | 4.47 | 0.31 | 4.56 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 20 | 4.47 | 0.31 | 4.56 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 20 | 4.47 | 0.1 | 4.42 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 20 | 4.47 | 0.23 | 4.59 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 20 | 4.47 | 0.23 | 4.59 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 4.46 | 1.2 | 4.28 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 20 | 4.46 | 0.8 | 4.41 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 20 | 4.46 | 0.8 | 4.41 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 20 | 4.46 | 0.29 | 4.38 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 20 | 4.46 | 0.3 | 4.34 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 20 | 4.46 | 0.3 | 4.34 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 20 | 4.46 | 0.3 | 4.34 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 20 | 4.46 | 0.3 | 4.34 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 4.46 | 0.35 | 4.61 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 20 | 4.46 | 0.33 | 4.36 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 4.46 | 0.08 | 4.46 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 20 | 4.46 | 0.86 | 4.65 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 20 | 4.46 | 0.86 | 4.65 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 20 | 4.46 | 0.33 | 4.32 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 20 | 4.46 | 0.33 | 4.32 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 4.46 | 1.06 | 4.35 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 4.46 | 1.06 | 4.35 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 4.46 | 1.06 | 4.35 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 4.46 | 1.06 | 4.35 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 20 | 4.46 | 1.32 | 4.04 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 20 | 4.46 | 1.32 | 4.04 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 20 | 4.46 | 1.32 | 4.04 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 20 | 4.46 | 1.32 | 4.04 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 20 | 4.46 | 1.32 | 4.04 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 20 | 4.46 | 1.32 | 4.04 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 20 | 4.46 | 1.32 | 4.04 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 20 | 4.46 | 1.32 | 4.04 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 20 | 4.46 | 1.32 | 4.04 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 20 | 4.46 | 1.2 | 4.31 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 20 | 4.46 | 1.2 | 4.31 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 20 | 4.46 | 1.2 | 4.31 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 20 | 4.46 | 1.2 | 4.31 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 20 | 4.46 | 1.2 | 4.31 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 20 | 4.46 | 1.2 | 4.31 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 20 | 4.46 | 1.2 | 4.31 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 20 | 4.46 | 1.2 | 4.31 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 20 | 4.46 | 1.2 | 4.31 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 20 | 4.45 | 0.79 | 4.24 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 20 | 4.45 | 0.79 | 4.24 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 20 | 4.45 | 0.79 | 4.24 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 20 | 4.45 | 0.17 | 4.48 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 20 | 4.45 | 0.17 | 4.48 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 20 | 4.45 | 0.24 | 4.51 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 20 | 4.45 | 0.24 | 4.51 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 20 | 4.45 | 0.52 | 4.49 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 20 | 4.45 | 0.52 | 4.49 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 20 | 4.45 | 0.52 | 4.49 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 20 | 4.45 | 0.48 | 4.38 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 20 | 4.45 | 0.48 | 4.38 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 20 | 4.45 | 1.58 | 3.72 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 4.45 | 1.27 | 3.88 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 20 | 4.45 | 1.58 | 3.72 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 20 | 4.45 | 0.59 | 4.7 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 20 | 4.45 | 1.06 | 4.22 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 20 | 4.45 | 1.06 | 4.22 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 20 | 4.45 | 0.48 | 4.28 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 20 | 4.45 | 0.48 | 4.28 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 20 | 4.45 | 1.03 | 4.8 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 20 | 4.45 | 1.03 | 4.8 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 4.45 | 1.09 | 4.16 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 4.45 | 1.09 | 4.16 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 4.45 | 1.09 | 4.16 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 4.45 | 1.09 | 4.16 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 20 | 4.45 | 0.6 | 4.58 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 20 | 4.45 | 0.72 | 4.23 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 20 | 4.45 | 0.72 | 4.23 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 4.45 | 0.65 | 4.64 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 4.45 | 0.65 | 4.64 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 4.45 | 0.65 | 4.64 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 4.45 | 0.65 | 4.64 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 20 | 4.45 | 0.57 | 4.36 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 20 | 4.45 | 0.57 | 4.36 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 20 | 4.45 | 0.57 | 4.36 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 20 | 4.45 | 0.57 | 4.36 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 20 | 4.45 | 0.57 | 4.36 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 20 | 4.45 | 0.57 | 4.36 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 4.45 | 0.39 | 4.38 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 4.45 | 0.39 | 4.38 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 20 | 4.44 | 0.26 | 4.6 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 20 | 4.44 | 1.18 | 4.46 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 20 | 4.44 | 0.56 | 4.29 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 20 | 4.44 | 0.56 | 4.29 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 20 | 4.44 | 0.56 | 4.29 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 20 | 4.44 | 0.56 | 4.29 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 20 | 4.44 | 0.56 | 4.29 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 20 | 4.44 | 0.56 | 4.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 20 | 4.44 | 0.56 | 4.29 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 20 | 4.44 | 0.56 | 4.29 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 20 | 4.44 | 0.56 | 4.29 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 20 | 4.44 | 0.17 | 4.51 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 20 | 4.44 | 1.11 | 4.38 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 20 | 4.44 | 1.11 | 4.38 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 20 | 4.44 | 0.92 | 4.24 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 20 | 4.44 | 0.92 | 4.24 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 20 | 4.44 | 0.08 | 4.4 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 4.44 | 0.82 | 4.54 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 20 | 4.44 | 0.32 | 4.6 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 20 | 4.44 | 0.32 | 4.6 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 20 | 4.44 | 1.02 | 4.15 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 20 | 4.44 | 1.02 | 4.15 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 20 | 4.44 | 1.02 | 4.15 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 20 | 4.44 | 0.45 | 4.34 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 4.44 | 0.55 | 4.7 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 4.44 | 0.55 | 4.7 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 20 | 4.44 | 0.79 | 4.14 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 20 | 4.44 | 0.37 | 4.42 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 20 | 4.44 | 0.37 | 4.42 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 20 | 4.44 | 0.37 | 4.42 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 4.44 | 0.87 | 4.36 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 20 | 4.44 | 0.87 | 4.36 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 4.44 | 0.87 | 4.36 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 20 | 4.44 | 0.87 | 4.36 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 20 | 4.44 | 0.58 | 4.2 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 20 | 4.44 | 0.58 | 4.2 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 20 | 4.44 | 0.58 | 4.2 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 20 | 4.44 | 0.58 | 4.2 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 20 | 4.44 | 0.14 | 4.36 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 20 | 4.43 | 0.39 | 4.38 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 20 | 4.43 | 0.34 | 4.43 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 20 | 4.43 | 0.34 | 4.43 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 20 | 4.43 | 0.34 | 4.43 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 20 | 4.43 | 0.2 | 4.4 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 20 | 4.43 | 0.2 | 4.4 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 4.43 | 0.83 | 4.31 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 4.43 | 0.83 | 4.31 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 20 | 4.43 | 0.86 | 3.89 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 20 | 4.43 | 0.86 | 3.89 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 20 | 4.43 | 0.86 | 3.89 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 20 | 4.43 | 0.91 | 4.46 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 20 | 4.43 | 0.91 | 4.46 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 20 | 4.43 | 0.91 | 4.46 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 20 | 4.43 | 0.34 | 4.33 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 4.43 | 0.18 | 4.4 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 4.43 | 0.18 | 4.4 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 4.43 | 0.18 | 4.4 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 4.43 | 0.18 | 4.4 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 20 | 4.43 | 0.84 | 4.49 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 20 | 4.43 | 0.77 | 4.68 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 20 | 4.43 | 0.54 | 4.4 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 20 | 4.43 | 0.54 | 4.4 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 20 | 4.43 | 1.45 | 3.7 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 20 | 4.43 | 1.45 | 3.7 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 20 | 4.43 | 0.72 | 4.4 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 20 | 4.43 | 0.49 | 4.42 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 20 | 4.43 | 0.49 | 4.42 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 20 | 4.43 | 0.49 | 4.42 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 20 | 4.43 | 0.49 | 4.42 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 20 | 4.43 | 0.49 | 4.42 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 20 | 4.43 | 0.49 | 4.42 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 20 | 4.42 | 0.5 | 4.3 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 20 | 4.42 | 0.5 | 4.3 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 4.42 | 1.09 | 4.05 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 20 | 4.42 | 0.27 | 4.4 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 20 | 4.42 | 0.27 | 4.4 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 20 | 4.42 | 0.27 | 4.4 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 4.42 | 0.67 | 4.44 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 20 | 4.42 | 0.6 | 4.61 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 20 | 4.42 | 0.6 | 4.61 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 20 | 4.42 | 1.61 | 4.4 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 20 | 4.42 | 1.61 | 4.4 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 4.42 | 0.58 | 4.62 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 4.42 | 0.58 | 4.62 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 4.42 | 0.58 | 4.62 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 4.42 | 0.85 | 4.4 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 4.42 | 0.85 | 4.4 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 4.42 | 0.85 | 4.4 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 4.42 | 0.41 | 4.41 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 4.42 | 0.41 | 4.41 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 4.42 | 0.41 | 4.41 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 20 | 4.42 | 2.19 | 4.01 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 20 | 4.42 | 0.12 | 4.38 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 20 | 4.42 | 0.47 | 4.44 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 4.41 | 0.71 | 4.36 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 20 | 4.41 | 0.71 | 4.36 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 4.41 | 0.71 | 4.36 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 20 | 4.41 | 0.71 | 4.36 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 4.41 | 1.4 | 4.7 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 20 | 4.41 | 0.95 | 4.13 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 20 | 4.41 | 0.95 | 4.13 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 20 | 4.41 | 0.95 | 4.13 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 20 | 4.41 | 0.95 | 4.13 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 20 | 4.41 | 0.95 | 4.13 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 20 | 4.41 | 0.95 | 4.13 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 4.41 | 1.86 | 4.12 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 4.41 | 1.86 | 4.12 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 20 | 4.41 | 1.23 | 4.5 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 4.41 | 0.49 | 4.48 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 20 | 4.41 | 0.97 | 4.36 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 20 | 4.41 | 0.97 | 4.36 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 20 | 4.41 | 0.97 | 4.36 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 20 | 4.41 | 0.11 | 4.36 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 20 | 4.41 | 0.11 | 4.36 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 20 | 4.41 | 0.17 | 4.49 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 4.41 | 1.5 | 4.32 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 4.41 | 1.5 | 4.32 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 4.41 | 1.5 | 4.32 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 20 | 4.41 | 0.23 | 4.42 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 20 | 4.41 | 0.23 | 4.42 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 20 | 4.41 | 0.23 | 4.42 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 20 | 4.41 | 0.23 | 4.42 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 20 | 4.41 | 1.36 | 4.22 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 20 | 4.41 | 1.36 | 4.22 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 20 | 4.41 | 1.36 | 4.22 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 20 | 4.41 | 1.36 | 4.22 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 20 | 4.41 | 1.36 | 4.22 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 20 | 4.41 | 1.36 | 4.22 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 20 | 4.41 | 0.34 | 4.27 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 20 | 4.41 | 1.93 | 4.18 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 20 | 4.4 | 0.16 | 4.34 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 20 | 4.4 | 0.16 | 4.34 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 20 | 4.4 | 0.56 | 4.46 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 20 | 4.4 | 0.56 | 4.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 4.4 | 1.23 | 3.96 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 4.4 | 1.23 | 3.96 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 4.4 | 1.23 | 3.96 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 4.4 | 1.23 | 3.96 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 4.4 | 0.15 | 4.36 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 4.4 | 0.15 | 4.36 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 4.4 | 0.15 | 4.36 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 4.4 | 0.15 | 4.36 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 20 | 4.4 | 0.16 | 4.37 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 20 | 4.4 | 0.33 | 4.32 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 20 | 4.4 | 0.33 | 4.32 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 20 | 4.4 | 0.33 | 4.32 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 20 | 4.4 | 0.88 | 4.4 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 20 | 4.4 | 0.88 | 4.4 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 20 | 4.4 | 0.88 | 4.4 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 4.4 | 1.41 | 4.49 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 20 | 4.4 | 0.57 | 4.51 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 4.4 | 0.3 | 4.37 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 4.4 | 0.3 | 4.37 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 4.4 | 0.3 | 4.37 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 4.4 | 0.3 | 4.37 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 20 | 4.4 | 1.69 | 4.46 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 20 | 4.4 | 1.69 | 4.46 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 20 | 4.4 | 1.69 | 4.46 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 4.4 | 1.69 | 4.46 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 4.4 | 1.69 | 4.46 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 4.4 | 1.69 | 4.46 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 20 | 4.4 | 0.53 | 4.34 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 4.39 | 1.09 | 4.12 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 4.39 | 1.09 | 4.12 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 4.39 | 1.09 | 4.12 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 20 | 4.39 | 0.33 | 4.47 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 20 | 4.39 | 0.33 | 4.47 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 20 | 4.39 | 0.72 | 4.28 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 20 | 4.39 | 0.22 | 4.36 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 20 | 4.39 | 0.22 | 4.36 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 20 | 4.39 | 0.1 | 4.38 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 20 | 4.39 | 0.41 | 4.28 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 20 | 4.39 | 0.38 | 4.42 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 20 | 4.39 | 0.38 | 4.42 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 20 | 4.39 | 0.64 | 4.38 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 20 | 4.39 | 0.64 | 4.38 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 20 | 4.39 | 0.03 | 4.38 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 20 | 4.39 | 0.18 | 4.34 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 20 | 4.39 | 0.18 | 4.34 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 20 | 4.39 | 0.41 | 4.33 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 20 | 4.39 | 0.41 | 4.33 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 20 | 4.39 | 0.41 | 4.33 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 20 | 4.39 | 0.41 | 4.33 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 20 | 4.39 | 0.41 | 4.33 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 20 | 4.39 | 0.41 | 4.33 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 20 | 4.39 | 0.63 | 4.42 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 20 | 4.39 | 0.26 | 4.37 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 20 | 4.39 | 0.26 | 4.37 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 20 | 4.39 | 0.26 | 4.37 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 20 | 4.39 | 0.26 | 4.37 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 20 | 4.39 | 0.26 | 4.37 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 20 | 4.39 | 0.26 | 4.37 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 20 | 4.39 | 0.26 | 4.37 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 20 | 4.39 | 0.26 | 4.37 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 20 | 4.39 | 0.26 | 4.37 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 20 | 4.39 | 0.26 | 4.37 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 20 | 4.39 | 0.26 | 4.37 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 20 | 4.39 | 0.26 | 4.37 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 20 | 4.39 | 0.69 | 4.42 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 20 | 4.39 | 0.69 | 4.42 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 20 | 4.38 | 0.15 | 4.41 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 20 | 4.38 | 0.15 | 4.41 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 4.38 | 1.14 | 4.17 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 20 | 4.38 | 1.34 | 3.88 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 4.38 | 0.53 | 4.18 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 4.38 | 0.53 | 4.18 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 4.38 | 0.53 | 4.18 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 4.38 | 0.53 | 4.18 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 20 | 4.38 | 0.4 | 4.57 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 20 | 4.38 | 0.08 | 4.39 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 20 | 4.38 | 0.08 | 4.39 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 20 | 4.38 | 0.08 | 4.39 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 20 | 4.37 | 0.53 | 4.41 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 20 | 4.37 | 0.53 | 4.41 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 4.37 | 1.13 | 3.98 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 20 | 4.37 | 0.06 | 4.37 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 20 | 4.37 | 0.06 | 4.37 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 20 | 4.37 | 0.32 | 4.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 20 | 4.37 | 0.32 | 4.26 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 20 | 4.37 | 0.32 | 4.26 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 20 | 4.37 | 0.32 | 4.26 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 20 | 4.37 | 0.32 | 4.26 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 20 | 4.37 | 0.32 | 4.26 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 20 | 4.37 | 0.71 | 4.64 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 20 | 4.37 | 0.66 | 4.32 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 20 | 4.37 | 0.66 | 4.32 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 20 | 4.37 | 0.66 | 4.32 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 4.37 | 0.84 | 4.18 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 4.37 | 0.84 | 4.18 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 4.37 | 0.84 | 4.18 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 20 | 4.37 | 0.23 | 4.45 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 20 | 4.37 | 0.23 | 4.45 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 20 | 4.37 | 0.2 | 4.4 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 20 | 4.37 | 0.2 | 4.4 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 20 | 4.37 | 0.2 | 4.4 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 20 | 4.37 | 0.59 | 4.23 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 20 | 4.37 | 0.59 | 4.23 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 20 | 4.37 | 0.59 | 4.23 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 20 | 4.37 | 0.59 | 4.23 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 20 | 4.37 | 0.59 | 4.23 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 20 | 4.37 | 0.59 | 4.23 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 20 | 4.37 | 0.11 | 4.38 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 20 | 4.37 | 0.02 | 4.37 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 20 | 4.36 | 0.73 | 4.18 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 20 | 4.36 | 0.73 | 4.18 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 20 | 4.36 | 0.73 | 4.18 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 20 | 4.36 | 0.73 | 4.18 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 20 | 4.36 | 0.73 | 4.18 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 20 | 4.36 | 0.73 | 4.18 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 20 | 4.36 | 1.07 | 4.32 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 20 | 4.36 | 1.07 | 4.32 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 20 | 4.36 | 1.07 | 4.32 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 20 | 4.36 | 1.22 | 4.08 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 20 | 4.36 | 1.22 | 4.08 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 20 | 4.36 | 1.22 | 4.08 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 20 | 4.36 | 0.18 | 4.35 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 20 | 4.36 | 0.18 | 4.35 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 4.36 | 0.85 | 4.47 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 4.36 | 0.85 | 4.47 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 20 | 4.36 | 1.05 | 4.06 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 20 | 4.36 | 1.05 | 4.06 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 20 | 4.36 | 1.05 | 4.06 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 20 | 4.36 | 1.05 | 4.06 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 20 | 4.36 | 1.05 | 4.06 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 20 | 4.36 | 1.05 | 4.06 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 20 | 4.36 | 1.3 | 4.24 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 20 | 4.36 | 1.3 | 4.24 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 20 | 4.36 | 1.3 | 4.24 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 20 | 4.36 | 1.3 | 4.24 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 20 | 4.36 | 1.3 | 4.24 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 20 | 4.36 | 1.3 | 4.24 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 20 | 4.36 | 0.58 | 4.46 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 20 | 4.36 | 0.58 | 4.46 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 20 | 4.36 | 0.58 | 4.46 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 4.36 | 0.65 | 4.43 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 4.36 | 0.65 | 4.43 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 4.36 | 0.65 | 4.43 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 20 | 4.36 | 0.61 | 4.28 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 20 | 4.36 | 0.61 | 4.28 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 20 | 4.36 | 0.61 | 4.28 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 20 | 4.36 | 0.57 | 4.53 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 20 | 4.36 | 0.57 | 4.53 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 20 | 4.36 | 0.57 | 4.53 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 20 | 4.36 | 0.61 | 4.28 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 20 | 4.36 | 0.61 | 4.28 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 20 | 4.36 | 0.61 | 4.28 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 20 | 4.36 | 0.57 | 4.53 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 20 | 4.36 | 0.57 | 4.53 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 20 | 4.36 | 0.57 | 4.53 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 20 | 4.36 | 0.84 | 4.47 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 20 | 4.36 | 0.84 | 4.47 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 20 | 4.36 | 0.84 | 4.47 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 20 | 4.36 | 0.84 | 4.47 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 20 | 4.36 | 1.41 | 3.6 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 20 | 4.36 | 1.41 | 3.6 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 20 | 4.36 | 0.49 | 4.2 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 20 | 4.36 | 0.49 | 4.2 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 20 | 4.36 | 0.48 | 4.18 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 20 | 4.36 | 0.48 | 4.18 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 20 | 4.36 | 0.48 | 4.18 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 20 | 4.36 | 0.48 | 4.18 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 20 | 4.36 | 0.48 | 4.18 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 20 | 4.36 | 0.48 | 4.18 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 20 | 4.36 | 0.35 | 4.28 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 20 | 4.36 | 0.35 | 4.28 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 20 | 4.36 | 0.35 | 4.28 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 20 | 4.36 | 0.35 | 4.28 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 20 | 4.36 | 0.35 | 4.28 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 20 | 4.36 | 0.35 | 4.28 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 20 | 4.36 | 0.52 | 4.71 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 20 | 4.36 | 0.52 | 4.71 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 4.36 | 1.18 | 4.45 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 20 | 4.35 | 0.34 | 4.24 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 4.35 | 0.34 | 4.24 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 4.35 | 0.47 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 4.35 | 0.47 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 4.35 | 0.47 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 4.35 | 0.47 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 4.35 | 0.47 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 4.35 | 0.47 | 4.34 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 20 | 4.35 | 0.34 | 4.24 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 4.35 | 0.34 | 4.24 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 4.35 | 1.7 | 3.87 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 4.35 | 1.7 | 3.87 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 4.35 | 1.7 | 3.87 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 4.35 | 1.7 | 3.87 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 4.35 | 0.71 | 4.14 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 4.35 | 0.71 | 4.14 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 4.35 | 0.71 | 4.14 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 4.35 | 0.71 | 4.14 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 4.35 | 0.71 | 4.14 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 4.35 | 0.71 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 4.35 | 0.71 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 4.35 | 0.71 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 4.35 | 0.71 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 4.35 | 0.71 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 4.35 | 0.71 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 4.35 | 0.71 | 4.14 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 20 | 4.35 | 1.24 | 4.64 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 20 | 4.35 | 1.1 | 4.16 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 20 | 4.35 | 1.1 | 4.16 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 20 | 4.35 | 1.1 | 4.16 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 20 | 4.35 | 1.1 | 4.16 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 20 | 4.35 | 1.1 | 4.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 20 | 4.35 | 1.1 | 4.16 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 20 | 4.35 | 1.1 | 4.16 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 20 | 4.35 | 1.1 | 4.16 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 20 | 4.35 | 1.1 | 4.16 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 20 | 4.35 | 0.97 | 5.04 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 4.35 | 0.62 | 4.4 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 4.35 | 0.62 | 4.4 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 4.35 | 0.62 | 4.4 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 20 | 4.35 | 0.69 | 4.74 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 20 | 4.35 | 0.69 | 4.74 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 4.35 | 1.01 | 4.34 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 4.35 | 1.01 | 4.34 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 4.35 | 1.01 | 4.34 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 20 | 4.35 | 0.73 | 4.37 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 20 | 4.35 | 0.77 | 4.3 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 20 | 4.35 | 0.88 | 4.0 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 20 | 4.35 | 0.88 | 4.0 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 20 | 4.35 | 0.88 | 4.0 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 20 | 4.35 | 0.28 | 4.2 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 20 | 4.35 | 0.28 | 4.2 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 20 | 4.35 | 0.91 | 4.43 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 4.35 | 1.77 | 4.67 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 4.35 | 0.33 | 4.41 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 20 | 4.35 | 0.33 | 4.41 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 4.35 | 0.33 | 4.41 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 20 | 4.35 | 0.33 | 4.41 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 20 | 4.35 | 0.47 | 4.39 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 20 | 4.35 | 0.8 | 4.38 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 20 | 4.35 | 0.8 | 4.38 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 20 | 4.35 | 0.8 | 4.38 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 20 | 4.35 | 0.47 | 4.39 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 4.35 | 0.71 | 4.28 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 4.35 | 0.71 | 4.28 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 4.35 | 0.71 | 4.28 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 4.35 | 0.71 | 4.28 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 4.35 | 0.71 | 4.28 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 4.35 | 0.71 | 4.28 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 4.35 | 0.71 | 4.28 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 4.35 | 0.71 | 4.28 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 4.35 | 0.71 | 4.28 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 4.35 | 0.71 | 4.28 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 4.35 | 0.71 | 4.28 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 4.35 | 0.71 | 4.28 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 4.34 | 1.24 | 3.92 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 20 | 4.34 | 0.56 | 4.3 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 20 | 4.34 | 0.56 | 4.3 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 20 | 4.34 | 0.56 | 4.3 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 20 | 4.34 | 0.56 | 4.3 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 20 | 4.34 | 0.56 | 4.3 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 20 | 4.34 | 0.56 | 4.3 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 20 | 4.34 | 0.92 | 4.19 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 4.34 | 0.92 | 4.19 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 20 | 4.34 | 0.56 | 4.3 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 20 | 4.34 | 0.56 | 4.3 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 20 | 4.34 | 0.56 | 4.3 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 20 | 4.34 | 0.56 | 4.3 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 20 | 4.34 | 0.56 | 4.3 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 20 | 4.34 | 0.56 | 4.3 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 20 | 4.34 | 0.1 | 4.34 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 20 | 4.34 | 0.9 | 4.31 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 20 | 4.34 | 0.9 | 4.31 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 20 | 4.34 | 0.9 | 4.31 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 20 | 4.34 | 0.52 | 4.51 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 20 | 4.34 | 0.38 | 4.44 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 20 | 4.34 | 0.7 | 4.49 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 20 | 4.34 | 0.7 | 4.49 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 20 | 4.34 | 1.25 | 4.51 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 20 | 4.34 | 1.25 | 4.51 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 20 | 4.34 | 1.25 | 4.51 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 20 | 4.34 | 1.11 | 4.21 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 20 | 4.34 | 1.11 | 4.21 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 20 | 4.34 | 1.11 | 4.21 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 20 | 4.34 | 1.11 | 4.21 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 20 | 4.34 | 1.11 | 4.21 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 20 | 4.34 | 1.11 | 4.21 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 20 | 4.33 | 0.64 | 4.19 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 20 | 4.33 | 0.67 | 4.27 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 20 | 4.33 | 0.67 | 4.27 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 20 | 4.33 | 0.67 | 4.27 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 20 | 4.33 | 0.39 | 4.4 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 20 | 4.33 | 1.28 | 3.81 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 20 | 4.33 | 0.84 | 4.5 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 20 | 4.33 | 0.84 | 4.5 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 20 | 4.33 | 0.84 | 4.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 20 | 4.32 | 0.36 | 4.19 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 20 | 4.32 | 0.17 | 4.36 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 20 | 4.32 | 0.17 | 4.36 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 4.32 | 0.36 | 4.31 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 4.32 | 0.36 | 4.31 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 4.32 | 0.36 | 4.31 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 4.32 | 0.36 | 4.31 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 20 | 4.32 | 0.42 | 4.28 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 20 | 4.32 | 0.42 | 4.28 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 4.32 | 1.77 | 3.61 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 4.32 | 1.77 | 3.61 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 4.32 | 1.77 | 3.61 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 20 | 4.32 | 0.42 | 4.28 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 20 | 4.32 | 0.42 | 4.28 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 20 | 4.32 | 2.12 | 3.58 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 20 | 4.32 | 2.12 | 3.58 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 20 | 4.32 | 0.04 | 4.34 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 20 | 4.32 | 0.02 | 4.3 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 20 | 4.32 | 1.35 | 4.74 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 20 | 4.32 | 1.35 | 4.74 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 20 | 4.32 | 0.43 | 4.28 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 20 | 4.32 | 0.43 | 4.28 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 20 | 4.32 | 0.55 | 4.46 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 20 | 4.32 | 0.43 | 4.3 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 20 | 4.32 | 0.43 | 4.3 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 20 | 4.32 | 0.59 | 4.17 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 20 | 4.32 | 0.59 | 4.17 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 4.32 | 0.97 | 4.11 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 4.32 | 0.97 | 4.11 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 4.32 | 0.97 | 4.11 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 20 | 4.32 | 1.28 | 4.28 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 20 | 4.32 | 1.28 | 4.28 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 4.32 | 0.65 | 4.47 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 4.32 | 0.65 | 4.47 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 4.32 | 0.65 | 4.47 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 4.32 | 0.65 | 4.47 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 4.32 | 0.65 | 4.47 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 4.32 | 0.65 | 4.47 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 4.32 | 0.65 | 4.47 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 4.32 | 0.65 | 4.47 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 4.32 | 0.65 | 4.47 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 4.32 | 0.65 | 4.47 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 4.32 | 0.65 | 4.47 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 4.32 | 0.65 | 4.47 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 20 | 4.31 | 0.3 | 4.31 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 20 | 4.31 | 0.3 | 4.31 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 20 | 4.31 | 0.71 | 4.15 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 4.31 | 0.22 | 4.29 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 20 | 4.31 | 2.15 | 4.51 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 20 | 4.31 | 0.79 | 4.22 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 20 | 4.31 | 0.79 | 4.22 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 20 | 4.31 | 0.79 | 4.22 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 20 | 4.31 | 0.79 | 4.22 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 20 | 4.31 | 0.79 | 4.22 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 20 | 4.31 | 0.79 | 4.22 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 20 | 4.31 | 0.64 | 4.0 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 20 | 4.31 | 0.64 | 4.0 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 4.31 | 1.23 | 4.56 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 20 | 4.31 | 0.77 | 4.59 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 20 | 4.31 | 0.77 | 4.59 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 20 | 4.31 | 0.56 | 4.3 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 20 | 4.31 | 0.47 | 4.19 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 20 | 4.3 | 0.47 | 4.47 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 20 | 4.3 | 0.47 | 4.47 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 20 | 4.3 | 0.44 | 4.37 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 20 | 4.3 | 0.44 | 4.37 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 20 | 4.3 | 0.84 | 4.17 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 20 | 4.3 | 0.23 | 4.31 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 20 | 4.3 | 0.23 | 4.31 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 20 | 4.3 | 0.23 | 4.31 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 20 | 4.3 | 0.23 | 4.31 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 20 | 4.3 | 1.52 | 3.7 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 20 | 4.3 | 1.52 | 3.7 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 20 | 4.3 | 1.52 | 3.7 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 20 | 4.3 | 1.52 | 3.7 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 20 | 4.3 | 1.0 | 4.06 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 4.3 | 0.31 | 4.39 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 4.3 | 0.31 | 4.39 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 4.3 | 0.31 | 4.39 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 4.3 | 0.31 | 4.39 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 4.3 | 0.31 | 4.39 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 4.3 | 0.31 | 4.39 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 4.3 | 0.31 | 4.39 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 4.3 | 0.31 | 4.39 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 4.3 | 1.49 | 4.11 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 4.3 | 1.49 | 4.11 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 20 | 4.3 | 0.61 | 4.08 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 20 | 4.3 | 0.67 | 4.54 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 20 | 4.3 | 0.67 | 4.54 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 20 | 4.3 | 0.63 | 4.2 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 20 | 4.3 | 0.63 | 4.2 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 20 | 4.3 | 0.63 | 4.2 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 20 | 4.3 | 0.63 | 4.2 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 20 | 4.3 | 1.13 | 4.42 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 20 | 4.3 | 0.63 | 4.4 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 4.3 | 1.29 | 4.28 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 4.3 | 1.29 | 4.28 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 20 | 4.3 | 0.5 | 4.36 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 20 | 4.3 | 0.5 | 4.36 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 20 | 4.3 | 0.5 | 4.36 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 20 | 4.3 | 0.5 | 4.36 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 4.3 | 1.17 | 4.04 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 20 | 4.3 | 1.2 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 20 | 4.3 | 1.2 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 20 | 4.3 | 1.2 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 20 | 4.3 | 1.2 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 20 | 4.3 | 1.2 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 20 | 4.3 | 1.2 | 4.44 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 20 | 4.29 | 0.86 | 3.94 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 20 | 4.29 | 0.86 | 3.94 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 20 | 4.29 | 0.86 | 3.94 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 20 | 4.29 | 0.86 | 3.94 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 20 | 4.29 | 0.86 | 3.94 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 20 | 4.29 | 0.86 | 3.94 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 20 | 4.29 | 0.86 | 3.94 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 20 | 4.29 | 0.86 | 3.94 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 20 | 4.29 | 0.86 | 3.94 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 4.29 | 0.5 | 4.37 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 20 | 4.29 | 0.5 | 4.37 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 20 | 4.29 | 0.08 | 4.3 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 20 | 4.29 | 0.08 | 4.3 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 20 | 4.29 | 0.08 | 4.3 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 20 | 4.29 | 0.34 | 4.39 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 20 | 4.29 | 0.34 | 4.39 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 20 | 4.29 | 1.24 | 4.22 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 20 | 4.29 | 1.24 | 4.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 20 | 4.29 | 1.24 | 4.22 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 4.29 | 0.12 | 4.34 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 4.29 | 0.12 | 4.34 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 4.29 | 0.12 | 4.34 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 4.29 | 0.12 | 4.34 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 20 | 4.29 | 0.21 | 4.31 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 20 | 4.29 | 0.26 | 4.34 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 20 | 4.29 | 0.42 | 4.08 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 20 | 4.29 | 0.26 | 4.34 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 20 | 4.29 | 0.42 | 4.08 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 4.29 | 0.55 | 4.2 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 4.29 | 0.55 | 4.2 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 4.29 | 0.55 | 4.2 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 4.29 | 0.55 | 4.2 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 20 | 4.29 | 0.25 | 4.32 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 20 | 4.29 | 0.25 | 4.32 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 4.29 | 0.91 | 4.22 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 4.29 | 0.91 | 4.22 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 4.29 | 0.91 | 4.22 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 20 | 4.29 | 1.27 | 4.0 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 20 | 4.29 | 1.27 | 4.0 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 20 | 4.29 | 0.17 | 4.31 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 20 | 4.29 | 0.17 | 4.31 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 4.28 | 0.56 | 4.51 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 4.28 | 1.25 | 4.24 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 20 | 4.28 | 0.74 | 4.16 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 20 | 4.28 | 0.74 | 4.16 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 20 | 4.28 | 0.74 | 4.16 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 20 | 4.28 | 0.19 | 4.3 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 20 | 4.28 | 1.64 | 3.38 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 20 | 4.28 | 1.64 | 3.38 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 20 | 4.28 | 0.93 | 4.02 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 20 | 4.28 | 0.93 | 4.02 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 20 | 4.28 | 0.93 | 4.02 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 20 | 4.28 | 0.93 | 4.02 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 20 | 4.28 | 0.93 | 4.02 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 20 | 4.28 | 0.93 | 4.02 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 20 | 4.28 | 0.78 | 4.1 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 20 | 4.28 | 0.78 | 4.1 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 20 | 4.28 | 0.5 | 4.3 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 20 | 4.28 | 1.07 | 4.27 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 20 | 4.28 | 0.44 | 4.28 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 20 | 4.28 | 0.44 | 4.28 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 20 | 4.28 | 0.71 | 4.27 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 20 | 4.28 | 0.71 | 4.27 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 20 | 4.28 | 0.71 | 4.27 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 20 | 4.28 | 0.71 | 4.27 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 20 | 4.28 | 0.71 | 4.27 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 20 | 4.28 | 0.71 | 4.27 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 20 | 4.27 | 0.83 | 4.35 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 20 | 4.27 | 0.83 | 4.35 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 20 | 4.27 | 0.83 | 4.35 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 20 | 4.27 | 0.5 | 4.14 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 20 | 4.27 | 0.5 | 4.14 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 20 | 4.27 | 0.34 | 4.38 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 20 | 4.27 | 0.34 | 4.38 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 4.27 | 0.33 | 4.36 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 20 | 4.27 | 0.94 | 4.5 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 20 | 4.27 | 0.94 | 4.5 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 20 | 4.27 | 0.28 | 4.28 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 20 | 4.27 | 0.18 | 4.28 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 20 | 4.27 | 1.09 | 3.92 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 20 | 4.27 | 1.09 | 3.92 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 4.27 | 0.63 | 4.4 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 4.27 | 1.04 | 4.24 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 4.27 | 1.01 | 3.87 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 4.27 | 1.01 | 3.87 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 4.27 | 1.01 | 3.87 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 4.27 | 1.01 | 3.87 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 20 | 4.27 | 0.64 | 4.56 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 20 | 4.27 | 0.73 | 4.07 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 20 | 4.27 | 0.73 | 4.07 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 4.26 | 0.65 | 4.36 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 20 | 4.26 | 0.62 | 4.24 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 20 | 4.26 | 1.79 | 4.62 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 20 | 4.26 | 1.18 | 4.61 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 20 | 4.26 | 0.51 | 4.25 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 20 | 4.26 | 0.51 | 4.25 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 20 | 4.26 | 0.51 | 4.25 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 20 | 4.26 | 0.51 | 4.25 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 20 | 4.26 | 0.51 | 4.25 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 20 | 4.26 | 0.51 | 4.25 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 4.26 | 1.59 | 4.33 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 4.26 | 1.59 | 4.33 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 4.26 | 1.59 | 4.33 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 20 | 4.26 | 0.44 | 4.4 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 20 | 4.26 | 0.63 | 4.35 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 20 | 4.26 | 0.63 | 4.35 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 20 | 4.26 | 0.63 | 4.35 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 20 | 4.26 | 0.63 | 4.35 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 20 | 4.26 | 0.63 | 4.35 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 20 | 4.26 | 0.63 | 4.35 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 20 | 4.26 | 0.63 | 4.35 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 20 | 4.26 | 0.63 | 4.35 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 20 | 4.26 | 0.45 | 4.12 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 4.26 | 0.71 | 4.15 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 20 | 4.26 | 0.09 | 4.26 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 20 | 4.26 | 0.09 | 4.26 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 20 | 4.26 | 0.09 | 4.26 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 20 | 4.26 | 0.09 | 4.26 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 20 | 4.26 | 0.09 | 4.26 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 20 | 4.26 | 0.09 | 4.26 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 20 | 4.26 | 0.3 | 4.16 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 20 | 4.26 | 0.3 | 4.16 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 20 | 4.26 | 0.3 | 4.16 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 20 | 4.26 | 0.3 | 4.16 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 20 | 4.26 | 0.3 | 4.16 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 20 | 4.26 | 0.3 | 4.16 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 20 | 4.26 | 0.29 | 4.2 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 20 | 4.26 | 0.29 | 4.2 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 4.26 | 0.57 | 3.99 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 4.26 | 0.57 | 3.99 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 4.26 | 0.57 | 3.99 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 20 | 4.26 | 0.59 | 4.36 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 20 | 4.26 | 0.14 | 4.26 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 20 | 4.26 | 0.14 | 4.26 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 20 | 4.26 | 0.14 | 4.26 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 20 | 4.26 | 0.5 | 4.07 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 20 | 4.26 | 0.5 | 4.07 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 4.26 | 1.53 | 3.68 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 20 | 4.26 | 0.85 | 3.94 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 20 | 4.26 | 0.85 | 3.94 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 20 | 4.25 | 0.9 | 3.96 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 20 | 4.25 | 0.9 | 3.96 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 20 | 4.25 | 0.9 | 3.96 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 20 | 4.25 | 0.9 | 3.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 20 | 4.25 | 0.9 | 3.96 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 20 | 4.25 | 0.9 | 3.96 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 20 | 4.25 | 0.9 | 3.96 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 20 | 4.25 | 0.9 | 3.96 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 20 | 4.25 | 0.9 | 3.96 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 20 | 4.25 | 0.9 | 3.96 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 20 | 4.25 | 0.9 | 3.96 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 20 | 4.25 | 0.9 | 3.96 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 20 | 4.25 | 0.9 | 3.96 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 20 | 4.25 | 0.9 | 3.96 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 20 | 4.25 | 0.9 | 3.96 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 20 | 4.25 | 0.9 | 3.96 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 20 | 4.25 | 0.9 | 3.96 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 20 | 4.25 | 0.9 | 3.96 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 20 | 4.25 | 0.95 | 3.97 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 20 | 4.25 | 0.95 | 3.97 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 20 | 4.25 | 0.95 | 3.97 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 20 | 4.25 | 0.95 | 3.97 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 20 | 4.25 | 0.95 | 3.97 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 20 | 4.25 | 0.95 | 3.97 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 4.25 | 0.7 | 4.43 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 4.25 | 0.7 | 4.43 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 20 | 4.25 | 0.99 | 4.48 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 20 | 4.25 | 0.99 | 4.48 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 20 | 4.25 | 0.75 | 4.04 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 20 | 4.25 | 0.75 | 4.04 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 20 | 4.25 | 0.75 | 4.04 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 20 | 4.25 | 0.75 | 4.04 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 20 | 4.25 | 0.75 | 4.04 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 20 | 4.25 | 0.75 | 4.04 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 4.25 | 0.35 | 4.22 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 4.25 | 0.35 | 4.22 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 4.25 | 0.35 | 4.22 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 4.25 | 0.35 | 4.22 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 20 | 4.25 | 0.37 | 4.29 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 20 | 4.25 | 0.37 | 4.24 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 20 | 4.25 | 0.37 | 4.24 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 20 | 4.25 | 0.37 | 4.24 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 4.25 | 0.37 | 4.24 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 4.25 | 0.37 | 4.24 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 4.25 | 0.37 | 4.24 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 20 | 4.25 | 0.37 | 4.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 20 | 4.25 | 0.37 | 4.24 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 20 | 4.25 | 0.37 | 4.24 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 4.25 | 0.37 | 4.24 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 4.25 | 0.37 | 4.24 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 4.25 | 0.37 | 4.24 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 20 | 4.25 | 1.09 | 3.92 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 20 | 4.25 | 1.09 | 3.92 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 20 | 4.25 | 0.3 | 4.36 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 20 | 4.25 | 0.3 | 4.36 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 20 | 4.25 | 0.78 | 4.35 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 20 | 4.25 | 1.46 | 4.07 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 20 | 4.25 | 1.46 | 4.07 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 20 | 4.25 | 1.46 | 4.07 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 4.25 | 1.46 | 4.07 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 4.25 | 1.46 | 4.07 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 4.25 | 1.46 | 4.07 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 20 | 4.25 | 1.46 | 4.07 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 20 | 4.25 | 1.46 | 4.07 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 20 | 4.25 | 1.46 | 4.07 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 4.25 | 1.46 | 4.07 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 4.25 | 1.46 | 4.07 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 4.25 | 1.46 | 4.07 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 20 | 4.25 | 0.4 | 4.4 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 4.25 | 0.4 | 4.4 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 20 | 4.25 | 0.4 | 4.4 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 4.25 | 0.4 | 4.4 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 20 | 4.25 | 0.16 | 4.25 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 20 | 4.25 | 0.51 | 4.46 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 20 | 4.25 | 0.51 | 4.46 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 20 | 4.24 | 0.56 | 4.11 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 20 | 4.24 | 0.56 | 4.11 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 20 | 4.24 | 0.56 | 4.11 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 20 | 4.24 | 0.56 | 4.11 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 20 | 4.24 | 0.56 | 4.11 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 20 | 4.24 | 0.56 | 4.11 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 20 | 4.24 | 0.33 | 4.34 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 20 | 4.24 | 0.33 | 4.34 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 20 | 4.24 | 0.33 | 4.34 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 4.24 | 0.45 | 4.11 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 4.24 | 0.45 | 4.11 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 20 | 4.24 | 0.45 | 4.11 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 20 | 4.24 | 0.45 | 4.11 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 20 | 4.24 | 0.33 | 4.34 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 20 | 4.24 | 0.33 | 4.34 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 20 | 4.24 | 0.33 | 4.34 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 4.24 | 0.45 | 4.11 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 4.24 | 0.45 | 4.11 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 20 | 4.24 | 0.45 | 4.11 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 20 | 4.24 | 0.45 | 4.11 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 4.24 | 0.62 | 4.24 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 20 | 4.24 | 0.46 | 4.15 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 20 | 4.24 | 0.46 | 4.15 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 20 | 4.24 | 0.51 | 4.2 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 20 | 4.24 | 0.51 | 4.2 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 20 | 4.24 | 0.51 | 4.2 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 20 | 4.24 | 0.51 | 4.2 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 4.24 | 0.76 | 4.24 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 4.24 | 0.76 | 4.24 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 4.24 | 0.76 | 4.24 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 4.24 | 0.76 | 4.24 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 20 | 4.24 | 0.68 | 4.46 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 20 | 4.24 | 0.68 | 4.46 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 4.24 | 0.71 | 4.06 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 4.24 | 0.71 | 4.06 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 4.24 | 0.71 | 4.06 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 20 | 4.24 | 0.42 | 4.28 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 20 | 4.24 | 0.42 | 4.28 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 20 | 4.24 | 1.28 | 4.18 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 20 | 4.24 | 1.28 | 4.18 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 20 | 4.24 | 1.28 | 4.18 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 20 | 4.24 | 1.28 | 4.18 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 20 | 4.24 | 1.28 | 4.18 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 20 | 4.24 | 1.28 | 4.18 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 20 | 4.24 | 1.28 | 4.18 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 20 | 4.24 | 1.28 | 4.18 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 20 | 4.24 | 1.28 | 4.18 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 20 | 4.24 | 1.28 | 4.18 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 20 | 4.24 | 1.28 | 4.18 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 20 | 4.24 | 1.28 | 4.18 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 20 | 4.24 | 0.62 | 4.23 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 20 | 4.24 | 0.62 | 4.23 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 20 | 4.24 | 0.62 | 4.23 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 20 | 4.24 | 0.71 | 4.19 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 20 | 4.24 | 0.71 | 4.19 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 20 | 4.24 | 0.71 | 4.19 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 20 | 4.24 | 0.96 | 4.11 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 20 | 4.24 | 0.96 | 4.11 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 20 | 4.24 | 0.96 | 4.11 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 20 | 4.24 | 0.96 | 4.11 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 20 | 4.24 | 0.96 | 4.11 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 20 | 4.24 | 0.96 | 4.11 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 20 | 4.24 | 0.8 | 4.36 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 20 | 4.24 | 0.8 | 4.36 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 20 | 4.24 | 0.8 | 4.36 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 20 | 4.24 | 0.8 | 4.36 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 20 | 4.24 | 0.75 | 4.53 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 20 | 4.23 | 0.48 | 4.14 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 20 | 4.23 | 0.48 | 4.14 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 20 | 4.23 | 0.6 | 4.14 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 20 | 4.23 | 0.6 | 4.14 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 20 | 4.23 | 0.6 | 4.14 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 4.23 | 1.08 | 4.62 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 4.23 | 1.08 | 4.62 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 4.23 | 1.08 | 4.62 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 20 | 4.23 | 0.57 | 4.0 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 20 | 4.23 | 0.57 | 4.0 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 20 | 4.23 | 0.57 | 4.0 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 20 | 4.23 | 0.57 | 4.0 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 4.23 | 0.24 | 4.3 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 20 | 4.23 | 0.64 | 4.2 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 20 | 4.23 | 0.64 | 4.2 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 20 | 4.23 | 0.64 | 4.2 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 20 | 4.23 | 0.75 | 4.34 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 4.23 | 0.95 | 4.15 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 20 | 4.23 | 0.07 | 4.24 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 20 | 4.23 | 0.07 | 4.24 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 20 | 4.23 | 0.07 | 4.24 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 20 | 4.23 | 0.07 | 4.24 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 20 | 4.23 | 1.26 | 4.49 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 20 | 4.23 | 1.26 | 4.49 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 4.23 | 1.09 | 4.02 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 20 | 4.23 | 0.36 | 4.06 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 20 | 4.23 | 0.36 | 4.06 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 20 | 4.23 | 0.75 | 4.25 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 20 | 4.23 | 0.75 | 4.25 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 20 | 4.23 | 0.75 | 4.25 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 20 | 4.23 | 0.75 | 4.25 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 20 | 4.23 | 0.75 | 4.25 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 20 | 4.23 | 0.75 | 4.25 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 4.23 | 1.29 | 4.71 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 4.23 | 1.29 | 4.71 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 20 | 4.22 | 0.88 | 4.21 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 20 | 4.22 | 0.88 | 4.21 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 20 | 4.22 | 0.88 | 4.21 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 20 | 4.22 | 0.88 | 4.21 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 20 | 4.22 | 0.88 | 4.21 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 20 | 4.22 | 0.88 | 4.21 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 20 | 4.22 | 1.14 | 4.56 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 4.22 | 0.26 | 4.26 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 20 | 4.22 | 0.67 | 4.11 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 20 | 4.22 | 0.67 | 4.11 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 20 | 4.22 | 0.67 | 4.11 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 20 | 4.22 | 0.67 | 4.11 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 20 | 4.22 | 0.67 | 4.11 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 20 | 4.22 | 0.67 | 4.11 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 4.22 | 0.26 | 4.26 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 20 | 4.22 | 0.67 | 4.11 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 20 | 4.22 | 0.67 | 4.11 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 20 | 4.22 | 0.67 | 4.11 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 20 | 4.22 | 0.67 | 4.11 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 20 | 4.22 | 0.67 | 4.11 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 20 | 4.22 | 0.67 | 4.11 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 20 | 4.22 | 0.34 | 4.2 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 20 | 4.22 | 0.36 | 4.16 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 20 | 4.22 | 1.4 | 3.78 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 20 | 4.22 | 0.36 | 4.16 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 20 | 4.22 | 0.51 | 4.11 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 20 | 4.22 | 0.51 | 4.11 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 20 | 4.22 | 0.51 | 4.11 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 20 | 4.22 | 0.51 | 4.11 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 20 | 4.22 | 0.51 | 4.11 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 20 | 4.22 | 0.51 | 4.11 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 4.22 | 0.81 | 4.52 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 4.22 | 1.02 | 4.01 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 20 | 4.22 | 0.36 | 4.38 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 20 | 4.22 | 0.36 | 4.38 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 20 | 4.22 | 0.7 | 3.98 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 20 | 4.22 | 0.22 | 4.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 20 | 4.22 | 0.22 | 4.2 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 20 | 4.22 | 0.22 | 4.2 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 20 | 4.22 | 0.22 | 4.2 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 20 | 4.22 | 0.22 | 4.2 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 20 | 4.22 | 0.22 | 4.2 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 20 | 4.22 | 0.32 | 4.23 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 20 | 4.22 | 0.68 | 4.28 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 20 | 4.22 | 0.68 | 4.28 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 20 | 4.21 | 1.3 | 3.54 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 4.21 | 0.85 | 4.24 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 4.21 | 0.85 | 4.24 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 4.21 | 0.85 | 4.24 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 4.21 | 0.85 | 4.24 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 4.21 | 0.85 | 4.24 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 4.21 | 0.85 | 4.24 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 20 | 4.21 | 0.23 | 4.26 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 20 | 4.21 | 0.23 | 4.26 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 4.21 | 0.43 | 4.38 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 4.21 | 0.43 | 4.38 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 20 | 4.21 | 0.51 | 4.34 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 20 | 4.21 | 0.07 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 20 | 4.21 | 0.07 | 4.22 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 20 | 4.21 | 1.07 | 4.15 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 20 | 4.21 | 1.07 | 4.15 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 20 | 4.21 | 1.19 | 4.08 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 20 | 4.21 | 1.19 | 4.08 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 20 | 4.21 | 1.19 | 4.08 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 20 | 4.21 | 1.19 | 4.08 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 20 | 4.21 | 1.19 | 4.08 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 20 | 4.21 | 1.19 | 4.08 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 20 | 4.21 | 0.45 | 4.11 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 20 | 4.21 | 2.3 | 2.78 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 20 | 4.21 | 1.39 | 3.64 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 20 | 4.21 | 1.39 | 3.64 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 20 | 4.21 | 1.39 | 3.64 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 20 | 4.21 | 1.39 | 3.64 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 20 | 4.21 | 1.39 | 3.64 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 20 | 4.21 | 1.39 | 3.64 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 20 | 4.21 | 0.38 | 4.07 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 20 | 4.21 | 0.38 | 4.07 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 20 | 4.21 | 0.38 | 4.07 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 20 | 4.21 | 0.38 | 4.07 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 20 | 4.21 | 0.38 | 4.07 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 20 | 4.21 | 0.38 | 4.07 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 4.2 | 0.38 | 4.22 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 4.2 | 0.38 | 4.22 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 20 | 4.2 | 0.86 | 3.86 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 20 | 4.2 | 0.86 | 3.86 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 20 | 4.2 | 0.86 | 3.86 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 20 | 4.2 | 1.02 | 3.47 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 20 | 4.2 | 1.02 | 3.47 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 20 | 4.2 | 1.02 | 3.47 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 20 | 4.2 | 0.31 | 4.26 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 20 | 4.2 | 0.31 | 4.26 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 20 | 4.2 | 0.31 | 4.26 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 4.2 | 0.56 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 4.2 | 0.56 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 4.2 | 0.56 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 4.2 | 0.56 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 4.2 | 0.56 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 4.2 | 0.56 | 4.28 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 20 | 4.2 | 1.03 | 3.96 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 20 | 4.2 | 1.03 | 3.96 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 20 | 4.2 | 1.03 | 3.96 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 20 | 4.2 | 1.03 | 3.96 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 20 | 4.2 | 1.03 | 3.96 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 20 | 4.2 | 1.03 | 3.96 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 4.2 | 0.16 | 4.22 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 4.2 | 0.16 | 4.22 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 4.2 | 0.16 | 4.22 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 4.2 | 0.16 | 4.22 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 20 | 4.2 | 0.65 | 4.12 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 20 | 4.2 | 0.65 | 4.12 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 20 | 4.2 | 0.57 | 4.3 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 4.2 | 0.27 | 4.12 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 4.2 | 0.71 | 4.49 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 4.2 | 0.71 | 4.49 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 20 | 4.19 | 0.85 | 4.44 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 20 | 4.19 | 0.85 | 4.44 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 20 | 4.19 | 0.85 | 4.44 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 20 | 4.19 | 0.32 | 4.12 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 20 | 4.19 | 0.32 | 4.12 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 20 | 4.19 | 0.32 | 4.12 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 20 | 4.19 | 1.0 | 4.04 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 20 | 4.19 | 1.0 | 4.04 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 4.19 | 0.12 | 4.2 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 20 | 4.19 | 0.49 | 4.08 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 20 | 4.19 | 0.3 | 4.34 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 20 | 4.19 | 0.3 | 4.34 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 4.19 | 0.98 | 4.35 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 4.19 | 0.98 | 4.35 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 4.19 | 0.98 | 4.35 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 4.19 | 0.98 | 4.35 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 4.19 | 0.98 | 4.35 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 4.19 | 0.98 | 4.35 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 4.19 | 0.98 | 4.35 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 4.19 | 0.98 | 4.35 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 20 | 4.19 | 0.46 | 4.32 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 20 | 4.18 | 0.36 | 4.3 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 20 | 4.18 | 0.56 | 4.3 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 20 | 4.18 | 0.69 | 4.19 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 20 | 4.18 | 0.69 | 4.19 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 20 | 4.18 | 0.69 | 4.19 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 4.18 | 0.35 | 4.19 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 4.18 | 0.35 | 4.19 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 4.18 | 0.35 | 4.19 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 4.18 | 0.35 | 4.19 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 4.18 | 0.35 | 4.19 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 4.18 | 0.35 | 4.19 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 20 | 4.18 | 0.69 | 4.19 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 20 | 4.18 | 0.69 | 4.19 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 20 | 4.18 | 0.69 | 4.19 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 4.18 | 0.35 | 4.19 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 4.18 | 0.35 | 4.19 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 4.18 | 0.35 | 4.19 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 4.18 | 0.35 | 4.19 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 4.18 | 0.35 | 4.19 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 4.18 | 0.35 | 4.19 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 20 | 4.18 | 0.54 | 4.19 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 20 | 4.18 | 0.35 | 4.3 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 20 | 4.18 | 0.35 | 4.3 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 20 | 4.18 | 0.14 | 4.18 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 4.18 | 1.41 | 4.18 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 4.18 | 1.41 | 4.18 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 20 | 4.18 | 0.32 | 4.23 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 20 | 4.18 | 0.32 | 4.23 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 20 | 4.18 | 0.53 | 4.22 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 20 | 4.18 | 0.53 | 4.22 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 20 | 4.18 | 0.21 | 4.22 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 20 | 4.18 | 0.72 | 4.23 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 20 | 4.18 | 0.72 | 4.23 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 20 | 4.18 | 0.72 | 4.23 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 4.18 | 0.94 | 3.82 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 4.18 | 0.94 | 3.82 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 4.18 | 0.94 | 3.82 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 4.18 | 0.54 | 4.06 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 4.18 | 0.54 | 4.06 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 4.18 | 0.54 | 4.06 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 20 | 4.17 | 0.61 | 4.13 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 20 | 4.17 | 0.61 | 4.13 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 20 | 4.17 | 0.5 | 4.37 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 20 | 4.17 | 0.5 | 4.37 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 20 | 4.17 | 0.38 | 4.01 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 20 | 4.17 | 0.38 | 4.01 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 20 | 4.17 | 0.38 | 4.01 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 20 | 4.17 | 0.2 | 4.11 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 20 | 4.17 | 0.2 | 4.11 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 4.17 | 0.97 | 4.08 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 4.17 | 0.97 | 4.08 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 4.17 | 0.97 | 4.08 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 20 | 4.17 | 0.16 | 4.14 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 20 | 4.17 | 0.16 | 4.14 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 20 | 4.17 | 0.51 | 4.04 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 20 | 4.17 | 0.6 | 4.04 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 20 | 4.17 | 0.6 | 4.04 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 4.17 | 0.74 | 4.26 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 4.17 | 0.74 | 4.26 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 4.17 | 0.74 | 4.26 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 20 | 4.17 | 0.34 | 4.14 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 20 | 4.17 | 1.01 | 4.32 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 20 | 4.17 | 1.01 | 4.32 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 20 | 4.17 | 0.13 | 4.14 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 20 | 4.17 | 0.13 | 4.14 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 20 | 4.17 | 0.13 | 4.14 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 20 | 4.17 | 0.33 | 4.32 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 20 | 4.17 | 0.33 | 4.32 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 20 | 4.16 | 0.92 | 4.0 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 20 | 4.16 | 0.92 | 4.0 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 20 | 4.16 | 0.92 | 4.0 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 20 | 4.16 | 0.92 | 4.0 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 20 | 4.16 | 0.92 | 4.0 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 20 | 4.16 | 0.92 | 4.0 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 20 | 4.16 | 0.92 | 4.0 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 20 | 4.16 | 0.92 | 4.0 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 20 | 4.16 | 0.92 | 4.0 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 20 | 4.16 | 0.92 | 4.0 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 20 | 4.16 | 0.92 | 4.0 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 20 | 4.16 | 0.92 | 4.0 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 20 | 4.16 | 0.5 | 4.04 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 20 | 4.16 | 0.5 | 4.04 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 4.16 | 0.35 | 4.22 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 4.16 | 0.12 | 4.13 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 4.16 | 0.12 | 4.13 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 4.16 | 0.12 | 4.13 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 4.16 | 0.12 | 4.13 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 4.16 | 1.2 | 4.11 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 4.16 | 1.2 | 4.11 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 4.16 | 1.2 | 4.11 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 4.16 | 1.2 | 4.11 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 4.16 | 1.2 | 4.11 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 4.16 | 1.2 | 4.11 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 4.16 | 1.2 | 4.11 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 4.16 | 1.2 | 4.11 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 4.16 | 1.2 | 4.11 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 4.16 | 1.2 | 4.11 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 4.16 | 1.2 | 4.11 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 4.16 | 1.2 | 4.11 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 20 | 4.16 | 1.41 | 3.84 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 20 | 4.16 | 1.41 | 3.84 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 20 | 4.16 | 1.41 | 3.84 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 20 | 4.16 | 1.41 | 3.84 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 20 | 4.16 | 1.41 | 3.84 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 20 | 4.16 | 1.41 | 3.84 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 20 | 4.16 | 0.39 | 4.07 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 4.16 | 1.05 | 3.96 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 20 | 4.16 | 0.83 | 3.84 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 20 | 4.16 | 0.83 | 3.84 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 20 | 4.16 | 0.83 | 3.84 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 20 | 4.16 | 0.83 | 3.84 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 20 | 4.16 | 0.83 | 3.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 20 | 4.16 | 0.83 | 3.84 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 4.16 | 0.68 | 4.28 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 4.16 | 0.68 | 4.28 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 4.16 | 0.68 | 4.28 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 4.16 | 0.68 | 4.28 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 4.16 | 0.68 | 4.28 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 4.16 | 0.68 | 4.28 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 4.16 | 1.26 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 4.16 | 1.26 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 4.16 | 1.26 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 4.16 | 1.26 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 4.16 | 1.26 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 4.16 | 1.26 | 3.96 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 4.16 | 0.68 | 4.28 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 4.16 | 0.68 | 4.28 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 4.16 | 0.68 | 4.28 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 4.16 | 0.68 | 4.28 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 4.16 | 0.68 | 4.28 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 4.16 | 0.68 | 4.28 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 20 | 4.16 | 0.89 | 4.56 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 20 | 4.16 | 0.44 | 4.32 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 20 | 4.16 | 0.44 | 4.32 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 4.16 | 0.85 | 3.83 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 20 | 4.16 | 0.85 | 3.83 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 4.16 | 0.85 | 3.83 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 20 | 4.16 | 0.85 | 3.83 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 4.16 | 1.61 | 4.16 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 4.16 | 1.61 | 4.16 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 4.16 | 1.61 | 4.16 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 20 | 4.15 | 0.47 | 4.02 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 20 | 4.15 | 0.47 | 4.02 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 20 | 4.15 | 0.47 | 4.02 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 20 | 4.15 | 0.6 | 4.35 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 4.15 | 0.67 | 4.05 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 20 | 4.15 | 0.2 | 4.16 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 20 | 4.15 | 0.32 | 4.31 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 20 | 4.15 | 0.32 | 4.31 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 20 | 4.15 | 0.86 | 4.07 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 20 | 4.15 | 0.86 | 4.07 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 20 | 4.15 | 0.86 | 4.07 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 20 | 4.15 | 0.86 | 4.07 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 20 | 4.15 | 0.86 | 4.07 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 20 | 4.15 | 0.86 | 4.07 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 20 | 4.15 | 0.86 | 4.07 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 20 | 4.15 | 0.86 | 4.07 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 20 | 4.15 | 0.58 | 4.16 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 20 | 4.15 | 0.85 | 4.04 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 20 | 4.15 | 0.85 | 4.04 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 20 | 4.15 | 0.85 | 4.04 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 4.15 | 0.26 | 4.16 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 4.15 | 0.79 | 4.44 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 4.15 | 1.22 | 3.77 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 4.15 | 1.22 | 3.77 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 4.15 | 1.22 | 3.77 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 4.15 | 1.22 | 3.77 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 4.15 | 1.22 | 3.77 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 4.15 | 1.22 | 3.77 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 4.15 | 1.22 | 3.77 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 4.15 | 1.22 | 3.77 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 20 | 4.15 | 0.43 | 3.96 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 20 | 4.15 | 0.43 | 3.96 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 4.15 | 0.32 | 4.25 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 4.15 | 1.34 | 4.27 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 4.15 | 0.78 | 4.16 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 4.15 | 0.78 | 4.16 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 4.15 | 0.78 | 4.16 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 4.15 | 0.78 | 4.16 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 20 | 4.14 | 0.4 | 4.22 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 20 | 4.14 | 0.54 | 4.42 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 4.14 | 0.27 | 4.19 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 4.14 | 0.27 | 4.19 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 4.14 | 0.27 | 4.19 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 4.14 | 0.27 | 4.19 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 20 | 4.14 | 0.33 | 4.13 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 20 | 4.14 | 0.33 | 4.13 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 20 | 4.14 | 0.33 | 4.13 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 20 | 4.14 | 0.33 | 4.13 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 20 | 4.14 | 0.58 | 4.28 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 20 | 4.14 | 0.58 | 4.28 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 20 | 4.14 | 0.58 | 4.28 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 4.14 | 0.96 | 3.92 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 4.14 | 0.96 | 3.92 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 4.14 | 0.96 | 3.92 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 4.14 | 0.96 | 3.92 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 4.14 | 0.96 | 3.92 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 4.14 | 0.96 | 3.92 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 4.14 | 0.96 | 3.92 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 4.14 | 0.96 | 3.92 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 4.14 | 0.97 | 4.28 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 4.14 | 0.97 | 4.28 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 4.14 | 0.97 | 4.28 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 20 | 4.14 | 0.62 | 4.34 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 20 | 4.14 | 0.62 | 4.34 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 20 | 4.14 | 0.62 | 4.34 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 20 | 4.14 | 0.62 | 4.34 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 20 | 4.14 | 0.18 | 4.16 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 20 | 4.14 | 0.2 | 4.11 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 20 | 4.14 | 0.2 | 4.11 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 4.14 | 0.18 | 4.12 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 4.14 | 0.18 | 4.12 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 4.14 | 0.18 | 4.12 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 4.14 | 0.18 | 4.12 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 20 | 4.14 | 0.55 | 3.9 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 20 | 4.14 | 0.55 | 3.9 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 20 | 4.14 | 0.55 | 3.9 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 20 | 4.14 | 0.86 | 4.22 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 20 | 4.14 | 0.86 | 4.22 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 20 | 4.14 | 0.86 | 4.22 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 20 | 4.13 | 0.72 | 4.3 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 20 | 4.13 | 0.72 | 4.3 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 20 | 4.13 | 0.79 | 3.8 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 20 | 4.13 | 0.79 | 3.8 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 20 | 4.13 | 0.79 | 3.8 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 20 | 4.13 | 0.33 | 4.2 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 20 | 4.13 | 0.33 | 4.2 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 20 | 4.13 | 0.52 | 4.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 20 | 4.13 | 0.52 | 4.24 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 20 | 4.13 | 0.58 | 3.92 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 20 | 4.13 | 0.75 | 3.77 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 20 | 4.13 | 0.75 | 3.77 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 20 | 4.13 | 0.75 | 3.77 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 20 | 4.13 | 0.22 | 4.18 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 20 | 4.13 | 0.22 | 4.18 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 20 | 4.13 | 0.22 | 4.18 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 20 | 4.13 | 0.22 | 4.18 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 20 | 4.13 | 0.22 | 4.18 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 20 | 4.13 | 0.22 | 4.18 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 20 | 4.13 | 0.39 | 4.11 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 20 | 4.13 | 0.67 | 3.99 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 20 | 4.13 | 0.67 | 3.99 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 20 | 4.13 | 0.67 | 3.99 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 20 | 4.13 | 0.67 | 3.99 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 20 | 4.13 | 0.67 | 3.99 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 20 | 4.13 | 0.67 | 3.99 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 20 | 4.13 | 0.67 | 3.99 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 20 | 4.13 | 0.67 | 3.99 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 20 | 4.13 | 0.67 | 3.99 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 20 | 4.13 | 0.98 | 3.89 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 20 | 4.13 | 0.98 | 3.89 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 20 | 4.13 | 0.76 | 4.53 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 20 | 4.13 | 0.76 | 4.53 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 20 | 4.13 | 1.03 | 4.36 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 20 | 4.12 | 0.29 | 4.16 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 20 | 4.12 | 0.43 | 4.37 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 20 | 4.12 | 0.43 | 4.37 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 20 | 4.12 | 1.3 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 20 | 4.12 | 1.3 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 20 | 4.12 | 1.3 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 20 | 4.12 | 1.3 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 20 | 4.12 | 1.3 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 20 | 4.12 | 1.3 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 20 | 4.12 | 1.3 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 20 | 4.12 | 1.3 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 20 | 4.12 | 1.3 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 20 | 4.12 | 1.3 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 20 | 4.12 | 1.3 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 20 | 4.12 | 1.3 | 3.22 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 20 | 4.12 | 0.31 | 4.05 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 20 | 4.12 | 0.31 | 4.05 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 20 | 4.12 | 0.14 | 4.09 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 20 | 4.12 | 0.14 | 4.09 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 20 | 4.12 | 0.14 | 4.09 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 20 | 4.12 | 0.14 | 4.09 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 20 | 4.12 | 0.14 | 4.09 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 20 | 4.12 | 0.14 | 4.09 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 20 | 4.12 | 0.29 | 4.12 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 20 | 4.12 | 0.29 | 4.12 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 20 | 4.12 | 0.29 | 4.12 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 4.12 | 0.98 | 3.79 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 4.12 | 0.98 | 3.79 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 4.12 | 0.98 | 3.79 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 4.12 | 0.52 | 4.17 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 20 | 4.12 | 0.87 | 3.96 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 4.11 | 0.69 | 4.12 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 4.11 | 0.69 | 4.12 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 20 | 4.11 | 0.74 | 4.14 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 4.11 | 1.22 | 4.02 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 20 | 4.11 | 1.22 | 4.02 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 4.11 | 1.22 | 4.02 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 20 | 4.11 | 1.22 | 4.02 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 4.11 | 0.74 | 4.39 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 20 | 4.11 | 0.41 | 3.92 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 20 | 4.11 | 0.82 | 3.82 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 20 | 4.11 | 0.36 | 4.1 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 20 | 4.11 | 0.36 | 4.1 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 4.11 | 0.57 | 3.98 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 4.11 | 0.57 | 3.98 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 4.11 | 0.57 | 3.98 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 20 | 4.11 | 0.67 | 4.1 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 20 | 4.11 | 0.67 | 4.1 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 20 | 4.11 | 0.67 | 4.1 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 20 | 4.11 | 0.67 | 4.1 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 20 | 4.11 | 0.67 | 4.1 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 20 | 4.11 | 0.67 | 4.1 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 4.11 | 0.71 | 4.22 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 4.11 | 0.71 | 4.22 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 4.11 | 0.71 | 4.22 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 20 | 4.11 | 0.51 | 4.03 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 4.11 | 0.69 | 4.11 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 20 | 4.11 | 0.51 | 4.03 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 20 | 4.11 | 0.33 | 4.15 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 20 | 4.11 | 0.33 | 4.15 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 20 | 4.11 | 0.57 | 4.3 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 20 | 4.11 | 0.34 | 4.09 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 20 | 4.11 | 0.57 | 4.3 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 20 | 4.11 | 0.36 | 4.14 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 20 | 4.11 | 0.36 | 4.14 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 20 | 4.11 | 0.76 | 4.1 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 20 | 4.11 | 0.23 | 4.14 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 20 | 4.11 | 0.23 | 4.14 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 20 | 4.11 | 0.15 | 4.08 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 20 | 4.11 | 1.26 | 3.58 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 20 | 4.11 | 0.15 | 4.08 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 20 | 4.11 | 1.26 | 3.58 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 20 | 4.11 | 1.07 | 3.98 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 20 | 4.11 | 1.07 | 3.98 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 20 | 4.11 | 1.07 | 3.98 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 20 | 4.11 | 1.07 | 3.98 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 20 | 4.11 | 1.07 | 3.98 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 20 | 4.11 | 1.07 | 3.98 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 4.11 | 0.98 | 4.16 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 20 | 4.11 | 1.07 | 3.98 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 20 | 4.11 | 1.07 | 3.98 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 20 | 4.11 | 1.07 | 3.98 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 20 | 4.11 | 1.07 | 3.98 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 20 | 4.11 | 1.07 | 3.98 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 20 | 4.11 | 1.07 | 3.98 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 20 | 4.11 | 0.09 | 4.07 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 20 | 4.11 | 0.09 | 4.07 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 20 | 4.1 | 0.57 | 4.04 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 20 | 4.1 | 0.57 | 4.04 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 20 | 4.1 | 0.57 | 4.04 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 20 | 4.1 | 0.57 | 4.04 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 20 | 4.1 | 0.57 | 4.04 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 20 | 4.1 | 0.57 | 4.04 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 20 | 4.1 | 0.74 | 3.8 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 20 | 4.1 | 0.74 | 3.8 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 20 | 4.1 | 0.74 | 3.8 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 20 | 4.1 | 0.32 | 4.18 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 20 | 4.1 | 0.32 | 4.18 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 20 | 4.1 | 0.32 | 4.18 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 20 | 4.1 | 0.54 | 4.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 20 | 4.1 | 0.54 | 4.13 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 20 | 4.1 | 0.54 | 4.13 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 20 | 4.1 | 0.54 | 4.13 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 20 | 4.1 | 0.54 | 4.13 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 20 | 4.1 | 0.54 | 4.13 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 20 | 4.1 | 0.54 | 4.13 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 20 | 4.1 | 0.54 | 4.13 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 20 | 4.1 | 0.54 | 4.13 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 20 | 4.1 | 1.38 | 3.7 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 20 | 4.1 | 1.38 | 3.7 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 20 | 4.1 | 1.38 | 3.7 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 20 | 4.1 | 1.38 | 3.7 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 20 | 4.1 | 1.38 | 3.7 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 20 | 4.1 | 1.38 | 3.7 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 4.1 | 0.43 | 4.18 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 20 | 4.1 | 0.19 | 4.08 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 20 | 4.1 | 0.19 | 4.08 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 20 | 4.1 | 1.39 | 3.5 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 20 | 4.1 | 1.39 | 3.5 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 20 | 4.1 | 1.39 | 3.5 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 20 | 4.1 | 0.63 | 4.27 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 20 | 4.1 | 0.63 | 4.27 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 20 | 4.1 | 0.53 | 3.96 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 20 | 4.1 | 0.53 | 3.96 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 20 | 4.1 | 0.85 | 4.06 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 20 | 4.1 | 0.85 | 4.06 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 20 | 4.1 | 0.85 | 4.06 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 20 | 4.1 | 0.85 | 4.06 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 20 | 4.1 | 0.85 | 4.06 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 20 | 4.1 | 0.85 | 4.06 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 20 | 4.1 | 0.3 | 4.22 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 20 | 4.1 | 0.3 | 4.22 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 20 | 4.09 | 0.33 | 4.12 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 20 | 4.09 | 0.33 | 4.12 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 20 | 4.09 | 0.33 | 4.12 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 20 | 4.09 | 0.33 | 4.12 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 20 | 4.09 | 0.14 | 4.06 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 20 | 4.09 | 0.14 | 4.06 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 20 | 4.09 | 0.52 | 3.93 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 20 | 4.09 | 0.52 | 3.93 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 20 | 4.09 | 0.49 | 3.96 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 20 | 4.09 | 0.49 | 3.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 20 | 4.09 | 0.49 | 3.96 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 20 | 4.09 | 0.55 | 4.29 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 20 | 4.09 | 0.55 | 4.29 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 4.09 | 0.87 | 3.98 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 4.09 | 0.87 | 3.98 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 4.09 | 0.87 | 3.98 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 4.09 | 0.87 | 3.98 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 4.09 | 0.87 | 3.98 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 4.09 | 0.87 | 3.98 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 20 | 4.09 | 0.62 | 3.76 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 20 | 4.09 | 0.62 | 3.76 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 20 | 4.09 | 0.62 | 3.76 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 4.09 | 0.87 | 3.98 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 4.09 | 0.87 | 3.98 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 4.09 | 0.87 | 3.98 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 4.09 | 0.87 | 3.98 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 4.09 | 0.87 | 3.98 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 4.09 | 0.87 | 3.98 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 20 | 4.09 | 0.7 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 20 | 4.09 | 0.7 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 20 | 4.09 | 0.7 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 20 | 4.09 | 0.7 | 3.89 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 20 | 4.09 | 0.7 | 3.99 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 20 | 4.09 | 0.7 | 3.99 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 20 | 4.09 | 0.7 | 3.99 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 20 | 4.09 | 0.48 | 4.22 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 20 | 4.09 | 0.48 | 4.22 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 20 | 4.08 | 0.0 | 4.08 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 20 | 4.08 | 0.23 | 4.12 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 20 | 4.08 | 0.23 | 4.12 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 20 | 4.08 | 0.23 | 4.12 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 20 | 4.08 | 0.09 | 4.08 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 20 | 4.08 | 0.8 | 4.02 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 20 | 4.08 | 0.8 | 4.02 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 20 | 4.08 | 0.8 | 4.02 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 4.08 | 0.36 | 4.22 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 20 | 4.08 | 0.34 | 4.08 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 20 | 4.08 | 0.34 | 4.08 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 4.08 | 1.15 | 3.84 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 4.08 | 1.15 | 3.84 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 20 | 4.08 | 0.26 | 4.07 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 20 | 4.08 | 0.26 | 4.07 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 20 | 4.08 | 0.28 | 4.11 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 20 | 4.08 | 0.28 | 4.11 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 20 | 4.08 | 0.18 | 4.06 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 20 | 4.08 | 0.18 | 4.06 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 20 | 4.08 | 0.18 | 4.06 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 20 | 4.08 | 0.18 | 4.06 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 20 | 4.08 | 0.18 | 4.06 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 20 | 4.08 | 0.18 | 4.06 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 20 | 4.08 | 0.2 | 4.0 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 20 | 4.08 | 0.2 | 4.0 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 20 | 4.08 | 0.56 | 3.81 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 20 | 4.08 | 0.56 | 3.81 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 20 | 4.08 | 0.36 | 4.2 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 20 | 4.08 | 0.36 | 4.2 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 20 | 4.08 | 0.36 | 4.2 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 20 | 4.08 | 0.36 | 4.2 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 20 | 4.08 | 0.36 | 4.2 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 20 | 4.08 | 0.36 | 4.2 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 4.07 | 0.56 | 4.22 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 4.07 | 0.56 | 4.22 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 20 | 4.07 | 0.59 | 4.33 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 20 | 4.07 | 0.29 | 4.16 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 20 | 4.07 | 0.37 | 4.3 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 20 | 4.07 | 0.37 | 4.3 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 20 | 4.07 | 0.37 | 4.3 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 20 | 4.07 | 0.37 | 4.3 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 20 | 4.07 | 0.37 | 4.3 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 20 | 4.07 | 0.37 | 4.3 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 20 | 4.07 | 1.31 | 3.9 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 4.07 | 0.83 | 3.92 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 4.07 | 0.83 | 3.92 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 4.07 | 0.83 | 3.92 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 4.07 | 0.83 | 3.92 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 20 | 4.07 | 0.57 | 4.0 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 20 | 4.07 | 1.07 | 4.25 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 20 | 4.07 | 0.6 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 20 | 4.07 | 0.6 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 20 | 4.07 | 0.6 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 20 | 4.07 | 0.6 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 20 | 4.07 | 0.6 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 20 | 4.07 | 0.6 | 4.08 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 4.07 | 0.95 | 4.12 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 20 | 4.06 | 0.31 | 4.11 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 20 | 4.06 | 0.31 | 4.11 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 20 | 4.06 | 0.31 | 4.11 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 20 | 4.06 | 0.47 | 4.28 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 20 | 4.06 | 0.47 | 4.28 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 20 | 4.06 | 0.58 | 4.01 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 20 | 4.06 | 0.58 | 4.01 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 20 | 4.06 | 0.18 | 4.08 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 4.06 | 0.44 | 4.11 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 20 | 4.06 | 0.35 | 4.15 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 20 | 4.06 | 0.35 | 4.15 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 20 | 4.06 | 0.15 | 4.06 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 20 | 4.06 | 0.15 | 4.06 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 4.06 | 0.82 | 4.41 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 4.06 | 1.15 | 4.04 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 4.06 | 1.15 | 4.04 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 4.06 | 1.15 | 4.04 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 4.06 | 0.76 | 4.18 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 4.06 | 0.76 | 4.18 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 4.06 | 0.95 | 3.72 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 4.06 | 0.95 | 3.72 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 20 | 4.06 | 0.48 | 4.38 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 4.06 | 0.56 | 4.38 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 20 | 4.06 | 0.53 | 4.1 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 20 | 4.06 | 0.53 | 4.1 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 4.06 | 0.48 | 4.04 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 4.06 | 0.48 | 4.04 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 4.06 | 0.48 | 4.04 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 4.06 | 0.48 | 4.04 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 4.06 | 0.48 | 4.04 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 4.06 | 0.48 | 4.04 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 20 | 4.05 | 0.35 | 3.98 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 20 | 4.05 | 0.35 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 20 | 4.05 | 0.35 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 20 | 4.05 | 0.35 | 3.98 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 20 | 4.05 | 0.75 | 4.31 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 20 | 4.05 | 0.75 | 4.31 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 20 | 4.05 | 0.59 | 4.33 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 20 | 4.05 | 0.59 | 4.33 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 20 | 4.05 | 0.59 | 4.33 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 20 | 4.05 | 0.59 | 4.33 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 20 | 4.05 | 0.59 | 4.33 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 20 | 4.05 | 0.59 | 4.33 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 20 | 4.05 | 0.95 | 3.88 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 20 | 4.05 | 0.95 | 3.88 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 20 | 4.05 | 0.2 | 4.0 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 4.05 | 0.88 | 3.72 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 4.05 | 0.88 | 3.72 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 4.05 | 0.88 | 3.72 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 4.05 | 0.88 | 3.72 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 4.05 | 0.88 | 3.72 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 4.05 | 0.88 | 3.72 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 4.05 | 0.88 | 3.72 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 4.05 | 0.88 | 3.72 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 4.05 | 0.88 | 3.72 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 4.05 | 0.88 | 3.72 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 4.05 | 0.88 | 3.72 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 4.05 | 0.88 | 3.72 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 20 | 4.05 | 0.57 | 4.17 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 20 | 4.05 | 0.57 | 4.17 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 4.05 | 0.98 | 3.85 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 4.05 | 0.98 | 3.85 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 4.05 | 0.98 | 3.85 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 20 | 4.05 | 0.74 | 3.74 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 20 | 4.05 | 0.74 | 3.74 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 20 | 4.05 | 0.74 | 3.74 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 20 | 4.05 | 0.74 | 3.74 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 20 | 4.05 | 0.74 | 3.74 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 20 | 4.05 | 0.74 | 3.74 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 20 | 4.05 | 0.72 | 4.13 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 20 | 4.05 | 0.72 | 4.13 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 20 | 4.05 | 0.72 | 4.13 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 20 | 4.05 | 0.72 | 4.13 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 20 | 4.05 | 0.72 | 4.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 20 | 4.05 | 0.72 | 4.13 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 20 | 4.05 | 0.45 | 4.2 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 20 | 4.05 | 0.45 | 4.2 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 20 | 4.04 | 0.48 | 4.1 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 20 | 4.04 | 0.48 | 4.1 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 20 | 4.04 | 0.5 | 4.14 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 20 | 4.04 | 0.5 | 4.14 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 4.04 | 0.92 | 3.9 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 4.04 | 0.92 | 3.9 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 4.04 | 0.92 | 3.9 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 4.04 | 0.38 | 3.96 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 20 | 4.04 | 0.38 | 3.96 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 4.04 | 0.38 | 3.96 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 20 | 4.04 | 0.38 | 3.96 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 20 | 4.04 | 0.12 | 4.01 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 20 | 4.04 | 0.12 | 4.01 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 4.04 | 1.65 | 3.45 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 4.04 | 1.65 | 3.45 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 4.04 | 1.65 | 3.45 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 4.04 | 1.65 | 3.45 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 4.04 | 1.65 | 3.45 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 4.04 | 1.65 | 3.45 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 4.04 | 1.65 | 3.45 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 4.04 | 1.65 | 3.45 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 4.04 | 1.65 | 3.45 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 4.04 | 1.65 | 3.45 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 4.04 | 1.65 | 3.45 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 4.04 | 1.65 | 3.45 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 4.04 | 1.17 | 4.61 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 20 | 4.04 | 1.25 | 3.36 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 20 | 4.04 | 1.25 | 3.36 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 20 | 4.04 | 0.09 | 4.04 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 20 | 4.04 | 0.09 | 4.04 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 20 | 4.04 | 0.61 | 4.38 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 20 | 4.04 | 0.61 | 4.38 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 20 | 4.04 | 0.25 | 4.05 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 20 | 4.04 | 0.25 | 4.05 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 20 | 4.04 | 0.25 | 4.05 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 20 | 4.04 | 0.25 | 4.05 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 20 | 4.04 | 0.25 | 4.05 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 20 | 4.04 | 0.25 | 4.05 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 20 | 4.04 | 0.61 | 4.04 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 4.04 | 0.7 | 4.44 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 20 | 4.04 | 0.4 | 4.1 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 20 | 4.04 | 0.4 | 4.1 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 20 | 4.04 | 0.4 | 4.1 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 20 | 4.04 | 0.4 | 4.1 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 4.04 | 1.31 | 4.2 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 4.04 | 0.47 | 4.02 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 20 | 4.04 | 0.4 | 4.16 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 20 | 4.04 | 0.4 | 4.16 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 4.04 | 0.99 | 4.14 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 4.04 | 0.99 | 4.14 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 20 | 4.04 | 0.4 | 4.16 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 20 | 4.04 | 0.4 | 4.16 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 4.04 | 0.99 | 4.14 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 4.04 | 0.99 | 4.14 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 20 | 4.03 | 0.13 | 4.03 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 20 | 4.03 | 0.13 | 4.03 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 20 | 4.03 | 0.15 | 3.98 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 20 | 4.03 | 0.15 | 3.98 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 20 | 4.03 | 0.67 | 4.03 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 20 | 4.03 | 0.67 | 4.03 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 20 | 4.03 | 0.67 | 4.03 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 20 | 4.03 | 0.67 | 4.03 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 20 | 4.03 | 0.73 | 3.81 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 4.03 | 0.44 | 4.12 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 4.03 | 0.44 | 4.12 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 4.03 | 0.44 | 4.12 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 4.03 | 0.44 | 4.12 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 4.03 | 0.44 | 4.12 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 4.03 | 0.44 | 4.12 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 4.03 | 0.44 | 4.12 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 4.03 | 0.44 | 4.12 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 4.03 | 0.44 | 4.12 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 4.03 | 0.44 | 4.12 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 4.03 | 0.44 | 4.12 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 4.03 | 0.44 | 4.12 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 20 | 4.03 | 0.24 | 4.02 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 20 | 4.03 | 0.24 | 4.02 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 20 | 4.03 | 0.24 | 4.02 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 20 | 4.03 | 0.67 | 4.25 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 20 | 4.03 | 0.67 | 4.25 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 20 | 4.03 | 0.67 | 4.25 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 20 | 4.03 | 0.67 | 4.25 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 20 | 4.03 | 0.67 | 4.25 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 20 | 4.03 | 0.67 | 4.25 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 4.03 | 0.75 | 4.35 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 20 | 4.03 | 0.7 | 3.97 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 20 | 4.03 | 0.7 | 3.97 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 20 | 4.03 | 0.7 | 3.97 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 20 | 4.03 | 0.7 | 3.97 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 20 | 4.03 | 0.7 | 3.97 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 20 | 4.03 | 0.7 | 3.97 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 4.03 | 0.31 | 4.04 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 20 | 4.03 | 1.05 | 3.66 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 20 | 4.03 | 0.57 | 4.29 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 20 | 4.03 | 0.57 | 4.29 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 4.03 | 0.8 | 4.19 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 4.03 | 0.8 | 4.19 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 4.03 | 0.8 | 4.19 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 20 | 4.03 | 1.09 | 4.03 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 20 | 4.03 | 0.13 | 4.03 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 4.03 | 0.57 | 3.94 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 4.03 | 0.57 | 3.94 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 4.03 | 0.57 | 3.94 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 20 | 4.02 | 0.33 | 3.97 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 20 | 4.02 | 0.33 | 3.97 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 20 | 4.02 | 0.33 | 3.97 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 20 | 4.02 | 0.33 | 3.97 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 20 | 4.02 | 0.33 | 3.97 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 20 | 4.02 | 0.33 | 3.97 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 4.02 | 0.71 | 4.26 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 20 | 4.02 | 0.56 | 4.36 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 20 | 4.02 | 0.35 | 4.14 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 20 | 4.02 | 0.35 | 4.14 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 20 | 4.02 | 0.35 | 4.14 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 4.02 | 0.32 | 4.0 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 20 | 4.02 | 0.44 | 3.94 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 20 | 4.02 | 0.74 | 3.68 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 20 | 4.02 | 0.35 | 3.95 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 20 | 4.02 | 0.35 | 3.95 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 20 | 4.02 | 0.31 | 4.03 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 20 | 4.02 | 0.31 | 4.03 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 20 | 4.02 | 0.31 | 4.03 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 20 | 4.02 | 0.31 | 4.03 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 20 | 4.02 | 1.31 | 3.96 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 20 | 4.02 | 1.31 | 3.96 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 4.02 | 0.69 | 4.02 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 20 | 4.02 | 2.16 | 4.36 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 20 | 4.02 | 0.91 | 3.93 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 20 | 4.02 | 0.91 | 3.93 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 20 | 4.02 | 0.91 | 3.93 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 20 | 4.02 | 0.91 | 3.93 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 20 | 4.02 | 0.91 | 3.93 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 20 | 4.02 | 0.91 | 3.93 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 20 | 4.02 | 0.91 | 3.93 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 20 | 4.02 | 0.91 | 3.93 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 20 | 4.02 | 0.91 | 3.93 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 20 | 4.02 | 0.91 | 3.93 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 20 | 4.02 | 0.91 | 3.93 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 20 | 4.02 | 0.91 | 3.93 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 20 | 4.02 | 0.55 | 3.88 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 20 | 4.02 | 0.5 | 4.2 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 4.02 | 1.04 | 4.04 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 4.02 | 1.04 | 4.04 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 20 | 4.02 | 0.5 | 4.2 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 20 | 4.02 | 0.3 | 3.96 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 20 | 4.02 | 0.3 | 3.96 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 20 | 4.02 | 0.3 | 3.96 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 20 | 4.01 | 0.15 | 4.03 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 20 | 4.01 | 0.15 | 4.03 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 20 | 4.01 | 0.66 | 4.33 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 20 | 4.01 | 0.66 | 4.33 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 20 | 4.01 | 0.68 | 3.82 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 20 | 4.01 | 0.68 | 3.82 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 20 | 4.01 | 0.68 | 3.82 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 4.01 | 0.85 | 3.93 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 4.01 | 0.94 | 3.86 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 20 | 4.01 | 0.94 | 3.86 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 4.01 | 0.94 | 3.86 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 20 | 4.01 | 0.94 | 3.86 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 4.01 | 0.94 | 3.86 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 20 | 4.01 | 0.94 | 3.86 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 4.01 | 0.94 | 3.86 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 20 | 4.01 | 0.94 | 3.86 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 20 | 4.01 | 0.51 | 4.0 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 20 | 4.01 | 0.51 | 4.0 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 20 | 4.01 | 0.51 | 4.0 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 20 | 4.01 | 0.51 | 4.0 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 20 | 4.01 | 0.51 | 4.0 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 20 | 4.01 | 0.51 | 4.0 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 20 | 4.01 | 0.51 | 4.0 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 20 | 4.01 | 0.51 | 4.0 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 20 | 4.01 | 0.51 | 4.0 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 20 | 4.01 | 0.51 | 4.0 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 20 | 4.01 | 0.51 | 4.0 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 20 | 4.01 | 0.51 | 4.0 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 20 | 4.01 | 0.51 | 4.0 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 20 | 4.01 | 0.51 | 4.0 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 20 | 4.01 | 0.51 | 4.0 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 20 | 4.01 | 0.51 | 4.0 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 20 | 4.01 | 0.51 | 4.0 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 20 | 4.01 | 0.51 | 4.0 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 20 | 4.01 | 0.67 | 4.33 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 20 | 4.01 | 0.67 | 4.33 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 20 | 4.01 | 0.16 | 4.06 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 20 | 4.01 | 0.16 | 4.06 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 20 | 4.01 | 0.16 | 4.06 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 4.01 | 1.3 | 4.16 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 4.01 | 1.3 | 4.16 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 4.01 | 1.3 | 4.16 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 4.01 | 0.88 | 3.98 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 4.01 | 0.88 | 3.98 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 4.01 | 0.88 | 3.98 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 20 | 4.01 | 0.82 | 4.34 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 20 | 4.01 | 0.18 | 4.04 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 20 | 4.01 | 0.59 | 3.76 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 20 | 4.01 | 0.93 | 3.8 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 20 | 4.01 | 0.93 | 3.8 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 20 | 4.01 | 0.93 | 3.8 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 20 | 4.01 | 0.93 | 3.8 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 20 | 4.01 | 0.93 | 3.8 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 20 | 4.01 | 0.93 | 3.8 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 20 | 4.01 | 0.93 | 3.8 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 20 | 4.01 | 0.93 | 3.8 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 20 | 4.01 | 0.93 | 3.8 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 4.01 | 0.37 | 4.04 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 4.01 | 0.37 | 4.04 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 4.01 | 0.37 | 4.04 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 4.01 | 0.37 | 4.04 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 4.01 | 0.37 | 4.04 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 4.01 | 0.37 | 4.04 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 4.0 | 1.29 | 4.07 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 4.0 | 1.29 | 4.07 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 4.0 | 1.29 | 4.07 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 4.0 | 1.29 | 4.07 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 4.0 | 1.29 | 4.07 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 4.0 | 1.29 | 4.07 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 20 | 4.0 | 0.07 | 4.0 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 4.0 | 1.29 | 4.07 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 4.0 | 1.29 | 4.07 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 4.0 | 1.29 | 4.07 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 4.0 | 1.29 | 4.07 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 4.0 | 1.29 | 4.07 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 4.0 | 1.29 | 4.07 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 20 | 4.0 | 0.71 | 3.94 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 4.0 | 0.71 | 3.94 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 20 | 4.0 | 0.71 | 3.94 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 20 | 4.0 | 0.71 | 3.94 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 4.0 | 0.71 | 3.94 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 20 | 4.0 | 0.71 | 3.94 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 20 | 4.0 | 1.06 | 4.18 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 20 | 4.0 | 1.06 | 4.18 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 20 | 4.0 | 0.51 | 4.19 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 20 | 4.0 | 0.51 | 4.19 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 20 | 4.0 | 0.34 | 4.09 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 20 | 4.0 | 0.18 | 4.0 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 4.0 | 0.46 | 3.98 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 4.0 | 0.46 | 3.98 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 4.0 | 0.46 | 3.98 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 20 | 4.0 | 0.32 | 4.0 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 20 | 4.0 | 0.1 | 4.0 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 20 | 4.0 | 0.1 | 4.0 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 20 | 4.0 | 0.1 | 4.0 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 20 | 4.0 | 0.32 | 4.0 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 20 | 4.0 | 0.1 | 4.0 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 20 | 4.0 | 0.1 | 4.0 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 20 | 4.0 | 0.1 | 4.0 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 20 | 4.0 | 0.51 | 4.3 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 20 | 4.0 | 0.51 | 4.3 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 20 | 4.0 | 0.51 | 4.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 20 | 4.0 | 0.51 | 4.3 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 20 | 4.0 | 0.69 | 4.2 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 20 | 4.0 | 0.95 | 4.27 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 20 | 4.0 | 0.95 | 4.27 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 20 | 4.0 | 0.69 | 4.2 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 20 | 4.0 | 0.95 | 4.27 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 20 | 4.0 | 0.95 | 4.27 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 20 | 4.0 | 0.12 | 3.99 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 20 | 4.0 | 0.12 | 3.99 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 20 | 4.0 | 0.12 | 3.99 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 20 | 4.0 | 0.12 | 3.99 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 20 | 4.0 | 0.12 | 3.99 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 20 | 4.0 | 0.12 | 3.99 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 20 | 4.0 | 0.49 | 3.9 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 4.0 | 0.57 | 3.96 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 4.0 | 0.57 | 3.96 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 4.0 | 0.57 | 3.96 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 20 | 4.0 | 1.36 | 3.48 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 20 | 4.0 | 1.36 | 3.48 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 20 | 3.99 | 0.43 | 4.24 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 20 | 3.99 | 0.43 | 4.24 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 20 | 3.99 | 0.81 | 3.95 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 20 | 3.99 | 0.81 | 3.95 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 3.99 | 0.65 | 4.17 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 3.99 | 0.65 | 4.17 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 3.99 | 0.65 | 4.17 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 20 | 3.99 | 0.65 | 4.17 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 20 | 3.99 | 0.65 | 4.17 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 20 | 3.99 | 0.65 | 4.17 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 3.99 | 0.65 | 4.17 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 3.99 | 0.65 | 4.17 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 3.99 | 0.65 | 4.17 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 20 | 3.99 | 0.65 | 4.17 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 20 | 3.99 | 0.65 | 4.17 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 20 | 3.99 | 0.65 | 4.17 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 20 | 3.99 | 0.94 | 3.67 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 20 | 3.99 | 0.94 | 3.67 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 20 | 3.99 | 0.94 | 3.67 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 20 | 3.99 | 1.4 | 3.51 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 20 | 3.99 | 0.49 | 4.22 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 20 | 3.99 | 0.49 | 4.22 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 20 | 3.99 | 0.47 | 3.94 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 20 | 3.99 | 0.47 | 3.94 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 20 | 3.99 | 0.82 | 4.02 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 20 | 3.98 | 0.96 | 4.5 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 20 | 3.98 | 0.68 | 3.76 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 20 | 3.98 | 0.68 | 3.76 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 20 | 3.98 | 0.68 | 3.76 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 20 | 3.98 | 0.41 | 3.86 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 20 | 3.98 | 0.41 | 3.86 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 20 | 3.98 | 0.41 | 3.86 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 20 | 3.98 | 0.41 | 3.86 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 20 | 3.98 | 0.41 | 3.86 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 20 | 3.98 | 0.41 | 3.86 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 20 | 3.98 | 0.73 | 3.96 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 20 | 3.98 | 0.73 | 3.96 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 20 | 3.98 | 0.73 | 3.96 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 20 | 3.98 | 0.79 | 4.06 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 20 | 3.98 | 0.79 | 4.06 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 20 | 3.98 | 0.79 | 4.06 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 20 | 3.98 | 0.28 | 3.88 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 20 | 3.98 | 0.28 | 3.88 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 20 | 3.98 | 0.28 | 3.88 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 20 | 3.98 | 0.28 | 3.88 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 20 | 3.98 | 1.02 | 3.61 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 20 | 3.98 | 1.02 | 3.61 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 20 | 3.98 | 1.02 | 3.61 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 20 | 3.98 | 0.5 | 4.11 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 3.98 | 0.87 | 4.26 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 20 | 3.98 | 0.94 | 3.92 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 20 | 3.98 | 0.94 | 3.92 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 20 | 3.98 | 0.15 | 3.94 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 20 | 3.98 | 0.15 | 3.94 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 20 | 3.98 | 0.15 | 3.94 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 3.98 | 0.32 | 3.97 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 3.98 | 0.32 | 3.97 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 3.98 | 0.32 | 3.97 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 3.98 | 0.32 | 3.97 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 3.98 | 0.32 | 3.97 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 3.98 | 0.32 | 3.97 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 3.98 | 0.32 | 3.97 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 3.98 | 0.32 | 3.97 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 20 | 3.98 | 0.72 | 3.84 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 20 | 3.98 | 0.72 | 3.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 20 | 3.98 | 0.72 | 3.84 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 20 | 3.98 | 0.72 | 3.84 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 20 | 3.98 | 0.72 | 3.84 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 20 | 3.98 | 0.72 | 3.84 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 20 | 3.98 | 0.72 | 3.84 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 20 | 3.98 | 0.72 | 3.84 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 20 | 3.98 | 0.72 | 3.84 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 3.98 | 0.22 | 4.01 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 3.98 | 1.13 | 4.36 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 3.98 | 1.13 | 4.36 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 3.98 | 1.13 | 4.36 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 20 | 3.98 | 0.37 | 3.97 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 20 | 3.97 | 0.09 | 3.98 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 20 | 3.97 | 0.09 | 3.98 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 3.97 | 0.62 | 4.03 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 3.97 | 0.62 | 4.03 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 20 | 3.97 | 0.5 | 4.03 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 20 | 3.97 | 0.5 | 4.03 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 20 | 3.97 | 0.5 | 4.03 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 20 | 3.97 | 0.5 | 4.03 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 20 | 3.97 | 0.5 | 4.03 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 20 | 3.97 | 0.5 | 4.03 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 20 | 3.97 | 0.5 | 4.03 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 20 | 3.97 | 0.5 | 4.03 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 20 | 3.97 | 0.5 | 4.03 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 20 | 3.97 | 0.5 | 4.03 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 20 | 3.97 | 0.5 | 4.03 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 20 | 3.97 | 0.5 | 4.03 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 3.97 | 0.6 | 3.93 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 3.97 | 0.66 | 4.19 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 3.97 | 0.66 | 4.19 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 20 | 3.97 | 0.6 | 4.02 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 20 | 3.97 | 1.42 | 3.67 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 20 | 3.97 | 1.42 | 3.67 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 20 | 3.97 | 1.42 | 3.67 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 20 | 3.97 | 1.42 | 3.67 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 20 | 3.97 | 0.78 | 3.92 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 20 | 3.97 | 0.78 | 3.92 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 20 | 3.97 | 0.78 | 3.92 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 20 | 3.97 | 0.04 | 3.98 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 20 | 3.97 | 0.04 | 3.98 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 3.97 | 0.74 | 3.49 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 20 | 3.97 | 0.04 | 3.98 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 20 | 3.97 | 0.04 | 3.98 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 20 | 3.97 | 0.83 | 3.91 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 3.97 | 0.52 | 4.26 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 3.97 | 0.52 | 4.26 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 3.97 | 0.52 | 4.26 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 3.97 | 0.52 | 4.26 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 20 | 3.96 | 0.41 | 4.06 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 20 | 3.96 | 0.23 | 3.94 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 20 | 3.96 | 0.23 | 3.94 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 20 | 3.96 | 0.23 | 3.94 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 20 | 3.96 | 0.23 | 3.94 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 20 | 3.96 | 0.23 | 3.94 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 20 | 3.96 | 0.23 | 3.94 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 20 | 3.96 | 0.63 | 4.08 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 20 | 3.96 | 0.63 | 4.08 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 20 | 3.96 | 0.63 | 4.08 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 20 | 3.96 | 0.63 | 4.08 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 20 | 3.96 | 1.03 | 3.68 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 20 | 3.96 | 1.03 | 3.68 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 20 | 3.96 | 1.03 | 3.68 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 20 | 3.96 | 1.03 | 3.68 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 20 | 3.96 | 1.03 | 3.68 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 20 | 3.96 | 1.03 | 3.68 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 20 | 3.96 | 1.03 | 3.68 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 20 | 3.96 | 1.03 | 3.68 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 20 | 3.96 | 1.03 | 3.68 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 20 | 3.96 | 1.03 | 3.68 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 20 | 3.96 | 1.03 | 3.68 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 20 | 3.96 | 1.03 | 3.68 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 20 | 3.96 | 1.03 | 3.68 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 20 | 3.96 | 1.03 | 3.68 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 20 | 3.96 | 1.03 | 3.68 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 20 | 3.96 | 1.03 | 3.68 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 20 | 3.96 | 1.03 | 3.68 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 20 | 3.96 | 1.03 | 3.68 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 20 | 3.96 | 0.71 | 3.96 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 20 | 3.96 | 0.71 | 3.96 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 20 | 3.96 | 0.71 | 3.96 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 20 | 3.96 | 0.16 | 3.95 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 20 | 3.96 | 0.16 | 3.95 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 20 | 3.96 | 0.16 | 3.95 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 20 | 3.96 | 0.16 | 3.95 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 20 | 3.96 | 0.16 | 3.95 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 20 | 3.96 | 0.16 | 3.95 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 3.96 | 1.11 | 4.07 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 20 | 3.96 | 0.28 | 3.88 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 20 | 3.96 | 0.18 | 3.91 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 20 | 3.96 | 0.18 | 3.91 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 20 | 3.96 | 0.18 | 3.91 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 20 | 3.96 | 0.28 | 3.88 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 20 | 3.96 | 0.18 | 3.91 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 20 | 3.96 | 0.18 | 3.91 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 20 | 3.96 | 0.18 | 3.91 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 20 | 3.96 | 0.27 | 4.04 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 20 | 3.96 | 0.27 | 4.04 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 20 | 3.95 | 0.3 | 4.12 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 3.95 | 0.39 | 3.86 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 20 | 3.95 | 0.2 | 3.92 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 20 | 3.95 | 0.2 | 3.92 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 20 | 3.95 | 0.2 | 3.92 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 20 | 3.95 | 0.2 | 3.92 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 20 | 3.95 | 0.2 | 3.92 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 20 | 3.95 | 0.2 | 3.92 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 20 | 3.95 | 0.8 | 4.08 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 20 | 3.95 | 0.45 | 3.8 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 20 | 3.95 | 0.45 | 3.8 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 20 | 3.95 | 0.45 | 3.8 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 3.95 | 0.62 | 4.25 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 3.95 | 0.62 | 4.25 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 3.95 | 1.02 | 3.58 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 20 | 3.95 | 0.87 | 3.65 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 20 | 3.95 | 0.87 | 3.65 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 20 | 3.95 | 0.87 | 3.65 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 20 | 3.95 | 0.25 | 3.98 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 20 | 3.95 | 0.25 | 3.98 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 3.95 | 1.79 | 4.0 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 20 | 3.95 | 0.25 | 3.93 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 20 | 3.95 | 0.25 | 3.93 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 20 | 3.95 | 0.25 | 3.93 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 20 | 3.95 | 0.25 | 3.93 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 20 | 3.95 | 0.25 | 3.93 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 20 | 3.95 | 0.25 | 3.93 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 3.95 | 0.68 | 3.9 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 3.95 | 0.68 | 3.9 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 3.95 | 0.68 | 3.9 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 20 | 3.95 | 0.36 | 3.98 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 20 | 3.95 | 0.36 | 3.98 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 20 | 3.95 | 0.36 | 3.98 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 20 | 3.95 | 0.36 | 3.98 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 20 | 3.95 | 0.6 | 3.82 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 20 | 3.95 | 0.6 | 3.82 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 20 | 3.95 | 0.6 | 3.82 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 20 | 3.95 | 0.63 | 4.02 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 20 | 3.95 | 0.63 | 4.02 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 20 | 3.95 | 0.52 | 3.94 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 20 | 3.95 | 0.52 | 3.94 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 20 | 3.95 | 0.52 | 3.94 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 3.94 | 0.82 | 3.5 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 3.94 | 0.82 | 3.5 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 3.94 | 0.82 | 3.5 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 20 | 3.94 | 0.27 | 3.9 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 20 | 3.94 | 0.27 | 3.9 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 20 | 3.94 | 0.27 | 3.9 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 20 | 3.94 | 0.27 | 3.9 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 20 | 3.94 | 0.27 | 3.9 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 20 | 3.94 | 0.27 | 3.9 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 20 | 3.94 | 3.14 | 3.35 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 20 | 3.94 | 3.14 | 3.35 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 20 | 3.94 | 3.14 | 3.35 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 20 | 3.94 | 0.23 | 3.95 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 20 | 3.94 | 0.23 | 3.95 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 20 | 3.94 | 0.33 | 4.02 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 3.94 | 0.33 | 4.02 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 3.94 | 0.53 | 4.06 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 20 | 3.94 | 0.33 | 4.02 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 3.94 | 0.33 | 4.02 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 20 | 3.94 | 0.54 | 3.9 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 20 | 3.94 | 0.38 | 4.07 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 3.94 | 0.19 | 4.01 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 3.94 | 0.19 | 4.01 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 3.94 | 0.19 | 4.01 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 3.94 | 0.19 | 4.01 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 20 | 3.94 | 0.44 | 4.15 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 20 | 3.94 | 0.61 | 3.98 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 20 | 3.94 | 0.61 | 3.98 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 20 | 3.94 | 0.61 | 3.98 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 20 | 3.94 | 0.61 | 3.98 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 20 | 3.94 | 0.61 | 3.98 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 20 | 3.94 | 0.61 | 3.98 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 20 | 3.94 | 0.61 | 3.98 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 20 | 3.94 | 0.61 | 3.98 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 20 | 3.94 | 0.61 | 3.98 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 20 | 3.94 | 0.61 | 3.98 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 20 | 3.94 | 0.61 | 3.98 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 20 | 3.94 | 0.61 | 3.98 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 20 | 3.94 | 0.27 | 3.92 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 20 | 3.93 | 0.74 | 3.8 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 20 | 3.93 | 0.74 | 3.8 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 20 | 3.93 | 0.74 | 3.8 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 20 | 3.93 | 0.74 | 3.8 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 20 | 3.93 | 0.74 | 3.8 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 20 | 3.93 | 0.74 | 3.8 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 20 | 3.93 | 0.74 | 3.8 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 20 | 3.93 | 0.74 | 3.8 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 20 | 3.93 | 0.74 | 3.8 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 3.93 | 0.51 | 3.8 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 3.93 | 0.51 | 3.8 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 3.93 | 0.51 | 3.8 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 3.93 | 0.78 | 3.88 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 3.93 | 0.78 | 3.88 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 3.93 | 0.78 | 3.88 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 20 | 3.93 | 0.9 | 3.88 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 20 | 3.93 | 0.9 | 3.88 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 20 | 3.93 | 0.9 | 3.88 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 20 | 3.93 | 0.9 | 3.88 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 20 | 3.93 | 0.9 | 3.88 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 20 | 3.93 | 0.9 | 3.88 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 20 | 3.93 | 0.59 | 4.14 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 20 | 3.93 | 0.59 | 4.14 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 20 | 3.93 | 0.51 | 4.13 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 20 | 3.93 | 0.43 | 3.94 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 20 | 3.93 | 0.43 | 3.94 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 20 | 3.93 | 0.51 | 4.13 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 20 | 3.93 | 1.35 | 3.88 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 20 | 3.93 | 1.35 | 3.88 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 20 | 3.93 | 1.35 | 3.88 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 20 | 3.93 | 1.35 | 3.88 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 20 | 3.93 | 1.35 | 3.88 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 20 | 3.93 | 1.35 | 3.88 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 20 | 3.93 | 0.86 | 4.13 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 20 | 3.93 | 0.49 | 3.88 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 20 | 3.92 | 0.61 | 3.7 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 20 | 3.92 | 2.37 | 3.14 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 20 | 3.92 | 0.61 | 3.7 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 20 | 3.92 | 0.2 | 3.91 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 20 | 3.92 | 0.42 | 4.01 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 20 | 3.92 | 0.42 | 4.01 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 20 | 3.92 | 0.42 | 4.01 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 20 | 3.92 | 0.2 | 3.91 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 20 | 3.92 | 0.42 | 4.01 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 20 | 3.92 | 0.42 | 4.01 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 20 | 3.92 | 0.42 | 4.01 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 20 | 3.92 | 0.29 | 3.88 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 20 | 3.92 | 0.29 | 3.88 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 20 | 3.92 | 0.29 | 3.88 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 20 | 3.92 | 0.29 | 3.88 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 3.92 | 0.44 | 3.96 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 20 | 3.92 | 0.44 | 3.96 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 3.92 | 0.91 | 3.76 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 3.92 | 0.91 | 3.76 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 3.92 | 0.91 | 3.76 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 3.92 | 0.91 | 3.76 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 3.92 | 0.91 | 3.76 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 3.92 | 0.91 | 3.76 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 20 | 3.92 | 0.56 | 4.14 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 20 | 3.92 | 0.56 | 4.14 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 3.92 | 0.91 | 3.76 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 3.92 | 0.91 | 3.76 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 3.92 | 0.91 | 3.76 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 3.92 | 0.91 | 3.76 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 3.92 | 0.91 | 3.76 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 3.92 | 0.91 | 3.76 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 3.92 | 1.56 | 3.84 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 3.92 | 1.56 | 3.84 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 20 | 3.92 | 0.49 | 4.13 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 20 | 3.92 | 0.49 | 4.13 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 20 | 3.92 | 0.74 | 4.3 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 3.92 | 0.81 | 4.0 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 3.92 | 0.81 | 4.0 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 20 | 3.91 | 0.15 | 3.94 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 20 | 3.91 | 0.15 | 3.94 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 20 | 3.91 | 0.69 | 4.05 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 20 | 3.91 | 0.69 | 4.05 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.91 | 1.19 | 3.4 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 20 | 3.91 | 0.54 | 3.99 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 20 | 3.91 | 1.13 | 3.88 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 20 | 3.91 | 0.44 | 3.87 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 20 | 3.91 | 0.17 | 3.98 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 20 | 3.91 | 0.76 | 3.99 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 20 | 3.91 | 0.76 | 3.99 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 20 | 3.91 | 0.76 | 3.99 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 20 | 3.91 | 0.76 | 3.99 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 20 | 3.91 | 0.76 | 3.99 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 20 | 3.91 | 0.76 | 3.99 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 20 | 3.91 | 0.89 | 3.7 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 20 | 3.91 | 0.89 | 3.7 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 20 | 3.91 | 0.89 | 3.7 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 20 | 3.91 | 0.89 | 3.7 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 3.91 | 1.22 | 3.55 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 3.91 | 1.22 | 3.55 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 3.91 | 1.22 | 3.55 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 20 | 3.9 | 1.04 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 20 | 3.9 | 1.04 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 20 | 3.9 | 1.04 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 20 | 3.9 | 1.04 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 20 | 3.9 | 1.04 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 20 | 3.9 | 1.04 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 20 | 3.9 | 1.04 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 20 | 3.9 | 1.04 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 20 | 3.9 | 1.04 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 20 | 3.9 | 1.04 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 20 | 3.9 | 1.04 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 20 | 3.9 | 1.04 | 4.09 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 20 | 3.9 | 0.91 | 3.65 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 20 | 3.9 | 0.15 | 3.92 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 20 | 3.9 | 0.15 | 3.92 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 20 | 3.9 | 0.15 | 3.92 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 20 | 3.9 | 0.02 | 3.9 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 20 | 3.9 | 0.02 | 3.9 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 20 | 3.9 | 1.19 | 4.05 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 20 | 3.9 | 0.81 | 3.82 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 20 | 3.9 | 0.81 | 3.82 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 20 | 3.9 | 0.81 | 3.82 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 20 | 3.9 | 0.81 | 3.82 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 20 | 3.9 | 0.81 | 3.82 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 20 | 3.9 | 0.81 | 3.82 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 20 | 3.9 | 1.0 | 4.06 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 20 | 3.9 | 1.0 | 4.06 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 20 | 3.9 | 1.0 | 4.06 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 20 | 3.9 | 1.0 | 4.06 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 20 | 3.9 | 0.47 | 4.1 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 20 | 3.9 | 0.47 | 4.1 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 20 | 3.9 | 0.32 | 4.0 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 3.9 | 1.0 | 3.78 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 3.9 | 0.53 | 4.13 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 20 | 3.9 | 0.48 | 3.94 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 20 | 3.9 | 0.51 | 3.86 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 20 | 3.9 | 0.98 | 3.63 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 20 | 3.9 | 0.59 | 3.72 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 20 | 3.9 | 0.59 | 3.72 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 20 | 3.9 | 0.59 | 3.72 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 3.89 | 0.93 | 3.78 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 3.89 | 1.68 | 4.04 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 20 | 3.89 | 0.73 | 4.16 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 20 | 3.89 | 0.7 | 4.04 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 20 | 3.89 | 0.7 | 4.04 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 20 | 3.89 | 0.44 | 3.99 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 3.89 | 1.72 | 3.58 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 20 | 3.89 | 0.64 | 3.79 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 20 | 3.89 | 0.64 | 3.79 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 20 | 3.89 | 0.09 | 3.9 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 20 | 3.89 | 0.13 | 3.9 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 20 | 3.89 | 0.13 | 3.9 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 20 | 3.89 | 0.13 | 3.9 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 20 | 3.89 | 1.41 | 3.92 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 20 | 3.89 | 1.41 | 3.92 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 20 | 3.89 | 1.41 | 3.92 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 3.88 | 1.37 | 4.26 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 3.88 | 1.37 | 4.26 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 3.88 | 1.37 | 4.26 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 3.88 | 1.37 | 4.26 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 3.88 | 1.37 | 4.26 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 3.88 | 1.37 | 4.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 3.88 | 1.37 | 4.26 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 3.88 | 1.37 | 4.26 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 20 | 3.88 | 0.47 | 4.04 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 20 | 3.88 | 0.47 | 4.04 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 20 | 3.88 | 0.6 | 3.94 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 3.88 | 0.6 | 3.94 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 20 | 3.88 | 0.6 | 3.94 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 3.88 | 0.6 | 3.94 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 20 | 3.88 | 0.6 | 3.94 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 3.88 | 0.6 | 3.94 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 20 | 3.88 | 0.6 | 3.94 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 3.88 | 0.6 | 3.94 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 20 | 3.88 | 0.6 | 3.94 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 3.88 | 0.6 | 3.94 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 20 | 3.88 | 0.6 | 3.94 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 3.88 | 0.6 | 3.94 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 3.88 | 0.51 | 3.96 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 3.88 | 0.51 | 3.96 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 3.88 | 0.51 | 3.96 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 3.88 | 0.51 | 3.96 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 3.88 | 0.51 | 3.96 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 3.88 | 0.51 | 3.96 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 3.88 | 0.56 | 3.89 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 3.88 | 0.56 | 3.89 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 3.88 | 0.96 | 3.52 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 3.88 | 0.96 | 3.52 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 3.88 | 0.96 | 3.52 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 3.88 | 1.4 | 4.58 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 3.87 | 0.51 | 4.06 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 3.87 | 0.51 | 4.06 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 20 | 3.87 | 0.4 | 3.88 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 20 | 3.87 | 0.4 | 3.88 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 20 | 3.87 | 0.4 | 3.88 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 20 | 3.87 | 0.4 | 3.88 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 20 | 3.87 | 0.75 | 3.9 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 20 | 3.87 | 0.75 | 3.9 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 20 | 3.87 | 0.75 | 3.9 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 20 | 3.87 | 0.75 | 3.9 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 20 | 3.87 | 0.75 | 3.9 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 20 | 3.87 | 0.75 | 3.9 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 20 | 3.87 | 0.75 | 3.9 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 20 | 3.87 | 0.75 | 3.9 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 20 | 3.87 | 0.75 | 3.9 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 3.87 | 1.21 | 3.69 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 3.87 | 1.21 | 3.69 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 3.87 | 1.21 | 3.69 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 20 | 3.87 | 0.26 | 3.8 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 20 | 3.87 | 0.26 | 3.8 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 20 | 3.87 | 0.26 | 3.8 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 20 | 3.87 | 0.26 | 3.8 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 20 | 3.87 | 0.26 | 3.8 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 20 | 3.87 | 0.26 | 3.8 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 20 | 3.87 | 0.5 | 3.96 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 20 | 3.87 | 0.5 | 3.96 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 20 | 3.87 | 0.44 | 3.87 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 20 | 3.87 | 0.74 | 3.64 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 3.87 | 0.2 | 3.92 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 3.87 | 0.2 | 3.92 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 3.87 | 0.2 | 3.92 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 3.87 | 0.2 | 3.92 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 20 | 3.87 | 0.59 | 3.82 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 20 | 3.87 | 0.59 | 3.82 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 3.87 | 1.03 | 3.82 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 20 | 3.87 | 0.7 | 3.87 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 20 | 3.87 | 0.7 | 3.87 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 20 | 3.86 | 0.28 | 3.9 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 3.86 | 0.74 | 3.76 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 3.86 | 0.74 | 3.76 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 3.86 | 0.74 | 3.76 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 3.86 | 0.74 | 3.76 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 3.86 | 0.74 | 3.76 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 3.86 | 0.74 | 3.76 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 3.86 | 0.74 | 3.76 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 3.86 | 0.74 | 3.76 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 3.86 | 0.74 | 3.76 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 3.86 | 0.74 | 3.76 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 3.86 | 0.74 | 3.76 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 3.86 | 0.74 | 3.76 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 20 | 3.86 | 1.31 | 3.62 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 20 | 3.86 | 1.31 | 3.62 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 20 | 3.86 | 1.31 | 3.62 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 20 | 3.86 | 1.31 | 3.62 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 20 | 3.86 | 0.8 | 4.28 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 20 | 3.86 | 0.65 | 4.06 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 20 | 3.86 | 0.65 | 4.06 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 20 | 3.86 | 0.65 | 4.06 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 20 | 3.86 | 0.65 | 4.06 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 3.86 | 0.81 | 3.94 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 3.86 | 0.87 | 3.88 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 3.86 | 0.87 | 3.88 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 3.86 | 0.87 | 3.88 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 3.86 | 0.87 | 3.88 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 20 | 3.86 | 0.86 | 3.5 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 3.86 | 0.52 | 3.65 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 20 | 3.86 | 0.52 | 3.65 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 20 | 3.86 | 0.17 | 3.81 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 20 | 3.86 | 0.17 | 3.81 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 20 | 3.86 | 0.17 | 3.81 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 20 | 3.86 | 0.17 | 3.81 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 20 | 3.86 | 0.17 | 3.81 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 20 | 3.86 | 0.17 | 3.81 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 20 | 3.85 | 0.55 | 3.77 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 20 | 3.85 | 1.1 | 3.82 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 20 | 3.85 | 1.1 | 3.82 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 20 | 3.85 | 1.1 | 3.82 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 20 | 3.85 | 1.1 | 3.82 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 20 | 3.85 | 1.1 | 3.82 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 20 | 3.85 | 1.1 | 3.82 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 20 | 3.85 | 1.1 | 3.82 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 20 | 3.85 | 1.1 | 3.82 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 20 | 3.85 | 1.1 | 3.82 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 20 | 3.85 | 1.08 | 3.94 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 20 | 3.85 | 1.08 | 3.94 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 20 | 3.85 | 1.08 | 3.94 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 20 | 3.85 | 1.08 | 3.94 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 20 | 3.85 | 1.08 | 3.94 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 20 | 3.85 | 1.08 | 3.94 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 20 | 3.85 | 1.3 | 3.15 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 20 | 3.85 | 1.3 | 3.15 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 20 | 3.85 | 1.3 | 3.15 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 20 | 3.85 | 1.3 | 3.15 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 20 | 3.85 | 1.3 | 3.15 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 20 | 3.85 | 1.3 | 3.15 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 20 | 3.85 | 0.38 | 3.78 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 20 | 3.85 | 0.38 | 3.78 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 3.85 | 1.27 | 3.28 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 20 | 3.85 | 0.38 | 3.78 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 20 | 3.85 | 0.38 | 3.78 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 20 | 3.85 | 0.88 | 3.5 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 3.85 | 0.69 | 3.42 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 3.85 | 0.69 | 3.42 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 3.85 | 0.69 | 3.77 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 3.85 | 0.69 | 3.77 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 3.85 | 0.69 | 3.77 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 3.85 | 0.69 | 3.42 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 3.85 | 0.69 | 3.42 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 20 | 3.85 | 0.68 | 3.81 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 20 | 3.85 | 0.68 | 3.81 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 20 | 3.85 | 0.68 | 3.81 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 20 | 3.85 | 0.68 | 3.81 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 20 | 3.85 | 0.68 | 3.81 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 20 | 3.85 | 0.68 | 3.81 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 3.85 | 0.65 | 3.92 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 3.85 | 0.65 | 3.92 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 3.85 | 0.65 | 3.92 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 20 | 3.85 | 0.51 | 3.76 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 20 | 3.85 | 0.51 | 3.76 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 20 | 3.85 | 1.97 | 2.67 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 20 | 3.85 | 0.92 | 3.96 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 20 | 3.85 | 0.92 | 3.96 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 20 | 3.85 | 0.92 | 3.96 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 20 | 3.85 | 0.92 | 3.96 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 20 | 3.85 | 0.92 | 3.96 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 20 | 3.85 | 0.92 | 3.96 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 20 | 3.85 | 0.2 | 3.77 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 20 | 3.85 | 1.12 | 3.46 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 20 | 3.85 | 1.12 | 3.46 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 20 | 3.85 | 1.12 | 3.46 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 20 | 3.85 | 1.12 | 3.46 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 20 | 3.85 | 1.12 | 3.46 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 20 | 3.85 | 1.12 | 3.46 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 20 | 3.84 | 0.98 | 3.93 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 20 | 3.84 | 0.11 | 3.9 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 20 | 3.84 | 0.11 | 3.9 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 20 | 3.84 | 0.11 | 3.9 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 20 | 3.84 | 0.46 | 3.76 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 20 | 3.84 | 1.05 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 20 | 3.84 | 1.05 | 3.58 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 20 | 3.84 | 1.05 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 20 | 3.84 | 1.05 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 20 | 3.84 | 1.05 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 20 | 3.84 | 1.05 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 20 | 3.84 | 1.05 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 20 | 3.84 | 1.05 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 20 | 3.84 | 1.05 | 3.58 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 20 | 3.84 | 0.11 | 3.9 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 20 | 3.84 | 0.11 | 3.9 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 20 | 3.84 | 0.11 | 3.9 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 20 | 3.84 | 0.46 | 3.76 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 3.84 | 1.29 | 3.78 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 3.84 | 1.29 | 3.78 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 3.84 | 1.29 | 3.78 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 3.84 | 1.29 | 3.78 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 3.84 | 1.29 | 3.78 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 3.84 | 1.29 | 3.78 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 20 | 3.84 | 0.09 | 3.84 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 20 | 3.84 | 0.09 | 3.84 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 20 | 3.84 | 0.09 | 3.84 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 3.84 | 1.29 | 3.78 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 3.84 | 1.29 | 3.78 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 3.84 | 1.29 | 3.78 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 3.84 | 1.29 | 3.78 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 3.84 | 1.29 | 3.78 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 3.84 | 1.29 | 3.78 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 3.84 | 0.59 | 4.1 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 3.84 | 0.59 | 4.1 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 20 | 3.84 | 0.37 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 20 | 3.84 | 0.37 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 20 | 3.84 | 0.37 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 20 | 3.84 | 0.37 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 20 | 3.84 | 0.37 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 20 | 3.84 | 0.37 | 3.76 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 3.84 | 1.08 | 3.9 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 3.84 | 1.08 | 3.9 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 20 | 3.84 | 0.25 | 3.96 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 20 | 3.84 | 0.25 | 3.96 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 20 | 3.84 | 0.25 | 3.96 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 20 | 3.84 | 0.64 | 3.67 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 3.84 | 0.64 | 3.67 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 20 | 3.84 | 0.64 | 3.67 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 3.84 | 0.64 | 3.67 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 20 | 3.84 | 0.64 | 3.67 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 3.84 | 0.64 | 3.67 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 20 | 3.84 | 0.64 | 3.67 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 3.84 | 0.64 | 3.67 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 20 | 3.84 | 0.64 | 3.67 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 3.84 | 0.64 | 3.67 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 20 | 3.84 | 0.64 | 3.67 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 3.84 | 0.64 | 3.67 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 20 | 3.84 | 0.76 | 3.86 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 20 | 3.84 | 0.76 | 3.86 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 20 | 3.84 | 0.76 | 3.86 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 20 | 3.84 | 0.76 | 3.86 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 20 | 3.84 | 1.09 | 3.7 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 20 | 3.84 | 1.09 | 3.7 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 20 | 3.84 | 0.81 | 4.08 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 20 | 3.84 | 0.81 | 4.08 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 20 | 3.84 | 0.81 | 4.08 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 20 | 3.84 | 0.81 | 4.08 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 20 | 3.84 | 0.81 | 4.08 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 20 | 3.84 | 0.81 | 4.08 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 20 | 3.84 | 0.81 | 4.08 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 20 | 3.84 | 0.81 | 4.08 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 20 | 3.84 | 0.81 | 4.08 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 20 | 3.84 | 0.81 | 4.08 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 20 | 3.84 | 0.81 | 4.08 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 20 | 3.84 | 0.81 | 4.08 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 20 | 3.83 | 0.46 | 4.16 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 20 | 3.83 | 0.08 | 3.83 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 20 | 3.83 | 0.08 | 3.83 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 20 | 3.83 | 0.08 | 3.83 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 20 | 3.83 | 0.24 | 3.85 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 20 | 3.83 | 0.24 | 3.85 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 20 | 3.83 | 0.1 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 20 | 3.83 | 0.1 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 20 | 3.83 | 0.1 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 20 | 3.83 | 0.1 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 20 | 3.83 | 0.1 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 20 | 3.83 | 0.1 | 3.81 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 20 | 3.83 | 0.55 | 3.81 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 20 | 3.83 | 0.55 | 3.81 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 20 | 3.83 | 0.55 | 3.81 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 20 | 3.83 | 0.58 | 3.53 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 20 | 3.83 | 0.59 | 3.85 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 20 | 3.83 | 0.44 | 3.84 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 20 | 3.83 | 0.44 | 3.84 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 3.83 | 0.38 | 3.78 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 20 | 3.83 | 0.2 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 20 | 3.83 | 0.2 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 20 | 3.83 | 0.2 | 3.75 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 20 | 3.83 | 0.21 | 3.88 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 20 | 3.83 | 0.21 | 3.88 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 20 | 3.83 | 0.39 | 3.9 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 20 | 3.83 | 0.39 | 3.9 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 20 | 3.83 | 0.19 | 3.88 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 20 | 3.83 | 0.19 | 3.88 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 20 | 3.83 | 0.19 | 3.88 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 20 | 3.83 | 0.4 | 4.04 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 3.82 | 0.79 | 4.23 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 20 | 3.82 | 0.82 | 3.87 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 20 | 3.82 | 0.82 | 3.87 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 20 | 3.82 | 0.82 | 3.87 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 20 | 3.82 | 0.82 | 3.87 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 20 | 3.82 | 0.82 | 3.87 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 20 | 3.82 | 0.82 | 3.87 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 20 | 3.82 | 0.82 | 3.87 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 20 | 3.82 | 0.82 | 3.87 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 3.82 | 1.1 | 3.93 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 20 | 3.82 | 1.56 | 3.47 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 20 | 3.82 | 1.56 | 3.47 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 3.82 | 0.94 | 3.3 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 20 | 3.82 | 0.94 | 3.3 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 20 | 3.82 | 1.06 | 3.48 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 20 | 3.82 | 1.15 | 3.58 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 20 | 3.82 | 0.11 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 20 | 3.82 | 0.11 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 20 | 3.82 | 0.11 | 3.8 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 20 | 3.82 | 1.15 | 3.58 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 20 | 3.82 | 0.94 | 4.19 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 20 | 3.82 | 0.26 | 3.7 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 20 | 3.82 | 0.57 | 3.89 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 3.81 | 1.26 | 3.76 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 20 | 3.81 | 0.61 | 3.96 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 20 | 3.81 | 0.61 | 3.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 20 | 3.81 | 0.3 | 3.84 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 20 | 3.81 | 0.3 | 3.84 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 20 | 3.81 | 0.05 | 3.8 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 20 | 3.81 | 0.05 | 3.8 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 20 | 3.81 | 0.05 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 3.81 | 0.02 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 3.81 | 0.02 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 3.81 | 0.02 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 3.81 | 0.02 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 3.81 | 0.02 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 3.81 | 0.02 | 3.81 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 20 | 3.81 | 0.69 | 3.84 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 20 | 3.81 | 0.69 | 3.84 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 20 | 3.81 | 0.69 | 3.84 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 3.81 | 0.69 | 3.84 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 3.81 | 0.69 | 3.84 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 3.81 | 0.69 | 3.84 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 3.81 | 0.09 | 3.82 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 20 | 3.81 | 0.7 | 4.08 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 3.81 | 0.09 | 3.82 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 20 | 3.81 | 0.7 | 4.08 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 3.81 | 0.62 | 3.93 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 3.81 | 0.62 | 3.93 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 3.81 | 0.62 | 3.93 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 3.81 | 0.62 | 3.93 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 3.81 | 0.62 | 3.93 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 3.81 | 0.62 | 3.93 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 3.81 | 0.62 | 3.93 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 3.81 | 0.62 | 3.93 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 3.81 | 0.91 | 4.4 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 20 | 3.81 | 0.56 | 4.1 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 3.81 | 0.97 | 3.78 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 3.81 | 0.97 | 3.78 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 3.81 | 0.97 | 3.78 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 20 | 3.81 | 0.24 | 3.92 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 20 | 3.81 | 0.24 | 3.92 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 20 | 3.81 | 0.2 | 3.77 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 20 | 3.81 | 0.2 | 3.77 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 20 | 3.81 | 0.2 | 3.77 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 20 | 3.81 | 0.2 | 3.77 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 20 | 3.81 | 0.2 | 3.77 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 20 | 3.81 | 0.2 | 3.77 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 20 | 3.81 | 0.61 | 3.72 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 20 | 3.81 | 0.61 | 3.72 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 20 | 3.81 | 0.61 | 3.72 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 20 | 3.81 | 0.33 | 3.67 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 20 | 3.81 | 0.33 | 3.67 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 20 | 3.81 | 0.33 | 3.67 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 20 | 3.8 | 0.8 | 3.58 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 20 | 3.8 | 1.19 | 3.6 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 20 | 3.8 | 1.19 | 3.6 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 20 | 3.8 | 1.19 | 3.6 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 20 | 3.8 | 1.19 | 3.6 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 20 | 3.8 | 1.19 | 3.6 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 20 | 3.8 | 1.19 | 3.6 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 3.8 | 1.14 | 3.62 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 3.8 | 1.14 | 3.62 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 3.8 | 1.14 | 3.62 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 3.8 | 1.14 | 3.62 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 3.8 | 1.14 | 3.62 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 3.8 | 1.14 | 3.62 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 3.8 | 1.14 | 3.62 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 3.8 | 1.14 | 3.62 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 20 | 3.8 | 1.15 | 3.8 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 20 | 3.8 | 1.15 | 3.8 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 20 | 3.8 | 1.15 | 3.8 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 20 | 3.8 | 1.15 | 3.8 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 20 | 3.8 | 1.15 | 3.8 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 20 | 3.8 | 1.15 | 3.8 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 3.8 | 1.14 | 4.02 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 20 | 3.8 | 0.24 | 3.8 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 20 | 3.8 | 0.24 | 3.8 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 20 | 3.8 | 0.24 | 3.8 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 20 | 3.8 | 0.36 | 3.62 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 20 | 3.8 | 0.24 | 3.8 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 20 | 3.8 | 0.24 | 3.8 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 20 | 3.8 | 0.24 | 3.8 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 20 | 3.8 | 0.91 | 3.36 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 20 | 3.8 | 0.91 | 3.36 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 3.8 | 0.41 | 3.9 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 3.8 | 0.41 | 3.9 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 3.8 | 0.41 | 3.9 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 20 | 3.8 | 0.81 | 3.76 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 20 | 3.8 | 0.81 | 3.76 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 20 | 3.8 | 0.81 | 3.76 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 20 | 3.8 | 0.81 | 3.76 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 20 | 3.8 | 0.81 | 3.76 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 20 | 3.8 | 0.81 | 3.76 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 20 | 3.79 | 1.12 | 3.88 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 20 | 3.79 | 1.12 | 3.88 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 20 | 3.79 | 1.12 | 3.88 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 3.79 | 0.99 | 3.48 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 3.79 | 0.99 | 3.48 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 3.79 | 0.99 | 3.48 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 3.79 | 0.99 | 3.48 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 20 | 3.79 | 0.98 | 3.37 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 20 | 3.79 | 0.98 | 3.37 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 20 | 3.79 | 0.98 | 3.37 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 20 | 3.79 | 0.28 | 3.77 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 20 | 3.79 | 0.98 | 3.37 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 20 | 3.79 | 0.98 | 3.37 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 20 | 3.79 | 0.98 | 3.37 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 3.79 | 1.14 | 3.79 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 3.79 | 1.14 | 3.79 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 3.79 | 1.14 | 3.79 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 3.79 | 1.14 | 3.79 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 3.79 | 1.74 | 3.46 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 20 | 3.79 | 1.74 | 3.46 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 20 | 3.79 | 0.33 | 3.78 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 20 | 3.79 | 0.33 | 3.78 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 3.79 | 0.39 | 3.78 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 3.79 | 0.39 | 3.78 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 20 | 3.79 | 0.5 | 3.74 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 20 | 3.79 | 0.5 | 3.74 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 20 | 3.79 | 0.5 | 3.74 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 20 | 3.79 | 0.5 | 3.74 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 20 | 3.79 | 0.5 | 3.74 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 20 | 3.79 | 0.5 | 3.74 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 20 | 3.79 | 0.15 | 3.81 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 20 | 3.78 | 0.88 | 3.44 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 20 | 3.78 | 0.88 | 3.44 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 20 | 3.78 | 0.88 | 3.44 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 20 | 3.78 | 0.88 | 3.44 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 20 | 3.78 | 0.88 | 3.44 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 20 | 3.78 | 0.88 | 3.44 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 3.78 | 0.82 | 3.52 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 3.78 | 0.82 | 3.52 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 3.78 | 0.82 | 3.52 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 20 | 3.78 | 0.99 | 3.88 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 20 | 3.78 | 0.22 | 3.66 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 20 | 3.78 | 0.76 | 3.72 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 20 | 3.78 | 0.76 | 3.72 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 20 | 3.78 | 0.76 | 3.72 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 20 | 3.78 | 0.76 | 3.72 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 20 | 3.78 | 0.76 | 3.72 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 20 | 3.78 | 0.76 | 3.72 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 20 | 3.78 | 0.72 | 3.64 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 20 | 3.78 | 0.72 | 3.64 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 20 | 3.78 | 0.25 | 3.72 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 20 | 3.78 | 0.25 | 3.72 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 20 | 3.78 | 0.25 | 3.72 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 20 | 3.78 | 0.25 | 3.72 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 20 | 3.78 | 0.25 | 3.72 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 20 | 3.78 | 0.25 | 3.72 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 20 | 3.78 | 0.58 | 4.02 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 3.78 | 0.86 | 3.67 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 3.78 | 1.22 | 3.51 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 3.78 | 1.22 | 3.51 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 3.78 | 1.22 | 3.51 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 3.78 | 1.22 | 3.51 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 3.78 | 1.22 | 3.51 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 3.78 | 1.22 | 3.51 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 3.78 | 1.22 | 3.51 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 3.78 | 1.22 | 3.51 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 3.78 | 1.22 | 3.51 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 3.78 | 1.22 | 3.51 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 3.78 | 1.22 | 3.51 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 3.78 | 1.22 | 3.51 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 3.78 | 1.22 | 3.51 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 3.78 | 1.22 | 3.51 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 3.78 | 1.22 | 3.51 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 3.78 | 1.22 | 3.51 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 3.78 | 1.22 | 3.51 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 3.78 | 1.22 | 3.51 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 20 | 3.78 | 0.87 | 4.14 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 20 | 3.78 | 0.51 | 3.74 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 20 | 3.78 | 0.51 | 3.74 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 20 | 3.78 | 0.51 | 3.74 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 20 | 3.78 | 1.06 | 3.42 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 20 | 3.78 | 1.06 | 3.42 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 20 | 3.78 | 1.06 | 3.42 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 20 | 3.78 | 0.46 | 3.62 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 20 | 3.78 | 0.46 | 3.62 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 20 | 3.78 | 1.06 | 3.42 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 20 | 3.78 | 1.06 | 3.42 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 20 | 3.78 | 1.06 | 3.42 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 20 | 3.78 | 0.46 | 3.62 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 20 | 3.78 | 0.46 | 3.62 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 20 | 3.78 | 1.11 | 3.59 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 20 | 3.78 | 1.11 | 3.59 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 20 | 3.78 | 1.11 | 3.59 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 20 | 3.78 | 1.11 | 3.59 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 20 | 3.78 | 1.11 | 3.59 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 20 | 3.78 | 1.11 | 3.59 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 20 | 3.78 | 1.11 | 3.59 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 20 | 3.78 | 1.11 | 3.59 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 20 | 3.78 | 1.11 | 3.59 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 3.78 | 1.0 | 3.68 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 20 | 3.78 | 0.47 | 3.83 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 20 | 3.78 | 0.47 | 3.83 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 20 | 3.78 | 0.47 | 3.83 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 20 | 3.78 | 0.15 | 3.77 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 20 | 3.78 | 0.15 | 3.77 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 20 | 3.78 | 0.15 | 3.77 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 20 | 3.78 | 0.15 | 3.77 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 20 | 3.78 | 0.15 | 3.77 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 20 | 3.78 | 0.15 | 3.77 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 3.77 | 0.44 | 3.65 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 3.77 | 0.44 | 3.65 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 3.77 | 0.44 | 3.65 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 20 | 3.77 | 0.44 | 3.65 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 20 | 3.77 | 0.44 | 3.65 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 20 | 3.77 | 0.44 | 3.65 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 3.77 | 0.44 | 3.65 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 3.77 | 0.44 | 3.65 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 3.77 | 0.44 | 3.65 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 20 | 3.77 | 0.44 | 3.65 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 20 | 3.77 | 0.44 | 3.65 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 20 | 3.77 | 0.44 | 3.65 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 20 | 3.77 | 1.43 | 3.03 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 20 | 3.77 | 1.43 | 3.03 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 20 | 3.77 | 1.43 | 3.03 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 20 | 3.77 | 1.43 | 3.03 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 20 | 3.77 | 1.43 | 3.03 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 20 | 3.77 | 1.43 | 3.03 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 20 | 3.77 | 1.43 | 3.03 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 20 | 3.77 | 1.43 | 3.03 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 20 | 3.77 | 1.43 | 3.03 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 20 | 3.77 | 1.43 | 3.03 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 20 | 3.77 | 1.43 | 3.03 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 20 | 3.77 | 1.43 | 3.03 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 3.77 | 0.57 | 3.52 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 3.77 | 0.57 | 3.52 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 3.77 | 0.57 | 3.52 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 3.77 | 0.57 | 3.52 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 3.77 | 0.57 | 3.52 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 3.77 | 0.57 | 3.52 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 3.77 | 0.57 | 3.52 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 3.77 | 0.57 | 3.52 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 3.77 | 0.57 | 3.52 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 3.77 | 0.57 | 3.52 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 3.77 | 0.57 | 3.52 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 3.77 | 0.57 | 3.52 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 20 | 3.77 | 0.25 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 20 | 3.77 | 1.08 | 4.1 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 20 | 3.77 | 1.08 | 4.1 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 20 | 3.77 | 1.08 | 4.1 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 20 | 3.77 | 1.08 | 4.1 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 20 | 3.77 | 1.08 | 4.1 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 20 | 3.77 | 1.08 | 4.1 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 20 | 3.77 | 1.08 | 4.1 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 20 | 3.77 | 1.08 | 4.1 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 20 | 3.77 | 1.08 | 4.1 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 20 | 3.77 | 1.1 | 4.07 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 20 | 3.77 | 1.1 | 4.07 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 20 | 3.77 | 0.72 | 3.92 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 20 | 3.77 | 0.72 | 3.92 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 20 | 3.77 | 0.72 | 3.92 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 20 | 3.77 | 0.72 | 3.92 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 20 | 3.77 | 0.72 | 3.92 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 20 | 3.77 | 0.72 | 3.92 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 20 | 3.77 | 0.72 | 3.92 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 20 | 3.77 | 0.72 | 3.92 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 20 | 3.77 | 0.72 | 3.92 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 3.77 | 0.8 | 3.58 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 20 | 3.77 | 0.18 | 3.78 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 20 | 3.77 | 0.18 | 3.78 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 20 | 3.77 | 0.18 | 3.78 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 20 | 3.76 | 1.16 | 4.14 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 20 | 3.76 | 1.16 | 4.14 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 20 | 3.76 | 1.16 | 4.14 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 20 | 3.76 | 0.12 | 3.78 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 20 | 3.76 | 0.56 | 3.77 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 3.76 | 0.53 | 3.78 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 3.76 | 0.58 | 3.68 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 3.76 | 0.58 | 3.68 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 3.76 | 0.58 | 3.68 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 20 | 3.76 | 1.08 | 3.35 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 20 | 3.76 | 1.08 | 3.35 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 20 | 3.76 | 1.08 | 3.35 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 20 | 3.76 | 1.08 | 3.35 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 20 | 3.76 | 1.08 | 3.35 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 20 | 3.76 | 1.08 | 3.35 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 20 | 3.76 | 1.08 | 3.35 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 20 | 3.76 | 1.08 | 3.35 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 20 | 3.76 | 1.08 | 3.35 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 20 | 3.76 | 1.08 | 3.35 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 20 | 3.76 | 1.08 | 3.35 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 20 | 3.76 | 1.08 | 3.35 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 20 | 3.76 | 0.8 | 3.84 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 20 | 3.76 | 0.8 | 3.84 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 20 | 3.76 | 0.8 | 3.84 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 3.76 | 1.26 | 3.61 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 3.76 | 0.55 | 3.92 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 3.76 | 0.55 | 3.92 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 3.76 | 0.55 | 3.92 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 3.76 | 0.55 | 3.92 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 20 | 3.76 | 0.15 | 3.78 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 20 | 3.76 | 0.15 | 3.78 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 3.76 | 0.11 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 3.76 | 0.11 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 3.76 | 0.11 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 3.76 | 0.11 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 3.76 | 0.11 | 3.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 3.76 | 0.11 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 3.76 | 0.11 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 3.76 | 0.11 | 3.8 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 20 | 3.75 | 0.34 | 3.78 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 3.75 | 0.68 | 3.96 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 3.75 | 0.68 | 3.96 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 20 | 3.75 | 0.16 | 3.74 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 20 | 3.75 | 0.26 | 3.78 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 20 | 3.75 | 0.26 | 3.78 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 20 | 3.75 | 0.33 | 3.74 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 20 | 3.75 | 0.33 | 3.74 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 20 | 3.75 | 0.33 | 3.74 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 3.75 | 0.79 | 3.72 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 20 | 3.75 | 0.16 | 3.77 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 20 | 3.75 | 0.16 | 3.77 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 20 | 3.75 | 0.16 | 3.77 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 20 | 3.75 | 0.16 | 3.77 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 20 | 3.75 | 0.16 | 3.77 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 20 | 3.75 | 0.16 | 3.77 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 20 | 3.75 | 0.15 | 3.76 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.75 | 1.02 | 3.34 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 3.75 | 1.02 | 3.34 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.75 | 1.02 | 3.34 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 3.75 | 1.02 | 3.34 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 20 | 3.75 | 0.96 | 4.16 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 20 | 3.75 | 0.96 | 4.16 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 3.75 | 0.3 | 3.75 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 3.75 | 0.3 | 3.75 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 20 | 3.75 | 0.85 | 3.31 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 20 | 3.75 | 0.85 | 3.31 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 20 | 3.75 | 0.85 | 3.31 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 20 | 3.74 | 1.14 | 3.3 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 20 | 3.74 | 0.8 | 3.86 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 20 | 3.74 | 0.8 | 3.86 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 20 | 3.74 | 0.8 | 3.86 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 20 | 3.74 | 0.8 | 3.86 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 20 | 3.74 | 0.8 | 3.86 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 20 | 3.74 | 0.8 | 3.86 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 20 | 3.74 | 0.8 | 3.86 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 20 | 3.74 | 0.8 | 3.86 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 20 | 3.74 | 0.8 | 3.86 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 20 | 3.74 | 0.49 | 3.64 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 20 | 3.74 | 0.42 | 3.92 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 20 | 3.74 | 0.42 | 3.92 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 20 | 3.74 | 0.42 | 3.92 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 20 | 3.74 | 0.42 | 3.92 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 20 | 3.74 | 0.42 | 3.92 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 20 | 3.74 | 0.42 | 3.92 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 20 | 3.74 | 0.03 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 20 | 3.74 | 0.03 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 20 | 3.74 | 0.03 | 3.76 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 3.74 | 0.59 | 3.6 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 20 | 3.74 | 0.08 | 3.74 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 20 | 3.74 | 0.08 | 3.74 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 20 | 3.74 | 0.08 | 3.74 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 20 | 3.74 | 0.08 | 3.74 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 20 | 3.74 | 0.08 | 3.74 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 20 | 3.74 | 0.08 | 3.74 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 3.74 | 0.36 | 3.68 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 20 | 3.74 | 0.58 | 3.84 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 20 | 3.74 | 0.58 | 3.84 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 20 | 3.74 | 0.69 | 3.72 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 20 | 3.74 | 0.69 | 3.72 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 3.74 | 1.15 | 3.72 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 3.74 | 1.15 | 3.72 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 3.74 | 1.15 | 3.72 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 3.74 | 1.15 | 3.72 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 3.74 | 1.15 | 3.72 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 3.74 | 1.15 | 3.72 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 20 | 3.74 | 0.23 | 3.64 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 20 | 3.74 | 0.23 | 3.64 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 3.74 | 0.75 | 4.06 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 3.74 | 0.75 | 4.06 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 20 | 3.74 | 0.35 | 3.76 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 20 | 3.74 | 0.35 | 3.76 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 3.73 | 0.73 | 3.54 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 3.73 | 0.73 | 3.54 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 3.73 | 0.73 | 3.54 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 3.73 | 0.73 | 3.54 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 3.73 | 0.22 | 3.73 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 3.73 | 0.22 | 3.73 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 20 | 3.73 | 0.38 | 3.86 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 20 | 3.73 | 0.38 | 3.86 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 20 | 3.73 | 0.38 | 3.86 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 20 | 3.73 | 0.38 | 3.86 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 20 | 3.73 | 0.38 | 3.67 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 20 | 3.73 | 0.38 | 3.67 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 20 | 3.73 | 0.38 | 3.67 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 20 | 3.73 | 0.38 | 3.67 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 20 | 3.73 | 0.38 | 3.67 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 20 | 3.73 | 0.38 | 3.67 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 20 | 3.73 | 0.57 | 3.94 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 20 | 3.73 | 0.57 | 3.94 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 20 | 3.73 | 0.57 | 3.94 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 20 | 3.73 | 0.05 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 20 | 3.73 | 0.05 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 20 | 3.73 | 0.05 | 3.76 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 20 | 3.73 | 0.69 | 3.58 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 3.73 | 0.69 | 3.58 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 20 | 3.73 | 0.69 | 3.58 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 3.73 | 0.69 | 3.58 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 20 | 3.73 | 0.69 | 3.58 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 3.73 | 0.69 | 3.58 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 20 | 3.73 | 0.69 | 3.58 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 3.73 | 0.69 | 3.58 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 20 | 3.73 | 0.16 | 3.68 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 20 | 3.73 | 0.44 | 3.52 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 20 | 3.73 | 0.44 | 3.52 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 20 | 3.73 | 0.86 | 4.08 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 20 | 3.73 | 0.86 | 4.08 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 20 | 3.73 | 0.86 | 4.08 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 3.73 | 0.43 | 3.9 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 20 | 3.73 | 0.18 | 3.7 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 20 | 3.73 | 0.47 | 3.7 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 20 | 3.73 | 0.18 | 3.7 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 20 | 3.73 | 0.47 | 3.7 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 20 | 3.73 | 0.26 | 3.76 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 20 | 3.73 | 1.05 | 3.62 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 20 | 3.73 | 1.05 | 3.62 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 20 | 3.73 | 1.05 | 3.62 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 20 | 3.73 | 1.05 | 3.62 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 20 | 3.73 | 1.05 | 3.62 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 20 | 3.73 | 1.05 | 3.62 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 20 | 3.73 | 1.05 | 3.62 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 20 | 3.73 | 1.05 | 3.62 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 20 | 3.73 | 1.05 | 3.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 20 | 3.73 | 1.05 | 3.62 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 20 | 3.73 | 1.05 | 3.62 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 20 | 3.73 | 1.05 | 3.62 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 20 | 3.73 | 0.51 | 3.98 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 20 | 3.73 | 0.51 | 3.98 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 20 | 3.73 | 0.45 | 3.68 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 20 | 3.73 | 0.45 | 3.68 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 20 | 3.73 | 0.07 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 20 | 3.73 | 0.07 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 20 | 3.73 | 0.07 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 20 | 3.73 | 0.07 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 20 | 3.73 | 0.07 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 20 | 3.73 | 0.07 | 3.74 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 20 | 3.73 | 1.11 | 3.62 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 20 | 3.73 | 1.11 | 3.62 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 20 | 3.73 | 1.11 | 3.62 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 20 | 3.73 | 1.11 | 3.62 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 20 | 3.73 | 1.11 | 3.62 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 20 | 3.73 | 1.11 | 3.62 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 20 | 3.73 | 1.11 | 3.62 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 20 | 3.73 | 1.11 | 3.62 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 20 | 3.73 | 1.11 | 3.62 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 20 | 3.73 | 1.11 | 3.62 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 20 | 3.73 | 1.11 | 3.62 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 20 | 3.73 | 1.11 | 3.62 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 20 | 3.73 | 1.11 | 3.62 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 20 | 3.73 | 1.11 | 3.62 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 20 | 3.73 | 1.11 | 3.62 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 20 | 3.73 | 1.11 | 3.62 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 20 | 3.73 | 1.11 | 3.62 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 20 | 3.73 | 1.11 | 3.62 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 20 | 3.72 | 0.92 | 3.53 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 20 | 3.72 | 0.92 | 3.53 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 20 | 3.72 | 0.23 | 3.72 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 20 | 3.72 | 0.47 | 3.82 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 20 | 3.72 | 1.57 | 3.11 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 20 | 3.72 | 0.01 | 3.72 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 3.72 | 0.58 | 3.64 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 3.72 | 0.58 | 3.64 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 3.72 | 0.58 | 3.64 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 3.72 | 0.58 | 3.64 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 3.72 | 0.58 | 3.64 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 3.72 | 0.58 | 3.64 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 3.72 | 0.58 | 3.64 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 3.72 | 0.58 | 3.64 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 3.72 | 0.58 | 3.64 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 3.72 | 0.58 | 3.64 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 3.72 | 0.58 | 3.64 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 3.72 | 0.58 | 3.64 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 20 | 3.72 | 0.15 | 3.76 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 20 | 3.72 | 0.15 | 3.76 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 3.72 | 0.26 | 3.74 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 3.72 | 0.26 | 3.74 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 20 | 3.72 | 0.37 | 3.71 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 3.72 | 0.26 | 3.74 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 3.72 | 0.26 | 3.74 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 3.72 | 0.88 | 4.13 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 20 | 3.72 | 0.75 | 4.08 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 20 | 3.72 | 0.75 | 4.08 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 20 | 3.72 | 0.91 | 4.01 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 20 | 3.72 | 0.05 | 3.73 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 20 | 3.72 | 0.05 | 3.73 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 20 | 3.72 | 0.05 | 3.73 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 20 | 3.72 | 0.05 | 3.73 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 20 | 3.72 | 0.3 | 3.86 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 20 | 3.71 | 0.2 | 3.68 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 20 | 3.71 | 0.49 | 3.75 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 20 | 3.71 | 0.49 | 3.75 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 20 | 3.71 | 0.49 | 3.75 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 20 | 3.71 | 0.27 | 3.9 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 20 | 3.71 | 0.27 | 3.9 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 20 | 3.71 | 0.27 | 3.9 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 20 | 3.71 | 0.27 | 3.9 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 20 | 3.71 | 0.27 | 3.9 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 20 | 3.71 | 0.27 | 3.9 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 20 | 3.71 | 0.88 | 3.52 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 20 | 3.71 | 0.88 | 3.52 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 20 | 3.71 | 0.88 | 3.52 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 20 | 3.71 | 0.41 | 3.59 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 20 | 3.71 | 0.41 | 3.59 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 20 | 3.71 | 0.41 | 3.59 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 20 | 3.71 | 0.41 | 3.59 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 20 | 3.71 | 0.41 | 3.59 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 20 | 3.71 | 0.41 | 3.59 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 3.71 | 0.81 | 3.86 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 3.71 | 0.81 | 3.86 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 20 | 3.71 | 0.52 | 3.54 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 20 | 3.71 | 0.52 | 3.54 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 20 | 3.71 | 0.52 | 3.54 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 20 | 3.71 | 0.52 | 3.54 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 20 | 3.71 | 0.52 | 3.54 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 20 | 3.71 | 0.52 | 3.54 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 3.71 | 1.13 | 3.71 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 3.71 | 0.38 | 3.86 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 20 | 3.71 | 0.11 | 3.72 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 20 | 3.71 | 0.11 | 3.72 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 20 | 3.71 | 1.04 | 3.53 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 20 | 3.71 | 1.04 | 3.53 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 20 | 3.7 | 1.45 | 3.44 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 20 | 3.7 | 0.93 | 3.86 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 20 | 3.7 | 0.93 | 3.86 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 20 | 3.7 | 0.98 | 4.22 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 20 | 3.7 | 0.98 | 4.22 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 20 | 3.7 | 1.08 | 4.04 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 20 | 3.7 | 0.02 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 20 | 3.7 | 0.02 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 20 | 3.7 | 0.02 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 20 | 3.7 | 0.02 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 20 | 3.7 | 0.02 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 20 | 3.7 | 0.02 | 3.71 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 20 | 3.7 | 0.34 | 3.78 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 20 | 3.7 | 0.34 | 3.78 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 3.7 | 1.4 | 3.62 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 3.7 | 1.4 | 3.62 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 3.7 | 1.4 | 3.62 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 3.7 | 1.4 | 3.62 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 20 | 3.7 | 0.79 | 4.27 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 20 | 3.69 | 0.62 | 3.76 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 20 | 3.69 | 0.2 | 3.72 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 3.69 | 0.69 | 3.53 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 3.69 | 0.69 | 3.53 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 3.69 | 0.69 | 3.53 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 20 | 3.69 | 0.2 | 3.72 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 3.69 | 2.02 | 3.2 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 20 | 3.69 | 0.41 | 3.8 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 3.69 | 0.76 | 3.91 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 20 | 3.69 | 0.64 | 3.54 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 20 | 3.69 | 0.64 | 3.54 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 20 | 3.69 | 0.64 | 3.54 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 20 | 3.69 | 0.64 | 3.54 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 20 | 3.69 | 0.64 | 3.54 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 20 | 3.69 | 0.64 | 3.54 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 20 | 3.69 | 0.48 | 3.68 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 3.69 | 0.97 | 3.44 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 3.69 | 0.97 | 3.44 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 3.69 | 0.97 | 3.44 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 20 | 3.69 | 0.77 | 3.64 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 3.69 | 0.08 | 3.68 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 20 | 3.69 | 0.61 | 3.6 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 20 | 3.69 | 0.61 | 3.6 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 20 | 3.69 | 0.61 | 3.6 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 20 | 3.69 | 0.61 | 3.6 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 20 | 3.69 | 0.61 | 3.6 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 20 | 3.69 | 0.61 | 3.6 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 20 | 3.69 | 0.94 | 4.02 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 20 | 3.69 | 1.36 | 3.06 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 3.69 | 0.6 | 3.96 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 3.69 | 0.6 | 3.96 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 20 | 3.69 | 1.36 | 3.06 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 3.69 | 0.6 | 3.96 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 3.69 | 0.6 | 3.96 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 3.69 | 1.28 | 3.98 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 3.69 | 1.28 | 3.98 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 3.69 | 1.28 | 3.98 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 3.69 | 1.28 | 3.98 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 3.69 | 1.28 | 3.98 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 3.69 | 1.28 | 3.98 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 20 | 3.69 | 1.06 | 3.7 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 20 | 3.69 | 1.06 | 3.7 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 20 | 3.69 | 1.06 | 3.7 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 20 | 3.69 | 1.06 | 3.7 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 20 | 3.69 | 1.06 | 3.7 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 20 | 3.69 | 1.06 | 3.7 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 3.69 | 0.59 | 3.73 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 3.69 | 0.59 | 3.73 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 3.69 | 0.59 | 3.73 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 20 | 3.69 | 0.68 | 3.84 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 20 | 3.69 | 0.16 | 3.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 20 | 3.69 | 0.16 | 3.7 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 20 | 3.69 | 0.9 | 3.71 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 20 | 3.69 | 0.9 | 3.71 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 20 | 3.69 | 0.9 | 3.71 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 20 | 3.68 | 0.25 | 3.68 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 20 | 3.68 | 0.25 | 3.68 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 20 | 3.68 | 0.25 | 3.68 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 20 | 3.68 | 1.26 | 3.76 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 20 | 3.68 | 1.26 | 3.76 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 20 | 3.68 | 1.26 | 3.76 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 20 | 3.68 | 0.51 | 3.78 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 20 | 3.68 | 0.51 | 3.78 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 20 | 3.68 | 0.51 | 3.78 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 20 | 3.68 | 0.51 | 3.78 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 20 | 3.68 | 0.51 | 3.78 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 20 | 3.68 | 0.51 | 3.78 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 20 | 3.68 | 0.66 | 3.83 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 20 | 3.68 | 0.67 | 3.5 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 20 | 3.68 | 0.09 | 3.68 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 20 | 3.68 | 0.09 | 3.68 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 20 | 3.68 | 0.83 | 3.8 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 20 | 3.68 | 0.83 | 3.8 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 20 | 3.68 | 0.83 | 3.8 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 20 | 3.68 | 0.68 | 3.44 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 20 | 3.68 | 0.68 | 3.44 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 20 | 3.68 | 0.49 | 3.88 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 20 | 3.68 | 0.49 | 3.88 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 20 | 3.68 | 0.64 | 3.46 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 20 | 3.68 | 0.24 | 3.7 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 20 | 3.68 | 0.64 | 3.46 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 20 | 3.68 | 0.24 | 3.7 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 20 | 3.68 | 1.27 | 3.76 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 20 | 3.68 | 1.27 | 3.76 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 20 | 3.68 | 1.27 | 3.76 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 20 | 3.68 | 2.06 | 2.31 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 20 | 3.68 | 2.06 | 2.31 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 20 | 3.68 | 2.06 | 2.31 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 20 | 3.68 | 0.19 | 3.78 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 20 | 3.68 | 0.19 | 3.78 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 20 | 3.68 | 0.19 | 3.78 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 20 | 3.68 | 0.19 | 3.78 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 20 | 3.68 | 0.19 | 3.78 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 20 | 3.68 | 0.19 | 3.78 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 20 | 3.68 | 0.71 | 3.53 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 20 | 3.68 | 0.71 | 3.53 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 20 | 3.68 | 0.71 | 3.53 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 20 | 3.68 | 0.71 | 3.53 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 20 | 3.68 | 0.71 | 3.53 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 20 | 3.68 | 0.71 | 3.53 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 20 | 3.68 | 0.27 | 3.75 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 20 | 3.68 | 0.27 | 3.75 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 20 | 3.68 | 0.51 | 3.88 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 20 | 3.68 | 0.07 | 3.66 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 20 | 3.68 | 0.34 | 3.74 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 20 | 3.68 | 0.74 | 3.6 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 20 | 3.68 | 0.74 | 3.6 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 20 | 3.68 | 0.74 | 3.6 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 20 | 3.68 | 0.74 | 3.6 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 20 | 3.68 | 0.74 | 3.6 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 20 | 3.68 | 0.74 | 3.6 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 20 | 3.68 | 0.74 | 3.6 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 20 | 3.68 | 0.74 | 3.6 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 20 | 3.68 | 0.74 | 3.6 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 20 | 3.68 | 0.74 | 3.6 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 20 | 3.68 | 0.74 | 3.6 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 20 | 3.68 | 0.74 | 3.6 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 20 | 3.68 | 0.74 | 3.6 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 20 | 3.68 | 0.74 | 3.6 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 20 | 3.68 | 0.74 | 3.6 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 20 | 3.68 | 0.74 | 3.6 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 20 | 3.68 | 0.74 | 3.6 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 20 | 3.68 | 0.74 | 3.6 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 3.68 | 1.29 | 3.62 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 3.68 | 1.29 | 3.62 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 3.68 | 1.29 | 3.62 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 20 | 3.68 | 0.41 | 3.61 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 20 | 3.68 | 0.18 | 3.66 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 20 | 3.68 | 0.41 | 3.61 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 20 | 3.67 | 0.62 | 4.12 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 20 | 3.67 | 0.62 | 4.12 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 20 | 3.67 | 0.62 | 4.12 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 3.67 | 0.55 | 3.74 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 3.67 | 0.55 | 3.74 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 20 | 3.67 | 0.7 | 3.58 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 20 | 3.67 | 0.7 | 3.58 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 20 | 3.67 | 1.01 | 3.44 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 20 | 3.67 | 1.01 | 3.44 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 20 | 3.67 | 1.01 | 3.44 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 20 | 3.67 | 1.01 | 3.44 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 20 | 3.67 | 1.01 | 3.44 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 20 | 3.67 | 1.01 | 3.44 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 20 | 3.67 | 0.55 | 3.57 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 20 | 3.67 | 0.2 | 3.77 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 20 | 3.67 | 0.2 | 3.77 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 20 | 3.67 | 0.2 | 3.77 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 20 | 3.67 | 0.2 | 3.77 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 20 | 3.67 | 0.2 | 3.77 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 20 | 3.67 | 0.2 | 3.77 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 20 | 3.67 | 1.38 | 3.44 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 20 | 3.67 | 1.38 | 3.44 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 20 | 3.67 | 0.37 | 3.69 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 20 | 3.67 | 0.37 | 3.69 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 20 | 3.67 | 0.37 | 3.69 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 20 | 3.67 | 0.37 | 3.69 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 20 | 3.67 | 0.37 | 3.69 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 20 | 3.67 | 0.37 | 3.69 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 20 | 3.67 | 0.38 | 3.6 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 20 | 3.67 | 0.65 | 3.58 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 20 | 3.67 | 0.65 | 3.58 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 20 | 3.67 | 0.65 | 3.58 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 20 | 3.67 | 0.65 | 3.58 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 20 | 3.67 | 0.65 | 3.58 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 20 | 3.67 | 0.65 | 3.58 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 20 | 3.67 | 0.97 | 4.19 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 20 | 3.67 | 0.82 | 3.86 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 20 | 3.67 | 0.82 | 3.86 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 20 | 3.67 | 0.82 | 3.86 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 20 | 3.67 | 0.82 | 3.86 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 3.67 | 0.85 | 3.66 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 3.67 | 0.85 | 3.66 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 3.67 | 0.85 | 3.66 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 20 | 3.67 | 1.52 | 3.45 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 20 | 3.67 | 0.26 | 3.72 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 20 | 3.67 | 0.26 | 3.72 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 20 | 3.66 | 0.88 | 3.48 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 20 | 3.66 | 0.88 | 3.48 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 20 | 3.66 | 1.21 | 3.54 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 20 | 3.66 | 1.21 | 3.54 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 20 | 3.66 | 1.21 | 3.54 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 20 | 3.66 | 0.42 | 3.59 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 20 | 3.66 | 0.74 | 3.93 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 20 | 3.66 | 1.3 | 3.44 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 20 | 3.66 | 1.3 | 3.44 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 20 | 3.66 | 1.3 | 3.44 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 20 | 3.66 | 1.3 | 3.44 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 20 | 3.66 | 1.3 | 3.44 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 20 | 3.66 | 1.3 | 3.44 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 20 | 3.66 | 1.3 | 3.44 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 20 | 3.66 | 1.3 | 3.44 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 20 | 3.66 | 1.3 | 3.44 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 20 | 3.66 | 1.3 | 3.44 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 20 | 3.66 | 1.3 | 3.44 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 20 | 3.66 | 1.3 | 3.44 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 3.66 | 1.22 | 3.28 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 3.66 | 1.22 | 3.28 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 3.66 | 1.22 | 3.28 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 3.66 | 1.22 | 3.28 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 20 | 3.66 | 1.17 | 3.25 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 20 | 3.66 | 0.72 | 3.52 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 20 | 3.66 | 0.72 | 3.52 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 20 | 3.66 | 0.67 | 3.84 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 20 | 3.66 | 0.57 | 3.82 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 20 | 3.66 | 0.57 | 3.82 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 3.65 | 0.59 | 3.5 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 3.65 | 1.1 | 3.22 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 3.65 | 1.1 | 3.22 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 20 | 3.65 | 0.35 | 3.6 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 20 | 3.65 | 0.87 | 3.83 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 20 | 3.65 | 0.87 | 3.83 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 3.65 | 0.21 | 3.65 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 3.65 | 0.21 | 3.65 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 3.65 | 0.21 | 3.65 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 3.65 | 0.21 | 3.65 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 3.65 | 0.21 | 3.65 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 3.65 | 0.21 | 3.65 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 3.65 | 0.21 | 3.65 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 3.65 | 0.21 | 3.65 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 20 | 3.65 | 0.87 | 3.72 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 20 | 3.65 | 0.89 | 3.34 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 20 | 3.65 | 0.89 | 3.34 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 20 | 3.65 | 0.89 | 3.34 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 20 | 3.64 | 0.23 | 3.76 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 20 | 3.64 | 0.81 | 3.28 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 20 | 3.64 | 0.46 | 3.41 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 20 | 3.64 | 0.46 | 3.41 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 20 | 3.64 | 0.46 | 3.41 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 20 | 3.64 | 0.46 | 3.41 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 20 | 3.64 | 0.46 | 3.41 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 20 | 3.64 | 0.46 | 3.41 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 20 | 3.64 | 0.99 | 3.57 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 20 | 3.64 | 0.99 | 3.57 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 20 | 3.64 | 0.99 | 3.57 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 20 | 3.64 | 0.99 | 3.57 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 20 | 3.64 | 0.99 | 3.57 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 20 | 3.64 | 0.99 | 3.57 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 20 | 3.64 | 1.49 | 3.34 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 20 | 3.64 | 1.49 | 3.34 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 20 | 3.64 | 1.49 | 3.34 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 3.64 | 0.58 | 3.68 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 3.64 | 0.58 | 3.68 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 3.64 | 0.58 | 3.68 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 3.64 | 0.58 | 3.68 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 3.64 | 0.54 | 3.86 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 3.64 | 0.54 | 3.86 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 3.64 | 0.47 | 3.54 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 20 | 3.64 | 0.01 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 20 | 3.64 | 0.01 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 20 | 3.64 | 0.01 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 20 | 3.64 | 0.01 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 20 | 3.64 | 0.01 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 20 | 3.64 | 0.01 | 3.64 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 20 | 3.64 | 0.38 | 3.78 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 20 | 3.64 | 0.38 | 3.78 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 20 | 3.64 | 0.38 | 3.78 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 3.64 | 1.21 | 3.19 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 3.64 | 1.21 | 3.19 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 3.64 | 1.21 | 3.19 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 20 | 3.64 | 0.38 | 3.78 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 20 | 3.64 | 0.38 | 3.78 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 20 | 3.64 | 0.38 | 3.78 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 3.64 | 1.21 | 3.19 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 3.64 | 1.21 | 3.19 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 3.64 | 1.21 | 3.19 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 20 | 3.64 | 0.54 | 3.66 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 20 | 3.64 | 0.54 | 3.66 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 20 | 3.63 | 0.57 | 3.33 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 20 | 3.63 | 0.57 | 3.33 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 3.63 | 0.99 | 3.96 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 3.63 | 0.99 | 3.96 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.63 | 1.19 | 3.12 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 3.63 | 0.99 | 3.96 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 3.63 | 0.99 | 3.96 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 3.63 | 0.34 | 3.7 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 3.63 | 0.34 | 3.7 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 3.63 | 0.34 | 3.7 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 3.63 | 0.34 | 3.7 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 3.63 | 0.68 | 3.62 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 20 | 3.63 | 0.81 | 3.61 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 3.63 | 0.81 | 3.61 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 20 | 3.63 | 0.81 | 3.61 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 3.63 | 0.81 | 3.61 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 3.63 | 1.0 | 3.62 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 3.63 | 1.0 | 3.62 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 3.63 | 1.0 | 3.62 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 20 | 3.63 | 0.2 | 3.62 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 20 | 3.63 | 0.2 | 3.62 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 20 | 3.63 | 1.03 | 3.32 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 20 | 3.63 | 1.03 | 3.32 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 20 | 3.63 | 1.03 | 3.32 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 20 | 3.63 | 1.03 | 3.32 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 20 | 3.63 | 1.03 | 3.32 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 20 | 3.63 | 1.03 | 3.32 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 20 | 3.63 | 0.43 | 3.58 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 20 | 3.63 | 0.43 | 3.58 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 20 | 3.63 | 0.43 | 3.58 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 20 | 3.63 | 0.43 | 3.58 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 20 | 3.63 | 0.43 | 3.58 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 20 | 3.63 | 0.43 | 3.58 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 20 | 3.63 | 0.43 | 3.58 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 20 | 3.63 | 0.43 | 3.58 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 20 | 3.63 | 0.43 | 3.58 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 20 | 3.63 | 0.43 | 3.58 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 20 | 3.63 | 0.43 | 3.58 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 20 | 3.63 | 0.43 | 3.58 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 20 | 3.63 | 0.95 | 3.2 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 20 | 3.62 | 0.6 | 3.68 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 20 | 3.62 | 0.6 | 3.68 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 20 | 3.62 | 0.25 | 3.62 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 20 | 3.62 | 0.25 | 3.62 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 20 | 3.62 | 0.25 | 3.62 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 20 | 3.62 | 0.25 | 3.62 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 20 | 3.62 | 0.25 | 3.62 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 20 | 3.62 | 0.25 | 3.62 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 3.62 | 1.02 | 3.62 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 3.62 | 1.02 | 3.62 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 3.62 | 1.02 | 3.62 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 3.62 | 1.02 | 3.62 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 20 | 3.62 | 1.03 | 3.64 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 20 | 3.62 | 0.78 | 3.96 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 3.62 | 0.4 | 3.6 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 3.62 | 0.4 | 3.6 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 20 | 3.62 | 1.61 | 3.46 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 20 | 3.62 | 1.61 | 3.46 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 20 | 3.62 | 1.61 | 3.46 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 20 | 3.62 | 1.61 | 3.46 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 20 | 3.62 | 1.61 | 3.46 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 20 | 3.62 | 1.61 | 3.46 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 20 | 3.62 | 1.61 | 3.46 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 20 | 3.62 | 1.61 | 3.46 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 20 | 3.62 | 1.61 | 3.46 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 20 | 3.62 | 1.61 | 3.46 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 20 | 3.62 | 1.61 | 3.46 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 20 | 3.62 | 1.61 | 3.46 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 20 | 3.62 | 1.61 | 3.46 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 20 | 3.62 | 1.61 | 3.46 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 20 | 3.62 | 1.61 | 3.46 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 20 | 3.62 | 1.61 | 3.46 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 20 | 3.62 | 1.61 | 3.46 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 20 | 3.62 | 1.61 | 3.46 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 20 | 3.62 | 0.43 | 3.86 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 20 | 3.62 | 0.43 | 3.86 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 20 | 3.62 | 0.91 | 3.59 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 3.61 | 0.67 | 3.82 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 3.61 | 0.96 | 3.47 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 3.61 | 0.96 | 3.47 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 3.61 | 0.96 | 3.47 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 20 | 3.61 | 0.86 | 3.87 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 20 | 3.61 | 0.86 | 3.87 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 20 | 3.61 | 0.86 | 3.87 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 20 | 3.61 | 0.86 | 3.87 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 20 | 3.61 | 0.13 | 3.6 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 20 | 3.61 | 0.13 | 3.6 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 20 | 3.61 | 1.03 | 3.04 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 20 | 3.61 | 1.03 | 3.04 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 20 | 3.61 | 1.03 | 3.04 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 20 | 3.61 | 0.16 | 3.65 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 20 | 3.61 | 0.86 | 3.47 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 20 | 3.61 | 0.86 | 3.47 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 3.61 | 0.39 | 3.58 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 3.6 | 0.34 | 3.74 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 3.6 | 0.34 | 3.74 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 3.6 | 0.34 | 3.74 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 3.6 | 0.34 | 3.74 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 3.6 | 0.73 | 3.53 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 3.6 | 0.73 | 3.53 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 3.6 | 0.73 | 3.53 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 20 | 3.6 | 0.43 | 3.61 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 20 | 3.6 | 0.43 | 3.61 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 3.6 | 0.93 | 3.93 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 20 | 3.6 | 0.1 | 3.6 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 3.6 | 0.7 | 3.46 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 3.6 | 0.7 | 3.46 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 3.6 | 0.7 | 3.46 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 3.6 | 0.7 | 3.46 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 3.6 | 0.7 | 3.46 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 3.6 | 0.7 | 3.46 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 3.6 | 0.7 | 3.46 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 3.6 | 0.7 | 3.46 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 3.6 | 0.7 | 3.46 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 3.6 | 0.7 | 3.46 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 3.6 | 0.7 | 3.46 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 3.6 | 0.7 | 3.46 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 20 | 3.6 | 0.23 | 3.64 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 20 | 3.6 | 0.23 | 3.64 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 20 | 3.59 | 0.65 | 3.8 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 3.59 | 0.69 | 3.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 3.59 | 0.69 | 3.68 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 3.59 | 0.74 | 3.9 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 3.59 | 0.74 | 3.9 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 3.59 | 0.74 | 3.9 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 3.59 | 0.74 | 3.9 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 3.59 | 0.74 | 3.9 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 3.59 | 0.74 | 3.9 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 20 | 3.59 | 0.79 | 3.42 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 20 | 3.59 | 0.66 | 3.54 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 3.59 | 0.96 | 3.89 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 20 | 3.59 | 0.66 | 3.54 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 20 | 3.58 | 0.94 | 3.34 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 20 | 3.58 | 0.94 | 3.34 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 20 | 3.58 | 1.16 | 2.86 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 20 | 3.58 | 1.16 | 2.86 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 20 | 3.58 | 0.36 | 3.59 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 20 | 3.58 | 0.67 | 3.74 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 20 | 3.58 | 0.37 | 3.48 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 20 | 3.58 | 0.37 | 3.48 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 20 | 3.58 | 0.37 | 3.48 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 20 | 3.58 | 0.37 | 3.48 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 20 | 3.58 | 0.93 | 3.58 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 20 | 3.58 | 0.93 | 3.58 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 3.57 | 1.31 | 3.49 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 20 | 3.57 | 0.37 | 3.46 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 20 | 3.57 | 0.37 | 3.46 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 20 | 3.57 | 0.49 | 3.5 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 20 | 3.57 | 0.61 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 20 | 3.57 | 0.61 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 20 | 3.57 | 0.61 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 20 | 3.57 | 0.61 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 20 | 3.57 | 0.61 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 20 | 3.57 | 0.61 | 3.36 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 20 | 3.57 | 0.83 | 3.25 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 20 | 3.57 | 0.83 | 3.25 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 20 | 3.57 | 0.83 | 3.25 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 3.57 | 0.83 | 3.25 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 3.57 | 0.83 | 3.25 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 3.57 | 0.83 | 3.25 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 20 | 3.56 | 0.01 | 3.57 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 3.56 | 0.58 | 3.61 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 3.56 | 0.58 | 3.61 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 3.56 | 0.58 | 3.61 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 3.56 | 0.98 | 3.3 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 20 | 3.56 | 0.98 | 3.3 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 20 | 3.56 | 1.22 | 3.06 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 20 | 3.56 | 1.22 | 3.06 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 20 | 3.56 | 1.22 | 3.06 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 3.56 | 0.98 | 3.3 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 20 | 3.56 | 0.98 | 3.3 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 20 | 3.56 | 1.06 | 3.51 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 20 | 3.56 | 0.01 | 3.56 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 20 | 3.56 | 0.51 | 3.41 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 3.56 | 0.5 | 3.82 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 3.56 | 0.5 | 3.82 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 3.56 | 0.5 | 3.82 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 3.56 | 0.5 | 3.82 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 3.56 | 0.89 | 3.38 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 3.56 | 1.28 | 3.6 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 3.56 | 0.79 | 3.54 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 20 | 3.56 | 0.23 | 3.62 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 20 | 3.56 | 0.23 | 3.62 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 20 | 3.56 | 0.23 | 3.62 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 20 | 3.55 | 0.7 | 3.6 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 20 | 3.55 | 0.7 | 3.6 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 20 | 3.55 | 0.81 | 3.54 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 20 | 3.55 | 0.81 | 3.54 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 20 | 3.55 | 0.91 | 3.14 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 20 | 3.55 | 0.91 | 3.14 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 20 | 3.55 | 1.49 | 3.86 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 20 | 3.55 | 1.49 | 3.86 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 20 | 3.55 | 1.49 | 3.86 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 3.55 | 0.66 | 3.79 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 3.55 | 0.66 | 3.79 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 3.55 | 0.66 | 3.79 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 3.55 | 0.66 | 3.79 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 20 | 3.55 | 0.52 | 3.8 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 20 | 3.55 | 0.36 | 3.49 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 20 | 3.55 | 0.55 | 3.42 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 20 | 3.55 | 0.55 | 3.42 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 20 | 3.55 | 0.55 | 3.42 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 20 | 3.55 | 0.41 | 3.6 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 20 | 3.55 | 0.41 | 3.6 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 20 | 3.55 | 0.55 | 3.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 20 | 3.55 | 0.55 | 3.42 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 20 | 3.55 | 0.55 | 3.42 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 20 | 3.54 | 0.03 | 3.56 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 20 | 3.54 | 1.43 | 3.1 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 20 | 3.54 | 0.02 | 3.54 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 20 | 3.54 | 0.39 | 3.74 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 3.54 | 0.51 | 3.6 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 3.54 | 0.51 | 3.6 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 20 | 3.54 | 0.65 | 3.61 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 20 | 3.54 | 0.65 | 3.61 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 20 | 3.54 | 0.65 | 3.61 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 20 | 3.54 | 0.65 | 3.61 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 20 | 3.54 | 0.66 | 3.36 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 20 | 3.54 | 0.66 | 3.36 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 20 | 3.54 | 0.92 | 3.19 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 20 | 3.54 | 0.92 | 3.19 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 20 | 3.54 | 0.92 | 3.19 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 20 | 3.54 | 0.85 | 3.51 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 3.54 | 0.85 | 3.51 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 20 | 3.54 | 0.56 | 3.62 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 20 | 3.54 | 0.56 | 3.62 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 20 | 3.54 | 0.58 | 3.54 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 20 | 3.54 | 0.58 | 3.54 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 20 | 3.54 | 0.1 | 3.52 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 20 | 3.54 | 0.1 | 3.52 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 20 | 3.54 | 0.84 | 4.04 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 20 | 3.54 | 0.84 | 4.04 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 20 | 3.54 | 0.84 | 4.04 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 20 | 3.54 | 1.55 | 2.72 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 20 | 3.54 | 1.55 | 2.72 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 20 | 3.54 | 0.6 | 3.53 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 3.53 | 1.17 | 3.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 20 | 3.53 | 1.17 | 3.26 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 3.53 | 1.17 | 3.26 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 20 | 3.53 | 1.17 | 3.26 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 3.53 | 1.17 | 3.26 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 20 | 3.53 | 1.17 | 3.26 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 3.53 | 1.17 | 3.26 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 20 | 3.53 | 1.17 | 3.26 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 3.53 | 1.17 | 3.26 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 20 | 3.53 | 1.17 | 3.26 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 3.53 | 1.17 | 3.26 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 20 | 3.53 | 1.17 | 3.26 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 20 | 3.53 | 0.4 | 3.5 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 20 | 3.53 | 0.4 | 3.5 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 20 | 3.53 | 0.4 | 3.5 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 20 | 3.53 | 0.4 | 3.5 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 20 | 3.53 | 0.4 | 3.5 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 20 | 3.53 | 0.4 | 3.5 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 3.53 | 0.57 | 3.8 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 3.53 | 0.57 | 3.8 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 3.53 | 0.57 | 3.8 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 3.53 | 0.57 | 3.8 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 3.53 | 0.43 | 3.58 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 3.53 | 0.43 | 3.58 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 20 | 3.53 | 0.53 | 3.37 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 20 | 3.53 | 0.53 | 3.37 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 20 | 3.53 | 0.53 | 3.37 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 20 | 3.53 | 0.53 | 3.37 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 20 | 3.53 | 0.53 | 3.37 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 20 | 3.53 | 0.53 | 3.37 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 20 | 3.53 | 0.3 | 3.65 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 20 | 3.53 | 0.45 | 3.68 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 20 | 3.53 | 0.45 | 3.68 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 20 | 3.53 | 1.06 | 3.82 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 3.53 | 1.06 | 3.82 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 20 | 3.53 | 1.06 | 3.82 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 3.53 | 1.06 | 3.82 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 20 | 3.53 | 0.8 | 3.7 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 20 | 3.53 | 0.8 | 3.7 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 3.53 | 0.85 | 3.8 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 3.53 | 0.85 | 3.8 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 3.53 | 0.85 | 3.8 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 3.53 | 0.93 | 3.57 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 3.53 | 0.93 | 3.57 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 3.53 | 0.93 | 3.57 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 3.53 | 0.93 | 3.57 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 3.53 | 0.93 | 3.57 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 3.53 | 0.93 | 3.57 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 3.52 | 1.06 | 3.36 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 3.52 | 1.06 | 3.36 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 20 | 3.52 | 0.01 | 3.52 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 20 | 3.52 | 0.05 | 3.54 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 20 | 3.52 | 0.67 | 3.34 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 20 | 3.52 | 0.67 | 3.34 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 20 | 3.52 | 0.67 | 3.34 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 20 | 3.52 | 0.67 | 3.34 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 3.52 | 0.44 | 3.62 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 3.52 | 0.44 | 3.62 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 3.52 | 0.44 | 3.62 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 3.52 | 0.44 | 3.62 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 3.52 | 0.44 | 3.62 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 3.52 | 0.44 | 3.62 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 20 | 3.52 | 0.38 | 3.58 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 20 | 3.52 | 0.15 | 3.57 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 20 | 3.52 | 0.15 | 3.57 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 20 | 3.52 | 0.14 | 3.49 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 20 | 3.52 | 0.65 | 3.5 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 20 | 3.51 | 0.45 | 3.54 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 20 | 3.51 | 0.45 | 3.54 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 20 | 3.51 | 0.45 | 3.54 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 20 | 3.51 | 0.45 | 3.54 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 20 | 3.51 | 0.45 | 3.54 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 20 | 3.51 | 0.45 | 3.54 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 20 | 3.51 | 0.45 | 3.54 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 20 | 3.51 | 0.45 | 3.54 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 20 | 3.51 | 0.45 | 3.54 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 20 | 3.51 | 0.03 | 3.52 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 3.51 | 0.42 | 3.56 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 3.51 | 0.42 | 3.56 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 20 | 3.51 | 0.95 | 3.54 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 20 | 3.51 | 0.95 | 3.54 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 20 | 3.51 | 0.95 | 3.54 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 20 | 3.51 | 0.95 | 3.54 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 20 | 3.51 | 0.55 | 3.28 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 20 | 3.51 | 0.55 | 3.28 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 20 | 3.51 | 0.55 | 3.28 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 20 | 3.51 | 0.43 | 3.36 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 20 | 3.51 | 0.39 | 3.49 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 20 | 3.51 | 0.99 | 3.38 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 20 | 3.51 | 0.99 | 3.38 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 3.51 | 0.99 | 3.38 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 3.51 | 0.99 | 3.38 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 3.51 | 0.48 | 3.69 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 3.51 | 0.48 | 3.69 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 3.51 | 1.05 | 2.94 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 3.51 | 1.05 | 2.94 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 3.51 | 1.05 | 2.94 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 20 | 3.51 | 0.28 | 3.49 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 20 | 3.51 | 0.28 | 3.49 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 20 | 3.51 | 0.28 | 3.49 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 20 | 3.51 | 0.28 | 3.49 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 20 | 3.51 | 0.28 | 3.49 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 20 | 3.51 | 0.28 | 3.49 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 20 | 3.51 | 0.52 | 3.42 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 20 | 3.51 | 0.52 | 3.42 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 20 | 3.51 | 0.78 | 3.66 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 20 | 3.51 | 0.78 | 3.66 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 20 | 3.5 | 0.76 | 4.0 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 20 | 3.5 | 0.76 | 4.0 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 3.5 | 1.26 | 3.54 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 3.5 | 1.26 | 3.54 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 3.5 | 1.26 | 3.54 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 3.5 | 1.26 | 3.54 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 3.5 | 1.26 | 3.54 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 3.5 | 1.26 | 3.54 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 3.5 | 1.26 | 3.54 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 3.5 | 1.26 | 3.54 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 3.5 | 1.26 | 3.54 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 3.5 | 1.26 | 3.54 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 3.5 | 1.26 | 3.54 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 3.5 | 1.26 | 3.54 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 20 | 3.5 | 0.23 | 3.49 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 20 | 3.5 | 0.23 | 3.49 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 20 | 3.5 | 0.23 | 3.49 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 20 | 3.5 | 0.23 | 3.49 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 3.5 | 0.31 | 3.54 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 3.5 | 0.31 | 3.54 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 3.5 | 0.31 | 3.54 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 20 | 3.5 | 0.11 | 3.52 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 3.5 | 1.07 | 3.76 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 20 | 3.5 | 1.04 | 3.06 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 3.5 | 1.04 | 3.06 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 3.5 | 0.48 | 3.42 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 3.5 | 0.98 | 3.67 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 3.5 | 0.98 | 3.67 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 3.5 | 0.98 | 3.67 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 3.5 | 0.98 | 3.67 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 3.5 | 0.98 | 3.67 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 3.5 | 0.98 | 3.67 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 3.5 | 0.98 | 3.67 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 3.5 | 0.98 | 3.67 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 3.5 | 0.98 | 3.67 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 3.5 | 0.98 | 3.67 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 3.5 | 0.98 | 3.67 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 3.5 | 0.98 | 3.67 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 20 | 3.5 | 0.36 | 3.61 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 20 | 3.5 | 0.36 | 3.61 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 3.5 | 1.05 | 3.12 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 3.5 | 1.05 | 3.12 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 3.5 | 1.05 | 3.12 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 20 | 3.5 | 0.37 | 3.44 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 20 | 3.49 | 0.64 | 3.44 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 20 | 3.49 | 0.64 | 3.44 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 20 | 3.49 | 0.28 | 3.45 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 20 | 3.49 | 0.47 | 3.34 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 20 | 3.49 | 0.47 | 3.34 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 20 | 3.49 | 0.47 | 3.34 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 20 | 3.49 | 0.47 | 3.34 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 20 | 3.49 | 0.51 | 3.44 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 20 | 3.49 | 0.51 | 3.44 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 20 | 3.49 | 0.51 | 3.44 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 20 | 3.49 | 0.51 | 3.44 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 20 | 3.49 | 0.51 | 3.44 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 20 | 3.49 | 0.51 | 3.44 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 20 | 3.49 | 0.7 | 3.58 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 20 | 3.49 | 0.7 | 3.58 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 20 | 3.49 | 2.03 | 2.41 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 3.49 | 0.54 | 3.36 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 20 | 3.49 | 0.54 | 3.36 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 3.49 | 0.54 | 3.36 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 20 | 3.49 | 0.54 | 3.36 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 20 | 3.49 | 0.48 | 3.39 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 20 | 3.49 | 0.48 | 3.39 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 20 | 3.49 | 0.48 | 3.39 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 20 | 3.49 | 0.48 | 3.39 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 20 | 3.49 | 0.48 | 3.39 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 20 | 3.49 | 0.48 | 3.39 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 20 | 3.49 | 0.3 | 3.44 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 20 | 3.49 | 0.3 | 3.44 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 3.49 | 1.1 | 3.7 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 3.49 | 1.1 | 3.7 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 3.49 | 1.1 | 3.7 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 20 | 3.49 | 0.1 | 3.52 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 3.49 | 1.17 | 3.23 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 20 | 3.49 | 0.99 | 3.62 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 20 | 3.48 | 0.24 | 3.5 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 20 | 3.48 | 0.24 | 3.5 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 20 | 3.48 | 0.24 | 3.5 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 20 | 3.48 | 0.49 | 3.33 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 20 | 3.48 | 0.49 | 3.33 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 20 | 3.48 | 0.49 | 3.33 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 20 | 3.48 | 0.24 | 3.5 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 20 | 3.48 | 0.24 | 3.5 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 20 | 3.48 | 0.24 | 3.5 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 20 | 3.48 | 0.19 | 3.45 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 20 | 3.48 | 0.19 | 3.45 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 20 | 3.48 | 0.19 | 3.45 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 20 | 3.48 | 0.67 | 3.48 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 20 | 3.48 | 0.67 | 3.48 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 20 | 3.48 | 0.67 | 3.48 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 20 | 3.48 | 0.67 | 3.48 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 20 | 3.48 | 0.67 | 3.48 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 20 | 3.48 | 0.67 | 3.48 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 20 | 3.48 | 0.28 | 3.43 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 20 | 3.48 | 0.28 | 3.43 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 20 | 3.48 | 0.28 | 3.43 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 20 | 3.48 | 0.06 | 3.49 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 20 | 3.48 | 0.77 | 3.08 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 20 | 3.48 | 0.77 | 3.08 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 20 | 3.48 | 0.77 | 3.08 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 20 | 3.48 | 0.77 | 3.08 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 3.47 | 0.48 | 3.5 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 3.47 | 0.48 | 3.5 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 20 | 3.47 | 0.4 | 3.64 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 20 | 3.47 | 0.4 | 3.64 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 20 | 3.47 | 0.4 | 3.64 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 20 | 3.47 | 0.72 | 3.58 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 20 | 3.47 | 0.72 | 3.58 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 20 | 3.47 | 0.72 | 3.58 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 20 | 3.47 | 0.72 | 3.58 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 20 | 3.47 | 0.86 | 3.4 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 20 | 3.47 | 0.86 | 3.4 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 20 | 3.47 | 0.86 | 3.4 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 20 | 3.47 | 0.86 | 3.4 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 20 | 3.47 | 0.19 | 3.51 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 20 | 3.47 | 0.08 | 3.47 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.47 | 1.02 | 3.07 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 3.47 | 1.02 | 3.07 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 20 | 3.47 | 0.13 | 3.51 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 20 | 3.47 | 1.11 | 3.08 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 20 | 3.47 | 0.43 | 3.33 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 20 | 3.47 | 0.43 | 3.33 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 20 | 3.47 | 0.43 | 3.33 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 20 | 3.47 | 0.53 | 3.8 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 20 | 3.47 | 0.43 | 3.33 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 20 | 3.47 | 0.43 | 3.33 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 20 | 3.47 | 0.43 | 3.33 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 3.46 | 0.6 | 3.6 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 3.46 | 0.6 | 3.6 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 3.46 | 0.6 | 3.6 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 3.46 | 0.6 | 3.6 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 3.46 | 0.6 | 3.6 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 3.46 | 0.6 | 3.6 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 3.46 | 0.6 | 3.6 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 3.46 | 0.6 | 3.6 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 20 | 3.46 | 0.52 | 3.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 20 | 3.46 | 0.52 | 3.44 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 20 | 3.46 | 0.52 | 3.44 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 20 | 3.46 | 0.89 | 3.42 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 20 | 3.46 | 0.89 | 3.42 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 20 | 3.46 | 0.89 | 3.42 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 20 | 3.46 | 0.89 | 3.42 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 20 | 3.46 | 0.89 | 3.42 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 20 | 3.46 | 0.89 | 3.42 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 20 | 3.46 | 0.46 | 3.3 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 20 | 3.46 | 0.91 | 3.06 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 20 | 3.46 | 0.91 | 3.06 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 20 | 3.46 | 0.91 | 3.06 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 20 | 3.46 | 0.62 | 3.7 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 20 | 3.46 | 0.62 | 3.7 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 20 | 3.46 | 0.13 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 20 | 3.46 | 0.13 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 20 | 3.46 | 0.13 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 20 | 3.46 | 0.13 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 20 | 3.46 | 0.13 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 20 | 3.46 | 0.13 | 3.47 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 20 | 3.46 | 0.74 | 3.15 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 20 | 3.46 | 0.74 | 3.15 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 20 | 3.46 | 0.74 | 3.15 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 20 | 3.46 | 0.74 | 3.15 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 20 | 3.46 | 0.74 | 3.15 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 20 | 3.46 | 0.74 | 3.15 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 20 | 3.46 | 0.84 | 3.54 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 20 | 3.46 | 0.84 | 3.54 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 20 | 3.46 | 0.84 | 3.54 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 3.46 | 0.63 | 3.56 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 3.46 | 0.63 | 3.56 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 3.46 | 0.79 | 3.38 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 3.46 | 0.79 | 3.38 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 3.46 | 0.79 | 3.38 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 3.46 | 0.79 | 3.38 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 3.46 | 0.79 | 3.38 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 3.46 | 0.79 | 3.38 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 3.45 | 0.41 | 3.62 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 20 | 3.45 | 0.72 | 3.29 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 20 | 3.45 | 0.72 | 3.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 20 | 3.45 | 0.72 | 3.29 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 20 | 3.45 | 0.72 | 3.29 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 20 | 3.45 | 0.35 | 3.58 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 20 | 3.45 | 0.35 | 3.58 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 20 | 3.45 | 0.88 | 3.89 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 20 | 3.45 | 0.88 | 3.89 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 20 | 3.45 | 0.88 | 3.89 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 20 | 3.45 | 0.88 | 3.89 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 3.45 | 1.21 | 3.04 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 20 | 3.45 | 0.56 | 3.56 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 20 | 3.45 | 0.58 | 3.76 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 20 | 3.45 | 0.11 | 3.48 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 20 | 3.45 | 0.34 | 3.59 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 3.44 | 0.65 | 3.6 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 3.44 | 0.65 | 3.6 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 3.44 | 0.65 | 3.6 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 3.44 | 0.65 | 3.6 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 3.44 | 0.65 | 3.6 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 3.44 | 0.65 | 3.6 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 20 | 3.44 | 0.93 | 3.56 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 20 | 3.44 | 0.72 | 3.55 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 20 | 3.44 | 0.19 | 3.52 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 3.44 | 1.08 | 3.12 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 3.44 | 1.08 | 3.12 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 3.44 | 1.08 | 3.12 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 20 | 3.44 | 1.08 | 3.12 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 20 | 3.44 | 1.08 | 3.12 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 20 | 3.44 | 1.08 | 3.12 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 20 | 3.44 | 0.05 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 20 | 3.44 | 0.05 | 3.46 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 20 | 3.44 | 1.01 | 3.56 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 20 | 3.44 | 0.84 | 3.19 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 20 | 3.44 | 0.84 | 3.19 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 20 | 3.44 | 0.84 | 3.19 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 20 | 3.44 | 0.84 | 3.19 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 20 | 3.44 | 0.84 | 3.19 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 20 | 3.44 | 0.84 | 3.19 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 20 | 3.44 | 1.51 | 3.32 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 20 | 3.44 | 1.51 | 3.32 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 20 | 3.44 | 1.51 | 3.32 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 20 | 3.44 | 1.51 | 3.32 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 20 | 3.44 | 1.51 | 3.32 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 20 | 3.44 | 1.51 | 3.32 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 20 | 3.44 | 0.62 | 3.31 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 20 | 3.44 | 0.35 | 3.38 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 20 | 3.44 | 0.35 | 3.38 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 20 | 3.44 | 0.35 | 3.38 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 20 | 3.44 | 0.35 | 3.38 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 20 | 3.44 | 0.33 | 3.44 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 20 | 3.44 | 0.81 | 3.53 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 20 | 3.44 | 0.81 | 3.53 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 20 | 3.44 | 0.81 | 3.53 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 20 | 3.44 | 0.77 | 3.44 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 20 | 3.43 | 0.77 | 3.26 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 20 | 3.43 | 0.77 | 3.26 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 20 | 3.43 | 0.77 | 3.26 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 3.43 | 0.48 | 3.66 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 20 | 3.43 | 1.5 | 2.7 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 3.43 | 1.06 | 3.32 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 3.43 | 1.06 | 3.32 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 3.43 | 1.06 | 3.32 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 3.43 | 1.06 | 3.32 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 20 | 3.43 | 0.08 | 3.46 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 20 | 3.43 | 0.49 | 3.32 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 20 | 3.43 | 0.54 | 3.72 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 20 | 3.42 | 0.76 | 2.9 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 3.42 | 0.71 | 3.72 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 3.42 | 0.71 | 3.72 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 20 | 3.42 | 1.41 | 3.47 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 20 | 3.42 | 1.41 | 3.47 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 20 | 3.42 | 1.41 | 3.47 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 20 | 3.42 | 1.41 | 3.47 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 20 | 3.42 | 1.41 | 3.47 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 20 | 3.42 | 1.41 | 3.47 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 20 | 3.42 | 1.41 | 3.47 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 20 | 3.42 | 1.41 | 3.47 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 20 | 3.42 | 1.41 | 3.47 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 20 | 3.42 | 1.41 | 3.47 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 20 | 3.42 | 1.41 | 3.47 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 20 | 3.42 | 1.41 | 3.47 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 20 | 3.42 | 1.41 | 3.47 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 20 | 3.42 | 1.41 | 3.47 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 20 | 3.42 | 1.41 | 3.47 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 20 | 3.42 | 1.41 | 3.47 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 20 | 3.42 | 1.41 | 3.47 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 20 | 3.42 | 1.41 | 3.47 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 20 | 3.42 | 0.37 | 3.38 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 20 | 3.42 | 0.33 | 3.53 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 20 | 3.42 | 0.31 | 3.38 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 20 | 3.42 | 0.31 | 3.38 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 20 | 3.42 | 0.31 | 3.38 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 20 | 3.42 | 0.31 | 3.38 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 20 | 3.42 | 0.31 | 3.38 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 20 | 3.42 | 0.31 | 3.38 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 20 | 3.42 | 0.79 | 3.54 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 20 | 3.42 | 0.79 | 3.54 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 20 | 3.42 | 0.79 | 3.54 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 20 | 3.42 | 0.79 | 3.54 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 3.42 | 0.08 | 3.46 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 3.42 | 0.08 | 3.46 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 3.42 | 0.51 | 3.21 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 3.42 | 0.51 | 3.21 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 3.42 | 0.51 | 3.21 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 3.42 | 0.51 | 3.21 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 3.42 | 0.51 | 3.21 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 3.42 | 0.51 | 3.21 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 3.42 | 0.51 | 3.21 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 3.42 | 0.51 | 3.21 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 3.42 | 0.51 | 3.21 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 3.42 | 0.51 | 3.21 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 3.42 | 0.51 | 3.21 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 3.42 | 0.51 | 3.21 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 3.42 | 0.51 | 3.21 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 3.42 | 0.51 | 3.21 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 3.42 | 0.51 | 3.21 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 3.42 | 0.51 | 3.21 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 3.42 | 0.51 | 3.21 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 3.42 | 0.51 | 3.21 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 20 | 3.42 | 0.44 | 3.52 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 20 | 3.42 | 0.44 | 3.52 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 20 | 3.42 | 0.88 | 3.06 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 20 | 3.42 | 0.88 | 3.06 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 20 | 3.42 | 0.88 | 3.06 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 20 | 3.42 | 0.88 | 3.06 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 20 | 3.42 | 0.88 | 3.06 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 20 | 3.42 | 0.88 | 3.06 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 20 | 3.42 | 0.67 | 3.76 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 20 | 3.41 | 0.87 | 3.04 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 20 | 3.41 | 0.87 | 3.04 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 20 | 3.41 | 0.78 | 3.4 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 20 | 3.41 | 0.78 | 3.4 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 20 | 3.41 | 0.78 | 3.4 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 20 | 3.41 | 0.78 | 3.4 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 3.41 | 1.34 | 3.54 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 3.41 | 1.34 | 3.54 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 3.41 | 1.34 | 3.54 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 3.41 | 1.83 | 3.4 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 3.41 | 1.83 | 3.4 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 3.41 | 1.83 | 3.4 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 20 | 3.41 | 1.09 | 3.55 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 20 | 3.41 | 1.09 | 3.55 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 20 | 3.41 | 0.59 | 3.39 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 20 | 3.41 | 0.59 | 3.39 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 3.41 | 1.01 | 3.44 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 20 | 3.41 | 0.62 | 3.32 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 20 | 3.41 | 0.62 | 3.32 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 20 | 3.41 | 0.62 | 3.32 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 20 | 3.41 | 0.62 | 3.32 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 20 | 3.41 | 0.66 | 3.6 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 20 | 3.41 | 0.66 | 3.6 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 20 | 3.41 | 0.72 | 3.62 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 20 | 3.41 | 0.72 | 3.62 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 20 | 3.41 | 0.72 | 3.62 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 20 | 3.41 | 0.72 | 3.62 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 20 | 3.41 | 0.72 | 3.62 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 20 | 3.41 | 0.72 | 3.62 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 3.41 | 1.03 | 3.6 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 20 | 3.41 | 1.0 | 3.17 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 20 | 3.41 | 1.0 | 3.17 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 20 | 3.41 | 1.0 | 3.17 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 20 | 3.41 | 1.0 | 3.17 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 20 | 3.41 | 1.0 | 3.17 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 20 | 3.41 | 1.0 | 3.17 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 20 | 3.41 | 1.0 | 3.17 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 20 | 3.41 | 1.0 | 3.17 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 20 | 3.41 | 1.0 | 3.17 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 20 | 3.4 | 0.43 | 3.6 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 20 | 3.4 | 0.47 | 3.34 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 20 | 3.4 | 0.47 | 3.34 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 20 | 3.4 | 0.47 | 3.34 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 20 | 3.4 | 0.47 | 3.34 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 20 | 3.4 | 0.47 | 3.34 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 20 | 3.4 | 0.47 | 3.34 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 3.4 | 0.44 | 3.45 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 20 | 3.4 | 0.96 | 3.06 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 3.4 | 0.51 | 3.5 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 3.4 | 0.51 | 3.5 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 3.4 | 0.51 | 3.5 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 3.4 | 0.51 | 3.5 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 3.4 | 0.51 | 3.5 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 3.4 | 0.51 | 3.5 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 3.4 | 0.51 | 3.5 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 3.4 | 0.51 | 3.5 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 3.4 | 0.51 | 3.5 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 3.4 | 0.51 | 3.5 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 3.4 | 0.51 | 3.5 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 3.4 | 0.51 | 3.5 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 3.4 | 1.09 | 3.41 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 3.4 | 1.09 | 3.41 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 3.4 | 1.09 | 3.41 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 3.4 | 1.09 | 3.41 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 3.4 | 1.09 | 3.41 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 3.4 | 1.09 | 3.41 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 3.4 | 1.09 | 3.41 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 3.4 | 1.09 | 3.41 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 3.4 | 1.09 | 3.41 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 3.4 | 1.09 | 3.41 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 3.4 | 1.09 | 3.41 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 3.4 | 1.09 | 3.41 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 20 | 3.39 | 0.9 | 3.5 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 20 | 3.39 | 0.9 | 3.5 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 20 | 3.39 | 0.43 | 3.44 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 20 | 3.39 | 0.96 | 3.22 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 3.39 | 0.12 | 3.36 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 3.39 | 0.12 | 3.36 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 20 | 3.39 | 0.18 | 3.42 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 20 | 3.39 | 0.18 | 3.42 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 20 | 3.39 | 0.95 | 3.36 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 3.39 | 0.95 | 3.36 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 3.39 | 0.95 | 3.36 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 20 | 3.39 | 0.58 | 3.36 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 3.39 | 1.6 | 3.06 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 20 | 3.39 | 0.91 | 3.14 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 20 | 3.39 | 0.91 | 3.14 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 20 | 3.39 | 0.91 | 3.14 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 20 | 3.39 | 0.91 | 3.14 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 20 | 3.39 | 0.91 | 3.14 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 20 | 3.39 | 0.91 | 3.14 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 20 | 3.39 | 0.52 | 3.34 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 20 | 3.39 | 0.52 | 3.34 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 20 | 3.39 | 0.52 | 3.34 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 20 | 3.39 | 0.52 | 3.34 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 20 | 3.39 | 0.52 | 3.34 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 20 | 3.39 | 0.52 | 3.34 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 20 | 3.39 | 0.7 | 3.44 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 20 | 3.38 | 0.45 | 3.5 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 20 | 3.38 | 0.45 | 3.5 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 20 | 3.38 | 0.3 | 3.42 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 20 | 3.38 | 0.3 | 3.42 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 20 | 3.38 | 0.3 | 3.42 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 3.38 | 1.48 | 3.32 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 3.38 | 1.48 | 3.32 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 3.38 | 1.48 | 3.32 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 20 | 3.38 | 1.03 | 3.26 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 20 | 3.38 | 1.03 | 3.26 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 3.38 | 0.54 | 3.49 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 3.38 | 0.54 | 3.49 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 3.38 | 0.54 | 3.49 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 3.38 | 0.54 | 3.49 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 20 | 3.38 | 0.37 | 3.52 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 20 | 3.38 | 0.37 | 3.52 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 20 | 3.38 | 0.37 | 3.52 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 20 | 3.38 | 0.37 | 3.52 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 20 | 3.38 | 0.8 | 3.33 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 20 | 3.38 | 0.8 | 3.33 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 20 | 3.38 | 0.8 | 3.33 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 20 | 3.38 | 0.8 | 3.33 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 20 | 3.38 | 0.37 | 3.46 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 20 | 3.38 | 0.37 | 3.46 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 20 | 3.38 | 0.37 | 3.46 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 3.38 | 1.77 | 3.7 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 20 | 3.38 | 0.58 | 3.82 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 20 | 3.37 | 0.43 | 3.25 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 20 | 3.37 | 0.43 | 3.25 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 3.37 | 1.06 | 3.95 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 3.37 | 1.06 | 3.95 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 20 | 3.37 | 0.43 | 3.25 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 20 | 3.37 | 0.43 | 3.25 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 3.37 | 1.06 | 3.95 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 3.37 | 1.06 | 3.95 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 20 | 3.37 | 0.75 | 3.8 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 20 | 3.37 | 0.75 | 3.8 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 20 | 3.37 | 0.75 | 3.8 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 20 | 3.37 | 0.75 | 3.8 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 3.37 | 0.94 | 3.22 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 20 | 3.37 | 0.94 | 3.22 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 3.37 | 0.94 | 3.22 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 20 | 3.37 | 0.94 | 3.22 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 3.37 | 0.83 | 3.09 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 20 | 3.37 | 0.6 | 3.18 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 3.37 | 0.76 | 3.42 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 3.37 | 0.76 | 3.42 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 20 | 3.37 | 0.6 | 3.18 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 20 | 3.37 | 1.0 | 3.13 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 20 | 3.37 | 1.0 | 3.13 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 3.37 | 0.28 | 3.36 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 3.37 | 0.49 | 3.2 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 3.37 | 0.49 | 3.2 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 3.37 | 0.49 | 3.2 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 3.37 | 0.49 | 3.2 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 3.37 | 0.49 | 3.2 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 3.37 | 0.49 | 3.2 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 3.37 | 1.05 | 2.84 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 3.37 | 1.05 | 2.84 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 3.37 | 1.05 | 2.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 3.37 | 1.05 | 2.84 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 3.37 | 1.05 | 2.84 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 3.37 | 1.05 | 2.84 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 3.37 | 1.05 | 2.84 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 3.37 | 1.05 | 2.84 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 3.37 | 1.05 | 2.84 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 3.37 | 1.05 | 2.84 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 3.37 | 1.05 | 2.84 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 3.37 | 1.05 | 2.84 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 3.37 | 1.05 | 2.84 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 3.37 | 1.05 | 2.84 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 3.37 | 1.05 | 2.84 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 3.37 | 1.05 | 2.84 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 3.37 | 1.05 | 2.84 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 3.37 | 1.05 | 2.84 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 3.36 | 1.15 | 3.45 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 20 | 3.36 | 0.19 | 3.33 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 20 | 3.36 | 0.19 | 3.33 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 20 | 3.36 | 1.36 | 2.63 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 20 | 3.36 | 1.36 | 2.63 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 3.36 | 0.91 | 3.5 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 20 | 3.36 | 0.71 | 3.16 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 20 | 3.36 | 0.71 | 3.16 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 20 | 3.36 | 0.43 | 3.54 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 20 | 3.36 | 0.43 | 3.54 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 20 | 3.36 | 0.43 | 3.54 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 20 | 3.36 | 0.43 | 3.54 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 20 | 3.36 | 0.43 | 3.54 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 20 | 3.36 | 0.43 | 3.54 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 20 | 3.36 | 0.25 | 3.47 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 20 | 3.36 | 0.42 | 3.43 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 20 | 3.36 | 0.32 | 3.3 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 20 | 3.36 | 0.32 | 3.3 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 20 | 3.36 | 0.08 | 3.39 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 20 | 3.36 | 0.08 | 3.39 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 20 | 3.35 | 0.2 | 3.42 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 3.35 | 0.52 | 3.26 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 3.35 | 0.52 | 3.26 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 3.35 | 0.52 | 3.26 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 20 | 3.35 | 0.52 | 3.26 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 3.35 | 0.52 | 3.26 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 3.35 | 0.52 | 3.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 3.35 | 0.52 | 3.26 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 20 | 3.35 | 0.52 | 3.26 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 20 | 3.35 | 0.12 | 3.36 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 3.35 | 0.17 | 3.38 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 3.35 | 0.17 | 3.38 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 3.35 | 0.71 | 3.51 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 3.35 | 0.71 | 3.51 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 3.35 | 0.71 | 3.51 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 3.35 | 0.71 | 3.51 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 3.35 | 0.73 | 3.34 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 20 | 3.35 | 0.73 | 3.34 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 3.35 | 0.73 | 3.34 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 20 | 3.35 | 0.73 | 3.34 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 3.35 | 0.73 | 3.34 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 20 | 3.35 | 0.73 | 3.34 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 3.35 | 0.73 | 3.34 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 20 | 3.35 | 0.73 | 3.34 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 3.35 | 0.73 | 3.34 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 20 | 3.35 | 0.73 | 3.34 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 3.35 | 0.73 | 3.34 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 20 | 3.35 | 0.73 | 3.34 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 20 | 3.35 | 1.43 | 2.91 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 20 | 3.35 | 1.43 | 2.91 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 20 | 3.35 | 1.43 | 2.91 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 20 | 3.35 | 0.26 | 3.45 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 20 | 3.34 | 0.48 | 3.51 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 20 | 3.34 | 0.66 | 3.14 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 20 | 3.34 | 0.22 | 3.46 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 20 | 3.34 | 0.66 | 3.14 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 20 | 3.34 | 0.18 | 3.42 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 20 | 3.34 | 1.05 | 2.99 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 20 | 3.34 | 1.05 | 2.99 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 20 | 3.34 | 1.05 | 2.99 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 20 | 3.34 | 1.05 | 2.99 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 20 | 3.34 | 1.05 | 2.99 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 20 | 3.34 | 1.05 | 2.99 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 3.34 | 1.0 | 3.22 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 3.34 | 0.63 | 3.47 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 20 | 3.34 | 0.32 | 3.46 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 20 | 3.34 | 0.51 | 3.28 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 20 | 3.34 | 0.51 | 3.28 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 3.34 | 0.79 | 3.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 20 | 3.34 | 0.41 | 3.34 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 20 | 3.34 | 0.41 | 3.34 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 3.34 | 0.64 | 3.15 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 20 | 3.34 | 0.25 | 3.27 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 20 | 3.34 | 0.25 | 3.27 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 20 | 3.34 | 0.25 | 3.27 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 3.34 | 0.64 | 3.15 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 20 | 3.34 | 0.25 | 3.27 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 20 | 3.34 | 0.25 | 3.27 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 20 | 3.34 | 0.25 | 3.27 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 3.34 | 0.61 | 3.36 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 20 | 3.34 | 1.41 | 2.68 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 20 | 3.34 | 1.41 | 2.68 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 20 | 3.34 | 1.41 | 2.68 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 3.34 | 0.65 | 3.43 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 20 | 3.34 | 1.41 | 2.68 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 20 | 3.34 | 1.41 | 2.68 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 20 | 3.34 | 1.41 | 2.68 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 20 | 3.33 | 1.32 | 2.83 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 20 | 3.33 | 1.32 | 2.83 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 3.33 | 0.51 | 3.23 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 3.33 | 0.51 | 3.23 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 3.33 | 0.51 | 3.23 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 20 | 3.33 | 0.64 | 3.44 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 20 | 3.33 | 0.64 | 3.44 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 20 | 3.33 | 0.9 | 3.56 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 20 | 3.33 | 0.9 | 3.56 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 20 | 3.33 | 0.9 | 3.56 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 20 | 3.33 | 0.9 | 3.56 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 20 | 3.33 | 0.69 | 3.26 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 20 | 3.33 | 0.69 | 3.26 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 20 | 3.33 | 0.69 | 3.26 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 20 | 3.33 | 0.69 | 3.26 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 20 | 3.33 | 0.69 | 3.26 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 20 | 3.33 | 0.69 | 3.26 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 20 | 3.33 | 0.69 | 3.26 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 20 | 3.33 | 0.69 | 3.26 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 20 | 3.33 | 0.34 | 3.3 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 3.33 | 1.85 | 2.76 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 3.33 | 1.85 | 2.76 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 3.33 | 1.85 | 2.76 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 20 | 3.33 | 0.74 | 3.19 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 20 | 3.33 | 0.37 | 3.52 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 3.33 | 1.54 | 2.96 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 20 | 3.33 | 0.49 | 3.56 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 20 | 3.33 | 0.49 | 3.56 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 20 | 3.33 | 0.0 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 20 | 3.33 | 0.0 | 3.33 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 20 | 3.33 | 0.49 | 3.56 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 20 | 3.33 | 0.49 | 3.56 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 20 | 3.32 | 2.64 | 2.28 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 20 | 3.32 | 0.42 | 3.34 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 20 | 3.32 | 1.35 | 2.87 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 20 | 3.32 | 1.1 | 2.86 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 20 | 3.32 | 1.1 | 2.86 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 20 | 3.32 | 0.62 | 3.28 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 20 | 3.32 | 0.62 | 3.28 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 20 | 3.32 | 0.22 | 3.42 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 20 | 3.32 | 0.21 | 3.28 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 20 | 3.32 | 0.21 | 3.28 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 20 | 3.32 | 0.21 | 3.28 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 20 | 3.32 | 0.97 | 3.48 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 20 | 3.32 | 0.97 | 3.48 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 20 | 3.32 | 0.5 | 3.08 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 20 | 3.32 | 0.5 | 3.08 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 20 | 3.32 | 0.1 | 3.26 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 20 | 3.32 | 0.1 | 3.26 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 3.32 | 0.75 | 3.74 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 3.32 | 0.75 | 3.74 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 3.32 | 0.75 | 3.74 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 3.32 | 0.75 | 3.74 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 20 | 3.31 | 0.63 | 3.29 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 3.31 | 0.99 | 3.16 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 20 | 3.31 | 0.57 | 3.1 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 20 | 3.31 | 0.57 | 3.1 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 20 | 3.31 | 0.57 | 3.1 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 20 | 3.31 | 0.57 | 3.1 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 20 | 3.31 | 0.29 | 3.27 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 20 | 3.31 | 0.29 | 3.27 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 20 | 3.31 | 0.29 | 3.27 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 3.31 | 0.21 | 3.3 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 3.31 | 0.21 | 3.3 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 20 | 3.31 | 0.41 | 3.42 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 20 | 3.31 | 0.41 | 3.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 20 | 3.31 | 0.87 | 3.28 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 20 | 3.31 | 0.81 | 3.08 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 20 | 3.31 | 0.87 | 3.28 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 20 | 3.3 | 0.88 | 3.1 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 3.3 | 0.82 | 3.01 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 20 | 3.3 | 0.88 | 3.1 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 20 | 3.3 | 0.61 | 3.06 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 20 | 3.3 | 0.61 | 3.06 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 20 | 3.3 | 0.61 | 3.06 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 20 | 3.3 | 0.61 | 3.06 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 20 | 3.3 | 0.61 | 3.06 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 20 | 3.3 | 0.61 | 3.06 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 3.3 | 0.21 | 3.3 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 3.3 | 0.21 | 3.3 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 3.3 | 0.21 | 3.3 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 20 | 3.3 | 0.32 | 3.33 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 3.3 | 0.21 | 3.3 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 3.3 | 0.21 | 3.3 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 3.3 | 0.21 | 3.3 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 20 | 3.3 | 0.31 | 3.16 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 20 | 3.3 | 0.31 | 3.16 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 20 | 3.3 | 0.44 | 3.06 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 20 | 3.3 | 0.44 | 3.06 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 3.3 | 0.88 | 3.22 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 3.3 | 0.88 | 3.22 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 3.3 | 0.88 | 3.22 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 20 | 3.3 | 0.77 | 3.42 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 20 | 3.3 | 1.02 | 3.21 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 20 | 3.3 | 1.02 | 3.21 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 20 | 3.3 | 1.62 | 3.12 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 20 | 3.3 | 1.05 | 2.49 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 20 | 3.3 | 1.05 | 2.49 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 20 | 3.3 | 0.48 | 3.11 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 20 | 3.3 | 0.17 | 3.28 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 20 | 3.3 | 0.17 | 3.28 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 3.3 | 0.49 | 3.34 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 3.3 | 1.03 | 3.28 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 20 | 3.3 | 0.11 | 3.32 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 20 | 3.3 | 0.11 | 3.32 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 20 | 3.3 | 1.25 | 3.17 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 20 | 3.3 | 0.27 | 3.37 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 20 | 3.3 | 0.32 | 3.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 20 | 3.3 | 0.74 | 3.23 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 3.3 | 0.74 | 3.23 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 20 | 3.3 | 0.32 | 3.42 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 20 | 3.3 | 0.74 | 3.23 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 3.3 | 0.74 | 3.23 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 3.29 | 1.22 | 3.17 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 3.29 | 1.22 | 3.17 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 3.29 | 1.22 | 3.17 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 20 | 3.29 | 0.46 | 3.34 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 20 | 3.29 | 0.46 | 3.34 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 20 | 3.29 | 0.46 | 3.34 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 20 | 3.29 | 0.46 | 3.34 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 20 | 3.29 | 0.46 | 3.34 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 20 | 3.29 | 0.46 | 3.34 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 20 | 3.29 | 0.46 | 3.34 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 20 | 3.29 | 0.46 | 3.34 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 20 | 3.29 | 0.46 | 3.34 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 20 | 3.29 | 0.46 | 3.34 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 20 | 3.29 | 0.46 | 3.34 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 20 | 3.29 | 0.46 | 3.34 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 20 | 3.29 | 0.46 | 3.34 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 20 | 3.29 | 0.46 | 3.34 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 20 | 3.29 | 0.46 | 3.34 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 20 | 3.29 | 0.46 | 3.34 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 20 | 3.29 | 0.46 | 3.34 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 20 | 3.29 | 0.46 | 3.34 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 3.29 | 0.93 | 3.62 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 3.29 | 0.66 | 3.24 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 3.29 | 0.66 | 3.24 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 3.29 | 0.66 | 3.24 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 3.29 | 0.66 | 3.24 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 20 | 3.29 | 0.46 | 3.36 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 20 | 3.29 | 0.46 | 3.36 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 20 | 3.29 | 0.46 | 3.36 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 20 | 3.29 | 0.46 | 3.36 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 20 | 3.29 | 0.46 | 3.36 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 20 | 3.29 | 0.46 | 3.36 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 20 | 3.29 | 0.64 | 3.56 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 20 | 3.29 | 0.64 | 3.56 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 20 | 3.29 | 1.09 | 3.44 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 20 | 3.29 | 1.09 | 3.44 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 20 | 3.29 | 1.09 | 3.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 20 | 3.29 | 1.09 | 3.44 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 20 | 3.29 | 1.09 | 3.44 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 20 | 3.29 | 1.09 | 3.44 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 20 | 3.29 | 1.31 | 2.72 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 3.29 | 0.69 | 3.18 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 20 | 3.29 | 0.45 | 3.45 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 3.29 | 0.63 | 3.35 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 3.29 | 0.63 | 3.35 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 3.28 | 0.95 | 3.59 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 20 | 3.28 | 0.95 | 3.59 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 20 | 3.28 | 0.24 | 3.25 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 20 | 3.28 | 0.76 | 3.55 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 20 | 3.28 | 0.76 | 3.55 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 20 | 3.28 | 1.04 | 3.1 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 20 | 3.28 | 1.04 | 3.1 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 20 | 3.28 | 1.04 | 3.1 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 20 | 3.28 | 1.04 | 3.1 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 20 | 3.28 | 0.7 | 3.31 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 3.28 | 0.39 | 3.6 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 3.28 | 0.39 | 3.6 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 20 | 3.28 | 0.69 | 3.17 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 20 | 3.28 | 0.69 | 3.17 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 20 | 3.28 | 0.69 | 3.17 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 20 | 3.28 | 0.69 | 3.17 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 20 | 3.28 | 0.69 | 3.17 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 20 | 3.28 | 0.69 | 3.17 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 20 | 3.28 | 0.69 | 3.17 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 20 | 3.28 | 0.69 | 3.17 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 20 | 3.28 | 0.69 | 3.17 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 20 | 3.28 | 0.69 | 3.17 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 20 | 3.28 | 0.69 | 3.17 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 20 | 3.28 | 0.69 | 3.17 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 20 | 3.28 | 0.69 | 3.17 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 20 | 3.28 | 0.69 | 3.17 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 20 | 3.28 | 0.69 | 3.17 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 20 | 3.28 | 0.69 | 3.17 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 20 | 3.28 | 0.69 | 3.17 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 20 | 3.28 | 0.69 | 3.17 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 20 | 3.27 | 0.44 | 3.24 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 20 | 3.27 | 0.44 | 3.24 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 20 | 3.27 | 0.44 | 3.24 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 20 | 3.27 | 0.44 | 3.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 20 | 3.27 | 0.32 | 3.42 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 20 | 3.27 | 0.37 | 3.38 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 20 | 3.27 | 0.53 | 3.26 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 20 | 3.27 | 0.53 | 3.26 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 20 | 3.27 | 0.53 | 3.26 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 20 | 3.27 | 0.53 | 3.26 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 3.27 | 1.5 | 3.18 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 3.27 | 1.5 | 3.18 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 3.27 | 1.5 | 3.18 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 20 | 3.27 | 0.44 | 3.2 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 20 | 3.27 | 0.35 | 3.32 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 20 | 3.27 | 0.35 | 3.32 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 20 | 3.27 | 0.35 | 3.32 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 20 | 3.27 | 0.35 | 3.32 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 20 | 3.27 | 0.35 | 3.32 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 20 | 3.27 | 0.35 | 3.32 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 20 | 3.27 | 1.98 | 2.41 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 20 | 3.27 | 0.4 | 3.42 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 20 | 3.27 | 0.4 | 3.42 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 20 | 3.27 | 0.34 | 3.22 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 20 | 3.27 | 0.34 | 3.22 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 20 | 3.27 | 0.25 | 3.23 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 20 | 3.27 | 0.34 | 3.22 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 20 | 3.27 | 0.34 | 3.22 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 3.27 | 0.25 | 3.23 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 20 | 3.26 | 0.52 | 3.22 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 20 | 3.26 | 0.52 | 3.22 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 20 | 3.26 | 0.52 | 3.22 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 20 | 3.26 | 0.52 | 3.22 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 20 | 3.26 | 1.44 | 2.57 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 20 | 3.26 | 1.44 | 2.57 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 20 | 3.26 | 1.44 | 2.57 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 20 | 3.26 | 1.32 | 2.6 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 20 | 3.26 | 1.32 | 2.6 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 20 | 3.26 | 1.32 | 2.6 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 3.26 | 0.52 | 3.16 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 3.26 | 0.52 | 3.16 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 3.26 | 0.52 | 3.16 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 20 | 3.26 | 0.52 | 3.16 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 20 | 3.26 | 0.32 | 3.38 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 20 | 3.26 | 0.82 | 2.96 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 20 | 3.26 | 0.59 | 2.94 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 20 | 3.26 | 0.59 | 2.94 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 20 | 3.26 | 0.59 | 2.94 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 20 | 3.26 | 0.59 | 2.94 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 3.26 | 0.69 | 3.14 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 3.26 | 0.69 | 3.14 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 3.26 | 0.69 | 3.14 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 20 | 3.26 | 0.33 | 3.24 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 20 | 3.26 | 0.24 | 3.14 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 20 | 3.26 | 0.78 | 3.28 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 20 | 3.26 | 0.78 | 3.28 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 20 | 3.26 | 0.29 | 3.37 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 20 | 3.26 | 0.78 | 3.28 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 20 | 3.26 | 0.78 | 3.28 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 20 | 3.26 | 0.65 | 3.36 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 20 | 3.26 | 0.65 | 3.36 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 20 | 3.26 | 0.65 | 3.36 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 20 | 3.26 | 0.65 | 3.36 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 3.26 | 1.61 | 3.26 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 3.26 | 1.61 | 3.26 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 3.26 | 1.61 | 3.26 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 20 | 3.25 | 0.7 | 3.06 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 20 | 3.25 | 1.31 | 2.65 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 20 | 3.25 | 1.31 | 2.65 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 20 | 3.25 | 0.75 | 3.36 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 20 | 3.25 | 0.48 | 3.32 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 20 | 3.25 | 0.48 | 3.32 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 20 | 3.25 | 0.38 | 3.18 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 20 | 3.25 | 0.38 | 3.18 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 20 | 3.25 | 0.64 | 3.25 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 20 | 3.25 | 0.64 | 3.25 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 20 | 3.25 | 0.64 | 3.25 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 20 | 3.25 | 0.64 | 3.25 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 20 | 3.25 | 0.64 | 3.25 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 20 | 3.25 | 0.64 | 3.25 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 3.25 | 0.87 | 3.22 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 3.25 | 1.26 | 2.97 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 3.25 | 1.26 | 2.97 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 3.25 | 1.26 | 2.97 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 20 | 3.25 | 0.87 | 2.69 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 20 | 3.24 | 0.14 | 3.28 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 20 | 3.24 | 0.51 | 3.5 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 20 | 3.24 | 0.51 | 3.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 20 | 3.24 | 0.51 | 3.5 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 20 | 3.24 | 0.34 | 3.22 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 20 | 3.24 | 0.34 | 3.22 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 20 | 3.24 | 0.34 | 3.22 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 3.24 | 0.64 | 3.21 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 3.24 | 0.64 | 3.21 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 3.24 | 1.09 | 2.98 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 3.24 | 1.09 | 2.98 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 3.24 | 1.09 | 2.98 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 3.24 | 1.0 | 3.18 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 3.24 | 1.0 | 3.18 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 3.24 | 1.0 | 3.18 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 20 | 3.24 | 0.17 | 3.24 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 20 | 3.24 | 0.17 | 3.24 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 20 | 3.24 | 0.17 | 3.24 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 20 | 3.24 | 0.17 | 3.24 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 20 | 3.24 | 0.17 | 3.24 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 20 | 3.24 | 0.17 | 3.24 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 20 | 3.24 | 0.25 | 3.22 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 20 | 3.24 | 0.25 | 3.22 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 20 | 3.24 | 0.25 | 3.22 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 20 | 3.24 | 0.25 | 3.22 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 20 | 3.24 | 0.25 | 3.22 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 20 | 3.24 | 0.25 | 3.22 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 20 | 3.24 | 0.15 | 3.26 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 20 | 3.24 | 0.15 | 3.26 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 20 | 3.24 | 0.6 | 3.03 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 20 | 3.24 | 0.6 | 3.03 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 20 | 3.24 | 0.6 | 3.03 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 20 | 3.24 | 0.6 | 3.03 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 3.24 | 0.97 | 3.21 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 3.24 | 0.97 | 3.21 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 3.24 | 0.97 | 3.21 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 3.24 | 0.45 | 3.17 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 20 | 3.24 | 0.2 | 3.22 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 20 | 3.24 | 0.46 | 3.32 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 20 | 3.24 | 0.46 | 3.32 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 20 | 3.24 | 0.46 | 3.32 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 20 | 3.24 | 0.46 | 3.32 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 20 | 3.24 | 0.46 | 3.32 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 20 | 3.24 | 0.46 | 3.32 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 20 | 3.23 | 1.15 | 2.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 20 | 3.23 | 1.15 | 2.84 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 3.23 | 0.76 | 3.08 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 3.23 | 0.96 | 2.9 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 3.23 | 0.96 | 2.9 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 3.23 | 0.96 | 2.9 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 3.23 | 0.96 | 2.9 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 3.23 | 0.28 | 3.22 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 3.23 | 0.28 | 3.22 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 20 | 3.23 | 0.28 | 3.25 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 20 | 3.23 | 0.28 | 3.25 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 20 | 3.23 | 0.28 | 3.25 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 20 | 3.23 | 0.28 | 3.25 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 20 | 3.23 | 0.28 | 3.25 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 20 | 3.23 | 0.28 | 3.25 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 3.23 | 0.76 | 3.02 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 3.23 | 0.76 | 3.02 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 20 | 3.23 | 0.87 | 3.08 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 20 | 3.22 | 0.66 | 3.1 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 20 | 3.22 | 0.66 | 3.1 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 20 | 3.22 | 0.66 | 3.1 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 20 | 3.22 | 0.66 | 3.1 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 20 | 3.22 | 1.06 | 3.36 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 20 | 3.22 | 1.06 | 3.36 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 20 | 3.22 | 1.06 | 3.36 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 20 | 3.22 | 0.6 | 3.2 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 20 | 3.22 | 0.78 | 3.78 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 20 | 3.22 | 0.78 | 3.78 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 20 | 3.22 | 0.78 | 3.78 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 3.22 | 0.75 | 3.54 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 20 | 3.22 | 0.0 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 20 | 3.22 | 0.0 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 20 | 3.22 | 0.0 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 20 | 3.22 | 0.0 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 20 | 3.22 | 0.0 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 20 | 3.22 | 0.0 | 3.22 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 20 | 3.22 | 0.3 | 3.29 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 20 | 3.22 | 0.32 | 3.12 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 20 | 3.22 | 0.47 | 3.46 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 20 | 3.22 | 0.47 | 3.46 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 20 | 3.22 | 0.82 | 3.72 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 20 | 3.22 | 0.82 | 3.72 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 20 | 3.22 | 0.24 | 3.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 20 | 3.21 | 0.4 | 3.13 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 20 | 3.21 | 0.4 | 3.13 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 20 | 3.21 | 0.4 | 3.13 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 20 | 3.21 | 0.4 | 3.13 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 20 | 3.21 | 0.4 | 3.13 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 20 | 3.21 | 0.4 | 3.13 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 20 | 3.21 | 0.4 | 3.13 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 20 | 3.21 | 0.4 | 3.13 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 20 | 3.21 | 0.4 | 3.13 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 20 | 3.21 | 0.32 | 3.16 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 20 | 3.21 | 0.32 | 3.16 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 20 | 3.21 | 0.32 | 3.16 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 20 | 3.21 | 0.4 | 3.13 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 20 | 3.21 | 0.4 | 3.13 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 20 | 3.21 | 0.4 | 3.13 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 20 | 3.21 | 0.4 | 3.13 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 20 | 3.21 | 0.4 | 3.13 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 20 | 3.21 | 0.4 | 3.13 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 20 | 3.21 | 0.4 | 3.13 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 20 | 3.21 | 0.4 | 3.13 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 20 | 3.21 | 0.4 | 3.13 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 20 | 3.21 | 0.32 | 3.16 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 20 | 3.21 | 0.32 | 3.16 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 20 | 3.21 | 0.32 | 3.16 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 20 | 3.21 | 0.19 | 3.17 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 20 | 3.21 | 0.19 | 3.17 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 20 | 3.21 | 0.19 | 3.17 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 3.21 | 1.36 | 3.36 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 20 | 3.21 | 0.85 | 3.53 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 20 | 3.21 | 0.85 | 3.53 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 3.21 | 0.81 | 3.23 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 3.21 | 0.81 | 3.23 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 20 | 3.21 | 0.54 | 3.11 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 20 | 3.21 | 0.54 | 3.11 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 3.21 | 0.81 | 3.23 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 3.21 | 0.81 | 3.23 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 20 | 3.21 | 0.34 | 3.29 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 20 | 3.21 | 0.34 | 3.29 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 20 | 3.2 | 1.11 | 3.22 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 3.2 | 0.3 | 3.11 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 3.2 | 0.3 | 3.11 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 20 | 3.2 | 0.46 | 3.0 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 3.2 | 0.15 | 3.18 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 3.2 | 0.15 | 3.18 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 20 | 3.19 | 0.58 | 3.15 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 20 | 3.19 | 0.58 | 3.15 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 20 | 3.19 | 0.58 | 3.15 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 20 | 3.19 | 0.01 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 20 | 3.19 | 0.01 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 20 | 3.19 | 0.01 | 3.2 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 20 | 3.19 | 0.23 | 3.33 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 20 | 3.19 | 0.23 | 3.33 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 20 | 3.19 | 0.23 | 3.33 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 20 | 3.19 | 0.01 | 3.19 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 20 | 3.19 | 0.01 | 3.19 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 20 | 3.19 | 0.01 | 3.19 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 20 | 3.19 | 0.64 | 3.62 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 20 | 3.19 | 0.64 | 3.62 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 20 | 3.19 | 1.73 | 2.24 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 3.19 | 0.33 | 3.32 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 3.19 | 0.33 | 3.32 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 3.19 | 0.53 | 3.31 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 20 | 3.19 | 0.04 | 3.18 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 20 | 3.19 | 0.49 | 3.54 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 20 | 3.19 | 0.01 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 20 | 3.19 | 0.01 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 20 | 3.19 | 0.01 | 3.19 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 20 | 3.18 | 0.52 | 3.53 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 20 | 3.18 | 0.52 | 3.53 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 20 | 3.18 | 0.31 | 3.39 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 20 | 3.18 | 0.94 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 20 | 3.18 | 0.94 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 20 | 3.18 | 0.94 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 20 | 3.18 | 0.94 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 20 | 3.18 | 0.94 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 20 | 3.18 | 0.94 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 20 | 3.18 | 0.94 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 20 | 3.18 | 0.94 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 20 | 3.18 | 0.94 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 20 | 3.18 | 0.94 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 20 | 3.18 | 0.94 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 20 | 3.18 | 0.94 | 2.97 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 20 | 3.18 | 0.64 | 2.93 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 20 | 3.18 | 0.64 | 2.93 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 20 | 3.18 | 0.64 | 2.93 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 20 | 3.18 | 0.64 | 2.93 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 20 | 3.18 | 0.91 | 3.18 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 3.18 | 0.49 | 3.26 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 3.18 | 0.55 | 3.24 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 3.18 | 0.55 | 3.24 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 3.18 | 0.55 | 3.24 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 20 | 3.18 | 0.55 | 3.24 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 20 | 3.18 | 0.55 | 3.24 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 20 | 3.18 | 0.55 | 3.24 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 20 | 3.18 | 0.44 | 3.35 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 20 | 3.18 | 0.44 | 3.35 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 20 | 3.18 | 0.44 | 3.35 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 20 | 3.18 | 1.54 | 2.9 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 20 | 3.18 | 0.41 | 3.04 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 20 | 3.18 | 0.46 | 3.28 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 20 | 3.18 | 0.46 | 3.28 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 20 | 3.18 | 0.46 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 20 | 3.18 | 0.46 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 20 | 3.18 | 0.46 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 20 | 3.18 | 0.46 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 20 | 3.18 | 0.46 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 20 | 3.18 | 0.46 | 3.05 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 20 | 3.18 | 0.94 | 3.76 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 20 | 3.17 | 0.6 | 3.52 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 20 | 3.17 | 0.6 | 3.52 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 3.17 | 0.86 | 3.07 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 3.17 | 0.86 | 3.07 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 20 | 3.17 | 0.23 | 3.18 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 20 | 3.17 | 0.23 | 3.18 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 20 | 3.17 | 0.23 | 3.18 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 20 | 3.17 | 0.23 | 3.18 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 20 | 3.17 | 0.23 | 3.18 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 20 | 3.17 | 0.23 | 3.18 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 3.17 | 0.47 | 3.3 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 3.17 | 0.75 | 3.51 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 3.17 | 0.75 | 3.51 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 3.17 | 0.8 | 3.67 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 20 | 3.17 | 0.43 | 3.06 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 20 | 3.17 | 0.43 | 3.06 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 20 | 3.17 | 0.43 | 3.06 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 20 | 3.17 | 0.43 | 3.06 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 20 | 3.16 | 0.84 | 2.83 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 3.16 | 0.31 | 3.16 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 20 | 3.16 | 1.82 | 2.06 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 20 | 3.16 | 1.82 | 2.06 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 20 | 3.16 | 1.82 | 2.06 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 20 | 3.16 | 0.86 | 2.93 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 3.16 | 0.6 | 3.18 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 3.16 | 0.6 | 3.18 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 3.16 | 0.6 | 3.18 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 3.16 | 0.6 | 3.18 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 3.16 | 0.6 | 3.18 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 3.16 | 0.6 | 3.18 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 20 | 3.16 | 0.51 | 2.9 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 20 | 3.16 | 0.51 | 2.9 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 20 | 3.16 | 0.46 | 3.15 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 20 | 3.16 | 0.46 | 3.15 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 20 | 3.16 | 0.46 | 3.15 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 20 | 3.16 | 0.46 | 3.15 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 20 | 3.16 | 0.46 | 3.15 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 20 | 3.16 | 0.46 | 3.15 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 20 | 3.16 | 1.51 | 2.38 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 20 | 3.16 | 1.51 | 2.38 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 20 | 3.16 | 1.51 | 2.38 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 20 | 3.16 | 0.6 | 3.14 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 20 | 3.16 | 0.6 | 3.14 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 20 | 3.16 | 0.6 | 3.14 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 20 | 3.16 | 0.6 | 3.14 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 20 | 3.16 | 0.31 | 3.06 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 3.15 | 1.14 | 2.96 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 3.15 | 1.14 | 2.96 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 3.15 | 1.14 | 2.96 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 3.15 | 1.14 | 2.96 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 3.15 | 1.0 | 3.01 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 20 | 3.15 | 0.25 | 3.11 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 20 | 3.15 | 0.49 | 3.09 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 20 | 3.15 | 0.49 | 3.09 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 20 | 3.15 | 0.49 | 3.09 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 20 | 3.15 | 0.49 | 3.09 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 20 | 3.15 | 0.49 | 3.09 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 20 | 3.15 | 0.49 | 3.09 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 3.15 | 0.46 | 3.06 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 3.15 | 0.46 | 3.06 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 3.15 | 0.46 | 3.06 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 3.15 | 0.46 | 3.06 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 3.15 | 0.46 | 3.06 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 3.15 | 0.46 | 3.06 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 3.15 | 0.46 | 3.06 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 3.15 | 0.46 | 3.06 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 3.15 | 0.46 | 3.06 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 3.15 | 0.46 | 3.06 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 3.15 | 0.46 | 3.06 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 3.15 | 0.46 | 3.06 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 20 | 3.15 | 0.34 | 3.15 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 3.15 | 0.56 | 2.84 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 3.15 | 0.56 | 2.84 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 3.15 | 0.56 | 2.84 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 3.15 | 0.56 | 2.84 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 20 | 3.15 | 0.24 | 3.2 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 20 | 3.15 | 0.24 | 3.2 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 20 | 3.15 | 0.4 | 3.26 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 20 | 3.15 | 1.51 | 2.63 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 20 | 3.15 | 1.51 | 2.63 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 20 | 3.15 | 1.51 | 2.63 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 20 | 3.14 | 0.65 | 3.44 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 20 | 3.14 | 0.65 | 3.44 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 20 | 3.14 | 0.65 | 3.44 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 20 | 3.14 | 0.65 | 3.44 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 20 | 3.14 | 0.7 | 3.17 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 20 | 3.14 | 0.7 | 3.17 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 20 | 3.14 | 0.7 | 3.17 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 3.14 | 0.7 | 3.18 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 3.14 | 0.7 | 3.18 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 3.14 | 0.7 | 3.18 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 3.14 | 0.7 | 3.18 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 20 | 3.14 | 0.09 | 3.14 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 20 | 3.14 | 0.36 | 3.09 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 20 | 3.14 | 0.36 | 3.09 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 20 | 3.14 | 0.36 | 3.09 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 20 | 3.14 | 0.36 | 3.09 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 20 | 3.14 | 0.36 | 3.09 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 20 | 3.14 | 0.36 | 3.09 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 20 | 3.14 | 0.48 | 3.08 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 20 | 3.14 | 0.48 | 3.08 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 20 | 3.14 | 0.34 | 3.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 20 | 3.14 | 0.34 | 3.21 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 20 | 3.14 | 0.34 | 3.21 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 20 | 3.14 | 0.34 | 3.21 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 3.14 | 1.24 | 3.16 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 3.14 | 1.24 | 3.16 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 3.14 | 1.24 | 3.16 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 20 | 3.14 | 1.31 | 2.74 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 20 | 3.14 | 1.31 | 2.74 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 20 | 3.14 | 1.31 | 2.74 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 20 | 3.14 | 1.31 | 2.74 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 20 | 3.14 | 1.31 | 2.74 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 20 | 3.14 | 1.31 | 2.74 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 20 | 3.14 | 1.31 | 2.74 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 20 | 3.14 | 1.31 | 2.74 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 20 | 3.14 | 1.31 | 2.74 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 3.14 | 1.21 | 2.72 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 20 | 3.14 | 1.19 | 2.47 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 20 | 3.14 | 0.48 | 3.32 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 20 | 3.14 | 0.71 | 2.98 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 3.14 | 0.54 | 3.02 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 3.14 | 0.54 | 3.02 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 3.14 | 0.54 | 3.02 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 20 | 3.14 | 0.55 | 2.96 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 20 | 3.14 | 0.55 | 2.96 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 20 | 3.13 | 0.61 | 3.1 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 20 | 3.13 | 0.61 | 3.1 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 20 | 3.13 | 1.33 | 2.64 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 20 | 3.13 | 1.33 | 2.64 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 20 | 3.13 | 1.18 | 2.74 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 20 | 3.13 | 1.18 | 2.74 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 20 | 3.13 | 1.18 | 2.74 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 20 | 3.13 | 1.18 | 2.74 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 20 | 3.13 | 1.18 | 2.74 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 20 | 3.13 | 1.18 | 2.74 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 20 | 3.13 | 0.44 | 3.0 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 20 | 3.13 | 0.36 | 3.14 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 20 | 3.13 | 0.36 | 3.14 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 3.13 | 0.79 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 3.13 | 0.79 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 3.13 | 0.79 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 3.13 | 0.79 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 3.13 | 0.79 | 3.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 3.13 | 0.79 | 3.21 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 3.13 | 0.86 | 2.68 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 3.13 | 0.86 | 2.68 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 3.13 | 0.86 | 2.68 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 3.13 | 0.86 | 2.68 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 3.13 | 0.86 | 2.68 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 3.13 | 0.86 | 2.68 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 20 | 3.13 | 0.17 | 3.07 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 20 | 3.13 | 0.17 | 3.07 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 20 | 3.13 | 0.27 | 3.13 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 20 | 3.13 | 0.27 | 3.13 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 20 | 3.13 | 0.39 | 2.92 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 20 | 3.13 | 0.39 | 2.92 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 20 | 3.13 | 0.39 | 3.06 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 3.13 | 1.04 | 3.28 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 20 | 3.12 | 1.58 | 2.1 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 20 | 3.12 | 1.58 | 2.1 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 20 | 3.12 | 1.58 | 2.1 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 3.12 | 0.77 | 3.15 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 3.12 | 0.77 | 3.15 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 3.12 | 0.77 | 3.15 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 3.12 | 0.77 | 3.15 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 20 | 3.12 | 0.31 | 3.0 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 20 | 3.12 | 0.31 | 3.0 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 20 | 3.12 | 0.21 | 3.04 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 20 | 3.12 | 0.21 | 3.04 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 20 | 3.12 | 0.31 | 3.0 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 20 | 3.12 | 0.31 | 3.0 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 20 | 3.12 | 0.21 | 3.04 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 20 | 3.12 | 0.21 | 3.04 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 3.12 | 0.66 | 3.29 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 3.12 | 0.66 | 3.29 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 20 | 3.12 | 0.33 | 3.0 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 3.12 | 0.61 | 3.09 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 20 | 3.12 | 1.12 | 2.62 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 20 | 3.12 | 1.12 | 2.62 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 20 | 3.12 | 1.12 | 2.62 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 20 | 3.12 | 1.12 | 2.62 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 20 | 3.12 | 1.12 | 2.62 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 20 | 3.12 | 1.12 | 2.62 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 20 | 3.12 | 1.12 | 2.62 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 20 | 3.12 | 1.12 | 2.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 20 | 3.12 | 1.12 | 2.62 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 20 | 3.12 | 0.58 | 2.95 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 20 | 3.12 | 0.58 | 2.95 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 20 | 3.12 | 0.16 | 3.14 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 20 | 3.12 | 0.83 | 2.9 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 20 | 3.12 | 0.83 | 2.9 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 3.12 | 0.61 | 3.4 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 3.12 | 0.61 | 3.4 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 3.12 | 0.61 | 3.4 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 3.12 | 0.61 | 3.4 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 20 | 3.12 | 0.41 | 3.14 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 20 | 3.12 | 0.41 | 3.14 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 20 | 3.12 | 0.41 | 3.14 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 20 | 3.12 | 0.41 | 3.14 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 20 | 3.11 | 0.76 | 2.98 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 20 | 3.11 | 0.76 | 2.98 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 20 | 3.11 | 0.76 | 2.98 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 20 | 3.11 | 0.76 | 2.98 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 20 | 3.11 | 0.76 | 2.98 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 20 | 3.11 | 0.76 | 2.98 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 20 | 3.11 | 0.8 | 3.22 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 20 | 3.11 | 0.8 | 3.22 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 20 | 3.11 | 0.8 | 3.22 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 20 | 3.11 | 0.8 | 3.22 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 20 | 3.11 | 0.8 | 3.22 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 20 | 3.11 | 0.8 | 3.22 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 20 | 3.11 | 0.8 | 3.22 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 20 | 3.11 | 0.8 | 3.22 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 20 | 3.11 | 0.8 | 3.22 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 3.11 | 0.29 | 3.06 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 3.11 | 0.29 | 3.06 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 3.11 | 0.29 | 3.06 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 20 | 3.11 | 0.11 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 20 | 3.11 | 0.11 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 20 | 3.11 | 0.11 | 3.19 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 3.11 | 1.3 | 3.26 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 3.11 | 1.3 | 3.26 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 3.11 | 1.3 | 3.26 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 20 | 3.11 | 0.53 | 3.24 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 20 | 3.11 | 0.53 | 3.24 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 20 | 3.11 | 0.53 | 3.24 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 20 | 3.11 | 1.43 | 2.67 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 20 | 3.11 | 0.24 | 3.11 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 20 | 3.11 | 0.4 | 3.12 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 20 | 3.11 | 1.0 | 2.41 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 20 | 3.11 | 1.0 | 2.41 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 20 | 3.11 | 0.71 | 2.64 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 20 | 3.11 | 0.71 | 2.64 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 20 | 3.11 | 0.87 | 2.88 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 20 | 3.11 | 0.87 | 2.88 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 20 | 3.11 | 0.87 | 2.88 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 20 | 3.1 | 0.27 | 3.0 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 20 | 3.1 | 0.27 | 3.0 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 20 | 3.1 | 0.37 | 3.0 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 20 | 3.1 | 0.37 | 3.0 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 20 | 3.1 | 0.54 | 3.08 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 20 | 3.1 | 0.65 | 2.99 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 20 | 3.1 | 0.65 | 2.99 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 20 | 3.1 | 0.65 | 2.99 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 20 | 3.1 | 0.65 | 2.99 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 20 | 3.1 | 0.65 | 2.99 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 20 | 3.1 | 0.65 | 2.99 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 20 | 3.1 | 0.65 | 2.99 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 20 | 3.1 | 0.65 | 2.99 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 20 | 3.1 | 0.65 | 2.99 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 20 | 3.1 | 0.52 | 3.04 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 20 | 3.1 | 0.52 | 3.04 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 3.1 | 0.37 | 3.04 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 3.1 | 0.37 | 3.04 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 3.1 | 0.07 | 3.13 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 3.1 | 0.06 | 3.12 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 20 | 3.1 | 1.09 | 2.6 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 20 | 3.1 | 1.09 | 2.6 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 20 | 3.1 | 1.09 | 2.6 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 20 | 3.1 | 0.6 | 2.76 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 20 | 3.1 | 0.6 | 2.76 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 20 | 3.1 | 0.6 | 2.76 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 20 | 3.1 | 0.6 | 2.76 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 20 | 3.1 | 0.6 | 2.76 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 20 | 3.1 | 0.6 | 2.76 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 3.1 | 0.72 | 3.12 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 20 | 3.09 | 0.43 | 2.92 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 20 | 3.09 | 0.43 | 2.92 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 20 | 3.09 | 1.53 | 2.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 20 | 3.09 | 0.44 | 2.89 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 20 | 3.09 | 0.63 | 2.76 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 20 | 3.09 | 0.63 | 2.76 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 20 | 3.09 | 0.63 | 2.76 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 20 | 3.09 | 0.64 | 3.1 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 20 | 3.09 | 0.64 | 3.1 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 20 | 3.09 | 0.88 | 3.0 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 3.09 | 0.88 | 3.0 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 20 | 3.09 | 0.5 | 3.13 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 20 | 3.09 | 0.5 | 3.13 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 20 | 3.09 | 0.5 | 3.13 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 20 | 3.09 | 0.5 | 3.13 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 20 | 3.09 | 0.5 | 3.13 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 20 | 3.09 | 0.5 | 3.13 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 20 | 3.09 | 0.5 | 3.13 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 20 | 3.09 | 0.5 | 3.13 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 20 | 3.09 | 0.5 | 3.13 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 20 | 3.09 | 0.67 | 3.5 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 3.08 | 0.66 | 3.07 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 3.08 | 0.66 | 3.07 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 20 | 3.08 | 0.66 | 2.85 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 20 | 3.08 | 0.66 | 2.85 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 20 | 3.08 | 1.05 | 2.54 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 20 | 3.08 | 1.05 | 2.54 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 20 | 3.08 | 1.05 | 2.54 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 20 | 3.08 | 0.36 | 2.97 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 20 | 3.08 | 0.36 | 2.97 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 20 | 3.08 | 0.52 | 3.4 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 20 | 3.08 | 0.52 | 3.4 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 20 | 3.08 | 0.52 | 3.4 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 20 | 3.08 | 0.52 | 3.4 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 20 | 3.08 | 0.52 | 3.4 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 20 | 3.08 | 0.52 | 3.4 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 3.08 | 0.45 | 2.93 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 20 | 3.08 | 0.45 | 2.93 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 20 | 3.08 | 0.5 | 3.26 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 20 | 3.08 | 0.32 | 2.94 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 20 | 3.08 | 0.32 | 2.94 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 20 | 3.08 | 0.4 | 3.18 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 3.08 | 0.4 | 3.18 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 20 | 3.08 | 0.4 | 3.18 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 3.08 | 0.4 | 3.18 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 20 | 3.08 | 0.52 | 2.96 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 20 | 3.08 | 0.52 | 2.96 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 20 | 3.08 | 0.52 | 2.96 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 20 | 3.08 | 0.52 | 2.96 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 3.08 | 0.99 | 3.08 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 3.08 | 0.59 | 2.97 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 20 | 3.07 | 0.49 | 3.03 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 20 | 3.07 | 0.49 | 3.03 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 20 | 3.07 | 0.49 | 3.03 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 20 | 3.07 | 0.49 | 3.03 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 20 | 3.07 | 0.49 | 3.03 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 20 | 3.07 | 0.49 | 3.03 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 20 | 3.07 | 0.57 | 2.97 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 20 | 3.07 | 0.57 | 2.97 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 20 | 3.07 | 0.57 | 2.97 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 3.07 | 0.24 | 3.18 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 3.07 | 0.24 | 3.18 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 20 | 3.07 | 0.46 | 3.08 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 20 | 3.07 | 1.07 | 2.64 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 20 | 3.07 | 0.36 | 2.97 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 20 | 3.07 | 0.36 | 2.97 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 20 | 3.07 | 0.36 | 2.97 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 20 | 3.07 | 0.36 | 2.97 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 20 | 3.07 | 0.36 | 2.97 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 20 | 3.07 | 0.36 | 2.97 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 3.07 | 0.44 | 3.06 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 20 | 3.07 | 0.44 | 3.06 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 20 | 3.07 | 1.71 | 2.13 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 3.07 | 0.44 | 3.06 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 20 | 3.07 | 0.44 | 3.06 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 20 | 3.07 | 0.46 | 3.12 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 20 | 3.07 | 0.22 | 3.04 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 20 | 3.07 | 0.22 | 3.04 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 3.06 | 1.02 | 2.93 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 3.06 | 0.87 | 2.9 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 3.06 | 0.87 | 2.9 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 20 | 3.06 | 0.51 | 3.16 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 20 | 3.06 | 0.26 | 3.12 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 3.06 | 0.95 | 3.1 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 3.06 | 0.95 | 3.1 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 20 | 3.06 | 0.27 | 3.05 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 20 | 3.06 | 0.27 | 3.05 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 20 | 3.06 | 0.77 | 3.12 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 20 | 3.06 | 0.77 | 3.12 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 20 | 3.06 | 0.77 | 3.12 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 20 | 3.06 | 0.33 | 3.16 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 20 | 3.06 | 0.33 | 3.16 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 20 | 3.05 | 0.91 | 2.76 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 3.05 | 0.91 | 2.76 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 20 | 3.05 | 0.45 | 3.04 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 3.05 | 0.81 | 3.35 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 3.05 | 1.02 | 2.81 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 20 | 3.05 | 0.9 | 3.2 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 20 | 3.05 | 0.9 | 3.2 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 20 | 3.05 | 0.9 | 3.2 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 20 | 3.05 | 0.9 | 3.2 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 20 | 3.05 | 0.9 | 3.2 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 20 | 3.05 | 0.9 | 3.2 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 20 | 3.05 | 0.45 | 2.75 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 20 | 3.05 | 0.45 | 2.75 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 20 | 3.05 | 0.45 | 2.75 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 20 | 3.05 | 0.45 | 2.75 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 20 | 3.05 | 0.27 | 3.0 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 20 | 3.05 | 0.15 | 3.06 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 20 | 3.05 | 0.15 | 3.06 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 3.05 | 0.46 | 3.05 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 20 | 3.05 | 0.43 | 3.0 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 20 | 3.05 | 0.43 | 3.0 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 20 | 3.05 | 0.43 | 3.0 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 20 | 3.05 | 0.43 | 3.0 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 20 | 3.05 | 0.43 | 3.0 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 20 | 3.05 | 0.43 | 3.0 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 20 | 3.05 | 0.36 | 3.04 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 20 | 3.05 | 1.9 | 2.42 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 3.05 | 0.52 | 3.0 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 3.05 | 0.52 | 3.0 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 20 | 3.05 | 0.36 | 3.04 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 3.05 | 0.52 | 3.0 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 3.05 | 0.52 | 3.0 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 3.05 | 0.72 | 2.9 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 3.05 | 0.72 | 2.9 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 3.05 | 0.72 | 2.9 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 20 | 3.05 | 0.62 | 3.21 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 20 | 3.05 | 0.62 | 3.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 20 | 3.05 | 0.74 | 2.72 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 20 | 3.05 | 0.74 | 2.72 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 20 | 3.05 | 0.74 | 2.72 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 3.04 | 0.64 | 2.88 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 3.04 | 0.64 | 2.88 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 3.04 | 0.64 | 2.88 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 3.04 | 0.64 | 2.88 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 3.04 | 0.64 | 2.88 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 3.04 | 0.64 | 2.88 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 3.04 | 0.64 | 2.88 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 3.04 | 0.64 | 2.88 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 3.04 | 0.64 | 2.88 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 3.04 | 0.64 | 2.88 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 3.04 | 0.64 | 2.88 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 3.04 | 0.64 | 2.88 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 20 | 3.04 | 0.39 | 3.14 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 3.04 | 0.27 | 3.04 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 3.04 | 0.27 | 3.04 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 20 | 3.04 | 0.39 | 3.14 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 3.04 | 0.27 | 3.04 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 3.04 | 0.27 | 3.04 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 20 | 3.04 | 0.91 | 2.72 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 20 | 3.04 | 0.91 | 2.72 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 20 | 3.04 | 0.5 | 2.8 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 20 | 3.04 | 0.5 | 2.8 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 20 | 3.04 | 0.5 | 2.8 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 20 | 3.04 | 0.5 | 2.8 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 20 | 3.04 | 0.5 | 2.8 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 20 | 3.04 | 0.5 | 2.8 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 20 | 3.04 | 0.5 | 2.8 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 20 | 3.04 | 0.5 | 2.8 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 20 | 3.04 | 0.5 | 2.8 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 20 | 3.04 | 0.5 | 2.8 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 20 | 3.04 | 0.5 | 2.8 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 20 | 3.04 | 0.5 | 2.8 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 20 | 3.04 | 0.5 | 2.8 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 20 | 3.04 | 0.5 | 2.8 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 20 | 3.04 | 0.5 | 2.8 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 20 | 3.04 | 0.5 | 2.8 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 20 | 3.04 | 0.5 | 2.8 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 20 | 3.04 | 0.5 | 2.8 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 3.04 | 0.51 | 2.97 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 20 | 3.04 | 0.51 | 2.97 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 3.04 | 0.51 | 2.97 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 20 | 3.04 | 0.51 | 2.97 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 3.04 | 0.51 | 2.97 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 20 | 3.04 | 0.51 | 2.97 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 3.04 | 0.51 | 2.97 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 20 | 3.04 | 0.51 | 2.97 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 3.04 | 0.51 | 2.97 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 20 | 3.04 | 0.51 | 2.97 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 3.04 | 0.51 | 2.97 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 20 | 3.04 | 0.51 | 2.97 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 20 | 3.04 | 0.33 | 3.07 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 20 | 3.04 | 0.33 | 3.07 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 20 | 3.04 | 1.12 | 2.37 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 20 | 3.04 | 1.12 | 2.37 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 20 | 3.04 | 0.88 | 2.84 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 20 | 3.04 | 0.88 | 2.84 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 20 | 3.04 | 0.98 | 2.99 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 20 | 3.04 | 0.98 | 2.99 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 20 | 3.04 | 0.98 | 2.99 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 20 | 3.04 | 0.98 | 2.99 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 20 | 3.04 | 0.98 | 2.99 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 20 | 3.04 | 0.98 | 2.99 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 20 | 3.04 | 0.53 | 2.84 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 20 | 3.04 | 0.6 | 3.04 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 20 | 3.04 | 0.6 | 3.04 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 20 | 3.03 | 1.34 | 2.92 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 20 | 3.03 | 1.72 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 20 | 3.03 | 0.75 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 20 | 3.03 | 0.75 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 20 | 3.03 | 0.75 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 20 | 3.03 | 0.75 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 20 | 3.03 | 0.75 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 20 | 3.03 | 0.75 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 20 | 3.03 | 0.75 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 20 | 3.03 | 0.75 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 20 | 3.03 | 0.75 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 20 | 3.03 | 0.75 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 20 | 3.03 | 0.75 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 20 | 3.03 | 0.75 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 20 | 3.03 | 0.75 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 20 | 3.03 | 0.75 | 2.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 20 | 3.03 | 0.75 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 20 | 3.03 | 0.75 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 20 | 3.03 | 0.75 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 20 | 3.03 | 0.75 | 2.68 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 3.03 | 0.46 | 3.14 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 20 | 3.03 | 0.82 | 2.66 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 20 | 3.03 | 0.82 | 2.66 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 20 | 3.03 | 0.82 | 2.66 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 20 | 3.03 | 0.82 | 2.66 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 20 | 3.03 | 0.12 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 20 | 3.03 | 0.12 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 20 | 3.03 | 0.12 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 20 | 3.03 | 0.12 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 20 | 3.03 | 0.12 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 20 | 3.03 | 0.12 | 3.01 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 20 | 3.03 | 0.87 | 2.8 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 20 | 3.03 | 0.87 | 2.8 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 20 | 3.03 | 0.87 | 2.8 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 20 | 3.03 | 0.87 | 2.8 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 20 | 3.03 | 0.87 | 2.8 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 20 | 3.03 | 0.87 | 2.8 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 20 | 3.02 | 0.8 | 2.78 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 20 | 3.02 | 0.8 | 2.78 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 20 | 3.02 | 0.7 | 2.74 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 20 | 3.02 | 0.38 | 2.91 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 20 | 3.02 | 0.38 | 2.91 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 20 | 3.02 | 0.38 | 2.91 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 20 | 3.02 | 0.28 | 3.0 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 20 | 3.02 | 0.28 | 3.0 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 20 | 3.02 | 0.38 | 2.91 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 20 | 3.02 | 0.38 | 2.91 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 20 | 3.02 | 0.38 | 2.91 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 20 | 3.02 | 0.28 | 3.0 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 20 | 3.02 | 0.28 | 3.0 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 20 | 3.02 | 0.39 | 2.92 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 20 | 3.02 | 0.39 | 2.92 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 3.02 | 1.26 | 3.0 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 3.02 | 1.26 | 3.0 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 20 | 3.02 | 0.78 | 3.04 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 20 | 3.02 | 0.78 | 3.04 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 20 | 3.02 | 0.5 | 2.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 3.02 | 0.5 | 2.84 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 3.02 | 0.5 | 2.84 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 20 | 3.02 | 0.36 | 2.97 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 20 | 3.02 | 0.36 | 2.97 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 20 | 3.02 | 0.36 | 2.97 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 20 | 3.02 | 0.36 | 2.97 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 3.02 | 0.96 | 2.59 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 3.02 | 0.96 | 2.59 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 3.02 | 0.96 | 2.59 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 3.02 | 0.96 | 2.59 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 3.02 | 0.96 | 2.59 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 3.02 | 0.96 | 2.59 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 3.02 | 0.96 | 2.59 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 3.02 | 0.96 | 2.59 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 3.02 | 0.96 | 2.59 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 3.02 | 0.96 | 2.59 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 3.02 | 0.96 | 2.59 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 3.02 | 0.96 | 2.59 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 3.02 | 1.39 | 2.99 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 3.02 | 1.39 | 2.99 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 3.02 | 1.39 | 2.99 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 20 | 3.02 | 0.51 | 2.94 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 20 | 3.02 | 0.51 | 2.94 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 20 | 3.02 | 0.0 | 3.02 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 20 | 3.01 | 0.17 | 3.03 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 3.01 | 0.17 | 3.03 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 20 | 3.01 | 1.23 | 2.73 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 20 | 3.01 | 1.23 | 2.73 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 20 | 3.01 | 1.23 | 2.73 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 20 | 3.01 | 1.23 | 2.73 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 20 | 3.01 | 1.23 | 2.73 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 20 | 3.01 | 1.23 | 2.73 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 20 | 3.01 | 1.23 | 2.73 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 20 | 3.01 | 1.23 | 2.73 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 20 | 3.01 | 1.23 | 2.73 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 20 | 3.01 | 0.17 | 3.03 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 3.01 | 0.17 | 3.03 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 20 | 3.01 | 0.19 | 2.96 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 20 | 3.01 | 0.19 | 2.96 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 20 | 3.01 | 0.19 | 2.96 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 20 | 3.01 | 0.19 | 2.96 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 20 | 3.01 | 0.32 | 3.0 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 20 | 3.01 | 0.97 | 2.94 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 20 | 3.01 | 0.97 | 2.94 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 20 | 3.01 | 0.97 | 2.94 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 3.01 | 0.19 | 3.01 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 20 | 3.01 | 0.61 | 3.16 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 20 | 3.01 | 0.61 | 3.16 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 20 | 3.01 | 0.61 | 3.16 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 20 | 3.01 | 0.41 | 2.74 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 20 | 3.01 | 0.38 | 3.16 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 20 | 3.01 | 0.38 | 3.16 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 20 | 3.01 | 0.38 | 3.16 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 20 | 3.01 | 0.38 | 3.16 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 20 | 3.01 | 0.01 | 3.01 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 3.01 | 0.59 | 2.83 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 3.01 | 0.59 | 2.83 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 3.01 | 0.59 | 2.83 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 20 | 3.01 | 0.91 | 2.96 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 3.01 | 0.91 | 2.96 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 20 | 3.01 | 0.18 | 2.97 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 20 | 3.01 | 0.25 | 2.9 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 20 | 3.01 | 0.25 | 2.9 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 20 | 3.01 | 0.25 | 2.9 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 20 | 3.01 | 0.18 | 2.97 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 3.01 | 0.47 | 2.98 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 20 | 3.01 | 0.02 | 3.01 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 20 | 3.0 | 0.58 | 2.99 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 20 | 3.0 | 0.58 | 2.99 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 3.0 | 0.29 | 2.98 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 3.0 | 0.29 | 2.98 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 3.0 | 0.29 | 2.98 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 3.0 | 0.29 | 2.98 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 3.0 | 0.29 | 2.98 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 3.0 | 0.29 | 2.98 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 3.0 | 0.29 | 2.98 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 3.0 | 0.29 | 2.98 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 3.0 | 0.29 | 2.98 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 3.0 | 0.29 | 2.98 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 3.0 | 0.29 | 2.98 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 3.0 | 0.29 | 2.98 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 20 | 3.0 | 0.27 | 3.03 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 20 | 3.0 | 0.27 | 3.03 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 20 | 3.0 | 0.27 | 3.03 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 20 | 3.0 | 0.27 | 3.03 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 20 | 3.0 | 0.27 | 3.03 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 20 | 3.0 | 0.27 | 3.03 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 3.0 | 0.31 | 2.99 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 20 | 3.0 | 0.31 | 2.99 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 3.0 | 0.31 | 2.99 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 20 | 3.0 | 0.31 | 2.99 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 20 | 3.0 | 0.49 | 2.79 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 20 | 3.0 | 0.49 | 2.79 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 3.0 | 1.12 | 2.6 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 20 | 3.0 | 1.12 | 2.6 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 3.0 | 1.12 | 2.6 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 20 | 3.0 | 1.12 | 2.6 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 20 | 3.0 | 0.51 | 2.75 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 20 | 3.0 | 0.36 | 3.18 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 20 | 3.0 | 0.36 | 3.18 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 20 | 3.0 | 0.91 | 2.64 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 20 | 3.0 | 0.38 | 2.85 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 3.0 | 0.44 | 2.99 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 3.0 | 0.44 | 2.99 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 3.0 | 0.44 | 2.99 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 3.0 | 0.44 | 2.99 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 2.99 | 1.56 | 3.34 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 2.99 | 1.56 | 3.34 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 2.99 | 1.56 | 3.34 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 2.99 | 0.88 | 2.89 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 20 | 2.99 | 0.02 | 2.99 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 20 | 2.99 | 0.62 | 2.78 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 20 | 2.99 | 0.62 | 2.78 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 20 | 2.99 | 0.63 | 3.25 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 20 | 2.99 | 0.63 | 3.25 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 20 | 2.99 | 0.42 | 2.98 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 20 | 2.99 | 0.32 | 3.0 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 20 | 2.99 | 0.43 | 2.96 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 20 | 2.99 | 0.43 | 2.96 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 20 | 2.99 | 0.43 | 2.96 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 20 | 2.99 | 0.43 | 2.96 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 20 | 2.99 | 0.39 | 3.02 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 20 | 2.99 | 0.39 | 3.02 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 20 | 2.99 | 0.39 | 3.02 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 20 | 2.99 | 0.39 | 3.02 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 20 | 2.99 | 0.39 | 3.02 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 20 | 2.99 | 0.39 | 3.02 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 20 | 2.99 | 0.0 | 2.99 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 2.98 | 0.13 | 2.93 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 2.98 | 0.13 | 2.93 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 20 | 2.98 | 0.2 | 3.1 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 20 | 2.98 | 0.2 | 3.1 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 20 | 2.98 | 0.2 | 3.1 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 20 | 2.98 | 0.04 | 2.99 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 20 | 2.98 | 0.55 | 2.79 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 20 | 2.98 | 0.55 | 2.79 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 20 | 2.98 | 0.55 | 2.79 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 20 | 2.98 | 0.55 | 2.79 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 2.98 | 0.78 | 3.26 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 2.98 | 0.78 | 3.26 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 20 | 2.98 | 0.42 | 2.81 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 2.98 | 0.81 | 2.76 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 2.98 | 0.81 | 2.76 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 2.98 | 0.81 | 2.76 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 2.98 | 0.81 | 2.76 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 20 | 2.97 | 0.02 | 2.98 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 2.97 | 1.08 | 3.36 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 2.97 | 1.08 | 3.36 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 2.97 | 1.08 | 3.36 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 20 | 2.97 | 0.67 | 2.97 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 20 | 2.97 | 2.29 | 1.54 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 2.97 | 0.85 | 3.04 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 20 | 2.97 | 0.27 | 3.03 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 2.97 | 1.22 | 2.88 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 20 | 2.97 | 1.22 | 2.88 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 2.97 | 0.85 | 3.04 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 20 | 2.97 | 0.27 | 3.03 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 20 | 2.97 | 0.09 | 3.0 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 2.97 | 0.55 | 2.88 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 2.97 | 0.55 | 2.88 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 2.97 | 0.55 | 2.88 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 2.97 | 0.55 | 2.88 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 20 | 2.96 | 0.54 | 2.76 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 2.96 | 0.72 | 2.92 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 2.96 | 0.72 | 2.92 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 2.96 | 0.72 | 2.92 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 2.96 | 0.72 | 2.92 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 2.96 | 0.72 | 2.92 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 2.96 | 0.72 | 2.92 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 2.96 | 1.02 | 3.03 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 20 | 2.96 | 1.0 | 2.98 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 20 | 2.96 | 1.0 | 2.98 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 20 | 2.96 | 1.0 | 2.98 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 20 | 2.96 | 1.0 | 2.98 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 20 | 2.96 | 1.0 | 2.98 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 20 | 2.96 | 1.0 | 2.98 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 2.96 | 0.93 | 3.13 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 2.96 | 0.93 | 3.13 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 20 | 2.96 | 0.69 | 2.68 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 20 | 2.96 | 0.69 | 2.68 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 2.96 | 1.12 | 2.8 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 2.96 | 1.12 | 2.8 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 2.96 | 0.32 | 2.78 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 2.96 | 0.32 | 2.78 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 2.96 | 0.32 | 2.78 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 2.96 | 0.32 | 2.78 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 20 | 2.96 | 0.08 | 3.02 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 20 | 2.96 | 0.55 | 2.96 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 2.96 | 0.55 | 2.96 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 20 | 2.96 | 0.08 | 3.02 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 20 | 2.96 | 0.55 | 2.96 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 2.96 | 0.55 | 2.96 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 20 | 2.96 | 1.13 | 3.07 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 2.96 | 1.13 | 3.07 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 2.96 | 0.56 | 2.82 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 2.96 | 0.56 | 2.82 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 2.96 | 0.56 | 2.82 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 20 | 2.96 | 0.04 | 2.98 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 20 | 2.96 | 0.62 | 2.8 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 20 | 2.96 | 0.62 | 2.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 20 | 2.96 | 0.62 | 2.8 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 20 | 2.96 | 0.62 | 2.8 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 20 | 2.96 | 0.62 | 2.8 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 20 | 2.96 | 0.62 | 2.8 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 20 | 2.96 | 2.81 | 2.22 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 20 | 2.96 | 0.03 | 2.95 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 20 | 2.96 | 0.03 | 2.95 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 20 | 2.95 | 0.98 | 2.43 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 20 | 2.95 | 0.16 | 2.96 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 20 | 2.95 | 0.88 | 2.84 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 20 | 2.95 | 0.88 | 2.84 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 20 | 2.95 | 0.88 | 2.84 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 20 | 2.95 | 0.88 | 2.84 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 20 | 2.95 | 0.88 | 2.84 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 20 | 2.95 | 0.88 | 2.84 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 20 | 2.95 | 0.88 | 2.84 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 20 | 2.95 | 0.88 | 2.84 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 20 | 2.95 | 0.88 | 2.84 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 20 | 2.95 | 0.88 | 2.84 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 20 | 2.95 | 0.88 | 2.84 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 20 | 2.95 | 0.88 | 2.84 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 20 | 2.95 | 0.88 | 2.84 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 20 | 2.95 | 0.88 | 2.84 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 20 | 2.95 | 0.88 | 2.84 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 20 | 2.95 | 0.88 | 2.84 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 20 | 2.95 | 0.88 | 2.84 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 20 | 2.95 | 0.88 | 2.84 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 20 | 2.95 | 0.41 | 2.9 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 20 | 2.95 | 0.64 | 2.79 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 20 | 2.95 | 0.64 | 2.79 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 20 | 2.95 | 0.77 | 2.6 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 20 | 2.95 | 0.77 | 2.6 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 20 | 2.95 | 0.3 | 2.94 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 20 | 2.95 | 0.3 | 2.94 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 20 | 2.95 | 0.77 | 2.6 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 20 | 2.95 | 0.77 | 2.6 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 20 | 2.95 | 0.37 | 2.94 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 20 | 2.95 | 0.37 | 2.94 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 20 | 2.95 | 0.37 | 2.94 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 20 | 2.95 | 0.37 | 2.94 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 2.95 | 0.18 | 2.95 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 2.95 | 0.18 | 2.95 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 2.95 | 0.18 | 2.95 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 2.95 | 0.18 | 2.95 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 20 | 2.94 | 0.45 | 2.78 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 2.94 | 1.59 | 2.56 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 2.94 | 1.59 | 2.56 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 2.94 | 0.72 | 2.55 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 20 | 2.94 | 0.14 | 2.95 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 20 | 2.94 | 0.14 | 2.95 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 20 | 2.94 | 0.14 | 2.95 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 20 | 2.94 | 0.14 | 2.95 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 20 | 2.94 | 0.23 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 20 | 2.94 | 0.23 | 2.92 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 20 | 2.94 | 0.63 | 2.87 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 20 | 2.94 | 0.63 | 2.87 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 20 | 2.94 | 0.83 | 2.6 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 20 | 2.94 | 0.83 | 2.6 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 20 | 2.94 | 0.11 | 2.96 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 20 | 2.94 | 0.11 | 2.96 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 20 | 2.94 | 0.17 | 2.99 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 2.94 | 0.87 | 2.83 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 2.94 | 0.87 | 2.83 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 2.94 | 0.87 | 2.83 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 2.94 | 0.87 | 2.83 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 2.94 | 0.87 | 2.83 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 2.94 | 0.87 | 2.83 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 2.94 | 0.34 | 2.99 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 2.94 | 0.71 | 3.0 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 2.94 | 0.71 | 3.0 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 2.94 | 0.71 | 3.0 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 2.94 | 0.71 | 3.0 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 2.94 | 0.71 | 3.0 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 2.94 | 0.71 | 3.0 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 20 | 2.94 | 0.82 | 3.3 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 20 | 2.94 | 0.82 | 3.3 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 20 | 2.94 | 0.82 | 3.3 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 20 | 2.94 | 0.29 | 3.12 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 20 | 2.94 | 0.29 | 3.12 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 20 | 2.94 | 0.29 | 3.12 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 2.94 | 0.33 | 2.89 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 2.94 | 0.33 | 2.89 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 2.94 | 0.33 | 2.89 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 2.94 | 0.33 | 2.89 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 20 | 2.94 | 0.32 | 2.86 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 20 | 2.94 | 0.32 | 2.86 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 20 | 2.94 | 0.32 | 2.86 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 20 | 2.93 | 0.35 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 20 | 2.93 | 0.35 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 20 | 2.93 | 0.35 | 3.18 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 20 | 2.93 | 1.4 | 2.42 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 20 | 2.93 | 1.4 | 2.42 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 20 | 2.93 | 1.4 | 2.42 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 20 | 2.93 | 0.61 | 2.99 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 20 | 2.93 | 0.61 | 2.99 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 20 | 2.93 | 0.51 | 2.58 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 20 | 2.93 | 0.51 | 2.9 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 20 | 2.93 | 0.51 | 2.9 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 2.93 | 0.63 | 2.83 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 20 | 2.93 | 0.06 | 2.94 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 20 | 2.93 | 0.93 | 2.75 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 20 | 2.93 | 0.93 | 2.75 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 20 | 2.93 | 0.93 | 2.75 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 20 | 2.93 | 0.58 | 2.66 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 20 | 2.93 | 0.6 | 2.74 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.93 | 0.49 | 2.97 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.93 | 0.49 | 2.97 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.93 | 0.49 | 2.97 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 2.93 | 0.29 | 2.99 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 20 | 2.93 | 0.28 | 2.91 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 20 | 2.93 | 0.28 | 2.91 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 20 | 2.93 | 0.39 | 2.94 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 20 | 2.93 | 0.39 | 2.94 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 20 | 2.93 | 0.26 | 2.84 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 20 | 2.93 | 0.26 | 2.84 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 20 | 2.93 | 0.26 | 2.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 20 | 2.93 | 0.26 | 2.84 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 2.93 | 0.33 | 2.99 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 20 | 2.93 | 0.33 | 2.99 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 20 | 2.92 | 0.02 | 2.92 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 2.92 | 0.11 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 20 | 2.92 | 0.11 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 2.92 | 0.11 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 20 | 2.92 | 0.11 | 2.95 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 2.92 | 0.89 | 2.65 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 2.92 | 0.89 | 2.65 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 2.92 | 0.89 | 2.65 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 2.92 | 0.89 | 2.65 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 20 | 2.92 | 0.46 | 3.0 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 20 | 2.92 | 0.46 | 3.0 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 20 | 2.92 | 0.46 | 3.0 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 20 | 2.92 | 0.46 | 3.0 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 2.92 | 0.55 | 2.98 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 20 | 2.92 | 0.05 | 2.92 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 2.92 | 0.26 | 2.86 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 20 | 2.92 | 0.14 | 2.98 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 20 | 2.92 | 0.45 | 2.78 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 20 | 2.92 | 0.03 | 2.93 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 20 | 2.92 | 0.04 | 2.93 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 20 | 2.92 | 0.2 | 2.95 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 2.92 | 0.59 | 3.16 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 2.92 | 0.59 | 3.16 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 20 | 2.92 | 0.69 | 2.48 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 20 | 2.91 | 0.37 | 2.96 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 20 | 2.91 | 0.37 | 2.96 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 2.91 | 0.05 | 2.93 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 2.91 | 0.05 | 2.93 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 20 | 2.91 | 0.02 | 2.92 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 20 | 2.91 | 0.02 | 2.92 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 2.91 | 1.37 | 3.28 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 2.91 | 1.37 | 3.28 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 2.91 | 1.37 | 3.28 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 2.91 | 1.37 | 3.28 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 20 | 2.91 | 0.94 | 2.9 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 20 | 2.91 | 0.94 | 2.9 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 20 | 2.91 | 0.94 | 2.9 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 20 | 2.91 | 0.02 | 2.91 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 20 | 2.91 | 0.53 | 2.76 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 20 | 2.91 | 0.53 | 2.76 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 20 | 2.91 | 0.53 | 2.76 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 20 | 2.91 | 0.2 | 3.0 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 20 | 2.91 | 0.67 | 2.96 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 20 | 2.91 | 0.53 | 2.76 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 20 | 2.91 | 0.53 | 2.76 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 20 | 2.91 | 0.53 | 2.76 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 20 | 2.91 | 0.6 | 2.82 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 20 | 2.91 | 0.6 | 2.82 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 20 | 2.91 | 0.6 | 2.82 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 20 | 2.91 | 0.6 | 2.82 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 20 | 2.91 | 0.6 | 2.82 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 20 | 2.91 | 0.6 | 2.82 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 20 | 2.91 | 0.6 | 2.82 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 20 | 2.91 | 0.6 | 2.82 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 20 | 2.91 | 0.6 | 2.82 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 20 | 2.91 | 0.6 | 2.82 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 20 | 2.91 | 0.6 | 2.82 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 20 | 2.91 | 0.6 | 2.82 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 20 | 2.91 | 0.04 | 2.92 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 20 | 2.91 | 0.02 | 2.91 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 2.91 | 0.62 | 2.94 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 2.91 | 0.62 | 2.94 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 2.91 | 0.62 | 2.94 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 20 | 2.91 | 0.26 | 2.82 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 20 | 2.91 | 0.26 | 2.82 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 20 | 2.91 | 0.47 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 20 | 2.91 | 0.47 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 20 | 2.91 | 0.47 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 20 | 2.91 | 0.47 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 20 | 2.91 | 0.47 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 20 | 2.91 | 0.47 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 20 | 2.91 | 0.47 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 20 | 2.91 | 0.47 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 20 | 2.91 | 0.47 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 20 | 2.91 | 0.47 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 20 | 2.91 | 0.47 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 20 | 2.91 | 0.47 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 20 | 2.91 | 0.47 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 20 | 2.91 | 0.47 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 20 | 2.91 | 0.47 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 20 | 2.91 | 0.47 | 3.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 20 | 2.91 | 0.47 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 20 | 2.91 | 0.47 | 3.13 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 20 | 2.9 | 0.04 | 2.92 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 20 | 2.9 | 0.14 | 2.95 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 20 | 2.9 | 0.46 | 2.68 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 2.9 | 0.82 | 2.64 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 2.9 | 0.82 | 2.64 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 2.9 | 0.82 | 2.64 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 20 | 2.9 | 1.15 | 2.35 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 20 | 2.9 | 1.15 | 2.35 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 20 | 2.9 | 1.15 | 2.35 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 20 | 2.9 | 0.03 | 2.9 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 20 | 2.9 | 0.15 | 2.94 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 2.9 | 0.52 | 2.64 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 2.9 | 0.52 | 2.64 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 20 | 2.9 | 0.07 | 2.95 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 20 | 2.9 | 0.03 | 2.91 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 20 | 2.9 | 0.02 | 2.9 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 20 | 2.9 | 0.49 | 2.65 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 20 | 2.9 | 0.49 | 2.65 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 20 | 2.9 | 0.7 | 2.96 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 20 | 2.9 | 0.7 | 2.96 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 20 | 2.9 | 0.7 | 2.96 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 20 | 2.9 | 0.7 | 2.96 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 20 | 2.9 | 0.03 | 2.9 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 2.9 | 0.46 | 2.88 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 2.9 | 0.46 | 2.88 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 2.9 | 0.46 | 2.88 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 2.9 | 0.95 | 2.63 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 2.9 | 0.95 | 2.63 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 2.9 | 0.95 | 2.63 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 20 | 2.9 | 0.04 | 2.9 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 20 | 2.9 | 0.72 | 2.93 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 20 | 2.9 | 0.8 | 2.58 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 20 | 2.9 | 0.8 | 2.58 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 2.9 | 0.28 | 2.99 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 2.9 | 0.28 | 2.99 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 2.9 | 0.28 | 2.99 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 2.9 | 0.28 | 2.99 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 20 | 2.89 | 0.12 | 2.9 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 2.89 | 0.52 | 2.76 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 2.89 | 0.52 | 2.76 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 2.89 | 0.52 | 2.76 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 2.89 | 0.52 | 2.76 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 2.89 | 0.52 | 2.76 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 2.89 | 0.52 | 2.76 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 2.89 | 0.52 | 2.76 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 2.89 | 0.52 | 2.76 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 2.89 | 0.52 | 2.76 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 2.89 | 0.52 | 2.76 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 2.89 | 0.52 | 2.76 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 2.89 | 0.52 | 2.76 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 20 | 2.89 | 0.05 | 2.9 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 20 | 2.89 | 0.29 | 2.87 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 20 | 2.89 | 0.29 | 2.87 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 20 | 2.89 | 0.83 | 2.45 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 20 | 2.89 | 0.83 | 2.45 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 20 | 2.89 | 0.06 | 2.9 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 20 | 2.89 | 0.07 | 2.88 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 2.89 | 0.07 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 2.89 | 0.07 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 2.89 | 0.07 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 2.89 | 0.07 | 2.91 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 20 | 2.89 | 0.46 | 2.86 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 20 | 2.89 | 0.46 | 2.86 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 20 | 2.89 | 0.43 | 2.71 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 20 | 2.89 | 0.49 | 2.6 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 20 | 2.89 | 0.43 | 2.71 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 20 | 2.89 | 0.27 | 2.92 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 20 | 2.89 | 0.27 | 2.92 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 20 | 2.89 | 0.14 | 2.92 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 20 | 2.89 | 0.64 | 2.74 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 20 | 2.89 | 0.64 | 2.74 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 2.89 | 0.19 | 2.9 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 2.89 | 0.19 | 2.9 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 2.89 | 0.19 | 2.9 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 2.89 | 0.19 | 2.9 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 20 | 2.89 | 0.31 | 2.92 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 20 | 2.89 | 0.31 | 2.92 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 20 | 2.89 | 0.06 | 2.91 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 20 | 2.88 | 0.39 | 2.88 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 20 | 2.88 | 0.39 | 2.88 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 2.88 | 0.07 | 2.88 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 20 | 2.88 | 0.07 | 2.88 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 2.88 | 0.07 | 2.88 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 20 | 2.88 | 0.07 | 2.88 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 2.88 | 0.47 | 2.78 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 2.88 | 0.47 | 2.78 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 20 | 2.88 | 0.04 | 2.88 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 20 | 2.88 | 0.05 | 2.88 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 20 | 2.88 | 0.35 | 2.95 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 20 | 2.88 | 0.35 | 2.95 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 20 | 2.88 | 0.06 | 2.87 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 2.88 | 0.56 | 3.02 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 20 | 2.88 | 1.87 | 2.42 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 20 | 2.88 | 1.87 | 2.42 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 20 | 2.88 | 1.87 | 2.42 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 20 | 2.88 | 0.22 | 2.9 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 20 | 2.88 | 0.23 | 3.01 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 20 | 2.88 | 0.63 | 2.68 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 20 | 2.88 | 0.63 | 2.68 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 20 | 2.88 | 2.23 | 2.02 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 20 | 2.88 | 0.23 | 3.01 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 20 | 2.88 | 0.06 | 2.88 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 2.88 | 0.08 | 2.84 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 2.88 | 0.08 | 2.84 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 2.88 | 0.08 | 2.84 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 2.88 | 0.08 | 2.84 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 20 | 2.88 | 0.49 | 2.81 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 20 | 2.88 | 0.49 | 2.81 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 20 | 2.88 | 0.49 | 2.81 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 20 | 2.88 | 0.06 | 2.89 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 20 | 2.87 | 1.59 | 1.98 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 20 | 2.87 | 1.59 | 1.98 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 20 | 2.87 | 1.59 | 1.98 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 2.87 | 0.85 | 2.82 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 20 | 2.87 | 0.33 | 2.73 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 20 | 2.87 | 0.33 | 2.73 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 20 | 2.87 | 0.06 | 2.88 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 20 | 2.87 | 0.33 | 2.8 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 20 | 2.87 | 0.33 | 2.8 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 20 | 2.87 | 0.33 | 2.8 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 20 | 2.87 | 0.33 | 2.8 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 20 | 2.87 | 0.04 | 2.86 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 20 | 2.87 | 0.2 | 2.96 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 20 | 2.87 | 0.11 | 2.88 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 2.87 | 1.04 | 2.7 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 2.87 | 1.04 | 2.7 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 2.87 | 1.04 | 2.7 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 20 | 2.87 | 0.15 | 2.9 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 20 | 2.87 | 0.15 | 2.9 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 20 | 2.87 | 0.89 | 2.69 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 2.87 | 0.89 | 2.69 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 20 | 2.87 | 0.89 | 2.69 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 2.87 | 0.89 | 2.69 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 20 | 2.87 | 0.59 | 2.77 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 20 | 2.87 | 0.59 | 2.77 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 20 | 2.87 | 0.59 | 2.77 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 20 | 2.87 | 0.59 | 2.77 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 20 | 2.87 | 0.59 | 2.77 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 20 | 2.87 | 0.59 | 2.77 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 20 | 2.87 | 0.06 | 2.88 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 2.86 | 0.43 | 2.74 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 20 | 2.86 | 0.11 | 2.87 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 2.86 | 0.72 | 2.98 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 2.86 | 0.72 | 2.98 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 20 | 2.86 | 0.24 | 2.9 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 2.86 | 1.27 | 2.5 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 20 | 2.86 | 0.16 | 2.9 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 20 | 2.86 | 0.06 | 2.88 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 20 | 2.86 | 0.68 | 2.82 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 20 | 2.86 | 0.68 | 2.82 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 20 | 2.86 | 0.36 | 2.81 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 20 | 2.86 | 0.36 | 2.81 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 2.86 | 0.58 | 2.78 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 2.86 | 0.58 | 2.78 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 2.86 | 0.58 | 2.78 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 20 | 2.86 | 0.69 | 2.87 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 20 | 2.86 | 1.0 | 2.56 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 20 | 2.86 | 0.66 | 2.88 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 20 | 2.86 | 0.05 | 2.85 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 20 | 2.86 | 0.2 | 2.86 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 20 | 2.86 | 0.67 | 2.88 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 20 | 2.86 | 0.76 | 2.72 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 20 | 2.86 | 0.76 | 2.72 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 20 | 2.86 | 0.16 | 2.93 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 20 | 2.86 | 0.05 | 2.84 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 20 | 2.85 | 0.53 | 2.72 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 20 | 2.85 | 0.53 | 2.72 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 20 | 2.85 | 0.53 | 2.72 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 20 | 2.85 | 0.53 | 2.72 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 20 | 2.85 | 0.53 | 2.72 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 20 | 2.85 | 0.53 | 2.72 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 20 | 2.85 | 0.53 | 2.72 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 20 | 2.85 | 0.53 | 2.72 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 20 | 2.85 | 0.53 | 2.72 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 20 | 2.85 | 0.38 | 2.86 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 20 | 2.85 | 0.38 | 2.86 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 20 | 2.85 | 0.39 | 2.82 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 20 | 2.85 | 0.39 | 2.82 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 20 | 2.85 | 0.39 | 2.82 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 2.85 | 0.71 | 3.08 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 20 | 2.85 | 0.18 | 2.88 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 20 | 2.85 | 0.64 | 2.7 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 20 | 2.85 | 0.64 | 2.7 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 20 | 2.85 | 0.64 | 2.7 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 20 | 2.85 | 0.64 | 2.7 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 20 | 2.85 | 0.64 | 2.7 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 20 | 2.85 | 0.64 | 2.7 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 20 | 2.85 | 0.64 | 2.7 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 20 | 2.85 | 0.64 | 2.7 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 20 | 2.85 | 0.64 | 2.7 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 20 | 2.85 | 0.64 | 2.7 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 20 | 2.85 | 0.64 | 2.7 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 20 | 2.85 | 0.64 | 2.7 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 20 | 2.85 | 0.2 | 2.94 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 20 | 2.85 | 0.04 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 20 | 2.85 | 0.04 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 20 | 2.85 | 0.04 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 20 | 2.85 | 0.04 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 20 | 2.85 | 0.04 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 20 | 2.85 | 0.04 | 2.84 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 20 | 2.85 | 0.44 | 2.75 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 20 | 2.85 | 0.44 | 2.75 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 20 | 2.85 | 0.46 | 2.91 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 20 | 2.85 | 0.07 | 2.86 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 2.85 | 0.69 | 2.94 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 2.85 | 0.69 | 2.94 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 20 | 2.85 | 0.14 | 2.88 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 20 | 2.85 | 0.7 | 2.97 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 2.85 | 0.7 | 2.97 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 20 | 2.85 | 0.7 | 2.97 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 2.85 | 0.7 | 2.97 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 20 | 2.85 | 0.7 | 2.97 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 2.85 | 0.7 | 2.97 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 20 | 2.85 | 0.7 | 2.97 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 2.85 | 0.7 | 2.97 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 20 | 2.85 | 0.7 | 2.97 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 2.85 | 0.7 | 2.97 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 20 | 2.85 | 0.7 | 2.97 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 2.85 | 0.7 | 2.97 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 20 | 2.85 | 0.14 | 2.89 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 20 | 2.85 | 0.07 | 2.86 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 2.85 | 1.09 | 2.56 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 2.85 | 1.09 | 2.56 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 2.85 | 1.07 | 3.26 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 20 | 2.85 | 0.04 | 2.84 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 20 | 2.85 | 0.14 | 2.88 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 20 | 2.85 | 0.14 | 2.88 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 20 | 2.84 | 0.4 | 2.84 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 20 | 2.84 | 0.4 | 2.84 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 20 | 2.84 | 0.4 | 2.84 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 20 | 2.84 | 0.4 | 2.84 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 20 | 2.84 | 0.03 | 2.84 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 20 | 2.84 | 0.28 | 2.84 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 20 | 2.84 | 0.5 | 2.82 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 20 | 2.84 | 0.5 | 2.82 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 20 | 2.84 | 0.06 | 2.84 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 20 | 2.84 | 0.07 | 2.85 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 20 | 2.84 | 0.98 | 3.26 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 20 | 2.84 | 0.37 | 3.04 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 20 | 2.84 | 0.37 | 3.04 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 20 | 2.84 | 0.37 | 3.04 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 20 | 2.84 | 0.57 | 2.69 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 20 | 2.84 | 0.57 | 2.69 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 20 | 2.84 | 0.57 | 2.69 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 20 | 2.84 | 0.57 | 2.69 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 20 | 2.84 | 0.29 | 2.8 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 20 | 2.84 | 0.29 | 2.8 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 20 | 2.84 | 0.29 | 2.8 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 20 | 2.84 | 0.29 | 2.8 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 20 | 2.84 | 0.22 | 2.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 20 | 2.84 | 0.22 | 2.8 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 20 | 2.83 | 1.27 | 2.54 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 20 | 2.83 | 0.72 | 2.73 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 20 | 2.83 | 0.72 | 2.73 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 20 | 2.83 | 0.53 | 2.66 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 20 | 2.83 | 0.53 | 2.66 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 20 | 2.83 | 0.53 | 2.66 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 20 | 2.83 | 0.53 | 2.66 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 20 | 2.83 | 0.53 | 2.66 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 20 | 2.83 | 0.53 | 2.66 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 20 | 2.83 | 0.53 | 2.66 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 20 | 2.83 | 0.53 | 2.66 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 20 | 2.83 | 0.53 | 2.66 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 20 | 2.83 | 0.97 | 2.58 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 20 | 2.83 | 0.14 | 2.84 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 20 | 2.83 | 0.41 | 2.85 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 20 | 2.83 | 0.41 | 2.85 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 20 | 2.83 | 0.12 | 2.88 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 20 | 2.83 | 0.17 | 2.8 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 20 | 2.83 | 0.17 | 2.8 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 20 | 2.83 | 0.17 | 2.8 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 20 | 2.83 | 0.17 | 2.8 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 2.83 | 0.38 | 2.75 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 2.83 | 0.38 | 2.75 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 20 | 2.83 | 1.12 | 2.66 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 20 | 2.83 | 0.81 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 20 | 2.83 | 0.81 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 20 | 2.83 | 0.81 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 20 | 2.83 | 0.81 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 20 | 2.83 | 0.81 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 20 | 2.83 | 0.81 | 3.37 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 2.83 | 0.83 | 2.62 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 2.83 | 0.83 | 2.62 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 2.83 | 0.83 | 2.62 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 20 | 2.83 | 0.18 | 2.8 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 20 | 2.83 | 0.18 | 2.8 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 20 | 2.83 | 0.18 | 2.8 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 20 | 2.83 | 0.18 | 2.8 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 20 | 2.83 | 0.18 | 2.8 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 20 | 2.83 | 0.18 | 2.8 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.83 | 0.49 | 2.87 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.83 | 0.49 | 2.87 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.83 | 0.49 | 2.87 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 20 | 2.83 | 0.04 | 2.82 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 2.83 | 0.6 | 2.65 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 2.83 | 0.6 | 2.65 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 2.83 | 0.6 | 2.65 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 2.83 | 0.6 | 2.65 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 2.83 | 0.6 | 2.65 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 2.83 | 0.6 | 2.65 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 2.83 | 0.6 | 2.65 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 2.83 | 0.6 | 2.65 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 2.83 | 0.55 | 2.99 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 2.83 | 0.55 | 2.99 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 20 | 2.83 | 0.66 | 2.54 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 20 | 2.83 | 0.14 | 2.84 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 20 | 2.82 | 0.14 | 2.78 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 20 | 2.82 | 0.15 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 20 | 2.82 | 0.15 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 20 | 2.82 | 0.15 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 20 | 2.82 | 0.15 | 2.85 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 20 | 2.82 | 0.08 | 2.82 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 20 | 2.82 | 0.13 | 2.84 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 20 | 2.82 | 0.2 | 2.8 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 20 | 2.82 | 0.2 | 2.8 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 20 | 2.82 | 0.25 | 2.92 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 20 | 2.82 | 0.25 | 2.92 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 20 | 2.82 | 0.49 | 2.68 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 20 | 2.82 | 0.49 | 2.68 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 20 | 2.82 | 0.85 | 2.56 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 20 | 2.82 | 0.42 | 2.71 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 20 | 2.82 | 0.42 | 2.71 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 20 | 2.82 | 0.87 | 2.85 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 20 | 2.82 | 0.87 | 2.85 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 20 | 2.82 | 0.87 | 2.85 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 20 | 2.82 | 0.87 | 2.85 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 20 | 2.82 | 0.87 | 2.85 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 20 | 2.82 | 0.87 | 2.85 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 20 | 2.82 | 0.87 | 2.85 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 20 | 2.82 | 0.87 | 2.85 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 20 | 2.82 | 0.87 | 2.85 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 2.82 | 1.09 | 2.61 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 20 | 2.82 | 0.18 | 2.84 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 20 | 2.82 | 0.18 | 2.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 2.82 | 0.97 | 2.6 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 2.82 | 0.97 | 2.6 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 2.82 | 0.97 | 2.6 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 20 | 2.82 | 0.2 | 2.89 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 20 | 2.82 | 0.2 | 2.89 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 20 | 2.82 | 0.2 | 2.9 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 20 | 2.82 | 0.22 | 2.8 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 20 | 2.82 | 0.22 | 2.8 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 20 | 2.81 | 0.65 | 2.86 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 20 | 2.81 | 0.19 | 2.78 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 20 | 2.81 | 0.15 | 2.82 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 20 | 2.81 | 0.05 | 2.82 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 20 | 2.81 | 0.25 | 2.86 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 20 | 2.81 | 0.25 | 2.86 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 20 | 2.81 | 0.07 | 2.82 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 20 | 2.81 | 0.51 | 2.78 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 20 | 2.81 | 0.51 | 2.78 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 20 | 2.81 | 0.2 | 2.9 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 20 | 2.81 | 0.4 | 2.73 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 20 | 2.81 | 0.4 | 2.73 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 20 | 2.81 | 0.4 | 2.73 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 20 | 2.81 | 0.19 | 2.88 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 20 | 2.81 | 0.18 | 2.9 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 2.81 | 0.82 | 3.16 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 2.81 | 0.68 | 2.92 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 2.81 | 0.68 | 2.92 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 2.81 | 0.68 | 2.92 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 2.81 | 0.68 | 2.92 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 2.81 | 0.68 | 2.92 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 2.81 | 0.68 | 2.92 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 20 | 2.81 | 0.13 | 2.76 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 20 | 2.81 | 0.52 | 2.7 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 20 | 2.81 | 0.52 | 2.7 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 20 | 2.81 | 1.65 | 2.3 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 20 | 2.81 | 1.65 | 2.3 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 20 | 2.81 | 1.65 | 2.3 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 20 | 2.81 | 0.25 | 2.84 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 20 | 2.8 | 0.6 | 2.4 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 20 | 2.8 | 0.6 | 2.4 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 20 | 2.8 | 0.23 | 2.94 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 20 | 2.8 | 0.28 | 2.86 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 20 | 2.8 | 0.28 | 2.86 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 20 | 2.8 | 0.28 | 2.86 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 20 | 2.8 | 0.23 | 2.91 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 20 | 2.8 | 0.12 | 2.82 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 20 | 2.8 | 0.04 | 2.8 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 20 | 2.8 | 0.23 | 2.94 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 2.8 | 0.45 | 2.61 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 20 | 2.8 | 0.09 | 2.84 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 20 | 2.8 | 0.09 | 2.84 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 20 | 2.8 | 0.4 | 2.82 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 20 | 2.8 | 0.4 | 2.82 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 20 | 2.8 | 0.4 | 2.82 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 20 | 2.8 | 0.62 | 2.66 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 20 | 2.8 | 0.62 | 2.66 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 20 | 2.8 | 0.62 | 2.66 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 20 | 2.8 | 0.62 | 2.66 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 20 | 2.8 | 0.62 | 2.66 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 20 | 2.8 | 0.62 | 2.66 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 20 | 2.8 | 0.62 | 2.66 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 20 | 2.8 | 0.62 | 2.66 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 20 | 2.8 | 0.62 | 2.66 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 20 | 2.8 | 0.62 | 2.66 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 20 | 2.8 | 0.62 | 2.66 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 20 | 2.8 | 0.62 | 2.66 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 2.8 | 0.17 | 2.81 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 20 | 2.8 | 1.89 | 2.09 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 20 | 2.8 | 0.04 | 2.78 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 20 | 2.8 | 0.05 | 2.78 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 20 | 2.79 | 0.03 | 2.78 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 20 | 2.79 | 0.12 | 2.76 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 20 | 2.79 | 0.05 | 2.78 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 20 | 2.79 | 0.26 | 2.74 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 2.79 | 0.31 | 2.82 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 20 | 2.79 | 0.31 | 2.82 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 20 | 2.79 | 0.39 | 2.73 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 20 | 2.79 | 0.26 | 2.74 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 2.79 | 0.31 | 2.82 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 20 | 2.79 | 0.31 | 2.82 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 20 | 2.79 | 0.2 | 2.76 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 20 | 2.79 | 0.15 | 2.79 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 20 | 2.79 | 0.2 | 2.76 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 20 | 2.79 | 0.25 | 2.9 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 20 | 2.79 | 0.44 | 2.67 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 20 | 2.79 | 0.13 | 2.8 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 20 | 2.79 | 0.44 | 2.67 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 20 | 2.79 | 0.03 | 2.78 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 20 | 2.79 | 0.27 | 2.75 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 2.79 | 0.78 | 2.8 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 2.79 | 0.78 | 2.8 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 20 | 2.79 | 0.27 | 2.75 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 2.78 | 0.64 | 2.69 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 2.78 | 0.64 | 2.69 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 20 | 2.78 | 0.21 | 2.86 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 20 | 2.78 | 0.28 | 2.94 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 20 | 2.78 | 0.17 | 2.7 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 20 | 2.78 | 0.11 | 2.8 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 20 | 2.78 | 0.17 | 2.7 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 20 | 2.78 | 0.08 | 2.76 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 20 | 2.78 | 0.08 | 2.76 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 20 | 2.78 | 0.4 | 2.88 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 20 | 2.78 | 0.4 | 2.88 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 20 | 2.78 | 1.14 | 2.71 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 20 | 2.78 | 1.14 | 2.71 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 20 | 2.78 | 0.21 | 2.79 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 20 | 2.78 | 0.4 | 2.48 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 20 | 2.78 | 0.4 | 2.48 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 20 | 2.78 | 0.4 | 2.48 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 2.78 | 0.83 | 2.54 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 2.78 | 0.83 | 2.54 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 2.78 | 0.83 | 2.54 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 2.78 | 0.83 | 2.54 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 2.78 | 0.83 | 2.54 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 2.78 | 0.83 | 2.54 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 20 | 2.78 | 0.4 | 2.48 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 20 | 2.78 | 0.4 | 2.48 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 20 | 2.78 | 0.4 | 2.48 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 2.78 | 0.83 | 2.54 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 2.78 | 0.83 | 2.54 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 2.78 | 0.83 | 2.54 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 2.78 | 0.83 | 2.54 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 2.78 | 0.83 | 2.54 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 2.78 | 0.83 | 2.54 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 2.78 | 0.94 | 2.42 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 2.78 | 0.94 | 2.42 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 2.78 | 0.94 | 2.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 2.78 | 0.46 | 2.77 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 2.78 | 0.46 | 2.77 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 2.78 | 0.32 | 2.68 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 2.78 | 0.32 | 2.68 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 20 | 2.78 | 0.6 | 2.62 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 20 | 2.78 | 0.6 | 2.62 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 20 | 2.78 | 0.18 | 2.75 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 20 | 2.78 | 0.18 | 2.75 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 20 | 2.77 | 0.68 | 2.51 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 20 | 2.77 | 0.68 | 2.51 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 20 | 2.77 | 0.68 | 2.51 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 20 | 2.77 | 0.68 | 2.51 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 20 | 2.77 | 0.68 | 2.51 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 20 | 2.77 | 0.68 | 2.51 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 20 | 2.77 | 0.09 | 2.8 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 20 | 2.77 | 0.09 | 2.8 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 20 | 2.77 | 0.09 | 2.8 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 20 | 2.77 | 0.09 | 2.8 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 20 | 2.77 | 0.9 | 2.32 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 20 | 2.77 | 0.26 | 2.76 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 20 | 2.77 | 0.13 | 2.77 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 20 | 2.77 | 0.31 | 2.86 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 20 | 2.77 | 0.31 | 2.86 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 20 | 2.77 | 0.44 | 2.83 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 20 | 2.77 | 0.44 | 2.83 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 20 | 2.77 | 0.2 | 2.83 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 20 | 2.77 | 0.16 | 2.82 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 20 | 2.77 | 0.46 | 2.64 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 20 | 2.77 | 0.26 | 2.79 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 20 | 2.76 | 0.26 | 2.94 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 20 | 2.76 | 0.23 | 2.76 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 20 | 2.76 | 0.07 | 2.77 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 20 | 2.76 | 0.23 | 2.76 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 20 | 2.76 | 0.99 | 2.54 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 20 | 2.76 | 0.99 | 2.54 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 20 | 2.76 | 0.99 | 2.54 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 20 | 2.76 | 0.99 | 2.54 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 20 | 2.76 | 0.99 | 2.54 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 20 | 2.76 | 0.99 | 2.54 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 20 | 2.76 | 0.25 | 2.88 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 20 | 2.76 | 0.54 | 2.69 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 2.76 | 0.15 | 2.72 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 2.76 | 0.15 | 2.72 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 2.76 | 1.36 | 2.78 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 2.76 | 1.36 | 2.78 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 2.76 | 1.36 | 2.78 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 20 | 2.76 | 0.17 | 2.66 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 20 | 2.76 | 0.16 | 2.79 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 20 | 2.76 | 0.75 | 2.72 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 20 | 2.76 | 0.75 | 2.72 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 20 | 2.76 | 0.75 | 2.72 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 20 | 2.75 | 0.9 | 2.32 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 20 | 2.75 | 0.9 | 2.32 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 20 | 2.75 | 0.9 | 2.32 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 20 | 2.75 | 0.9 | 2.32 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 20 | 2.75 | 0.9 | 2.32 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 20 | 2.75 | 0.9 | 2.32 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 20 | 2.75 | 0.9 | 2.32 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 20 | 2.75 | 0.9 | 2.32 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 20 | 2.75 | 0.9 | 2.32 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 20 | 2.75 | 0.14 | 2.72 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 20 | 2.75 | 0.54 | 2.68 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 2.75 | 0.54 | 2.68 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 2.75 | 1.01 | 2.78 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 2.75 | 0.84 | 2.3 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 2.75 | 0.84 | 2.3 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 2.75 | 0.84 | 2.3 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 20 | 2.75 | 0.2 | 2.76 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 20 | 2.75 | 0.16 | 2.76 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 20 | 2.75 | 0.16 | 2.76 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 2.75 | 0.42 | 2.91 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 20 | 2.74 | 0.41 | 2.44 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 20 | 2.74 | 0.41 | 2.44 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 20 | 2.74 | 0.41 | 2.44 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 20 | 2.74 | 0.61 | 2.78 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 20 | 2.74 | 0.61 | 2.78 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 20 | 2.74 | 0.46 | 2.54 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 20 | 2.74 | 0.43 | 2.72 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 20 | 2.74 | 0.43 | 2.72 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 20 | 2.74 | 0.43 | 2.72 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 20 | 2.74 | 0.43 | 2.72 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 20 | 2.74 | 0.43 | 2.72 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 20 | 2.74 | 0.43 | 2.72 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 20 | 2.74 | 0.45 | 2.63 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 20 | 2.74 | 0.45 | 2.63 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 2.74 | 0.61 | 2.62 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 20 | 2.74 | 0.3 | 2.9 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 20 | 2.74 | 0.75 | 2.55 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 20 | 2.74 | 0.75 | 2.55 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 2.74 | 1.16 | 2.68 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 20 | 2.74 | 0.26 | 2.79 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 2.74 | 1.0 | 2.62 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 20 | 2.74 | 0.26 | 2.79 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 20 | 2.74 | 0.95 | 3.05 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 20 | 2.74 | 0.95 | 3.05 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 2.74 | 0.66 | 2.98 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 2.74 | 0.66 | 2.98 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 20 | 2.74 | 0.23 | 2.82 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 20 | 2.74 | 0.21 | 2.78 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 20 | 2.74 | 0.21 | 2.78 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 20 | 2.74 | 0.17 | 2.78 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 20 | 2.74 | 0.24 | 2.8 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 20 | 2.74 | 0.37 | 2.84 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 20 | 2.74 | 0.37 | 2.84 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 2.74 | 0.98 | 2.8 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 20 | 2.73 | 0.46 | 2.6 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 2.73 | 0.51 | 2.6 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 20 | 2.73 | 0.54 | 2.71 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 20 | 2.73 | 0.54 | 2.71 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 20 | 2.73 | 0.54 | 2.71 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 2.73 | 0.63 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 2.73 | 0.63 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 2.73 | 0.63 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 2.73 | 0.63 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 2.73 | 0.63 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 2.73 | 0.63 | 2.62 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 20 | 2.73 | 0.1 | 2.72 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 20 | 2.73 | 0.1 | 2.72 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 2.73 | 0.87 | 2.74 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 2.73 | 0.87 | 2.74 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 2.73 | 0.87 | 2.74 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 2.73 | 1.02 | 2.49 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 2.73 | 0.64 | 2.73 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 20 | 2.73 | 0.15 | 2.72 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 20 | 2.73 | 0.15 | 2.72 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 20 | 2.73 | 0.27 | 2.74 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 20 | 2.73 | 0.27 | 2.74 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 20 | 2.73 | 0.27 | 2.74 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 20 | 2.73 | 0.27 | 2.74 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 20 | 2.72 | 1.14 | 2.13 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 20 | 2.72 | 1.14 | 2.13 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 20 | 2.72 | 1.14 | 2.13 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 2.72 | 0.6 | 2.86 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 2.72 | 0.6 | 2.86 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 2.72 | 0.6 | 2.86 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 2.72 | 0.6 | 2.86 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 20 | 2.72 | 0.29 | 2.91 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 20 | 2.72 | 0.26 | 2.71 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 20 | 2.72 | 0.6 | 2.58 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 20 | 2.72 | 0.6 | 2.58 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 20 | 2.72 | 0.38 | 2.71 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 20 | 2.72 | 0.38 | 2.71 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 20 | 2.72 | 0.17 | 2.68 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 20 | 2.72 | 0.17 | 2.68 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 20 | 2.72 | 0.26 | 2.79 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 20 | 2.72 | 0.02 | 2.72 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 20 | 2.72 | 0.02 | 2.72 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 20 | 2.72 | 0.09 | 2.73 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 20 | 2.72 | 0.09 | 2.73 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 20 | 2.72 | 0.68 | 2.43 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 20 | 2.72 | 0.68 | 2.43 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 20 | 2.72 | 0.68 | 2.43 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 20 | 2.72 | 0.68 | 2.43 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 20 | 2.72 | 0.68 | 2.43 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 20 | 2.72 | 0.68 | 2.43 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 20 | 2.72 | 0.68 | 2.43 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 20 | 2.72 | 0.68 | 2.43 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 20 | 2.72 | 0.68 | 2.43 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 20 | 2.72 | 0.29 | 2.63 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 20 | 2.72 | 0.29 | 2.63 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 20 | 2.72 | 0.29 | 2.63 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 20 | 2.72 | 0.29 | 2.63 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 20 | 2.72 | 0.55 | 2.58 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 20 | 2.72 | 0.12 | 2.72 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 20 | 2.72 | 0.12 | 2.72 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 20 | 2.72 | 0.3 | 2.87 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 2.72 | 0.84 | 2.46 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 2.72 | 0.84 | 2.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 2.72 | 0.84 | 2.46 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 2.72 | 0.84 | 2.46 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 2.72 | 0.52 | 2.64 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 20 | 2.71 | 0.21 | 2.71 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 20 | 2.71 | 0.25 | 2.68 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 20 | 2.71 | 0.25 | 2.68 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 20 | 2.71 | 0.25 | 2.68 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 20 | 2.71 | 0.27 | 2.69 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 20 | 2.71 | 0.2 | 2.78 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 20 | 2.71 | 1.16 | 2.84 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 20 | 2.71 | 0.41 | 2.54 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 20 | 2.71 | 0.21 | 2.68 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 20 | 2.71 | 0.21 | 2.68 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 20 | 2.71 | 0.41 | 2.54 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 20 | 2.71 | 0.21 | 2.68 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 20 | 2.71 | 0.21 | 2.68 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 20 | 2.71 | 0.33 | 2.78 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 2.71 | 0.33 | 2.78 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 20 | 2.71 | 0.25 | 2.68 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 20 | 2.71 | 0.03 | 2.72 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 2.71 | 0.41 | 2.7 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 2.71 | 0.41 | 2.7 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 2.71 | 0.41 | 2.7 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 20 | 2.71 | 0.25 | 2.55 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 20 | 2.71 | 0.65 | 2.54 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 20 | 2.71 | 0.65 | 2.54 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 20 | 2.71 | 0.65 | 2.54 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 20 | 2.71 | 0.65 | 2.54 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 2.7 | 0.2 | 2.7 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 2.7 | 0.2 | 2.7 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 20 | 2.7 | 0.2 | 2.8 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 20 | 2.7 | 0.2 | 2.8 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 2.7 | 1.29 | 2.64 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 2.7 | 1.29 | 2.64 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 2.7 | 1.29 | 2.64 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 2.7 | 1.29 | 2.64 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 2.7 | 1.29 | 2.64 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 2.7 | 1.29 | 2.64 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 20 | 2.7 | 0.2 | 2.69 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 20 | 2.7 | 0.94 | 3.07 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 20 | 2.7 | 0.61 | 2.48 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 20 | 2.69 | 0.11 | 2.66 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 20 | 2.69 | 0.11 | 2.66 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 20 | 2.69 | 0.79 | 2.7 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 20 | 2.69 | 0.79 | 2.7 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 20 | 2.69 | 0.79 | 2.7 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 20 | 2.69 | 0.79 | 2.7 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 20 | 2.69 | 0.79 | 2.7 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 20 | 2.69 | 0.79 | 2.7 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 20 | 2.69 | 0.08 | 2.66 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 20 | 2.69 | 0.6 | 2.6 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 20 | 2.69 | 0.6 | 2.6 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 20 | 2.69 | 0.1 | 2.7 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 20 | 2.69 | 0.6 | 2.6 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 20 | 2.69 | 0.6 | 2.6 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 20 | 2.69 | 0.1 | 2.7 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 20 | 2.69 | 0.46 | 2.5 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 20 | 2.69 | 0.28 | 2.64 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 20 | 2.69 | 0.28 | 2.64 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 20 | 2.69 | 0.27 | 2.58 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 20 | 2.69 | 0.27 | 2.58 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 20 | 2.69 | 0.27 | 2.58 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 20 | 2.69 | 0.27 | 2.58 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 20 | 2.69 | 0.27 | 2.67 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 20 | 2.69 | 0.27 | 2.67 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 2.69 | 0.88 | 2.78 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 2.69 | 0.88 | 2.78 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 2.69 | 0.88 | 2.78 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 20 | 2.69 | 0.36 | 2.81 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 20 | 2.69 | 0.36 | 2.81 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 20 | 2.69 | 0.23 | 2.68 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 20 | 2.69 | 0.23 | 2.68 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 20 | 2.69 | 0.23 | 2.68 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 20 | 2.69 | 0.23 | 2.68 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 20 | 2.69 | 0.27 | 2.74 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 20 | 2.69 | 0.27 | 2.74 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 2.69 | 0.98 | 2.84 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 2.69 | 0.98 | 2.84 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 2.69 | 0.98 | 2.84 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 2.69 | 0.98 | 2.84 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 20 | 2.69 | 0.38 | 2.82 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 20 | 2.69 | 0.53 | 2.34 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 20 | 2.69 | 1.11 | 2.26 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 20 | 2.69 | 1.11 | 2.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 20 | 2.69 | 0.39 | 2.78 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 20 | 2.69 | 0.39 | 2.78 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 20 | 2.68 | 1.41 | 2.27 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 20 | 2.68 | 0.3 | 2.7 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 20 | 2.68 | 0.36 | 2.56 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 20 | 2.68 | 0.36 | 2.56 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 20 | 2.68 | 0.36 | 2.56 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 20 | 2.68 | 0.36 | 2.56 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 20 | 2.68 | 0.36 | 2.56 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 20 | 2.68 | 0.36 | 2.56 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 20 | 2.68 | 0.28 | 2.88 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 20 | 2.68 | 0.28 | 2.88 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 20 | 2.68 | 0.23 | 2.64 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 2.68 | 1.07 | 2.44 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 2.68 | 1.07 | 2.44 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 2.68 | 1.07 | 2.44 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 20 | 2.68 | 0.28 | 2.62 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 20 | 2.68 | 0.83 | 2.86 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 20 | 2.68 | 0.83 | 2.86 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 20 | 2.68 | 0.14 | 2.69 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 20 | 2.68 | 0.53 | 2.68 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 20 | 2.68 | 0.53 | 2.68 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 20 | 2.68 | 0.53 | 2.68 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 20 | 2.68 | 0.53 | 2.68 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 20 | 2.68 | 0.17 | 2.68 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 20 | 2.68 | 1.65 | 2.5 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 20 | 2.68 | 1.65 | 2.5 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 20 | 2.67 | 0.18 | 2.62 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 20 | 2.67 | 0.06 | 2.69 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 20 | 2.67 | 0.17 | 2.68 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 20 | 2.67 | 0.37 | 2.46 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 20 | 2.67 | 0.37 | 2.46 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 20 | 2.67 | 0.37 | 2.46 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 20 | 2.67 | 0.59 | 2.92 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 20 | 2.67 | 0.61 | 2.48 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 20 | 2.67 | 0.16 | 2.69 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 20 | 2.67 | 0.16 | 2.69 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 20 | 2.67 | 0.61 | 2.48 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 20 | 2.67 | 0.44 | 2.55 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 20 | 2.67 | 1.14 | 2.08 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 20 | 2.67 | 1.14 | 2.08 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 20 | 2.67 | 1.14 | 2.08 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 20 | 2.67 | 0.23 | 2.71 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 20 | 2.67 | 0.7 | 2.49 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 20 | 2.67 | 0.7 | 2.49 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 20 | 2.67 | 1.28 | 1.96 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 20 | 2.67 | 1.28 | 1.96 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 20 | 2.67 | 1.28 | 1.96 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 20 | 2.67 | 1.58 | 2.22 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 20 | 2.67 | 0.14 | 2.62 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 20 | 2.66 | 0.91 | 2.6 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 20 | 2.66 | 0.91 | 2.6 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 20 | 2.66 | 0.91 | 2.6 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 20 | 2.66 | 0.99 | 2.44 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 20 | 2.66 | 0.49 | 2.6 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 20 | 2.66 | 0.31 | 2.9 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 20 | 2.66 | 1.37 | 2.38 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 20 | 2.66 | 1.37 | 2.38 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 20 | 2.66 | 1.37 | 2.38 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 20 | 2.66 | 1.37 | 2.38 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 20 | 2.66 | 1.37 | 2.38 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 20 | 2.66 | 1.37 | 2.38 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 20 | 2.66 | 0.95 | 2.72 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 20 | 2.66 | 0.95 | 2.72 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 20 | 2.66 | 0.95 | 2.72 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 20 | 2.66 | 0.95 | 2.72 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 20 | 2.66 | 0.95 | 2.72 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 20 | 2.66 | 0.95 | 2.72 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 20 | 2.66 | 0.17 | 2.66 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 20 | 2.66 | 0.17 | 2.66 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 20 | 2.66 | 0.59 | 2.33 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 20 | 2.66 | 0.59 | 2.33 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 20 | 2.66 | 0.18 | 2.66 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 20 | 2.66 | 0.29 | 2.45 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 20 | 2.66 | 0.24 | 2.64 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 20 | 2.66 | 0.13 | 2.65 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 20 | 2.66 | 0.13 | 2.65 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 20 | 2.66 | 0.31 | 2.88 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 2.66 | 0.96 | 2.96 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 20 | 2.66 | 0.94 | 2.29 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 20 | 2.66 | 0.5 | 2.48 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 2.66 | 0.19 | 2.61 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 20 | 2.66 | 0.24 | 2.62 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 20 | 2.66 | 0.24 | 2.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 20 | 2.65 | 0.74 | 2.42 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 20 | 2.65 | 0.29 | 2.46 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 20 | 2.65 | 0.29 | 2.46 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 2.65 | 0.88 | 2.32 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 2.65 | 0.88 | 2.32 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 2.65 | 0.88 | 2.32 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 2.65 | 0.88 | 2.32 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 2.65 | 0.88 | 2.32 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 2.65 | 0.88 | 2.32 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 20 | 2.65 | 0.62 | 2.6 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 20 | 2.65 | 0.62 | 2.6 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 20 | 2.65 | 0.62 | 2.6 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 20 | 2.65 | 0.62 | 2.6 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 20 | 2.65 | 0.62 | 2.6 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 20 | 2.65 | 0.62 | 2.6 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 20 | 2.65 | 0.62 | 2.6 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 20 | 2.65 | 0.62 | 2.6 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 20 | 2.65 | 0.62 | 2.6 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 20 | 2.65 | 0.62 | 2.6 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 20 | 2.65 | 0.62 | 2.6 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 20 | 2.65 | 0.62 | 2.6 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 20 | 2.65 | 0.62 | 2.6 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 20 | 2.65 | 0.62 | 2.6 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 20 | 2.65 | 0.62 | 2.6 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 20 | 2.65 | 0.62 | 2.6 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 20 | 2.65 | 0.62 | 2.6 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 20 | 2.65 | 0.62 | 2.6 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 20 | 2.65 | 1.46 | 2.47 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 20 | 2.65 | 1.46 | 2.47 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 20 | 2.65 | 1.46 | 2.47 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 2.65 | 1.46 | 2.47 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 2.65 | 1.46 | 2.47 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 2.65 | 1.46 | 2.47 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 20 | 2.65 | 0.19 | 2.68 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 20 | 2.65 | 0.48 | 2.74 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 20 | 2.65 | 0.48 | 2.74 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 20 | 2.65 | 0.48 | 2.74 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 20 | 2.65 | 0.16 | 2.65 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 20 | 2.65 | 0.2 | 2.66 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 20 | 2.65 | 0.08 | 2.63 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 20 | 2.65 | 0.08 | 2.63 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 2.64 | 0.5 | 2.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 2.64 | 0.5 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 2.64 | 0.5 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 2.64 | 0.5 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 2.64 | 0.5 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 2.64 | 0.5 | 2.5 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 20 | 2.64 | 0.22 | 2.6 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 20 | 2.64 | 0.22 | 2.6 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 2.64 | 0.92 | 2.5 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 2.64 | 0.92 | 2.5 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 2.64 | 0.92 | 2.5 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 2.64 | 0.38 | 2.54 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 20 | 2.64 | 1.18 | 2.64 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 2.64 | 1.2 | 2.59 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 2.64 | 1.2 | 2.59 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 2.64 | 1.2 | 2.59 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 2.64 | 1.2 | 2.59 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 2.64 | 1.2 | 2.59 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 2.64 | 1.2 | 2.59 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 20 | 2.64 | 1.09 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 20 | 2.64 | 1.09 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 20 | 2.64 | 1.09 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 20 | 2.64 | 1.09 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 20 | 2.64 | 1.09 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 20 | 2.64 | 1.09 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 20 | 2.64 | 1.09 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 20 | 2.64 | 1.09 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 20 | 2.64 | 1.09 | 1.9 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 20 | 2.64 | 0.15 | 2.62 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 20 | 2.64 | 0.44 | 2.74 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 20 | 2.64 | 0.15 | 2.62 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 20 | 2.64 | 0.14 | 2.64 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 20 | 2.64 | 0.14 | 2.64 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 20 | 2.64 | 0.73 | 2.51 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 20 | 2.64 | 0.73 | 2.51 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 20 | 2.64 | 0.73 | 2.51 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 2.64 | 0.43 | 2.72 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 20 | 2.64 | 0.53 | 2.48 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 20 | 2.64 | 0.23 | 2.66 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 20 | 2.64 | 0.34 | 2.62 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 2.64 | 0.71 | 2.67 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 20 | 2.64 | 0.33 | 2.68 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 20 | 2.63 | 0.74 | 2.54 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 2.63 | 0.96 | 2.3 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 2.63 | 0.96 | 2.3 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 2.63 | 0.82 | 2.78 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 20 | 2.63 | 0.36 | 2.55 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 20 | 2.63 | 0.36 | 2.55 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 20 | 2.63 | 0.29 | 2.63 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 20 | 2.63 | 0.49 | 2.44 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 20 | 2.63 | 0.49 | 2.44 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 20 | 2.63 | 0.33 | 2.78 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 20 | 2.63 | 0.81 | 2.19 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 20 | 2.63 | 1.15 | 2.26 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 2.63 | 1.15 | 2.26 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 20 | 2.63 | 1.15 | 2.26 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 2.63 | 1.15 | 2.26 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 20 | 2.63 | 1.15 | 2.26 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 2.63 | 1.15 | 2.26 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 20 | 2.63 | 0.31 | 2.84 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 20 | 2.63 | 0.24 | 2.66 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 20 | 2.63 | 0.24 | 2.66 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 20 | 2.63 | 0.2 | 2.65 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 20 | 2.63 | 0.2 | 2.65 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 20 | 2.63 | 0.03 | 2.63 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 20 | 2.63 | 0.03 | 2.63 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 2.63 | 1.4 | 3.34 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 20 | 2.62 | 0.21 | 2.54 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 20 | 2.62 | 0.31 | 2.87 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 20 | 2.62 | 1.87 | 2.04 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 20 | 2.62 | 1.87 | 2.04 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 20 | 2.62 | 1.87 | 2.04 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 20 | 2.62 | 0.63 | 2.48 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 20 | 2.62 | 0.31 | 2.84 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 20 | 2.62 | 1.15 | 2.46 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 20 | 2.62 | 1.15 | 2.46 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 20 | 2.62 | 1.15 | 2.46 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 20 | 2.62 | 0.55 | 2.41 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 20 | 2.62 | 0.55 | 2.41 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 20 | 2.62 | 0.55 | 2.41 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 20 | 2.62 | 0.55 | 2.41 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 20 | 2.62 | 0.18 | 2.52 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 20 | 2.62 | 0.25 | 2.76 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 20 | 2.62 | 0.3 | 2.48 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 20 | 2.62 | 0.26 | 2.58 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 20 | 2.62 | 0.26 | 2.58 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 20 | 2.62 | 0.26 | 2.58 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 20 | 2.62 | 0.26 | 2.58 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 20 | 2.62 | 0.26 | 2.58 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 20 | 2.62 | 0.26 | 2.58 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 20 | 2.62 | 0.75 | 2.41 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 20 | 2.62 | 0.75 | 2.41 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 20 | 2.62 | 0.75 | 2.41 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 20 | 2.62 | 0.59 | 2.38 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 20 | 2.62 | 0.59 | 2.38 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 20 | 2.62 | 0.27 | 2.68 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 20 | 2.62 | 0.27 | 2.68 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 20 | 2.61 | 0.08 | 2.58 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 20 | 2.61 | 0.28 | 2.42 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 2.61 | 0.89 | 2.34 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 2.61 | 0.89 | 2.34 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 20 | 2.61 | 0.29 | 2.51 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 20 | 2.61 | 0.29 | 2.51 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 20 | 2.61 | 0.29 | 2.51 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 20 | 2.61 | 0.29 | 2.51 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 2.61 | 0.98 | 2.4 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 20 | 2.61 | 0.26 | 2.74 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 20 | 2.61 | 1.04 | 2.2 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 20 | 2.61 | 1.0 | 2.86 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 20 | 2.61 | 1.0 | 2.86 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 20 | 2.61 | 1.0 | 2.86 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 20 | 2.61 | 1.0 | 2.86 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 20 | 2.61 | 1.0 | 2.86 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 20 | 2.61 | 1.0 | 2.86 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 20 | 2.61 | 0.4 | 2.35 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 20 | 2.61 | 0.4 | 2.35 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 20 | 2.61 | 0.4 | 2.35 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 20 | 2.61 | 0.4 | 2.35 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 20 | 2.61 | 0.4 | 2.35 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 20 | 2.61 | 0.4 | 2.35 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 2.6 | 1.26 | 2.64 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 2.6 | 1.26 | 2.64 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 2.6 | 1.26 | 2.64 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 2.6 | 1.26 | 2.64 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 2.6 | 1.26 | 2.64 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 2.6 | 1.26 | 2.64 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 20 | 2.6 | 0.31 | 2.56 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 20 | 2.6 | 0.36 | 2.55 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 20 | 2.6 | 0.36 | 2.55 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 20 | 2.6 | 0.61 | 2.44 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 20 | 2.6 | 0.61 | 2.44 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 20 | 2.6 | 0.61 | 2.44 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 20 | 2.6 | 0.61 | 2.44 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 20 | 2.6 | 0.61 | 2.44 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 20 | 2.6 | 0.61 | 2.44 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 2.6 | 0.25 | 2.62 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 20 | 2.6 | 0.17 | 2.55 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 20 | 2.6 | 0.34 | 2.49 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 20 | 2.6 | 0.21 | 2.54 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 20 | 2.6 | 0.61 | 2.37 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 20 | 2.6 | 0.61 | 2.37 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 20 | 2.6 | 0.61 | 2.37 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 20 | 2.6 | 0.61 | 2.37 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 20 | 2.6 | 0.61 | 2.37 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 20 | 2.6 | 0.61 | 2.37 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 20 | 2.6 | 0.11 | 2.6 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 20 | 2.6 | 0.11 | 2.6 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 20 | 2.6 | 1.27 | 2.56 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 20 | 2.6 | 1.27 | 2.56 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 20 | 2.6 | 1.27 | 2.56 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 20 | 2.6 | 0.26 | 2.47 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 20 | 2.59 | 0.84 | 2.32 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 20 | 2.59 | 0.14 | 2.6 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 20 | 2.59 | 0.26 | 2.61 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 20 | 2.59 | 0.14 | 2.6 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 20 | 2.59 | 0.34 | 2.5 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 20 | 2.59 | 0.34 | 2.5 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 20 | 2.59 | 0.34 | 2.5 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 20 | 2.59 | 0.09 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 20 | 2.59 | 0.09 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 20 | 2.59 | 0.09 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 20 | 2.59 | 0.09 | 2.62 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 2.59 | 0.46 | 2.54 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 2.59 | 0.46 | 2.54 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 2.59 | 0.46 | 2.54 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 20 | 2.59 | 0.5 | 2.54 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 20 | 2.59 | 0.43 | 2.34 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 20 | 2.59 | 0.43 | 2.34 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 20 | 2.59 | 0.43 | 2.34 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 20 | 2.59 | 0.43 | 2.34 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 20 | 2.58 | 0.52 | 2.74 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 20 | 2.58 | 0.32 | 2.37 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 2.58 | 0.39 | 2.52 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 2.58 | 0.39 | 2.52 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 20 | 2.58 | 0.24 | 2.66 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 20 | 2.58 | 1.12 | 2.38 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 20 | 2.58 | 1.12 | 2.38 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 20 | 2.58 | 1.12 | 2.38 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 20 | 2.58 | 0.35 | 2.5 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 20 | 2.58 | 0.35 | 2.5 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 2.58 | 0.67 | 2.55 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 2.58 | 0.67 | 2.55 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 20 | 2.58 | 0.35 | 2.5 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 20 | 2.58 | 0.35 | 2.5 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 20 | 2.58 | 0.18 | 2.54 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 20 | 2.58 | 0.18 | 2.54 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 20 | 2.58 | 0.18 | 2.54 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 20 | 2.58 | 0.18 | 2.54 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 20 | 2.58 | 0.18 | 2.54 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 20 | 2.58 | 0.18 | 2.54 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 20 | 2.58 | 0.18 | 2.54 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 20 | 2.58 | 0.2 | 2.64 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 20 | 2.58 | 0.26 | 2.51 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 20 | 2.58 | 0.26 | 2.51 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 20 | 2.58 | 0.16 | 2.54 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 2.58 | 1.18 | 2.67 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 20 | 2.57 | 0.28 | 2.52 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 2.57 | 0.56 | 2.44 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 2.57 | 0.56 | 2.44 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 2.57 | 0.56 | 2.44 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 2.57 | 0.56 | 2.44 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 2.57 | 0.56 | 2.44 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 2.57 | 0.56 | 2.44 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 20 | 2.57 | 0.13 | 2.53 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 20 | 2.57 | 0.65 | 2.38 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 20 | 2.57 | 0.65 | 2.38 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 20 | 2.57 | 0.65 | 2.38 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 20 | 2.57 | 0.56 | 2.41 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 20 | 2.57 | 0.2 | 2.6 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 20 | 2.57 | 0.18 | 2.52 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 20 | 2.56 | 0.88 | 2.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 20 | 2.56 | 0.88 | 2.8 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 20 | 2.56 | 0.88 | 2.8 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 20 | 2.56 | 0.88 | 2.8 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 20 | 2.56 | 0.88 | 2.8 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 20 | 2.56 | 0.88 | 2.8 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 20 | 2.56 | 0.34 | 2.45 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 2.56 | 0.34 | 2.45 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 20 | 2.56 | 0.62 | 2.33 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 20 | 2.56 | 0.62 | 2.33 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 20 | 2.56 | 0.62 | 2.33 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 20 | 2.56 | 0.62 | 2.33 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.56 | 0.6 | 2.52 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.56 | 0.6 | 2.52 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.56 | 0.6 | 2.52 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 20 | 2.56 | 0.28 | 2.54 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 20 | 2.56 | 1.32 | 2.41 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 20 | 2.56 | 1.32 | 2.41 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 20 | 2.56 | 1.32 | 2.41 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 20 | 2.56 | 0.31 | 2.3 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 20 | 2.56 | 0.34 | 2.51 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 20 | 2.56 | 0.39 | 2.58 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 20 | 2.56 | 0.47 | 2.38 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 20 | 2.56 | 1.06 | 2.84 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 2.56 | 1.06 | 2.84 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 20 | 2.56 | 1.2 | 2.2 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 20 | 2.56 | 0.26 | 2.66 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 20 | 2.56 | 0.87 | 2.28 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 20 | 2.55 | 0.28 | 2.61 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 20 | 2.55 | 0.28 | 2.61 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 20 | 2.55 | 0.5 | 2.37 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 2.55 | 0.96 | 2.34 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 2.55 | 0.96 | 2.34 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 2.55 | 0.96 | 2.34 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 2.55 | 0.96 | 2.34 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 20 | 2.55 | 0.21 | 2.4 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 20 | 2.55 | 0.43 | 2.36 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 20 | 2.55 | 0.43 | 2.36 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 20 | 2.55 | 0.43 | 2.36 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 20 | 2.55 | 0.26 | 2.54 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 20 | 2.55 | 0.45 | 2.38 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 20 | 2.55 | 0.45 | 2.38 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 2.55 | 0.87 | 2.47 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 20 | 2.55 | 0.87 | 2.47 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 2.55 | 0.99 | 2.5 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 2.55 | 0.99 | 2.5 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 2.55 | 0.99 | 2.5 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 20 | 2.55 | 0.8 | 1.98 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 20 | 2.55 | 0.8 | 1.98 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 20 | 2.55 | 0.8 | 1.98 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 20 | 2.55 | 0.8 | 1.98 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 20 | 2.54 | 0.33 | 2.44 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 20 | 2.54 | 0.33 | 2.44 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 20 | 2.54 | 0.12 | 2.52 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 20 | 2.54 | 0.12 | 2.52 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 20 | 2.54 | 0.28 | 2.34 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 20 | 2.54 | 1.5 | 2.07 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 20 | 2.54 | 1.5 | 2.07 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 20 | 2.54 | 0.33 | 2.54 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 2.54 | 0.54 | 2.54 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 20 | 2.54 | 0.28 | 2.54 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 20 | 2.54 | 0.68 | 2.34 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 20 | 2.54 | 0.34 | 2.46 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 20 | 2.54 | 0.34 | 2.46 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 20 | 2.54 | 0.34 | 2.46 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 2.54 | 0.69 | 2.58 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 2.54 | 0.69 | 2.58 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 2.54 | 0.69 | 2.58 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 20 | 2.54 | 0.19 | 2.5 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 20 | 2.54 | 0.19 | 2.5 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 20 | 2.54 | 0.19 | 2.5 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 20 | 2.53 | 0.08 | 2.5 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 20 | 2.53 | 0.08 | 2.5 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 20 | 2.53 | 0.24 | 2.46 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 20 | 2.53 | 0.17 | 2.5 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 20 | 2.53 | 0.72 | 2.23 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 20 | 2.53 | 0.72 | 2.23 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 20 | 2.53 | 0.72 | 2.23 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 20 | 2.53 | 0.72 | 2.23 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 20 | 2.53 | 0.17 | 2.51 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 20 | 2.53 | 0.17 | 2.51 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 20 | 2.53 | 0.17 | 2.51 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 20 | 2.53 | 0.17 | 2.51 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 20 | 2.53 | 0.17 | 2.51 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 20 | 2.53 | 0.17 | 2.51 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 20 | 2.53 | 0.14 | 2.55 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 20 | 2.53 | 0.14 | 2.55 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 20 | 2.53 | 0.13 | 2.51 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 2.53 | 1.23 | 2.78 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 20 | 2.53 | 0.25 | 2.47 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 20 | 2.53 | 0.26 | 2.41 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 20 | 2.53 | 0.26 | 2.41 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 20 | 2.52 | 0.16 | 2.56 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 20 | 2.52 | 0.36 | 2.38 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 20 | 2.52 | 0.36 | 2.38 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 2.52 | 0.12 | 2.54 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 20 | 2.52 | 0.7 | 2.52 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 20 | 2.52 | 0.7 | 2.52 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 20 | 2.52 | 0.58 | 2.2 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 20 | 2.52 | 0.16 | 2.46 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 2.52 | 0.25 | 2.48 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 20 | 2.52 | 0.27 | 2.42 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 20 | 2.52 | 0.27 | 2.42 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 20 | 2.52 | 0.27 | 2.42 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 20 | 2.52 | 0.16 | 2.48 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 20 | 2.52 | 0.18 | 2.54 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 20 | 2.52 | 0.18 | 2.54 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 20 | 2.51 | 0.16 | 2.48 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 20 | 2.51 | 0.17 | 2.47 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 20 | 2.51 | 0.16 | 2.48 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 2.51 | 0.76 | 2.59 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 20 | 2.51 | 0.18 | 2.47 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 20 | 2.51 | 0.18 | 2.47 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 20 | 2.51 | 0.25 | 2.46 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 20 | 2.51 | 0.25 | 2.46 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 20 | 2.51 | 0.26 | 2.58 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 20 | 2.51 | 0.26 | 2.58 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 20 | 2.51 | 0.86 | 1.92 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 20 | 2.51 | 0.86 | 1.92 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 20 | 2.51 | 0.86 | 1.92 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 20 | 2.51 | 0.86 | 1.92 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 20 | 2.51 | 0.03 | 2.52 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 20 | 2.51 | 0.03 | 2.52 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 20 | 2.51 | 0.37 | 2.34 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 20 | 2.51 | 0.37 | 2.34 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 20 | 2.51 | 0.35 | 2.45 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 20 | 2.51 | 0.35 | 2.45 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 20 | 2.51 | 0.35 | 2.45 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 20 | 2.51 | 0.5 | 2.2 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 20 | 2.51 | 0.5 | 2.2 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 20 | 2.51 | 0.5 | 2.2 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 20 | 2.51 | 0.35 | 2.45 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 20 | 2.51 | 0.35 | 2.45 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 20 | 2.51 | 0.35 | 2.45 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 20 | 2.51 | 0.5 | 2.2 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 20 | 2.51 | 0.5 | 2.2 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 20 | 2.51 | 0.5 | 2.2 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 20 | 2.51 | 2.19 | 2.1 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 20 | 2.51 | 0.04 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 20 | 2.51 | 0.04 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 20 | 2.51 | 0.04 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 20 | 2.51 | 0.04 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 20 | 2.51 | 0.04 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 20 | 2.51 | 0.04 | 2.5 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 2.51 | 0.15 | 2.46 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 2.51 | 0.15 | 2.46 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 2.51 | 0.15 | 2.46 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 2.51 | 0.15 | 2.46 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 2.5 | 0.57 | 2.42 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 2.5 | 0.57 | 2.42 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 2.5 | 0.57 | 2.42 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 20 | 2.5 | 0.25 | 2.41 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 20 | 2.5 | 0.25 | 2.41 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 20 | 2.5 | 0.65 | 2.26 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 20 | 2.5 | 0.65 | 2.26 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 20 | 2.5 | 0.65 | 2.26 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 20 | 2.5 | 0.65 | 2.26 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 20 | 2.5 | 0.65 | 2.26 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 20 | 2.5 | 0.65 | 2.26 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 20 | 2.5 | 0.65 | 2.26 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 20 | 2.5 | 0.65 | 2.26 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 20 | 2.5 | 0.65 | 2.26 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 20 | 2.5 | 0.3 | 2.42 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 20 | 2.5 | 0.3 | 2.42 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 20 | 2.5 | 0.89 | 2.42 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 20 | 2.5 | 0.89 | 2.42 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 20 | 2.5 | 1.02 | 2.58 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 20 | 2.5 | 1.02 | 2.58 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 20 | 2.5 | 1.02 | 2.58 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 20 | 2.5 | 0.41 | 2.49 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 20 | 2.5 | 0.41 | 2.49 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 20 | 2.5 | 0.38 | 2.45 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 2.5 | 0.38 | 2.45 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 20 | 2.5 | 0.22 | 2.48 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 20 | 2.5 | 0.22 | 2.48 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 20 | 2.5 | 0.22 | 2.48 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 20 | 2.5 | 0.22 | 2.48 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 20 | 2.49 | 0.03 | 2.49 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 20 | 2.49 | 0.03 | 2.49 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 20 | 2.49 | 0.13 | 2.51 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 20 | 2.49 | 0.13 | 2.51 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 20 | 2.49 | 0.31 | 2.48 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 20 | 2.49 | 0.31 | 2.48 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 20 | 2.49 | 0.31 | 2.48 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 20 | 2.49 | 0.65 | 2.12 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 20 | 2.49 | 0.65 | 2.12 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 20 | 2.49 | 0.22 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 20 | 2.49 | 0.16 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 20 | 2.49 | 0.16 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 20 | 2.49 | 0.16 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 20 | 2.49 | 0.16 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 20 | 2.49 | 0.16 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 20 | 2.49 | 0.16 | 2.46 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 20 | 2.49 | 1.04 | 2.02 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 20 | 2.49 | 1.04 | 2.02 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 20 | 2.49 | 1.04 | 2.02 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 20 | 2.49 | 1.04 | 2.02 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 20 | 2.49 | 1.04 | 2.02 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 20 | 2.49 | 1.04 | 2.02 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 20 | 2.49 | 0.55 | 2.2 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 20 | 2.49 | 0.55 | 2.2 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 20 | 2.49 | 0.55 | 2.2 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 20 | 2.49 | 0.55 | 2.2 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 20 | 2.49 | 0.78 | 2.28 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 2.49 | 1.04 | 2.46 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 20 | 2.49 | 0.34 | 2.38 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 20 | 2.49 | 0.34 | 2.38 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 20 | 2.49 | 0.16 | 2.5 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 20 | 2.49 | 0.22 | 2.38 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 20 | 2.49 | 0.22 | 2.38 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 20 | 2.49 | 1.53 | 1.6 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 2.49 | 0.29 | 2.38 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 2.49 | 0.29 | 2.38 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 2.49 | 0.29 | 2.38 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 2.49 | 0.29 | 2.38 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 20 | 2.49 | 0.23 | 2.45 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 20 | 2.49 | 0.23 | 2.45 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 20 | 2.49 | 0.41 | 2.24 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 20 | 2.49 | 0.41 | 2.24 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 20 | 2.49 | 0.23 | 2.45 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 20 | 2.49 | 0.23 | 2.45 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 20 | 2.49 | 0.41 | 2.24 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 20 | 2.49 | 0.41 | 2.24 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 20 | 2.48 | 0.07 | 2.5 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 20 | 2.48 | 0.07 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 20 | 2.48 | 0.03 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 20 | 2.48 | 0.03 | 2.49 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 2.48 | 0.76 | 2.34 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 20 | 2.48 | 0.39 | 2.36 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 20 | 2.48 | 0.39 | 2.36 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 20 | 2.48 | 0.79 | 2.26 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 20 | 2.48 | 0.79 | 2.26 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 20 | 2.48 | 0.79 | 2.26 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 20 | 2.48 | 0.36 | 2.35 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 20 | 2.48 | 0.36 | 2.35 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 20 | 2.48 | 0.36 | 2.35 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 20 | 2.48 | 0.31 | 2.52 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 20 | 2.48 | 2.0 | 1.96 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 20 | 2.48 | 0.18 | 2.42 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 20 | 2.48 | 0.18 | 2.42 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 20 | 2.48 | 0.18 | 2.42 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 20 | 2.48 | 0.18 | 2.42 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 20 | 2.48 | 0.18 | 2.42 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 20 | 2.48 | 0.18 | 2.42 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 20 | 2.48 | 0.92 | 2.33 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 20 | 2.48 | 0.25 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 20 | 2.48 | 0.25 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 20 | 2.48 | 0.25 | 2.43 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 20 | 2.48 | 0.93 | 1.92 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 20 | 2.48 | 0.93 | 1.92 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 20 | 2.48 | 0.93 | 1.92 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 20 | 2.48 | 0.57 | 2.48 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 20 | 2.48 | 0.57 | 2.48 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 20 | 2.48 | 0.57 | 2.48 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 20 | 2.48 | 0.07 | 2.5 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 20 | 2.48 | 0.07 | 2.5 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 2.48 | 1.02 | 2.36 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 2.48 | 1.02 | 2.36 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 2.48 | 1.02 | 2.36 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 2.48 | 1.02 | 2.36 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 20 | 2.48 | 0.11 | 2.43 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 20 | 2.47 | 0.7 | 2.5 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 20 | 2.47 | 0.7 | 2.5 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 20 | 2.47 | 0.7 | 2.5 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 2.47 | 0.35 | 2.48 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 2.47 | 0.35 | 2.48 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 2.47 | 0.35 | 2.48 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 2.47 | 0.35 | 2.48 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 2.47 | 0.35 | 2.48 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 2.47 | 0.35 | 2.48 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 20 | 2.47 | 0.26 | 2.36 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 20 | 2.47 | 0.26 | 2.36 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 20 | 2.47 | 0.46 | 2.22 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 20 | 2.47 | 0.46 | 2.22 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 20 | 2.47 | 0.33 | 2.6 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 20 | 2.47 | 0.06 | 2.48 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 20 | 2.47 | 0.06 | 2.48 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 20 | 2.47 | 0.13 | 2.44 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 2.47 | 0.47 | 2.42 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 20 | 2.47 | 0.22 | 2.54 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 20 | 2.47 | 0.23 | 2.4 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 20 | 2.47 | 0.25 | 2.48 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 20 | 2.46 | 0.59 | 2.34 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 2.46 | 0.77 | 2.49 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 2.46 | 0.77 | 2.49 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.46 | 0.6 | 2.42 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.46 | 0.6 | 2.42 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.46 | 0.6 | 2.42 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 2.46 | 0.74 | 2.37 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 2.46 | 0.74 | 2.37 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 2.46 | 0.74 | 2.37 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 2.46 | 0.74 | 2.37 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 2.46 | 0.74 | 2.37 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 2.46 | 0.74 | 2.37 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 20 | 2.46 | 0.11 | 2.52 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 20 | 2.46 | 0.11 | 2.52 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 20 | 2.46 | 0.05 | 2.46 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 20 | 2.46 | 0.05 | 2.46 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 2.46 | 0.62 | 2.51 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 2.46 | 0.62 | 2.51 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 2.46 | 0.62 | 2.51 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 20 | 2.46 | 0.37 | 2.61 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 20 | 2.46 | 0.37 | 2.61 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 20 | 2.46 | 0.22 | 2.42 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 2.46 | 0.54 | 2.34 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 20 | 2.46 | 0.54 | 2.34 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 20 | 2.46 | 0.09 | 2.48 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 20 | 2.46 | 0.24 | 2.38 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 20 | 2.46 | 0.24 | 2.38 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 20 | 2.46 | 0.17 | 2.39 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 20 | 2.46 | 0.17 | 2.39 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 20 | 2.46 | 0.17 | 2.39 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 20 | 2.46 | 0.8 | 2.49 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 20 | 2.46 | 0.8 | 2.49 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 20 | 2.46 | 0.8 | 2.49 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 20 | 2.45 | 0.07 | 2.46 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 20 | 2.45 | 0.07 | 2.46 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 2.45 | 1.12 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 2.45 | 1.12 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 2.45 | 1.12 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 2.45 | 1.12 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 2.45 | 1.12 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 2.45 | 1.12 | 2.44 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 2.45 | 0.35 | 2.41 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 2.45 | 0.35 | 2.41 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 2.45 | 0.97 | 2.36 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 2.45 | 0.97 | 2.36 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 2.45 | 0.97 | 2.36 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 20 | 2.45 | 0.21 | 2.43 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 20 | 2.45 | 0.15 | 2.5 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 20 | 2.45 | 0.15 | 2.5 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 20 | 2.45 | 0.34 | 2.35 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 20 | 2.45 | 0.34 | 2.35 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 20 | 2.45 | 0.34 | 2.35 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 20 | 2.45 | 0.34 | 2.35 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 2.45 | 0.68 | 2.41 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 2.45 | 0.68 | 2.41 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 2.45 | 0.68 | 2.41 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 20 | 2.45 | 0.25 | 2.49 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 20 | 2.45 | 0.21 | 2.5 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 20 | 2.45 | 0.34 | 2.34 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 20 | 2.45 | 0.34 | 2.34 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 20 | 2.45 | 0.21 | 2.5 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 20 | 2.45 | 0.34 | 2.34 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 20 | 2.45 | 0.34 | 2.34 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 20 | 2.44 | 0.26 | 2.28 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 2.44 | 0.57 | 2.38 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 2.44 | 0.57 | 2.38 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 20 | 2.44 | 0.38 | 2.46 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 2.44 | 0.33 | 2.45 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 2.44 | 0.33 | 2.45 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 2.44 | 0.33 | 2.45 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 2.44 | 0.33 | 2.45 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 20 | 2.44 | 0.12 | 2.41 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 20 | 2.44 | 0.12 | 2.41 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 2.44 | 0.83 | 2.16 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 20 | 2.44 | 0.27 | 2.28 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 20 | 2.44 | 0.55 | 2.12 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 20 | 2.44 | 0.55 | 2.12 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 20 | 2.44 | 0.55 | 2.12 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 20 | 2.44 | 0.55 | 2.12 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 20 | 2.44 | 0.55 | 2.12 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 20 | 2.44 | 0.55 | 2.12 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 20 | 2.44 | 0.14 | 2.43 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 20 | 2.44 | 0.14 | 2.43 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 2.44 | 0.53 | 2.67 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 20 | 2.44 | 0.12 | 2.46 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 20 | 2.44 | 0.12 | 2.46 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 20 | 2.44 | 0.14 | 2.43 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 20 | 2.44 | 0.14 | 2.43 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 20 | 2.44 | 1.32 | 1.98 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 20 | 2.44 | 0.3 | 2.47 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 20 | 2.44 | 0.3 | 2.47 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 20 | 2.44 | 0.3 | 2.47 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 20 | 2.44 | 0.04 | 2.43 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 20 | 2.44 | 0.04 | 2.43 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 20 | 2.44 | 0.04 | 2.43 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 20 | 2.44 | 0.27 | 2.32 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 20 | 2.44 | 0.04 | 2.43 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 20 | 2.44 | 0.04 | 2.43 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 20 | 2.44 | 0.04 | 2.43 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 20 | 2.44 | 0.19 | 2.45 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 20 | 2.44 | 0.19 | 2.45 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 2.44 | 0.7 | 2.22 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 2.43 | 0.09 | 2.41 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 2.43 | 0.09 | 2.41 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 2.43 | 0.09 | 2.41 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 2.43 | 0.09 | 2.41 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 2.43 | 0.09 | 2.41 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 2.43 | 0.09 | 2.41 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 20 | 2.43 | 0.12 | 2.42 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 20 | 2.43 | 0.12 | 2.42 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 20 | 2.43 | 0.12 | 2.42 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 20 | 2.43 | 0.12 | 2.42 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 20 | 2.43 | 0.12 | 2.42 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 20 | 2.43 | 0.12 | 2.42 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 2.43 | 0.12 | 2.48 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 2.43 | 0.12 | 2.48 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 20 | 2.43 | 0.1 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 20 | 2.43 | 0.1 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 20 | 2.43 | 0.1 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 20 | 2.43 | 0.1 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 20 | 2.43 | 0.1 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 20 | 2.43 | 0.1 | 2.41 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 20 | 2.43 | 0.06 | 2.45 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 20 | 2.43 | 0.06 | 2.45 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 20 | 2.43 | 0.15 | 2.44 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 20 | 2.43 | 0.15 | 2.44 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 20 | 2.43 | 0.11 | 2.46 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 20 | 2.43 | 0.49 | 2.22 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 20 | 2.43 | 0.04 | 2.41 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 20 | 2.43 | 0.04 | 2.41 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 20 | 2.43 | 0.26 | 2.34 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 20 | 2.43 | 0.26 | 2.34 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 20 | 2.43 | 0.26 | 2.34 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 20 | 2.43 | 0.26 | 2.34 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 20 | 2.43 | 0.26 | 2.34 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 20 | 2.43 | 0.26 | 2.34 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 20 | 2.42 | 0.45 | 2.19 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 20 | 2.42 | 0.29 | 2.32 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 20 | 2.42 | 0.29 | 2.32 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 20 | 2.42 | 0.2 | 2.46 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 20 | 2.42 | 0.44 | 2.4 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 20 | 2.42 | 0.44 | 2.4 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 2.42 | 0.74 | 2.73 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 2.42 | 0.74 | 2.73 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 20 | 2.42 | 0.2 | 2.42 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 20 | 2.42 | 0.2 | 2.42 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 20 | 2.42 | 0.2 | 2.42 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 20 | 2.42 | 0.66 | 2.36 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 20 | 2.42 | 0.66 | 2.36 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 20 | 2.42 | 0.66 | 2.36 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 2.42 | 1.29 | 2.37 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 2.42 | 1.29 | 2.37 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 2.42 | 1.29 | 2.37 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 20 | 2.42 | 0.3 | 2.34 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 2.42 | 1.22 | 2.06 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 2.42 | 1.22 | 2.06 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 2.42 | 1.22 | 2.06 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 20 | 2.42 | 0.11 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 20 | 2.42 | 0.11 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 20 | 2.42 | 0.11 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 20 | 2.42 | 0.11 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 20 | 2.42 | 0.11 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 20 | 2.42 | 0.11 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 20 | 2.42 | 0.11 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 20 | 2.42 | 0.11 | 2.37 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 20 | 2.41 | 0.12 | 2.44 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 20 | 2.41 | 0.12 | 2.44 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 20 | 2.41 | 0.09 | 2.41 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 20 | 2.41 | 0.09 | 2.41 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 2.41 | 1.17 | 2.98 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 20 | 2.41 | 0.25 | 2.29 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 20 | 2.41 | 0.25 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 20 | 2.41 | 0.71 | 2.08 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 20 | 2.41 | 0.71 | 2.08 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 20 | 2.41 | 0.71 | 2.08 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 20 | 2.41 | 0.71 | 2.08 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 20 | 2.41 | 0.71 | 2.08 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 20 | 2.41 | 0.71 | 2.08 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 20 | 2.41 | 0.71 | 2.08 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 20 | 2.41 | 0.71 | 2.08 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 20 | 2.41 | 0.71 | 2.08 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 20 | 2.41 | 0.2 | 2.33 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 20 | 2.41 | 0.29 | 2.4 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 20 | 2.41 | 0.29 | 2.4 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 20 | 2.41 | 0.29 | 2.4 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 20 | 2.41 | 0.29 | 2.4 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 20 | 2.41 | 0.4 | 2.22 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 20 | 2.41 | 0.4 | 2.22 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 20 | 2.41 | 0.4 | 2.22 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 20 | 2.41 | 0.4 | 2.22 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 20 | 2.41 | 0.4 | 2.22 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 20 | 2.41 | 0.4 | 2.22 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 20 | 2.41 | 0.11 | 2.36 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 20 | 2.41 | 0.11 | 2.36 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 20 | 2.41 | 0.32 | 2.24 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 20 | 2.41 | 0.32 | 2.24 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 20 | 2.4 | 0.2 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 20 | 2.4 | 0.2 | 2.27 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 20 | 2.4 | 0.7 | 2.38 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 20 | 2.4 | 0.74 | 2.42 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 20 | 2.4 | 0.74 | 2.42 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 20 | 2.4 | 0.74 | 2.42 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 20 | 2.4 | 0.7 | 2.3 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 20 | 2.4 | 0.7 | 2.3 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 20 | 2.4 | 0.7 | 2.3 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 2.4 | 0.53 | 2.34 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 2.4 | 0.53 | 2.34 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 2.4 | 0.53 | 2.34 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 20 | 2.4 | 0.1 | 2.38 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 20 | 2.4 | 0.1 | 2.38 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 20 | 2.4 | 0.1 | 2.38 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 20 | 2.4 | 0.13 | 2.41 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 2.4 | 0.13 | 2.41 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 20 | 2.4 | 0.13 | 2.41 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 2.4 | 0.13 | 2.41 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 20 | 2.4 | 0.11 | 2.42 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 20 | 2.4 | 0.11 | 2.42 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 20 | 2.4 | 0.09 | 2.45 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 20 | 2.4 | 0.09 | 2.45 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 20 | 2.4 | 0.09 | 2.45 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 20 | 2.4 | 0.09 | 2.45 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 20 | 2.4 | 0.11 | 2.42 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 20 | 2.4 | 0.16 | 2.37 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 20 | 2.4 | 0.16 | 2.37 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 20 | 2.4 | 0.16 | 2.37 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 20 | 2.39 | 0.1 | 2.45 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 20 | 2.39 | 0.1 | 2.45 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 20 | 2.39 | 0.95 | 1.93 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 20 | 2.39 | 0.22 | 2.32 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 20 | 2.39 | 0.22 | 2.32 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 20 | 2.39 | 0.22 | 2.32 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 20 | 2.39 | 0.22 | 2.32 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 20 | 2.39 | 0.64 | 2.3 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 20 | 2.39 | 0.64 | 2.3 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 20 | 2.39 | 0.77 | 2.45 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 20 | 2.39 | 0.77 | 2.45 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 20 | 2.39 | 0.77 | 2.45 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 2.38 | 0.71 | 2.33 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 20 | 2.38 | 0.71 | 2.33 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 2.38 | 0.11 | 2.36 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 2.38 | 0.11 | 2.36 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 2.38 | 0.69 | 2.26 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 2.38 | 0.69 | 2.26 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 2.38 | 0.69 | 2.26 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 2.38 | 0.64 | 2.5 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 20 | 2.38 | 0.08 | 2.4 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 20 | 2.38 | 0.08 | 2.4 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 20 | 2.38 | 0.34 | 2.38 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 20 | 2.38 | 0.34 | 2.38 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 20 | 2.38 | 0.86 | 2.13 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 20 | 2.38 | 0.8 | 1.98 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 20 | 2.38 | 0.8 | 1.98 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 20 | 2.38 | 1.18 | 1.98 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 20 | 2.38 | 1.18 | 1.98 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 20 | 2.38 | 1.18 | 1.98 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 20 | 2.38 | 1.18 | 1.98 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 20 | 2.38 | 1.18 | 1.98 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 20 | 2.38 | 1.18 | 1.98 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 20 | 2.38 | 1.18 | 1.98 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 20 | 2.38 | 1.18 | 1.98 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 20 | 2.38 | 1.18 | 1.98 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 20 | 2.38 | 0.36 | 2.25 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 20 | 2.38 | 0.36 | 2.25 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 20 | 2.38 | 0.43 | 2.48 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 20 | 2.38 | 0.43 | 2.48 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 20 | 2.38 | 2.3 | 0.94 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 20 | 2.38 | 1.97 | 1.2 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 20 | 2.38 | 0.24 | 2.3 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 20 | 2.38 | 0.24 | 2.3 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 20 | 2.38 | 0.24 | 2.3 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 20 | 2.38 | 0.24 | 2.3 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 20 | 2.38 | 0.1 | 2.34 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 20 | 2.38 | 0.1 | 2.34 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 20 | 2.38 | 0.09 | 2.4 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 20 | 2.38 | 0.09 | 2.4 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 20 | 2.38 | 1.45 | 2.38 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 20 | 2.38 | 1.45 | 2.38 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 20 | 2.38 | 1.45 | 2.38 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 20 | 2.38 | 1.45 | 2.38 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 20 | 2.38 | 1.45 | 2.38 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 20 | 2.38 | 1.45 | 2.38 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 20 | 2.37 | 0.3 | 2.34 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 20 | 2.37 | 0.3 | 2.34 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 20 | 2.37 | 0.3 | 2.34 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 20 | 2.37 | 0.3 | 2.34 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 20 | 2.37 | 0.3 | 2.34 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 20 | 2.37 | 0.3 | 2.34 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 20 | 2.37 | 0.24 | 2.28 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 20 | 2.37 | 0.4 | 2.19 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 20 | 2.37 | 0.4 | 2.19 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 2.37 | 0.51 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 2.37 | 0.51 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 2.37 | 0.51 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 2.37 | 0.51 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 2.37 | 0.51 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 2.37 | 0.51 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 2.37 | 0.51 | 2.33 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 2.37 | 0.51 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 2.37 | 0.51 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 2.37 | 0.51 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 2.37 | 0.51 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 2.37 | 0.51 | 2.33 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 20 | 2.37 | 0.71 | 2.0 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 20 | 2.37 | 0.71 | 2.0 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 20 | 2.37 | 0.71 | 2.0 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 20 | 2.37 | 0.71 | 2.0 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 20 | 2.37 | 0.71 | 2.0 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 20 | 2.37 | 0.71 | 2.0 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 20 | 2.37 | 0.14 | 2.34 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 20 | 2.37 | 0.14 | 2.34 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 20 | 2.37 | 0.14 | 2.34 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 20 | 2.37 | 0.14 | 2.34 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 2.37 | 0.43 | 2.54 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 2.37 | 0.22 | 2.35 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 2.37 | 0.22 | 2.35 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 2.37 | 0.22 | 2.35 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 2.37 | 0.22 | 2.35 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 2.37 | 0.57 | 2.16 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 2.37 | 0.57 | 2.16 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 2.37 | 0.57 | 2.16 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 20 | 2.37 | 0.21 | 2.28 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 20 | 2.37 | 0.21 | 2.28 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 20 | 2.37 | 0.67 | 2.37 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 20 | 2.37 | 0.67 | 2.37 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 20 | 2.37 | 0.67 | 2.37 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 20 | 2.37 | 0.82 | 2.28 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 20 | 2.36 | 0.1 | 2.36 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 2.36 | 0.1 | 2.36 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 20 | 2.36 | 0.19 | 2.28 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 2.36 | 0.83 | 2.24 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 2.36 | 0.83 | 2.24 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 20 | 2.36 | 0.37 | 2.25 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 20 | 2.36 | 1.76 | 1.56 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 20 | 2.36 | 1.15 | 2.02 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 20 | 2.36 | 0.15 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 20 | 2.36 | 0.15 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 20 | 2.36 | 0.15 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 20 | 2.36 | 0.15 | 2.27 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 20 | 2.36 | 0.58 | 2.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 20 | 2.36 | 0.19 | 2.3 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 20 | 2.36 | 0.19 | 2.3 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 20 | 2.36 | 0.19 | 2.3 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 20 | 2.36 | 0.19 | 2.3 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 20 | 2.36 | 0.19 | 2.3 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 20 | 2.36 | 0.19 | 2.3 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 2.36 | 0.84 | 2.08 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 2.36 | 0.84 | 2.08 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 2.36 | 0.84 | 2.08 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 2.36 | 0.84 | 2.08 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 2.36 | 0.84 | 2.08 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 2.36 | 0.84 | 2.08 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 20 | 2.36 | 0.11 | 2.39 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 20 | 2.36 | 0.11 | 2.39 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 20 | 2.36 | 1.26 | 1.83 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 20 | 2.36 | 0.75 | 2.44 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 20 | 2.36 | 0.16 | 2.31 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 20 | 2.36 | 0.16 | 2.31 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 20 | 2.36 | 0.16 | 2.31 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 20 | 2.36 | 0.16 | 2.31 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 20 | 2.36 | 0.13 | 2.3 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 20 | 2.36 | 0.13 | 2.3 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 20 | 2.36 | 0.13 | 2.3 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 20 | 2.36 | 0.13 | 2.3 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 20 | 2.36 | 0.07 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 20 | 2.36 | 0.07 | 2.35 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 20 | 2.36 | 0.17 | 2.35 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 20 | 2.36 | 0.17 | 2.35 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 2.35 | 0.22 | 2.35 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 2.35 | 0.22 | 2.35 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 20 | 2.35 | 0.11 | 2.37 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 20 | 2.35 | 0.11 | 2.37 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 20 | 2.35 | 0.05 | 2.36 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 20 | 2.35 | 0.05 | 2.36 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 20 | 2.35 | 0.05 | 2.36 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 20 | 2.35 | 0.28 | 2.24 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 20 | 2.35 | 0.28 | 2.24 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 20 | 2.35 | 0.28 | 2.24 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 20 | 2.35 | 0.28 | 2.24 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 20 | 2.35 | 0.06 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 20 | 2.35 | 0.06 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 20 | 2.35 | 0.06 | 2.35 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 20 | 2.35 | 0.06 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 20 | 2.35 | 0.06 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 20 | 2.35 | 0.06 | 2.35 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 20 | 2.35 | 0.1 | 2.38 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 20 | 2.35 | 0.1 | 2.38 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 20 | 2.35 | 0.1 | 2.38 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 20 | 2.35 | 0.1 | 2.38 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 20 | 2.35 | 0.31 | 2.2 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 20 | 2.35 | 0.31 | 2.2 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 20 | 2.35 | 1.12 | 2.22 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 2.35 | 0.57 | 2.08 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 2.35 | 0.57 | 2.08 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 2.35 | 0.57 | 2.08 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 20 | 2.35 | 0.24 | 2.32 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 20 | 2.35 | 0.24 | 2.32 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 2.35 | 0.58 | 1.96 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 2.35 | 0.58 | 1.96 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 2.35 | 0.58 | 1.96 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 20 | 2.34 | 0.11 | 2.34 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 20 | 2.34 | 0.11 | 2.34 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 20 | 2.34 | 0.05 | 2.36 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 20 | 2.34 | 0.05 | 2.36 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 20 | 2.34 | 0.05 | 2.36 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 20 | 2.34 | 0.6 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 20 | 2.34 | 0.6 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 20 | 2.34 | 0.6 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 20 | 2.34 | 0.6 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 20 | 2.34 | 0.6 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 20 | 2.34 | 0.6 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 20 | 2.34 | 0.6 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 20 | 2.34 | 0.6 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 20 | 2.34 | 0.6 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 20 | 2.34 | 0.6 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 20 | 2.34 | 0.6 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 20 | 2.34 | 0.6 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 20 | 2.34 | 0.6 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 20 | 2.34 | 0.6 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 20 | 2.34 | 0.6 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 20 | 2.34 | 0.6 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 20 | 2.34 | 0.6 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 20 | 2.34 | 0.6 | 2.28 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 20 | 2.34 | 0.14 | 2.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 20 | 2.34 | 0.14 | 2.44 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 2.34 | 1.21 | 2.19 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 20 | 2.34 | 0.98 | 1.98 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 20 | 2.34 | 0.11 | 2.37 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 20 | 2.34 | 0.11 | 2.37 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 20 | 2.34 | 0.11 | 2.37 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 20 | 2.34 | 0.11 | 2.37 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 20 | 2.34 | 0.11 | 2.37 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 20 | 2.34 | 0.11 | 2.37 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 20 | 2.34 | 0.05 | 2.31 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 20 | 2.34 | 0.14 | 2.4 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 20 | 2.34 | 0.14 | 2.4 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 20 | 2.34 | 0.14 | 2.4 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 20 | 2.34 | 0.14 | 2.4 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 20 | 2.34 | 0.14 | 2.4 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 20 | 2.34 | 0.14 | 2.4 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 20 | 2.34 | 0.05 | 2.32 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 20 | 2.34 | 0.76 | 1.92 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 20 | 2.34 | 0.76 | 1.92 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 20 | 2.34 | 0.76 | 1.92 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 20 | 2.34 | 0.76 | 1.92 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 20 | 2.34 | 0.76 | 1.92 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 20 | 2.34 | 0.76 | 1.92 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 20 | 2.34 | 0.76 | 1.92 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 20 | 2.34 | 0.76 | 1.92 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 20 | 2.34 | 0.76 | 1.92 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 20 | 2.34 | 0.76 | 1.92 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 20 | 2.34 | 0.76 | 1.92 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 20 | 2.34 | 0.76 | 1.92 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 20 | 2.34 | 0.76 | 1.92 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 20 | 2.34 | 0.76 | 1.92 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 20 | 2.34 | 0.76 | 1.92 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 20 | 2.34 | 0.76 | 1.92 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 20 | 2.34 | 0.76 | 1.92 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 20 | 2.34 | 0.76 | 1.92 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 20 | 2.34 | 1.41 | 1.84 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 20 | 2.34 | 1.41 | 1.84 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 20 | 2.34 | 1.41 | 1.84 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 20 | 2.33 | 0.17 | 2.3 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 20 | 2.33 | 0.17 | 2.3 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 20 | 2.33 | 0.17 | 2.3 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 20 | 2.33 | 0.17 | 2.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 20 | 2.33 | 0.1 | 2.37 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 20 | 2.33 | 0.1 | 2.37 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 20 | 2.33 | 0.1 | 2.34 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 20 | 2.33 | 0.1 | 2.34 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 20 | 2.33 | 0.14 | 2.37 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 20 | 2.33 | 0.14 | 2.37 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 20 | 2.33 | 0.35 | 2.46 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 2.33 | 0.71 | 2.15 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 2.33 | 0.71 | 2.15 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 2.33 | 0.71 | 2.15 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 20 | 2.33 | 0.2 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 20 | 2.33 | 0.2 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 20 | 2.33 | 0.2 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 20 | 2.33 | 0.2 | 2.33 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 2.33 | 0.56 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 2.33 | 0.56 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 2.33 | 0.56 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 2.33 | 0.56 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 2.33 | 0.56 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 2.33 | 0.56 | 2.41 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 2.33 | 0.95 | 2.06 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 2.33 | 0.95 | 2.06 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 2.33 | 0.95 | 2.06 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 20 | 2.33 | 0.06 | 2.34 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 20 | 2.33 | 0.06 | 2.34 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 20 | 2.33 | 0.06 | 2.34 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 20 | 2.33 | 0.81 | 2.42 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 20 | 2.33 | 0.81 | 2.42 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 20 | 2.33 | 0.39 | 2.2 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 20 | 2.33 | 0.39 | 2.2 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 20 | 2.33 | 0.1 | 2.33 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 20 | 2.33 | 0.1 | 2.33 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 20 | 2.33 | 0.1 | 2.33 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 20 | 2.32 | 1.83 | 1.6 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 2.32 | 1.12 | 1.9 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 2.32 | 1.12 | 1.9 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 2.32 | 1.12 | 1.9 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 20 | 2.32 | 0.17 | 2.38 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 20 | 2.32 | 0.17 | 2.38 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 20 | 2.32 | 0.17 | 2.38 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 20 | 2.32 | 0.17 | 2.38 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 2.32 | 0.26 | 2.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 2.32 | 0.26 | 2.29 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 2.32 | 0.26 | 2.29 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 2.32 | 0.26 | 2.29 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 2.32 | 0.27 | 2.37 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 2.32 | 0.27 | 2.37 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 2.32 | 1.02 | 2.16 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 2.32 | 1.02 | 2.16 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 2.32 | 1.02 | 2.16 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 20 | 2.32 | 0.11 | 2.32 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 20 | 2.32 | 0.11 | 2.32 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 20 | 2.32 | 0.11 | 2.32 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 20 | 2.32 | 0.11 | 2.32 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 20 | 2.32 | 0.11 | 2.33 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 2.32 | 0.57 | 2.13 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 2.32 | 0.57 | 2.13 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 2.32 | 0.57 | 2.13 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 2.32 | 0.57 | 2.13 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 20 | 2.31 | 1.53 | 2.24 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 20 | 2.31 | 1.53 | 2.24 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 20 | 2.31 | 0.08 | 2.35 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 20 | 2.31 | 0.08 | 2.35 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 20 | 2.31 | 0.12 | 2.26 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 20 | 2.31 | 0.12 | 2.26 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 20 | 2.31 | 0.46 | 2.18 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 20 | 2.31 | 0.22 | 2.18 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 20 | 2.31 | 0.22 | 2.18 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 20 | 2.31 | 0.77 | 2.04 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 20 | 2.31 | 0.77 | 2.04 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 20 | 2.31 | 0.62 | 2.49 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 20 | 2.31 | 0.62 | 2.49 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 2.31 | 0.55 | 2.22 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 2.31 | 0.55 | 2.22 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 20 | 2.31 | 0.47 | 2.18 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 20 | 2.31 | 0.47 | 2.18 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 20 | 2.31 | 0.47 | 2.18 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 20 | 2.31 | 0.47 | 2.18 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 20 | 2.31 | 0.47 | 2.18 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 20 | 2.31 | 0.47 | 2.18 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 20 | 2.31 | 0.47 | 2.18 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 20 | 2.31 | 0.47 | 2.18 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 20 | 2.31 | 0.47 | 2.18 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 20 | 2.31 | 0.23 | 2.25 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 20 | 2.31 | 0.23 | 2.25 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 20 | 2.31 | 0.23 | 2.25 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 20 | 2.31 | 0.23 | 2.25 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 20 | 2.31 | 0.23 | 2.25 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 20 | 2.31 | 0.23 | 2.25 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 20 | 2.31 | 0.25 | 2.2 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 20 | 2.31 | 0.25 | 2.2 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 20 | 2.3 | 1.19 | 1.98 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 20 | 2.3 | 0.03 | 2.3 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 20 | 2.3 | 0.22 | 2.33 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 20 | 2.3 | 0.22 | 2.33 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 20 | 2.3 | 0.09 | 2.3 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 20 | 2.3 | 0.09 | 2.3 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 20 | 2.3 | 0.29 | 2.23 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 20 | 2.3 | 0.29 | 2.23 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 20 | 2.3 | 0.29 | 2.23 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 20 | 2.3 | 0.27 | 2.45 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 20 | 2.3 | 0.27 | 2.45 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 20 | 2.29 | 0.91 | 2.2 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 20 | 2.29 | 0.16 | 2.26 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 20 | 2.29 | 0.16 | 2.26 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 20 | 2.29 | 0.09 | 2.28 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 20 | 2.29 | 0.09 | 2.28 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 20 | 2.29 | 0.09 | 2.28 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 20 | 2.29 | 0.29 | 2.22 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 20 | 2.29 | 0.29 | 2.22 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.29 | 0.4 | 2.15 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.29 | 0.4 | 2.15 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.29 | 0.4 | 2.15 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.29 | 0.4 | 2.15 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.29 | 0.4 | 2.15 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.29 | 0.4 | 2.15 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.29 | 0.4 | 2.15 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.29 | 0.4 | 2.15 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.29 | 0.4 | 2.15 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.29 | 0.4 | 2.15 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.29 | 0.4 | 2.15 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.29 | 0.4 | 2.15 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 20 | 2.29 | 0.28 | 2.24 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 20 | 2.29 | 1.14 | 1.96 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 20 | 2.29 | 1.14 | 1.96 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 20 | 2.29 | 1.14 | 1.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 20 | 2.29 | 0.12 | 2.32 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 20 | 2.29 | 0.12 | 2.32 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 20 | 2.29 | 0.11 | 2.27 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 20 | 2.29 | 0.11 | 2.27 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 20 | 2.29 | 0.09 | 2.26 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 20 | 2.29 | 0.09 | 2.26 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 20 | 2.29 | 0.11 | 2.34 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 20 | 2.29 | 0.11 | 2.34 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 20 | 2.29 | 0.11 | 2.34 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 20 | 2.29 | 0.11 | 2.34 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 20 | 2.29 | 0.11 | 2.34 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 20 | 2.29 | 0.11 | 2.34 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 20 | 2.29 | 0.19 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 20 | 2.29 | 0.19 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 20 | 2.29 | 0.19 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 20 | 2.29 | 0.19 | 2.26 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 20 | 2.29 | 0.14 | 2.23 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 20 | 2.29 | 0.7 | 2.01 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 20 | 2.28 | 0.23 | 2.22 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 20 | 2.28 | 0.23 | 2.22 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 20 | 2.28 | 0.23 | 2.22 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 20 | 2.28 | 0.72 | 2.44 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 20 | 2.28 | 0.72 | 2.44 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 20 | 2.28 | 0.72 | 2.44 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 20 | 2.28 | 0.1 | 2.3 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 20 | 2.28 | 0.1 | 2.3 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 20 | 2.28 | 0.1 | 2.3 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 20 | 2.28 | 0.41 | 2.18 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 20 | 2.28 | 0.41 | 2.18 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 20 | 2.28 | 0.41 | 2.18 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 20 | 2.28 | 0.12 | 2.24 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 20 | 2.28 | 0.12 | 2.24 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 20 | 2.28 | 0.14 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 20 | 2.28 | 0.14 | 2.16 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 20 | 2.28 | 0.14 | 2.24 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 20 | 2.28 | 0.1 | 2.24 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 20 | 2.28 | 0.1 | 2.24 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 20 | 2.28 | 1.07 | 1.92 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 2.28 | 0.34 | 2.17 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 2.28 | 0.34 | 2.17 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 2.28 | 0.34 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 20 | 2.28 | 0.16 | 2.17 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 20 | 2.28 | 0.16 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 20 | 2.28 | 0.16 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 20 | 2.28 | 0.16 | 2.17 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 20 | 2.28 | 0.58 | 2.06 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 20 | 2.28 | 0.58 | 2.06 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 20 | 2.28 | 0.58 | 2.06 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 20 | 2.28 | 0.58 | 2.06 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 20 | 2.28 | 0.0 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 20 | 2.28 | 0.0 | 2.28 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 20 | 2.28 | 1.16 | 2.03 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 2.28 | 1.16 | 2.03 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 20 | 2.28 | 0.13 | 2.23 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 20 | 2.28 | 0.13 | 2.23 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 20 | 2.27 | 0.03 | 2.26 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 20 | 2.27 | 1.2 | 1.68 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 20 | 2.27 | 1.2 | 1.68 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 20 | 2.27 | 1.2 | 1.68 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 20 | 2.27 | 1.2 | 1.68 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 20 | 2.27 | 0.07 | 2.28 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 20 | 2.27 | 0.07 | 2.28 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 20 | 2.27 | 0.44 | 2.04 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 20 | 2.27 | 0.44 | 2.04 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 20 | 2.27 | 1.13 | 1.7 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 20 | 2.27 | 1.13 | 1.7 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 20 | 2.27 | 1.13 | 1.7 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 20 | 2.27 | 0.03 | 2.26 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 2.27 | 0.21 | 2.27 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 2.27 | 0.21 | 2.27 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 2.27 | 0.21 | 2.27 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 2.27 | 0.21 | 2.27 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 20 | 2.27 | 0.33 | 2.17 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 20 | 2.27 | 0.33 | 2.17 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 20 | 2.27 | 0.09 | 2.24 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 20 | 2.27 | 0.09 | 2.24 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 20 | 2.27 | 0.43 | 2.13 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 20 | 2.27 | 0.43 | 2.13 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 20 | 2.27 | 0.43 | 2.13 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 20 | 2.27 | 0.43 | 2.13 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 20 | 2.27 | 0.43 | 2.13 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 20 | 2.27 | 0.43 | 2.13 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 20 | 2.26 | 0.06 | 2.26 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 2.26 | 0.99 | 2.38 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 2.26 | 0.99 | 2.38 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 20 | 2.26 | 0.14 | 2.19 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 20 | 2.26 | 0.14 | 2.19 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 2.26 | 0.13 | 2.22 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 2.26 | 0.13 | 2.22 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 20 | 2.26 | 0.81 | 2.24 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 2.26 | 0.81 | 2.24 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 20 | 2.26 | 0.16 | 2.22 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 20 | 2.26 | 0.16 | 2.22 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 20 | 2.26 | 0.16 | 2.22 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 20 | 2.26 | 0.16 | 2.22 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 20 | 2.26 | 0.16 | 2.22 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 20 | 2.26 | 0.16 | 2.22 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 2.26 | 0.8 | 2.76 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 20 | 2.26 | 1.18 | 2.54 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 20 | 2.26 | 1.18 | 2.54 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 20 | 2.26 | 1.18 | 2.54 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 20 | 2.26 | 0.3 | 2.18 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 20 | 2.26 | 0.3 | 2.18 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 20 | 2.26 | 0.46 | 2.16 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 20 | 2.26 | 0.46 | 2.16 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 20 | 2.26 | 0.46 | 2.16 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 20 | 2.26 | 1.0 | 2.22 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 20 | 2.26 | 0.08 | 2.24 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 20 | 2.26 | 0.08 | 2.24 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 20 | 2.26 | 0.1 | 2.28 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 20 | 2.26 | 0.1 | 2.28 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 20 | 2.26 | 0.09 | 2.26 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 20 | 2.26 | 0.09 | 2.26 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 20 | 2.26 | 0.09 | 2.26 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 20 | 2.26 | 0.09 | 2.26 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 2.26 | 1.13 | 2.64 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 2.26 | 1.13 | 2.64 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 2.26 | 1.13 | 2.64 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 20 | 2.25 | 0.87 | 2.0 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 20 | 2.25 | 0.13 | 2.29 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 20 | 2.25 | 0.13 | 2.29 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 20 | 2.25 | 0.13 | 2.29 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 20 | 2.25 | 0.28 | 2.07 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 20 | 2.25 | 0.28 | 2.07 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 20 | 2.25 | 0.28 | 2.07 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 20 | 2.25 | 1.03 | 1.94 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 20 | 2.25 | 1.03 | 1.94 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 2.25 | 0.47 | 2.18 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 2.25 | 0.47 | 2.18 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 2.25 | 0.47 | 2.18 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 20 | 2.25 | 0.12 | 2.21 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 20 | 2.25 | 0.12 | 2.21 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 20 | 2.25 | 0.11 | 2.23 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 20 | 2.25 | 0.11 | 2.23 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 20 | 2.25 | 0.03 | 2.25 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 20 | 2.25 | 0.03 | 2.25 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 20 | 2.24 | 0.13 | 2.2 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 20 | 2.24 | 0.08 | 2.22 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 20 | 2.24 | 0.08 | 2.22 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 20 | 2.24 | 0.17 | 2.21 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 20 | 2.24 | 0.17 | 2.21 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 20 | 2.24 | 0.17 | 2.21 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 20 | 2.24 | 0.17 | 2.21 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 20 | 2.24 | 0.17 | 2.21 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 20 | 2.24 | 0.17 | 2.21 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 20 | 2.24 | 0.17 | 2.19 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 20 | 2.24 | 0.17 | 2.19 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 20 | 2.24 | 0.17 | 2.19 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 20 | 2.24 | 0.17 | 2.19 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 20 | 2.24 | 0.17 | 2.19 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 20 | 2.24 | 0.17 | 2.19 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 20 | 2.24 | 0.08 | 2.22 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 20 | 2.24 | 0.83 | 1.95 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 20 | 2.24 | 0.17 | 2.21 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 20 | 2.24 | 0.17 | 2.21 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 20 | 2.24 | 0.17 | 2.21 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 20 | 2.24 | 0.17 | 2.21 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 20 | 2.24 | 0.58 | 2.0 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 20 | 2.24 | 0.58 | 2.0 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 2.23 | 1.29 | 2.3 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 2.23 | 1.29 | 2.3 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 2.23 | 1.29 | 2.3 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 2.23 | 1.29 | 2.3 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 2.23 | 1.29 | 2.3 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 2.23 | 1.29 | 2.3 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 2.23 | 0.54 | 2.18 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 2.23 | 0.54 | 2.18 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 20 | 2.23 | 1.4 | 1.88 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 20 | 2.23 | 0.08 | 2.2 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 20 | 2.23 | 0.08 | 2.2 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 20 | 2.23 | 0.19 | 2.26 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 20 | 2.23 | 0.19 | 2.26 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 2.23 | 0.65 | 2.41 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 2.23 | 0.65 | 2.41 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 2.23 | 0.65 | 2.41 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 20 | 2.23 | 0.65 | 2.41 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 20 | 2.23 | 0.65 | 2.41 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 20 | 2.23 | 0.65 | 2.41 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 20 | 2.23 | 0.02 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 20 | 2.23 | 0.02 | 2.23 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 20 | 2.22 | 0.77 | 2.19 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 20 | 2.22 | 0.77 | 2.19 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 20 | 2.22 | 0.77 | 2.19 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 20 | 2.22 | 0.77 | 2.19 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 20 | 2.22 | 0.77 | 2.19 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 20 | 2.22 | 0.77 | 2.19 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 20 | 2.22 | 0.77 | 2.19 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 20 | 2.22 | 0.77 | 2.19 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 20 | 2.22 | 0.77 | 2.19 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 20 | 2.22 | 0.3 | 2.15 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 20 | 2.22 | 0.29 | 2.15 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 20 | 2.22 | 0.99 | 2.22 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 20 | 2.22 | 0.99 | 2.22 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 2.22 | 0.99 | 2.22 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 2.22 | 0.99 | 2.22 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 20 | 2.22 | 0.09 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 20 | 2.22 | 0.09 | 2.17 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 20 | 2.22 | 0.04 | 2.2 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 20 | 2.22 | 0.04 | 2.2 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 2.22 | 0.85 | 2.21 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 2.22 | 0.85 | 2.21 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 2.22 | 0.85 | 2.21 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 2.22 | 0.55 | 2.13 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 2.22 | 0.55 | 2.13 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 20 | 2.21 | 0.86 | 1.94 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 20 | 2.21 | 0.25 | 2.21 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 20 | 2.21 | 0.25 | 2.21 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 20 | 2.21 | 0.12 | 2.18 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 20 | 2.21 | 0.12 | 2.18 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 20 | 2.21 | 0.12 | 2.18 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 20 | 2.21 | 0.12 | 2.18 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 20 | 2.21 | 0.19 | 2.21 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 20 | 2.21 | 0.19 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 20 | 2.21 | 0.04 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 20 | 2.21 | 0.04 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 20 | 2.21 | 0.04 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 20 | 2.21 | 0.04 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 20 | 2.21 | 0.04 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 20 | 2.21 | 0.04 | 2.22 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 2.21 | 0.13 | 2.21 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 2.21 | 0.13 | 2.21 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 2.21 | 0.13 | 2.21 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 2.21 | 0.13 | 2.21 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 2.21 | 0.13 | 2.21 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 2.21 | 0.13 | 2.21 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 20 | 2.21 | 0.04 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 20 | 2.21 | 0.04 | 2.18 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 20 | 2.21 | 0.88 | 2.13 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 2.21 | 0.83 | 1.97 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 2.21 | 0.83 | 1.97 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 2.21 | 0.83 | 1.97 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 2.21 | 0.83 | 1.97 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 2.21 | 0.83 | 1.97 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 2.21 | 0.83 | 1.97 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 20 | 2.21 | 0.06 | 2.2 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 20 | 2.21 | 0.06 | 2.2 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 2.21 | 0.32 | 2.13 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 2.21 | 0.32 | 2.13 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 2.21 | 0.32 | 2.13 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 2.21 | 0.32 | 2.13 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 2.21 | 0.32 | 2.13 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 2.21 | 0.32 | 2.13 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 2.21 | 0.32 | 2.13 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 2.21 | 0.32 | 2.13 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 2.21 | 0.32 | 2.13 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 2.21 | 0.32 | 2.13 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 2.21 | 0.32 | 2.13 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 2.21 | 0.32 | 2.13 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 2.21 | 0.32 | 2.13 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 2.21 | 0.32 | 2.13 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 2.21 | 0.32 | 2.13 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 2.21 | 0.32 | 2.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 2.21 | 0.32 | 2.13 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 2.21 | 0.32 | 2.13 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 20 | 2.21 | 0.07 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 20 | 2.21 | 0.07 | 2.18 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 20 | 2.2 | 0.09 | 2.18 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 20 | 2.2 | 0.09 | 2.18 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 20 | 2.2 | 0.09 | 2.18 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 20 | 2.2 | 0.09 | 2.18 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 20 | 2.2 | 0.09 | 2.18 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 20 | 2.2 | 0.09 | 2.18 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 20 | 2.2 | 0.09 | 2.18 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 20 | 2.2 | 0.09 | 2.18 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 20 | 2.2 | 1.84 | 1.34 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 20 | 2.2 | 1.84 | 1.34 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 20 | 2.2 | 1.84 | 1.34 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 20 | 2.2 | 0.03 | 2.2 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 20 | 2.2 | 0.03 | 2.2 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 20 | 2.2 | 0.52 | 2.16 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 20 | 2.2 | 0.52 | 2.16 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 20 | 2.2 | 0.52 | 2.16 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 2.2 | 0.62 | 2.32 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 2.2 | 0.62 | 2.32 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 2.2 | 0.62 | 2.32 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 2.2 | 0.62 | 2.32 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 20 | 2.2 | 0.87 | 2.0 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 20 | 2.2 | 0.87 | 2.0 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 20 | 2.2 | 0.05 | 2.2 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 20 | 2.2 | 0.05 | 2.2 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 20 | 2.2 | 0.08 | 2.16 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 20 | 2.2 | 0.08 | 2.16 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 20 | 2.2 | 0.24 | 2.26 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 20 | 2.2 | 0.24 | 2.26 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 20 | 2.2 | 0.24 | 2.26 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 2.2 | 1.21 | 1.75 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 2.2 | 1.21 | 1.75 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 2.2 | 1.21 | 1.75 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 20 | 2.19 | 0.88 | 1.96 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 20 | 2.19 | 0.88 | 1.96 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.19 | 0.4 | 2.05 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.19 | 0.4 | 2.05 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.19 | 0.4 | 2.05 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.19 | 0.4 | 2.05 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.19 | 0.4 | 2.05 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.19 | 0.4 | 2.05 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 20 | 2.19 | 0.64 | 2.16 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 20 | 2.19 | 0.56 | 1.88 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 20 | 2.19 | 0.56 | 1.88 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 20 | 2.19 | 0.05 | 2.18 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 20 | 2.19 | 0.05 | 2.18 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 20 | 2.19 | 0.11 | 2.17 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 20 | 2.19 | 0.11 | 2.17 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 20 | 2.19 | 0.11 | 2.17 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 2.19 | 1.12 | 1.79 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 20 | 2.19 | 1.12 | 1.79 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 20 | 2.19 | 1.29 | 2.06 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 20 | 2.19 | 1.29 | 2.06 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 20 | 2.19 | 0.04 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 20 | 2.19 | 0.04 | 2.18 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 20 | 2.19 | 0.06 | 2.16 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 20 | 2.19 | 0.06 | 2.16 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 2.18 | 0.53 | 2.45 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 2.18 | 0.53 | 2.45 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 2.18 | 0.53 | 2.45 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 20 | 2.18 | 0.19 | 2.2 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 20 | 2.18 | 0.04 | 2.17 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 20 | 2.18 | 0.04 | 2.17 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 2.18 | 0.83 | 2.04 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 2.18 | 0.83 | 2.04 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 20 | 2.18 | 0.57 | 2.04 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 20 | 2.18 | 0.57 | 2.04 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 20 | 2.18 | 0.57 | 2.04 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 20 | 2.17 | 0.03 | 2.16 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 2.17 | 1.21 | 1.99 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 2.17 | 1.21 | 1.99 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 2.17 | 1.21 | 1.99 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 20 | 2.17 | 0.53 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 20 | 2.17 | 0.53 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 20 | 2.17 | 0.53 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 20 | 2.17 | 0.53 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 20 | 2.17 | 0.53 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 20 | 2.17 | 0.53 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 20 | 2.17 | 0.53 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 20 | 2.17 | 0.53 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 20 | 2.17 | 0.53 | 1.88 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 20 | 2.17 | 0.53 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 20 | 2.17 | 0.53 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 20 | 2.17 | 0.53 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 20 | 2.17 | 0.53 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 20 | 2.17 | 0.53 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 20 | 2.17 | 0.53 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 20 | 2.17 | 0.53 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 20 | 2.17 | 0.53 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 20 | 2.17 | 0.53 | 1.88 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 2.16 | 0.64 | 2.0 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 2.16 | 0.64 | 2.0 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 2.16 | 0.64 | 2.0 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 2.16 | 0.64 | 2.0 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 2.16 | 0.64 | 2.0 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 2.16 | 0.64 | 2.0 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 20 | 2.16 | 0.03 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 20 | 2.16 | 0.02 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 20 | 2.16 | 0.02 | 2.16 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 20 | 2.16 | 0.4 | 2.02 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 20 | 2.16 | 0.4 | 2.02 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 20 | 2.16 | 0.02 | 2.16 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 20 | 2.16 | 1.34 | 1.54 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 20 | 2.16 | 0.08 | 2.13 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 20 | 2.16 | 0.08 | 2.13 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 20 | 2.16 | 0.08 | 2.13 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 2.15 | 0.98 | 1.9 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 20 | 2.15 | 0.98 | 1.9 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 20 | 2.15 | 0.86 | 1.8 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 20 | 2.15 | 0.86 | 1.8 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 20 | 2.15 | 0.86 | 1.8 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 20 | 2.15 | 0.86 | 1.8 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 20 | 2.15 | 0.86 | 1.8 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 20 | 2.15 | 0.86 | 1.8 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 20 | 2.15 | 0.86 | 1.8 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 20 | 2.15 | 0.86 | 1.8 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 20 | 2.15 | 0.86 | 1.8 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 20 | 2.15 | 0.56 | 2.16 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 20 | 2.15 | 0.56 | 2.16 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 20 | 2.15 | 0.56 | 2.16 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 20 | 2.15 | 0.88 | 1.8 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 20 | 2.15 | 0.88 | 1.8 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 20 | 2.15 | 0.88 | 1.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 20 | 2.14 | 1.39 | 1.48 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 20 | 2.14 | 1.39 | 1.48 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 20 | 2.14 | 1.39 | 1.48 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 20 | 2.14 | 0.28 | 2.13 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 20 | 2.14 | 0.28 | 2.13 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 20 | 2.14 | 0.68 | 1.96 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 20 | 2.14 | 0.68 | 1.96 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 20 | 2.14 | 0.68 | 1.96 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 20 | 2.14 | 0.04 | 2.14 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 20 | 2.14 | 0.04 | 2.14 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 20 | 2.14 | 0.45 | 2.09 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 20 | 2.14 | 0.11 | 2.12 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 20 | 2.14 | 0.11 | 2.12 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 20 | 2.14 | 0.11 | 2.12 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 20 | 2.14 | 0.11 | 2.12 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 20 | 2.14 | 0.07 | 2.13 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 2.14 | 1.09 | 2.15 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 2.14 | 1.09 | 2.15 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 2.14 | 1.09 | 2.15 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 2.14 | 1.09 | 2.15 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 2.14 | 1.09 | 2.15 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 2.14 | 1.09 | 2.15 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 20 | 2.13 | 1.03 | 1.8 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 20 | 2.13 | 0.79 | 1.92 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 2.13 | 0.79 | 1.92 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 2.13 | 0.32 | 2.12 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 2.13 | 0.32 | 2.12 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 2.13 | 0.32 | 2.12 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 2.13 | 0.32 | 2.12 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 20 | 2.13 | 0.35 | 2.26 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 20 | 2.13 | 0.35 | 2.26 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 20 | 2.13 | 0.35 | 2.26 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 20 | 2.12 | 0.33 | 2.15 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 20 | 2.12 | 0.33 | 2.15 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 2.12 | 1.06 | 2.7 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 2.12 | 1.06 | 2.7 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 20 | 2.12 | 0.33 | 2.16 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 20 | 2.12 | 1.62 | 1.94 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 20 | 2.12 | 1.28 | 1.8 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 20 | 2.12 | 1.28 | 1.8 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 20 | 2.12 | 1.28 | 1.8 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 20 | 2.12 | 0.35 | 2.14 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 20 | 2.12 | 0.35 | 2.14 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 20 | 2.12 | 0.35 | 2.14 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 20 | 2.11 | 0.76 | 2.13 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 20 | 2.11 | 0.76 | 2.13 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 20 | 2.11 | 0.69 | 1.86 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 20 | 2.11 | 0.78 | 2.45 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 20 | 2.11 | 0.21 | 2.13 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 2.11 | 0.7 | 1.96 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 2.11 | 0.7 | 1.96 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 2.11 | 0.7 | 1.96 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 2.11 | 0.7 | 1.96 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 2.11 | 0.7 | 1.96 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 2.11 | 0.7 | 1.96 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 20 | 2.1 | 0.54 | 2.15 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 20 | 2.1 | 0.7 | 2.29 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 20 | 2.1 | 0.7 | 2.29 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 20 | 2.1 | 0.7 | 2.29 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 20 | 2.1 | 0.7 | 2.29 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 20 | 2.1 | 0.7 | 2.29 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 20 | 2.1 | 0.7 | 2.29 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 20 | 2.1 | 0.11 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 20 | 2.1 | 0.11 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 20 | 2.1 | 0.11 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 20 | 2.1 | 0.11 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 20 | 2.1 | 0.11 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 20 | 2.1 | 0.11 | 2.08 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 20 | 2.1 | 0.51 | 2.14 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 20 | 2.1 | 0.74 | 1.96 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 20 | 2.1 | 0.67 | 2.26 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 20 | 2.1 | 0.06 | 2.08 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 20 | 2.1 | 0.06 | 2.08 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 20 | 2.1 | 0.06 | 2.08 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 20 | 2.1 | 0.06 | 2.08 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 20 | 2.1 | 0.06 | 2.08 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 20 | 2.1 | 0.06 | 2.08 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 20 | 2.1 | 0.06 | 2.08 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 20 | 2.1 | 0.06 | 2.08 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 20 | 2.1 | 0.06 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 20 | 2.1 | 0.06 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 20 | 2.1 | 0.06 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 20 | 2.1 | 0.06 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 20 | 2.1 | 0.06 | 2.08 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 20 | 2.1 | 0.06 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 20 | 2.1 | 0.06 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 20 | 2.1 | 0.06 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 20 | 2.1 | 0.06 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 20 | 2.1 | 0.06 | 2.08 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 20 | 2.09 | 0.17 | 2.02 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 20 | 2.09 | 0.71 | 2.08 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 20 | 2.09 | 0.71 | 2.08 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 20 | 2.09 | 0.71 | 2.08 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 20 | 2.09 | 0.71 | 2.08 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 20 | 2.09 | 0.71 | 2.08 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 20 | 2.09 | 0.71 | 2.08 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 2.09 | 1.09 | 1.72 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 20 | 2.09 | 0.03 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 20 | 2.09 | 0.03 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 20 | 2.09 | 0.03 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 20 | 2.09 | 0.03 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 20 | 2.09 | 0.03 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 20 | 2.09 | 0.03 | 2.09 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 20 | 2.09 | 1.11 | 2.22 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 20 | 2.09 | 1.11 | 2.22 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 20 | 2.09 | 1.11 | 2.22 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 20 | 2.09 | 0.4 | 2.24 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 2.09 | 0.4 | 2.24 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 20 | 2.09 | 0.8 | 2.2 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 20 | 2.08 | 0.02 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 20 | 2.08 | 0.02 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 20 | 2.08 | 0.02 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 20 | 2.08 | 0.02 | 2.09 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 2.08 | 0.97 | 1.83 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 2.08 | 0.97 | 1.83 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 2.08 | 0.97 | 1.83 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 2.08 | 1.23 | 1.64 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 2.08 | 1.23 | 1.64 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 2.08 | 0.58 | 2.28 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 2.08 | 0.58 | 2.28 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 2.08 | 0.58 | 2.28 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 2.08 | 0.72 | 2.1 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 20 | 2.08 | 0.6 | 2.08 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 20 | 2.08 | 0.59 | 2.13 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 20 | 2.08 | 0.4 | 2.2 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 20 | 2.08 | 0.4 | 2.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 20 | 2.07 | 0.03 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 20 | 2.07 | 0.03 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 20 | 2.07 | 0.03 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 20 | 2.07 | 0.03 | 2.09 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 20 | 2.07 | 1.01 | 2.52 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 20 | 2.07 | 1.01 | 2.52 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 20 | 2.07 | 1.01 | 2.52 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 2.07 | 0.78 | 2.06 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 20 | 2.07 | 0.07 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 20 | 2.07 | 0.07 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 20 | 2.07 | 0.07 | 2.05 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 20 | 2.07 | 0.03 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 20 | 2.07 | 0.03 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 20 | 2.07 | 0.03 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 20 | 2.07 | 0.03 | 2.08 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 20 | 2.07 | 0.07 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 20 | 2.07 | 0.07 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 20 | 2.07 | 0.07 | 2.05 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 20 | 2.07 | 0.03 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 20 | 2.07 | 0.03 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 20 | 2.07 | 0.03 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 20 | 2.07 | 0.03 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 20 | 2.07 | 0.04 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 20 | 2.07 | 0.04 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 20 | 2.07 | 0.04 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 20 | 2.07 | 0.04 | 2.09 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 20 | 2.07 | 0.88 | 2.05 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 20 | 2.07 | 0.88 | 2.05 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 20 | 2.07 | 0.88 | 2.05 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 2.06 | 0.74 | 2.12 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 2.06 | 0.74 | 2.12 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 20 | 2.06 | 0.08 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 20 | 2.06 | 0.08 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 20 | 2.06 | 0.08 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 20 | 2.06 | 0.08 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 20 | 2.06 | 0.08 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 20 | 2.06 | 0.08 | 2.05 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 2.06 | 0.56 | 1.85 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 20 | 2.06 | 1.57 | 0.98 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 20 | 2.06 | 1.57 | 0.98 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 20 | 2.06 | 1.57 | 0.98 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 20 | 2.05 | 0.82 | 1.82 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 20 | 2.05 | 0.04 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 20 | 2.05 | 0.04 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 20 | 2.05 | 0.04 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 20 | 2.05 | 0.04 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 20 | 2.05 | 0.03 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 20 | 2.05 | 0.03 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 20 | 2.05 | 0.03 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 20 | 2.05 | 0.03 | 2.06 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 20 | 2.05 | 0.5 | 2.06 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 2.05 | 0.81 | 1.83 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 2.05 | 0.81 | 1.83 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 20 | 2.04 | 0.79 | 2.12 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 20 | 2.04 | 0.8 | 1.98 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 20 | 2.04 | 0.8 | 1.98 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 20 | 2.04 | 1.1 | 1.67 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 20 | 2.04 | 1.1 | 1.67 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 20 | 2.04 | 1.1 | 1.67 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 20 | 2.04 | 0.9 | 2.02 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 20 | 2.04 | 0.9 | 2.02 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 20 | 2.04 | 0.9 | 2.02 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 20 | 2.04 | 1.02 | 1.67 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 20 | 2.04 | 1.02 | 1.67 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 20 | 2.04 | 1.02 | 1.67 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 20 | 2.04 | 0.03 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 20 | 2.04 | 0.03 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 20 | 2.04 | 0.03 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 20 | 2.04 | 0.03 | 2.02 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 20 | 2.04 | 0.36 | 2.02 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 20 | 2.03 | 1.0 | 2.04 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 20 | 2.03 | 1.0 | 2.04 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 20 | 2.03 | 1.0 | 2.04 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 20 | 2.03 | 0.6 | 2.22 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 20 | 2.03 | 1.55 | 1.44 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 20 | 2.03 | 1.55 | 1.44 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 20 | 2.03 | 1.55 | 1.44 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 2.03 | 0.61 | 1.86 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 2.03 | 0.61 | 1.86 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 2.03 | 0.83 | 1.88 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 2.03 | 0.83 | 1.88 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 20 | 2.03 | 0.58 | 2.01 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 20 | 2.03 | 0.29 | 1.96 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 20 | 2.03 | 0.29 | 1.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 20 | 2.03 | 0.29 | 1.96 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 20 | 2.03 | 0.29 | 1.96 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 20 | 2.03 | 0.29 | 1.96 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 20 | 2.03 | 0.29 | 1.96 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 20 | 2.03 | 0.29 | 1.96 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 20 | 2.03 | 0.29 | 1.96 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 20 | 2.03 | 0.29 | 1.96 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 20 | 2.03 | 0.29 | 1.96 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 20 | 2.03 | 0.29 | 1.96 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 20 | 2.03 | 0.29 | 1.96 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 20 | 2.03 | 0.29 | 1.96 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 20 | 2.03 | 0.29 | 1.96 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 20 | 2.03 | 0.29 | 1.96 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 20 | 2.03 | 0.29 | 1.96 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 20 | 2.03 | 0.29 | 1.96 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 20 | 2.03 | 0.29 | 1.96 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 20 | 2.02 | 0.46 | 2.02 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 20 | 2.02 | 0.46 | 2.02 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 20 | 2.02 | 0.46 | 2.02 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 20 | 2.02 | 0.72 | 2.13 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 20 | 2.02 | 0.7 | 1.96 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 20 | 2.02 | 0.7 | 1.96 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 20 | 2.02 | 0.7 | 1.96 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 2.02 | 0.61 | 2.06 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 20 | 2.02 | 0.09 | 2.0 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 20 | 2.02 | 0.09 | 2.0 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 20 | 2.02 | 0.09 | 2.0 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 20 | 2.02 | 0.09 | 2.0 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 20 | 2.02 | 0.09 | 2.0 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 20 | 2.02 | 0.09 | 2.0 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 20 | 2.02 | 0.88 | 2.0 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 20 | 2.02 | 0.88 | 2.0 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 20 | 2.02 | 0.88 | 2.0 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 20 | 2.02 | 0.58 | 2.06 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 20 | 2.02 | 0.58 | 2.06 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 20 | 2.02 | 0.58 | 2.06 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 20 | 2.02 | 1.11 | 1.91 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 20 | 2.02 | 1.11 | 1.91 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 20 | 2.02 | 1.11 | 1.91 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 20 | 2.02 | 1.11 | 1.91 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 20 | 2.02 | 1.11 | 1.91 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 20 | 2.02 | 1.11 | 1.91 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 20 | 2.02 | 1.11 | 1.91 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 20 | 2.02 | 1.11 | 1.91 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 20 | 2.02 | 1.11 | 1.91 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 20 | 2.01 | 0.51 | 2.12 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 20 | 2.01 | 0.51 | 2.12 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 20 | 2.01 | 0.51 | 2.12 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 2.01 | 0.99 | 2.34 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 2.01 | 0.99 | 2.34 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 2.01 | 1.24 | 1.59 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 20 | 2.01 | 1.11 | 1.87 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 20 | 2.01 | 2.12 | 1.27 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 2.01 | 0.29 | 1.96 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 2.01 | 0.29 | 1.96 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 2.01 | 0.29 | 1.96 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 20 | 2.01 | 0.85 | 2.18 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 20 | 2.01 | 0.85 | 2.18 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 20 | 2.01 | 0.85 | 2.18 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 20 | 2.01 | 0.85 | 2.18 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 20 | 2.01 | 0.85 | 2.18 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 20 | 2.01 | 0.85 | 2.18 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 20 | 2.0 | 0.94 | 1.94 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 2.0 | 1.08 | 1.68 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 2.0 | 1.08 | 1.68 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 2.0 | 1.08 | 1.68 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 20 | 2.0 | 1.08 | 1.68 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 20 | 2.0 | 1.08 | 1.68 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 20 | 2.0 | 1.08 | 1.68 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 20 | 2.0 | 0.92 | 1.8 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 20 | 2.0 | 0.92 | 1.8 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 20 | 1.99 | 1.04 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 20 | 1.99 | 1.04 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 20 | 1.99 | 1.04 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 20 | 1.99 | 1.04 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 20 | 1.99 | 1.04 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 20 | 1.99 | 1.04 | 2.18 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 1.99 | 0.96 | 2.08 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 20 | 1.99 | 0.02 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 20 | 1.99 | 0.02 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 20 | 1.99 | 0.02 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 20 | 1.99 | 0.02 | 2.0 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 1.98 | 0.54 | 1.96 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 20 | 1.98 | 1.41 | 1.4 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 20 | 1.98 | 1.41 | 1.4 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 20 | 1.98 | 1.41 | 1.4 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 20 | 1.98 | 0.46 | 2.02 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 20 | 1.98 | 0.46 | 2.02 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 20 | 1.98 | 0.46 | 2.02 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 20 | 1.98 | 0.46 | 2.02 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 20 | 1.98 | 0.46 | 2.02 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 20 | 1.98 | 0.46 | 2.02 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 20 | 1.97 | 1.99 | 1.12 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 20 | 1.97 | 0.06 | 1.97 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 1.97 | 0.85 | 1.64 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 20 | 1.97 | 0.85 | 1.64 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 1.97 | 0.75 | 1.78 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 20 | 1.97 | 0.75 | 1.78 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 1.96 | 0.86 | 1.84 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 1.96 | 0.86 | 1.84 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 1.96 | 0.86 | 1.84 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 20 | 1.96 | 1.03 | 2.19 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 1.95 | 0.43 | 1.83 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 20 | 1.95 | 0.38 | 1.88 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 20 | 1.95 | 0.77 | 2.03 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 20 | 1.94 | 0.69 | 2.11 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 20 | 1.94 | 0.69 | 2.11 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 20 | 1.94 | 0.69 | 2.11 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 1.93 | 1.1 | 2.04 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 20 | 1.92 | 0.7 | 1.83 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 20 | 1.92 | 0.7 | 1.83 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 20 | 1.92 | 0.7 | 1.83 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 20 | 1.92 | 0.64 | 1.78 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 20 | 1.92 | 0.71 | 1.86 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 20 | 1.92 | 0.71 | 1.86 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 20 | 1.92 | 0.71 | 1.86 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 1.92 | 0.56 | 1.78 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 1.92 | 0.56 | 1.78 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 1.92 | 0.56 | 1.78 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 1.91 | 0.29 | 1.89 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 1.91 | 0.29 | 1.89 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 1.91 | 0.29 | 1.89 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 1.91 | 0.29 | 1.89 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 1.91 | 0.29 | 1.89 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 1.91 | 0.29 | 1.89 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 1.91 | 0.3 | 1.88 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 1.91 | 0.3 | 1.88 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 1.9 | 1.15 | 1.99 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 1.9 | 1.18 | 1.48 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 1.9 | 1.18 | 1.48 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 1.9 | 1.18 | 1.48 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 1.9 | 1.18 | 1.48 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 1.9 | 1.18 | 1.48 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 1.9 | 1.18 | 1.48 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 1.9 | 0.11 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 1.9 | 0.11 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 1.9 | 0.11 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 1.9 | 0.11 | 1.94 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 20 | 1.89 | 0.97 | 1.67 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 20 | 1.89 | 0.97 | 1.67 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 20 | 1.89 | 0.97 | 1.67 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 20 | 1.89 | 0.34 | 1.9 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 20 | 1.89 | 0.27 | 1.94 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 20 | 1.89 | 0.71 | 1.84 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 20 | 1.89 | 0.71 | 1.84 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 20 | 1.89 | 0.71 | 1.84 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 20 | 1.88 | 0.74 | 1.91 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 20 | 1.88 | 0.73 | 1.68 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 1.88 | 0.18 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 1.88 | 0.18 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 1.88 | 0.18 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 1.88 | 0.18 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 1.88 | 0.18 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 1.88 | 0.18 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 1.88 | 0.18 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 1.88 | 0.18 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 1.88 | 0.18 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 1.88 | 0.18 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 1.88 | 0.18 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 1.88 | 0.18 | 1.85 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 20 | 1.88 | 0.18 | 1.83 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 20 | 1.88 | 0.79 | 1.96 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 20 | 1.88 | 0.79 | 1.96 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 20 | 1.87 | 0.58 | 1.96 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 20 | 1.87 | 0.58 | 1.96 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 20 | 1.87 | 0.58 | 1.96 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 20 | 1.87 | 0.14 | 1.85 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 1.87 | 0.57 | 1.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 1.87 | 0.57 | 1.62 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 1.87 | 0.57 | 1.62 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 1.87 | 0.57 | 1.62 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 1.87 | 0.57 | 1.62 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 1.87 | 0.57 | 1.62 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 20 | 1.87 | 0.37 | 1.78 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 20 | 1.87 | 0.7 | 1.68 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 20 | 1.87 | 0.7 | 1.68 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 20 | 1.87 | 0.7 | 1.68 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 20 | 1.86 | 0.06 | 1.87 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 20 | 1.86 | 0.06 | 1.87 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 1.86 | 1.19 | 1.45 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 1.86 | 1.19 | 1.45 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 1.86 | 1.19 | 1.45 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 1.86 | 0.79 | 1.84 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 1.86 | 0.79 | 1.84 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 1.86 | 0.79 | 1.84 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 20 | 1.86 | 0.55 | 1.88 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 20 | 1.86 | 0.62 | 1.64 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 20 | 1.86 | 0.7 | 1.86 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 20 | 1.85 | 0.92 | 1.66 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 1.85 | 0.52 | 1.72 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 1.85 | 0.52 | 1.72 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 1.85 | 0.52 | 1.72 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 1.85 | 0.52 | 1.72 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 1.85 | 0.52 | 1.72 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 1.85 | 0.52 | 1.72 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 1.85 | 1.02 | 1.86 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 1.85 | 1.02 | 1.86 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 20 | 1.85 | 0.32 | 1.83 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 20 | 1.85 | 0.47 | 1.69 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 20 | 1.85 | 0.73 | 1.43 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 20 | 1.85 | 0.73 | 1.43 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 20 | 1.85 | 0.41 | 1.96 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 20 | 1.85 | 0.41 | 1.96 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 20 | 1.85 | 0.41 | 1.96 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 20 | 1.84 | 0.61 | 1.8 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 20 | 1.84 | 0.54 | 1.65 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 20 | 1.84 | 0.54 | 1.65 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 20 | 1.84 | 0.54 | 1.65 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 20 | 1.84 | 0.14 | 1.76 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 1.84 | 1.23 | 1.4 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 1.84 | 1.23 | 1.4 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 1.84 | 1.18 | 1.42 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 1.84 | 1.18 | 1.42 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 1.84 | 1.18 | 1.42 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 1.84 | 1.18 | 1.42 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 1.84 | 1.18 | 1.42 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 1.84 | 1.18 | 1.42 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 20 | 1.84 | 0.08 | 1.88 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 1.84 | 1.03 | 1.83 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 1.84 | 0.46 | 1.84 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 1.83 | 1.17 | 1.56 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 20 | 1.83 | 1.17 | 1.56 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 1.83 | 1.17 | 1.56 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 20 | 1.83 | 1.17 | 1.56 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 1.83 | 1.17 | 1.56 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 20 | 1.83 | 1.17 | 1.56 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 20 | 1.83 | 1.16 | 1.69 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 20 | 1.83 | 1.16 | 1.69 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 20 | 1.83 | 0.53 | 1.76 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 20 | 1.82 | 0.42 | 1.76 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 20 | 1.82 | 0.42 | 1.76 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 20 | 1.82 | 0.42 | 1.76 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 20 | 1.82 | 0.77 | 1.94 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 1.82 | 0.65 | 2.0 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 1.82 | 0.65 | 2.0 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 1.82 | 0.71 | 1.76 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 1.82 | 0.71 | 1.76 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 1.82 | 0.71 | 1.76 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 1.82 | 0.71 | 1.76 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 1.82 | 0.71 | 1.76 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 1.82 | 0.71 | 1.76 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 1.81 | 0.51 | 1.71 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 1.81 | 0.51 | 1.71 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 1.81 | 0.51 | 1.71 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 20 | 1.81 | 0.05 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 20 | 1.81 | 0.05 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 20 | 1.81 | 0.05 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 20 | 1.81 | 0.05 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 20 | 1.81 | 0.05 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 20 | 1.81 | 0.05 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 20 | 1.81 | 0.05 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 20 | 1.81 | 0.05 | 1.81 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 20 | 1.81 | 0.05 | 1.81 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 1.81 | 0.26 | 1.84 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 20 | 1.81 | 0.81 | 1.73 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 20 | 1.81 | 0.81 | 1.73 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 20 | 1.81 | 0.92 | 1.7 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 20 | 1.81 | 1.03 | 1.5 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 20 | 1.81 | 1.03 | 1.5 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 20 | 1.81 | 1.03 | 1.5 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 20 | 1.81 | 0.4 | 1.78 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 20 | 1.81 | 0.4 | 1.78 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 20 | 1.81 | 0.4 | 1.78 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 20 | 1.8 | 1.3 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 20 | 1.8 | 1.3 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 20 | 1.8 | 1.3 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 20 | 1.8 | 1.3 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 20 | 1.8 | 1.3 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 20 | 1.8 | 1.3 | 0.9 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 20 | 1.8 | 0.81 | 1.72 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 20 | 1.8 | 0.81 | 1.72 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 20 | 1.8 | 0.81 | 1.72 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 20 | 1.8 | 0.81 | 1.72 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 20 | 1.8 | 0.81 | 1.72 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 20 | 1.8 | 0.81 | 1.72 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 1.8 | 0.57 | 1.59 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 1.8 | 0.57 | 1.59 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 1.8 | 0.57 | 1.59 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 20 | 1.79 | 0.24 | 1.76 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 20 | 1.79 | 0.24 | 1.76 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 20 | 1.79 | 0.24 | 1.76 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 20 | 1.79 | 0.45 | 1.78 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 20 | 1.79 | 0.45 | 1.78 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 20 | 1.79 | 0.45 | 1.78 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 1.79 | 0.3 | 1.87 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 20 | 1.79 | 0.6 | 1.86 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 1.79 | 0.6 | 1.86 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 20 | 1.79 | 0.6 | 1.86 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 1.79 | 0.6 | 1.86 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 20 | 1.79 | 0.6 | 1.86 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 1.79 | 0.6 | 1.86 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 1.78 | 0.44 | 1.78 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 1.78 | 0.44 | 1.78 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 20 | 1.78 | 1.35 | 1.12 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 20 | 1.78 | 0.82 | 1.5 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 20 | 1.78 | 0.82 | 1.5 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 20 | 1.78 | 0.82 | 1.5 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 20 | 1.78 | 0.07 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 20 | 1.78 | 0.07 | 1.8 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 20 | 1.78 | 0.75 | 1.92 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 20 | 1.78 | 1.03 | 1.47 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 20 | 1.78 | 1.03 | 1.47 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 20 | 1.78 | 1.03 | 1.47 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 20 | 1.78 | 1.54 | 1.5 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 1.78 | 0.98 | 1.95 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 1.78 | 0.98 | 1.95 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 1.78 | 0.98 | 1.95 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 1.78 | 0.98 | 1.95 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 1.78 | 0.98 | 1.95 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 1.78 | 0.98 | 1.95 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 20 | 1.78 | 0.72 | 1.56 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 1.78 | 0.58 | 1.39 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 1.78 | 0.58 | 1.39 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 1.78 | 0.58 | 1.39 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 1.77 | 0.86 | 1.58 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 1.77 | 0.86 | 1.58 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 1.77 | 0.86 | 1.58 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 20 | 1.77 | 0.34 | 1.8 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 20 | 1.77 | 0.34 | 1.8 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 20 | 1.77 | 0.34 | 1.8 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 20 | 1.77 | 1.26 | 1.25 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 20 | 1.76 | 0.39 | 1.82 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 20 | 1.76 | 1.19 | 1.09 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 20 | 1.76 | 1.17 | 1.32 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 20 | 1.76 | 1.1 | 1.92 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 20 | 1.76 | 1.1 | 1.92 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 20 | 1.75 | 0.87 | 1.73 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 1.75 | 1.0 | 1.68 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 1.75 | 1.0 | 1.68 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 1.75 | 1.0 | 1.68 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 20 | 1.75 | 0.11 | 1.76 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 20 | 1.74 | 0.86 | 1.51 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 20 | 1.74 | 0.78 | 1.64 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 20 | 1.74 | 0.33 | 1.9 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 20 | 1.73 | 1.19 | 1.6 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 20 | 1.73 | 1.19 | 1.6 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 20 | 1.73 | 1.19 | 1.6 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 20 | 1.73 | 0.61 | 2.07 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 1.72 | 0.76 | 1.72 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 1.72 | 0.76 | 1.72 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 20 | 1.72 | 0.61 | 1.66 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 1.72 | 0.48 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 20 | 1.72 | 0.7 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 20 | 1.72 | 0.7 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 20 | 1.72 | 0.7 | 1.55 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 20 | 1.72 | 0.53 | 1.58 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 20 | 1.71 | 0.15 | 1.74 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 20 | 1.71 | 0.56 | 1.74 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 1.71 | 0.82 | 1.58 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 1.71 | 0.82 | 1.58 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 1.71 | 0.82 | 1.58 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 1.71 | 0.82 | 1.58 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 1.71 | 0.82 | 1.58 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 1.71 | 0.82 | 1.58 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 20 | 1.7 | 0.85 | 1.67 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 20 | 1.7 | 0.85 | 1.67 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 20 | 1.7 | 0.85 | 1.67 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 20 | 1.7 | 0.85 | 1.67 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 20 | 1.7 | 0.85 | 1.67 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 20 | 1.7 | 0.85 | 1.67 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 1.7 | 0.29 | 1.64 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 20 | 1.7 | 0.92 | 1.62 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 20 | 1.7 | 0.92 | 1.62 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 20 | 1.7 | 0.92 | 1.62 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 1.69 | 0.35 | 1.74 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 20 | 1.69 | 0.9 | 1.62 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 1.69 | 1.02 | 1.45 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 20 | 1.69 | 1.13 | 1.68 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 20 | 1.69 | 1.13 | 1.68 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 20 | 1.69 | 1.13 | 1.68 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 20 | 1.69 | 1.13 | 1.68 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 20 | 1.69 | 1.13 | 1.68 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 20 | 1.69 | 1.13 | 1.68 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 20 | 1.69 | 0.75 | 1.71 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 20 | 1.69 | 0.75 | 1.71 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 20 | 1.69 | 0.75 | 1.71 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 20 | 1.68 | 0.28 | 1.72 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 20 | 1.68 | 0.95 | 1.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 20 | 1.68 | 0.95 | 1.5 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 20 | 1.68 | 0.95 | 1.5 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 20 | 1.68 | 0.37 | 1.74 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 20 | 1.68 | 0.52 | 1.85 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 20 | 1.68 | 0.99 | 1.23 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 20 | 1.67 | 0.35 | 1.65 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 20 | 1.67 | 0.69 | 1.52 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 1.67 | 0.69 | 1.52 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 20 | 1.67 | 0.69 | 1.52 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 1.67 | 0.69 | 1.52 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 20 | 1.67 | 0.42 | 1.71 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 20 | 1.67 | 1.31 | 1.1 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 1.67 | 0.34 | 1.71 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 1.67 | 0.34 | 1.71 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 1.67 | 0.79 | 1.66 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 20 | 1.67 | 0.78 | 1.5 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 20 | 1.67 | 0.78 | 1.5 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 20 | 1.66 | 0.66 | 1.62 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 20 | 1.66 | 0.66 | 1.62 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 20 | 1.66 | 0.66 | 1.62 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 20 | 1.66 | 0.4 | 1.72 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 20 | 1.66 | 0.4 | 1.72 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 20 | 1.65 | 0.61 | 1.97 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 20 | 1.65 | 0.26 | 1.7 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 1.65 | 0.52 | 1.7 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 20 | 1.65 | 1.24 | 1.15 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 20 | 1.65 | 1.24 | 1.15 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 20 | 1.65 | 1.24 | 1.15 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 20 | 1.64 | 0.67 | 1.44 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 1.64 | 0.46 | 1.54 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 1.64 | 0.46 | 1.54 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 1.64 | 0.46 | 1.54 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 1.64 | 0.46 | 1.54 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 1.64 | 0.46 | 1.54 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 1.64 | 0.46 | 1.54 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 20 | 1.64 | 0.37 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 20 | 1.64 | 0.37 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 20 | 1.64 | 0.37 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 20 | 1.64 | 0.37 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 20 | 1.64 | 0.37 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 20 | 1.64 | 0.37 | 1.61 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 20 | 1.63 | 0.51 | 1.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 20 | 1.63 | 0.51 | 1.7 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 20 | 1.63 | 0.36 | 1.46 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 1.63 | 0.84 | 1.44 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 1.63 | 0.84 | 1.44 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 1.63 | 0.84 | 1.44 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 1.63 | 0.74 | 1.14 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 1.62 | 0.61 | 1.59 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 1.62 | 0.22 | 1.66 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 1.61 | 0.65 | 1.6 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 1.61 | 0.65 | 1.6 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 1.61 | 0.65 | 1.6 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 20 | 1.61 | 0.76 | 1.58 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 20 | 1.61 | 0.23 | 1.62 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 20 | 1.61 | 0.23 | 1.62 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 20 | 1.61 | 0.42 | 1.58 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 20 | 1.61 | 0.42 | 1.58 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 20 | 1.61 | 0.18 | 1.62 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 20 | 1.61 | 0.18 | 1.62 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 20 | 1.61 | 0.96 | 1.47 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 20 | 1.61 | 0.96 | 1.47 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 20 | 1.61 | 0.96 | 1.47 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 20 | 1.61 | 0.99 | 1.73 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 20 | 1.61 | 0.57 | 1.78 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 20 | 1.61 | 0.57 | 1.78 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 20 | 1.61 | 0.57 | 1.78 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 20 | 1.6 | 1.48 | 1.02 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 20 | 1.59 | 0.85 | 1.84 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 20 | 1.59 | 0.85 | 1.84 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 20 | 1.59 | 0.85 | 1.84 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 1.59 | 0.51 | 1.52 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 20 | 1.59 | 0.51 | 1.52 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 1.59 | 0.51 | 1.52 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 20 | 1.59 | 0.51 | 1.52 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 1.59 | 0.51 | 1.52 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 20 | 1.59 | 0.51 | 1.52 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 20 | 1.58 | 0.9 | 1.3 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 20 | 1.58 | 0.9 | 1.3 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 20 | 1.58 | 0.9 | 1.3 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 20 | 1.58 | 0.9 | 1.3 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 20 | 1.58 | 0.9 | 1.3 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 20 | 1.58 | 0.9 | 1.3 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 20 | 1.58 | 0.9 | 1.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 20 | 1.58 | 0.9 | 1.3 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 20 | 1.58 | 0.9 | 1.3 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 1.58 | 0.42 | 1.46 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 20 | 1.58 | 0.91 | 1.33 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 20 | 1.58 | 0.91 | 1.33 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 20 | 1.58 | 0.91 | 1.33 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 1.58 | 0.66 | 1.48 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 1.58 | 0.66 | 1.48 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 1.58 | 0.66 | 1.48 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 20 | 1.57 | 0.63 | 1.54 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 20 | 1.57 | 0.55 | 1.45 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 20 | 1.55 | 0.51 | 1.48 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 20 | 1.54 | 1.02 | 1.21 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 20 | 1.54 | 1.02 | 1.21 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 1.54 | 0.56 | 1.86 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 20 | 1.54 | 0.37 | 1.56 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 20 | 1.54 | 0.37 | 1.56 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 20 | 1.54 | 0.37 | 1.56 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 1.54 | 0.96 | 1.11 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 1.54 | 0.96 | 1.11 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 1.54 | 0.96 | 1.11 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 1.54 | 0.96 | 1.11 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 1.54 | 0.96 | 1.11 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 1.54 | 0.96 | 1.11 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 20 | 1.54 | 0.51 | 1.72 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 20 | 1.54 | 0.51 | 1.72 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 1.53 | 0.16 | 1.52 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 1.53 | 0.55 | 1.6 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 20 | 1.53 | 0.72 | 1.37 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 20 | 1.53 | 0.72 | 1.37 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 1.53 | 0.33 | 1.54 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 1.53 | 0.33 | 1.54 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 1.53 | 0.71 | 1.69 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 1.53 | 0.71 | 1.69 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 1.53 | 0.4 | 1.51 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 20 | 1.53 | 0.77 | 1.17 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 20 | 1.53 | 0.77 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 20 | 1.52 | 0.75 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 20 | 1.52 | 0.75 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 20 | 1.52 | 0.75 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 20 | 1.52 | 0.75 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 20 | 1.52 | 0.75 | 1.17 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 20 | 1.52 | 0.75 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 20 | 1.52 | 0.75 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 20 | 1.52 | 0.75 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 20 | 1.52 | 0.75 | 1.17 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 1.52 | 0.69 | 1.08 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 1.52 | 0.69 | 1.08 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 1.52 | 0.7 | 1.92 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 20 | 1.51 | 0.6 | 1.58 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 20 | 1.51 | 0.6 | 1.58 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 20 | 1.51 | 0.33 | 1.62 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 20 | 1.51 | 0.89 | 1.33 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 1.51 | 0.89 | 1.33 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 20 | 1.51 | 1.51 | 0.92 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 20 | 1.51 | 1.51 | 0.92 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 20 | 1.5 | 0.71 | 1.52 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 20 | 1.5 | 0.71 | 1.52 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 20 | 1.5 | 0.71 | 1.52 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 20 | 1.5 | 0.36 | 1.62 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 20 | 1.5 | 0.36 | 1.62 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 20 | 1.5 | 0.36 | 1.62 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 20 | 1.5 | 0.26 | 1.65 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 1.5 | 0.25 | 1.46 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 20 | 1.5 | 0.37 | 1.49 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 20 | 1.5 | 0.37 | 1.49 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 20 | 1.5 | 0.37 | 1.49 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 1.5 | 0.37 | 1.49 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 1.5 | 0.37 | 1.49 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 1.5 | 0.37 | 1.49 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 1.5 | 0.53 | 1.44 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 1.5 | 0.53 | 1.44 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 1.5 | 0.53 | 1.44 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 20 | 1.5 | 1.04 | 1.24 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 1.5 | 0.65 | 1.5 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 1.5 | 0.65 | 1.5 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 20 | 1.5 | 0.57 | 1.44 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 20 | 1.5 | 0.53 | 1.6 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 20 | 1.49 | 0.51 | 1.42 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 20 | 1.49 | 0.44 | 1.54 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 20 | 1.49 | 0.25 | 1.47 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 20 | 1.49 | 0.25 | 1.47 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 20 | 1.49 | 0.25 | 1.47 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 20 | 1.49 | 0.6 | 1.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 20 | 1.48 | 0.45 | 1.55 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 20 | 1.48 | 0.45 | 1.55 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 20 | 1.48 | 0.45 | 1.55 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 1.48 | 0.99 | 1.16 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 1.48 | 0.99 | 1.16 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 20 | 1.48 | 0.75 | 1.29 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 20 | 1.48 | 0.26 | 1.47 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 20 | 1.47 | 0.91 | 1.3 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 1.47 | 0.51 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 1.47 | 0.51 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 1.47 | 0.51 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 1.47 | 0.51 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 1.47 | 0.51 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 1.47 | 0.51 | 1.42 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 1.47 | 0.66 | 1.42 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 1.47 | 0.66 | 1.42 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 20 | 1.47 | 0.81 | 1.5 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 20 | 1.47 | 0.81 | 1.5 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 20 | 1.47 | 0.81 | 1.5 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 20 | 1.47 | 0.18 | 1.46 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 20 | 1.47 | 0.18 | 1.46 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 20 | 1.47 | 0.18 | 1.46 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 20 | 1.46 | 0.22 | 1.48 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 20 | 1.46 | 0.44 | 1.53 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 20 | 1.46 | 0.08 | 1.46 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 20 | 1.46 | 0.08 | 1.46 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 20 | 1.46 | 0.08 | 1.46 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 20 | 1.46 | 0.55 | 1.46 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 1.46 | 0.55 | 1.46 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 20 | 1.46 | 0.7 | 1.4 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 20 | 1.46 | 0.7 | 1.4 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 20 | 1.46 | 0.7 | 1.4 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 20 | 1.46 | 0.77 | 1.4 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 20 | 1.46 | 0.32 | 1.62 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 20 | 1.46 | 0.32 | 1.62 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 20 | 1.46 | 0.54 | 1.5 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 20 | 1.46 | 0.54 | 1.5 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 20 | 1.46 | 0.54 | 1.5 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 20 | 1.46 | 0.5 | 1.36 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 20 | 1.46 | 0.98 | 1.3 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 20 | 1.46 | 0.62 | 1.23 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 20 | 1.46 | 0.62 | 1.23 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 20 | 1.46 | 0.62 | 1.23 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 20 | 1.45 | 0.53 | 1.46 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 20 | 1.45 | 0.53 | 1.46 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 20 | 1.45 | 0.53 | 1.46 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 20 | 1.45 | 1.09 | 1.23 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 20 | 1.45 | 0.57 | 1.36 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 20 | 1.45 | 0.57 | 1.36 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 20 | 1.45 | 0.57 | 1.36 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 20 | 1.44 | 0.57 | 1.62 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 1.44 | 0.16 | 1.46 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 1.44 | 0.16 | 1.46 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 20 | 1.44 | 0.54 | 1.43 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 20 | 1.44 | 0.54 | 1.43 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 20 | 1.44 | 0.54 | 1.43 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 20 | 1.44 | 0.33 | 1.44 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 20 | 1.43 | 0.56 | 1.4 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 20 | 1.43 | 0.56 | 1.4 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 20 | 1.43 | 0.56 | 1.4 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 20 | 1.43 | 0.94 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 20 | 1.43 | 0.94 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 20 | 1.43 | 0.94 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 20 | 1.43 | 0.94 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 20 | 1.43 | 0.94 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 20 | 1.43 | 0.94 | 1.22 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 20 | 1.43 | 0.61 | 1.35 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 20 | 1.43 | 0.61 | 1.35 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 20 | 1.43 | 0.61 | 1.35 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 20 | 1.42 | 0.23 | 1.46 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 20 | 1.42 | 0.23 | 1.46 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 1.42 | 0.96 | 1.28 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 1.42 | 0.96 | 1.28 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 1.42 | 0.96 | 1.28 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 1.42 | 0.38 | 1.35 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 20 | 1.42 | 0.38 | 1.35 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 20 | 1.42 | 0.52 | 1.48 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 20 | 1.42 | 0.52 | 1.48 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 20 | 1.42 | 0.52 | 1.48 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 1.42 | 0.51 | 1.5 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 1.42 | 0.51 | 1.5 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 1.42 | 0.51 | 1.5 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 20 | 1.41 | 0.49 | 1.27 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 1.41 | 0.51 | 1.47 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 1.41 | 0.51 | 1.47 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 1.41 | 0.25 | 1.52 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 20 | 1.4 | 0.39 | 1.35 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 20 | 1.4 | 0.8 | 1.34 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 20 | 1.4 | 0.8 | 1.34 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 20 | 1.4 | 0.8 | 1.34 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 1.4 | 0.36 | 1.4 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 1.4 | 0.36 | 1.4 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 20 | 1.4 | 0.48 | 1.32 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 20 | 1.4 | 0.48 | 1.32 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 20 | 1.4 | 0.48 | 1.32 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 20 | 1.39 | 0.47 | 1.38 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 1.39 | 0.61 | 1.5 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 20 | 1.38 | 0.28 | 1.45 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 20 | 1.38 | 0.39 | 1.52 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 1.38 | 0.91 | 1.22 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 1.38 | 0.91 | 1.22 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 1.38 | 0.91 | 1.22 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 1.38 | 0.91 | 1.22 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 1.38 | 0.91 | 1.22 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 1.38 | 0.91 | 1.22 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 20 | 1.37 | 0.84 | 1.1 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 1.37 | 0.57 | 1.23 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 1.37 | 0.57 | 1.23 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 1.37 | 0.57 | 1.23 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 20 | 1.36 | 0.0 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 20 | 1.36 | 0.0 | 1.36 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 1.34 | 0.27 | 1.27 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 20 | 1.34 | 0.51 | 1.44 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 20 | 1.34 | 0.51 | 1.44 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 20 | 1.34 | 0.51 | 1.44 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 20 | 1.34 | 0.31 | 1.3 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 20 | 1.34 | 0.31 | 1.3 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 20 | 1.34 | 0.31 | 1.3 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 20 | 1.34 | 0.46 | 1.4 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 1.34 | 0.19 | 1.34 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 20 | 1.34 | 0.66 | 1.29 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 20 | 1.33 | 0.31 | 1.38 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 20 | 1.33 | 0.31 | 1.38 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 20 | 1.33 | 0.31 | 1.38 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 20 | 1.33 | 0.93 | 0.94 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 1.33 | 0.81 | 1.35 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 1.33 | 0.81 | 1.35 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 20 | 1.33 | 0.97 | 1.08 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 20 | 1.33 | 0.49 | 1.23 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 20 | 1.32 | 0.09 | 1.32 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 20 | 1.32 | 0.72 | 1.45 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 1.31 | 0.42 | 1.36 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 20 | 1.31 | 0.26 | 1.35 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 20 | 1.31 | 0.48 | 1.24 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 1.31 | 0.18 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 1.31 | 0.18 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 1.31 | 0.18 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 1.31 | 0.18 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 1.31 | 0.18 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 1.31 | 0.18 | 1.28 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 20 | 1.31 | 0.36 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 20 | 1.31 | 0.36 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 20 | 1.31 | 0.36 | 1.17 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 20 | 1.31 | 0.48 | 1.2 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 1.3 | 0.26 | 1.27 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 1.3 | 0.26 | 1.27 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 20 | 1.3 | 0.69 | 1.1 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 1.3 | 0.18 | 1.3 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 1.3 | 0.18 | 1.3 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 20 | 1.29 | 0.71 | 1.09 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 20 | 1.29 | 0.59 | 1.19 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 20 | 1.29 | 0.59 | 1.19 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 20 | 1.29 | 0.59 | 1.19 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 20 | 1.28 | 0.74 | 0.98 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 20 | 1.28 | 0.74 | 0.98 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 20 | 1.28 | 0.74 | 0.98 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 20 | 1.28 | 0.56 | 1.24 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 20 | 1.28 | 0.56 | 1.24 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 20 | 1.28 | 0.56 | 1.24 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 20 | 1.28 | 0.56 | 1.24 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 20 | 1.28 | 0.56 | 1.24 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 20 | 1.28 | 0.56 | 1.24 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 1.28 | 0.38 | 1.18 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 20 | 1.28 | 0.43 | 1.3 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 20 | 1.28 | 0.43 | 1.3 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 20 | 1.28 | 0.11 | 1.31 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 20 | 1.27 | 0.35 | 1.3 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 20 | 1.27 | 0.13 | 1.25 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 20 | 1.27 | 0.13 | 1.25 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 20 | 1.27 | 0.13 | 1.25 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 1.26 | 0.34 | 1.4 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 1.26 | 0.34 | 1.4 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 20 | 1.26 | 0.52 | 1.1 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 20 | 1.26 | 0.54 | 1.23 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 1.26 | 0.84 | 1.0 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 1.26 | 0.84 | 1.0 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 20 | 1.25 | 0.19 | 1.27 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 20 | 1.25 | 0.7 | 1.37 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 1.25 | 0.7 | 1.37 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 20 | 1.25 | 0.7 | 1.37 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 1.25 | 0.7 | 1.37 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 20 | 1.25 | 0.7 | 1.37 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 1.25 | 0.7 | 1.37 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 20 | 1.25 | 0.08 | 1.28 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 20 | 1.25 | 0.08 | 1.28 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 20 | 1.24 | 0.72 | 1.1 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 20 | 1.24 | 0.13 | 1.25 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 20 | 1.24 | 0.13 | 1.25 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 20 | 1.24 | 0.13 | 1.25 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 1.23 | 0.57 | 1.08 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 1.23 | 0.57 | 1.08 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 1.23 | 0.57 | 1.08 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 1.23 | 0.68 | 1.25 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 20 | 1.23 | 0.75 | 1.25 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 20 | 1.23 | 0.75 | 1.25 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 20 | 1.23 | 0.75 | 1.25 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 20 | 1.23 | 0.75 | 1.25 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 20 | 1.23 | 0.75 | 1.25 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 20 | 1.23 | 0.75 | 1.25 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 20 | 1.23 | 0.75 | 1.25 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 20 | 1.23 | 0.75 | 1.25 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 20 | 1.23 | 0.75 | 1.25 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 20 | 1.23 | 0.86 | 0.69 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 20 | 1.23 | 0.86 | 0.69 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 20 | 1.23 | 0.86 | 0.69 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 20 | 1.23 | 0.98 | 0.82 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 20 | 1.23 | 0.98 | 0.82 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 20 | 1.23 | 0.98 | 0.82 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 1.23 | 0.98 | 0.82 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 1.23 | 0.98 | 0.82 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 1.23 | 0.98 | 0.82 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 20 | 1.23 | 0.71 | 1.08 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 20 | 1.23 | 0.71 | 1.08 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 20 | 1.23 | 0.71 | 1.08 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 20 | 1.23 | 0.71 | 1.08 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 20 | 1.23 | 0.71 | 1.08 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 20 | 1.23 | 0.71 | 1.08 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 20 | 1.23 | 0.04 | 1.23 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 20 | 1.23 | 0.04 | 1.23 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 20 | 1.22 | 0.16 | 1.2 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 20 | 1.22 | 0.35 | 1.21 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 20 | 1.22 | 0.35 | 1.21 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 20 | 1.22 | 0.35 | 1.21 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 20 | 1.22 | 0.6 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 20 | 1.22 | 0.6 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 20 | 1.22 | 0.6 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 20 | 1.22 | 0.6 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 20 | 1.22 | 0.6 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 20 | 1.22 | 0.6 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 20 | 1.22 | 0.6 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 20 | 1.22 | 0.6 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 20 | 1.22 | 0.6 | 1.15 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 20 | 1.22 | 0.31 | 1.15 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 20 | 1.22 | 0.19 | 1.27 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 20 | 1.22 | 0.19 | 1.27 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 20 | 1.22 | 0.19 | 1.27 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 1.22 | 0.51 | 1.32 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 1.22 | 0.51 | 1.32 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 1.22 | 0.51 | 1.32 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 1.22 | 0.51 | 1.32 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 1.22 | 0.51 | 1.32 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 1.22 | 0.51 | 1.32 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 1.22 | 0.55 | 1.48 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 20 | 1.22 | 0.69 | 1.11 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 20 | 1.22 | 0.69 | 1.11 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 20 | 1.22 | 0.69 | 1.11 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 20 | 1.22 | 0.69 | 1.11 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 20 | 1.22 | 0.69 | 1.11 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 20 | 1.22 | 0.69 | 1.11 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 20 | 1.22 | 0.69 | 1.11 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 20 | 1.22 | 0.69 | 1.11 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 20 | 1.22 | 0.69 | 1.11 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 20 | 1.21 | 0.46 | 1.25 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 20 | 1.21 | 0.46 | 1.25 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 20 | 1.21 | 0.46 | 1.25 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 20 | 1.21 | 0.46 | 1.25 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 20 | 1.21 | 0.46 | 1.25 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 20 | 1.21 | 0.46 | 1.25 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 20 | 1.21 | 0.46 | 1.25 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 20 | 1.21 | 0.46 | 1.25 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 20 | 1.21 | 0.46 | 1.25 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 20 | 1.21 | 0.38 | 1.16 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 20 | 1.21 | 0.38 | 1.16 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 20 | 1.21 | 0.38 | 1.16 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 20 | 1.21 | 0.2 | 1.17 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 20 | 1.21 | 0.2 | 1.17 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 20 | 1.21 | 0.2 | 1.17 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 20 | 1.21 | 0.7 | 1.1 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 20 | 1.21 | 0.7 | 1.1 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 20 | 1.21 | 0.7 | 1.1 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 20 | 1.21 | 0.41 | 1.02 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 20 | 1.21 | 0.09 | 1.2 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 20 | 1.2 | 0.35 | 1.42 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 20 | 1.2 | 0.35 | 1.42 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 20 | 1.2 | 0.35 | 1.42 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 1.19 | 0.22 | 1.16 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 20 | 1.18 | 0.14 | 1.18 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 20 | 1.18 | 0.92 | 1.02 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 20 | 1.18 | 0.53 | 0.98 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 20 | 1.17 | 0.65 | 1.5 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 20 | 1.17 | 0.65 | 1.5 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 20 | 1.17 | 0.65 | 1.5 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 1.17 | 0.73 | 1.16 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 20 | 1.17 | 0.73 | 1.16 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 1.17 | 0.73 | 1.16 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 20 | 1.17 | 0.73 | 1.16 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 1.17 | 0.73 | 1.16 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 20 | 1.17 | 0.73 | 1.16 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 20 | 1.17 | 0.63 | 1.04 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 20 | 1.17 | 0.63 | 1.04 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 20 | 1.17 | 0.63 | 1.04 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 1.16 | 0.58 | 1.08 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 1.16 | 0.58 | 1.08 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 1.16 | 0.58 | 1.08 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 1.16 | 0.58 | 1.08 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 1.16 | 0.58 | 1.08 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 1.16 | 0.58 | 1.08 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 20 | 1.16 | 0.52 | 1.1 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 20 | 1.16 | 0.51 | 1.08 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 20 | 1.16 | 0.68 | 0.96 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 1.16 | 0.15 | 1.11 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 1.16 | 0.15 | 1.11 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 1.15 | 0.22 | 1.13 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 20 | 1.15 | 0.81 | 0.85 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 20 | 1.15 | 0.54 | 1.18 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 20 | 1.15 | 0.54 | 1.18 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 20 | 1.15 | 0.54 | 1.18 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 20 | 1.15 | 0.54 | 1.18 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 20 | 1.15 | 0.54 | 1.18 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 20 | 1.15 | 0.54 | 1.18 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 20 | 1.15 | 0.54 | 1.18 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 20 | 1.15 | 0.54 | 1.18 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 20 | 1.15 | 0.54 | 1.18 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 1.15 | 0.81 | 0.84 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 1.15 | 0.81 | 0.84 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 1.15 | 0.81 | 0.84 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 1.15 | 0.81 | 0.84 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 1.15 | 0.29 | 1.21 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 20 | 1.15 | 0.45 | 1.2 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 20 | 1.15 | 0.45 | 1.2 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 20 | 1.15 | 0.45 | 1.2 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 1.15 | 0.18 | 1.13 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 1.15 | 0.18 | 1.13 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 1.15 | 0.6 | 0.97 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 1.15 | 0.6 | 0.97 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 1.15 | 0.6 | 0.97 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 1.15 | 0.6 | 0.97 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 20 | 1.15 | 0.43 | 1.1 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 20 | 1.15 | 0.43 | 1.1 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 20 | 1.15 | 0.43 | 1.1 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 20 | 1.15 | 0.43 | 1.1 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 20 | 1.15 | 0.43 | 1.1 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 20 | 1.15 | 0.43 | 1.1 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 20 | 1.14 | 0.52 | 1.49 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 20 | 1.14 | 0.1 | 1.14 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 1.14 | 0.64 | 0.95 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 20 | 1.14 | 0.44 | 1.02 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 20 | 1.14 | 0.59 | 1.02 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 20 | 1.14 | 0.59 | 1.02 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 20 | 1.13 | 0.43 | 1.14 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 20 | 1.13 | 0.43 | 1.14 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 20 | 1.13 | 0.59 | 0.9 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 20 | 1.12 | 0.01 | 1.13 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 1.12 | 0.18 | 1.1 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 1.12 | 0.18 | 1.1 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 20 | 1.11 | 0.0 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 20 | 1.11 | 0.0 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 20 | 1.11 | 0.0 | 1.11 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 20 | 1.11 | 0.76 | 0.68 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 20 | 1.11 | 0.76 | 0.68 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 20 | 1.11 | 0.76 | 0.68 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 20 | 1.11 | 0.76 | 0.68 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 20 | 1.11 | 0.76 | 0.68 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 20 | 1.11 | 0.76 | 0.68 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 20 | 1.11 | 0.76 | 0.68 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 20 | 1.11 | 0.76 | 0.68 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 20 | 1.11 | 0.76 | 0.68 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 20 | 1.1 | 0.12 | 1.11 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 20 | 1.1 | 0.16 | 1.06 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 20 | 1.1 | 0.22 | 1.15 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 20 | 1.1 | 0.22 | 1.15 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 20 | 1.1 | 0.22 | 1.15 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 20 | 1.1 | 0.52 | 1.35 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 20 | 1.1 | 0.45 | 1.04 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 1.09 | 0.57 | 1.36 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 1.09 | 0.57 | 1.36 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 20 | 1.09 | 0.57 | 0.88 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 20 | 1.09 | 0.57 | 0.88 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 20 | 1.09 | 0.51 | 1.15 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 20 | 1.09 | 0.51 | 1.15 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 20 | 1.09 | 0.51 | 1.15 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 20 | 1.08 | 0.01 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 20 | 1.08 | 0.01 | 1.08 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 20 | 1.08 | 0.15 | 1.08 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 20 | 1.08 | 0.16 | 1.12 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 20 | 1.08 | 0.12 | 1.08 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 20 | 1.08 | 0.12 | 1.08 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 20 | 1.08 | 0.12 | 1.08 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 20 | 1.07 | 0.35 | 1.19 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 20 | 1.07 | 0.25 | 1.1 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 20 | 1.07 | 0.11 | 1.02 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 20 | 1.07 | 0.14 | 1.07 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 20 | 1.07 | 0.14 | 1.07 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 20 | 1.07 | 0.14 | 1.07 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 20 | 1.07 | 0.74 | 0.82 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 20 | 1.07 | 0.74 | 0.82 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 20 | 1.06 | 0.64 | 0.91 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 20 | 1.06 | 0.64 | 0.91 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 20 | 1.06 | 0.64 | 0.91 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 1.06 | 0.68 | 1.06 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 20 | 1.06 | 0.15 | 1.11 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 20 | 1.06 | 0.59 | 0.92 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 20 | 1.06 | 0.59 | 0.92 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 20 | 1.06 | 0.59 | 0.92 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 20 | 1.06 | 0.16 | 1.08 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 20 | 1.05 | 0.62 | 0.99 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 20 | 1.05 | 0.62 | 0.99 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 20 | 1.05 | 0.62 | 0.99 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 20 | 1.05 | 0.62 | 0.99 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 20 | 1.05 | 0.62 | 0.99 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 20 | 1.05 | 0.62 | 0.99 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 20 | 1.05 | 0.62 | 0.99 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 20 | 1.05 | 0.62 | 0.99 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 20 | 1.05 | 0.62 | 0.99 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 20 | 1.04 | 0.23 | 1.08 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 20 | 1.04 | 0.23 | 1.08 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 20 | 1.04 | 0.23 | 1.08 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 20 | 1.04 | 0.57 | 0.98 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 20 | 1.04 | 0.57 | 0.98 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 20 | 1.04 | 0.57 | 0.98 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 20 | 1.04 | 0.18 | 1.07 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 20 | 1.04 | 0.86 | 0.68 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 20 | 1.04 | 0.33 | 0.96 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 20 | 1.04 | 0.59 | 0.86 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 20 | 1.04 | 0.59 | 0.86 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 20 | 1.04 | 0.59 | 0.86 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 1.04 | 0.52 | 1.33 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 1.04 | 0.52 | 1.33 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 20 | 1.03 | 0.21 | 1.02 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 20 | 1.03 | 0.05 | 1.06 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 20 | 1.03 | 0.46 | 0.95 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 20 | 1.03 | 0.08 | 1.03 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 20 | 1.03 | 0.3 | 1.18 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 20 | 1.03 | 0.3 | 1.18 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 20 | 1.03 | 0.45 | 1.06 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 20 | 1.02 | 0.34 | 1.15 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 20 | 1.02 | 0.34 | 1.15 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 20 | 1.02 | 0.34 | 1.15 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 20 | 1.02 | 0.16 | 1.11 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 20 | 1.02 | 0.3 | 0.96 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 20 | 1.02 | 0.98 | 0.78 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 20 | 1.01 | 0.27 | 0.98 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 20 | 1.01 | 0.27 | 0.98 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 20 | 1.01 | 0.27 | 0.98 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 20 | 1.01 | 0.23 | 0.92 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 20 | 1.01 | 0.65 | 0.92 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 20 | 1.01 | 0.65 | 0.92 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 20 | 1.01 | 0.65 | 0.92 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 20 | 1.0 | 0.72 | 0.88 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 20 | 1.0 | 0.72 | 0.88 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 20 | 1.0 | 0.35 | 1.09 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 20 | 1.0 | 0.36 | 0.9 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 20 | 1.0 | 0.38 | 1.14 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 20 | 1.0 | 0.38 | 1.14 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 20 | 0.99 | 0.67 | 0.88 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 20 | 0.99 | 0.67 | 0.88 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 20 | 0.99 | 0.67 | 0.88 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 20 | 0.99 | 0.67 | 0.88 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 20 | 0.99 | 0.67 | 0.88 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 20 | 0.99 | 0.67 | 0.88 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 20 | 0.99 | 0.28 | 0.97 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 20 | 0.99 | 0.44 | 1.11 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 20 | 0.99 | 0.44 | 1.11 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 20 | 0.99 | 0.44 | 1.11 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 20 | 0.99 | 0.25 | 1.0 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 20 | 0.99 | 0.25 | 1.0 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 20 | 0.99 | 0.25 | 1.0 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 20 | 0.99 | 0.53 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 20 | 0.99 | 0.53 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 20 | 0.99 | 0.53 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 20 | 0.99 | 0.53 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 20 | 0.99 | 0.53 | 0.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 20 | 0.99 | 0.53 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 20 | 0.99 | 0.53 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 20 | 0.99 | 0.53 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 20 | 0.99 | 0.53 | 0.7 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 20 | 0.98 | 0.38 | 0.96 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 0.98 | 0.2 | 1.04 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 0.98 | 0.2 | 1.04 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 20 | 0.97 | 0.18 | 0.96 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 20 | 0.97 | 0.48 | 0.96 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 20 | 0.97 | 0.78 | 0.76 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 20 | 0.97 | 0.22 | 0.94 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 20 | 0.96 | 0.2 | 0.98 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 20 | 0.96 | 0.01 | 0.96 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 0.96 | 0.09 | 0.97 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 20 | 0.95 | 0.27 | 1.0 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 20 | 0.95 | 0.27 | 1.0 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 20 | 0.95 | 0.42 | 0.9 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 20 | 0.95 | 0.42 | 0.9 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 20 | 0.95 | 0.42 | 0.9 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 20 | 0.95 | 0.41 | 0.97 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 20 | 0.95 | 0.41 | 0.97 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 20 | 0.95 | 0.49 | 0.89 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 20 | 0.95 | 0.49 | 0.89 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 20 | 0.95 | 0.49 | 0.89 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 20 | 0.94 | 0.03 | 0.94 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 20 | 0.94 | 0.59 | 0.78 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 20 | 0.94 | 0.59 | 0.78 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 20 | 0.94 | 0.62 | 0.96 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 20 | 0.94 | 0.17 | 1.01 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 20 | 0.94 | 0.4 | 1.05 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 20 | 0.94 | 0.0 | 0.94 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 20 | 0.93 | 0.45 | 0.96 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 20 | 0.93 | 0.45 | 0.96 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 20 | 0.93 | 0.45 | 0.96 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 20 | 0.93 | 0.45 | 0.96 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 20 | 0.93 | 0.45 | 0.96 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 20 | 0.93 | 0.45 | 0.96 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 20 | 0.93 | 0.45 | 0.96 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 20 | 0.93 | 0.45 | 0.96 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 20 | 0.93 | 0.45 | 0.96 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 20 | 0.93 | 0.09 | 0.93 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 20 | 0.93 | 0.09 | 0.93 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 20 | 0.93 | 0.09 | 0.93 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 20 | 0.93 | 0.24 | 0.93 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 20 | 0.93 | 0.24 | 0.93 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 20 | 0.93 | 0.24 | 0.93 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 20 | 0.93 | 0.26 | 0.91 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 20 | 0.93 | 0.26 | 0.91 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 20 | 0.93 | 0.26 | 0.91 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 20 | 0.93 | 0.26 | 0.91 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 20 | 0.93 | 0.26 | 0.91 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 20 | 0.93 | 0.26 | 0.91 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 20 | 0.92 | 0.13 | 0.92 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 20 | 0.92 | 0.47 | 0.97 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 20 | 0.92 | 0.47 | 0.97 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 20 | 0.91 | 0.57 | 0.77 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 20 | 0.91 | 0.32 | 0.86 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 20 | 0.91 | 0.32 | 0.86 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 20 | 0.9 | 0.33 | 0.76 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 20 | 0.9 | 0.29 | 0.9 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 20 | 0.9 | 0.29 | 0.9 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 20 | 0.9 | 0.29 | 0.9 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 20 | 0.89 | 0.42 | 0.98 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 20 | 0.89 | 0.42 | 0.98 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 20 | 0.89 | 0.42 | 0.98 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 20 | 0.89 | 0.47 | 0.74 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 20 | 0.89 | 0.47 | 0.74 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 20 | 0.89 | 0.28 | 0.81 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 20 | 0.88 | 0.36 | 0.7 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 20 | 0.88 | 0.16 | 0.87 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 20 | 0.88 | 0.16 | 0.87 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 20 | 0.88 | 0.16 | 0.87 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 20 | 0.87 | 0.15 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 20 | 0.87 | 0.15 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 20 | 0.87 | 0.15 | 0.9 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 20 | 0.87 | 0.3 | 0.84 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 20 | 0.87 | 0.3 | 0.84 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 20 | 0.87 | 0.3 | 0.84 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 20 | 0.87 | 0.35 | 0.83 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 20 | 0.86 | 0.27 | 0.93 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 20 | 0.86 | 0.01 | 0.86 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 20 | 0.86 | 0.11 | 0.84 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 20 | 0.86 | 0.11 | 0.84 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 20 | 0.86 | 0.11 | 0.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 20 | 0.86 | 0.03 | 0.87 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 20 | 0.86 | 0.39 | 0.74 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 20 | 0.86 | 0.39 | 0.74 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 20 | 0.86 | 0.39 | 0.74 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 20 | 0.85 | 0.43 | 0.73 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 20 | 0.85 | 0.43 | 0.73 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 20 | 0.85 | 0.64 | 0.68 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 0.85 | 0.64 | 0.68 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 20 | 0.85 | 0.64 | 0.68 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 0.85 | 0.64 | 0.68 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 20 | 0.85 | 0.64 | 0.68 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 0.85 | 0.64 | 0.68 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 0.85 | 0.53 | 0.65 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 0.85 | 0.53 | 0.65 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 20 | 0.85 | 0.47 | 0.8 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 20 | 0.85 | 0.23 | 0.82 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 20 | 0.84 | 0.46 | 0.72 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 20 | 0.84 | 0.2 | 0.94 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 20 | 0.84 | 0.2 | 0.94 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 20 | 0.84 | 0.2 | 0.94 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 20 | 0.84 | 0.01 | 0.84 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 20 | 0.84 | 0.24 | 0.84 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 20 | 0.84 | 0.24 | 0.86 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 20 | 0.84 | 0.1 | 0.78 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 20 | 0.84 | 0.1 | 0.78 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 20 | 0.83 | 0.33 | 0.86 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 20 | 0.83 | 0.33 | 0.86 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 20 | 0.83 | 0.2 | 0.8 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 0.83 | 0.33 | 0.78 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 0.83 | 0.33 | 0.78 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 20 | 0.82 | 0.53 | 0.64 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 20 | 0.82 | 0.53 | 0.64 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 20 | 0.82 | 0.53 | 0.64 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 20 | 0.82 | 0.53 | 0.64 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 20 | 0.82 | 0.53 | 0.64 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 20 | 0.82 | 0.53 | 0.64 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 20 | 0.82 | 0.53 | 0.64 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 20 | 0.82 | 0.53 | 0.64 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 20 | 0.82 | 0.53 | 0.64 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 20 | 0.82 | 0.52 | 0.77 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 20 | 0.82 | 0.52 | 0.77 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 20 | 0.82 | 0.52 | 0.77 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 20 | 0.82 | 0.6 | 0.41 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 20 | 0.81 | 0.39 | 0.91 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 20 | 0.81 | 0.25 | 0.86 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 20 | 0.81 | 0.25 | 0.86 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 0.8 | 0.31 | 0.8 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 20 | 0.8 | 0.45 | 0.78 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 0.8 | 0.27 | 0.8 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 0.8 | 0.27 | 0.8 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 20 | 0.8 | 0.24 | 0.74 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 20 | 0.8 | 0.24 | 0.74 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 20 | 0.8 | 0.24 | 0.74 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 20 | 0.8 | 0.02 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 20 | 0.8 | 0.02 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 20 | 0.8 | 0.02 | 0.81 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 20 | 0.8 | 0.23 | 0.94 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 20 | 0.8 | 0.53 | 0.64 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 20 | 0.8 | 0.53 | 0.64 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 20 | 0.8 | 0.53 | 0.64 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 20 | 0.8 | 0.34 | 0.8 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 20 | 0.8 | 0.3 | 0.74 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 0.8 | 0.39 | 0.78 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 20 | 0.8 | 0.4 | 0.92 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 20 | 0.8 | 0.4 | 0.92 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 0.79 | 0.35 | 0.76 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 0.79 | 0.35 | 0.76 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 20 | 0.79 | 0.23 | 0.82 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 20 | 0.78 | 0.13 | 0.86 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 20 | 0.78 | 0.06 | 0.78 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 20 | 0.78 | 0.15 | 0.79 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 20 | 0.77 | 0.55 | 0.52 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 20 | 0.77 | 0.55 | 0.52 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 20 | 0.77 | 0.55 | 0.52 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 20 | 0.77 | 0.23 | 0.91 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 20 | 0.77 | 0.25 | 0.82 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 20 | 0.77 | 0.07 | 0.79 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 20 | 0.77 | 0.06 | 0.78 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 20 | 0.77 | 0.55 | 0.6 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 0.76 | 0.46 | 0.71 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 0.76 | 0.46 | 0.71 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 0.76 | 0.46 | 0.71 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 20 | 0.76 | 0.06 | 0.77 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 20 | 0.75 | 0.05 | 0.74 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 20 | 0.75 | 0.34 | 0.83 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 20 | 0.75 | 0.02 | 0.75 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 20 | 0.75 | 0.26 | 0.74 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 20 | 0.74 | 0.35 | 0.98 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 20 | 0.74 | 0.08 | 0.74 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 20 | 0.74 | 0.25 | 0.67 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 20 | 0.74 | 0.25 | 0.67 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 20 | 0.74 | 0.25 | 0.67 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 0.74 | 0.34 | 0.79 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 0.73 | 0.12 | 0.7 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 0.73 | 0.12 | 0.7 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 20 | 0.73 | 0.34 | 0.64 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 20 | 0.73 | 0.34 | 0.64 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 20 | 0.73 | 0.34 | 0.64 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 20 | 0.73 | 0.35 | 0.67 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 20 | 0.73 | 0.35 | 0.67 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 20 | 0.73 | 0.35 | 0.67 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 0.73 | 0.56 | 0.43 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 0.73 | 0.56 | 0.43 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 20 | 0.72 | 0.26 | 0.67 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 20 | 0.72 | 0.37 | 0.87 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 20 | 0.72 | 0.22 | 0.7 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 20 | 0.72 | 0.22 | 0.7 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 20 | 0.72 | 0.22 | 0.7 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 20 | 0.72 | 0.25 | 0.76 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 20 | 0.72 | 0.05 | 0.7 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 20 | 0.72 | 0.26 | 0.6 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 20 | 0.71 | 0.37 | 0.61 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 20 | 0.71 | 0.24 | 0.82 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 20 | 0.71 | 0.24 | 0.82 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 20 | 0.7 | 0.25 | 0.66 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 20 | 0.7 | 0.13 | 0.74 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 20 | 0.69 | 0.07 | 0.7 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 20 | 0.68 | 0.02 | 0.69 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 20 | 0.68 | 0.28 | 0.74 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 20 | 0.68 | 0.28 | 0.74 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 20 | 0.68 | 0.28 | 0.74 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 20 | 0.68 | 0.09 | 0.68 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 20 | 0.68 | 0.22 | 0.56 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 20 | 0.68 | 0.01 | 0.68 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 20 | 0.68 | 0.04 | 0.69 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 20 | 0.68 | 0.04 | 0.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 0.68 | 0.19 | 0.75 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 0.68 | 0.19 | 0.75 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 20 | 0.67 | 0.14 | 0.68 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 20 | 0.67 | 0.71 | 0.3 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 20 | 0.67 | 0.71 | 0.3 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 20 | 0.67 | 0.71 | 0.3 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 20 | 0.67 | 0.23 | 0.81 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 20 | 0.67 | 0.23 | 0.81 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 20 | 0.67 | 0.23 | 0.81 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 0.67 | 0.31 | 0.76 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 0.67 | 0.31 | 0.76 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 0.67 | 0.31 | 0.76 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 0.67 | 0.31 | 0.76 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 20 | 0.67 | 0.43 | 0.42 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 20 | 0.67 | 0.43 | 0.42 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 0.67 | 0.45 | 0.52 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 0.67 | 0.45 | 0.52 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 20 | 0.67 | 0.45 | 0.52 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 20 | 0.67 | 0.45 | 0.52 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 0.66 | 0.05 | 0.68 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 20 | 0.66 | 0.03 | 0.67 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 20 | 0.66 | 0.2 | 0.65 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 20 | 0.66 | 0.3 | 0.82 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 20 | 0.66 | 0.19 | 0.63 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 20 | 0.66 | 0.19 | 0.63 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 20 | 0.66 | 0.19 | 0.63 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 0.65 | 0.39 | 0.56 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 20 | 0.65 | 0.28 | 0.71 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 20 | 0.65 | 0.33 | 0.51 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 0.65 | 0.31 | 0.68 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 20 | 0.65 | 0.31 | 0.68 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 20 | 0.65 | 0.56 | 0.34 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 20 | 0.65 | 0.28 | 0.58 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 20 | 0.65 | 0.07 | 0.7 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 20 | 0.65 | 0.46 | 0.64 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 20 | 0.65 | 0.46 | 0.64 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 20 | 0.65 | 0.46 | 0.64 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 0.65 | 0.14 | 0.6 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 20 | 0.64 | 0.03 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 20 | 0.64 | 0.03 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 20 | 0.64 | 0.03 | 0.66 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 0.64 | 0.24 | 0.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 20 | 0.64 | 0.06 | 0.65 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 20 | 0.64 | 0.37 | 0.57 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 20 | 0.63 | 0.0 | 0.63 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 0.63 | 0.44 | 0.51 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 0.63 | 0.44 | 0.51 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 0.63 | 0.44 | 0.51 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 20 | 0.63 | 0.44 | 0.51 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 20 | 0.63 | 0.44 | 0.51 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 20 | 0.63 | 0.44 | 0.51 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 20 | 0.63 | 0.15 | 0.57 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 20 | 0.63 | 0.18 | 0.57 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 20 | 0.63 | 0.08 | 0.62 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 20 | 0.63 | 0.4 | 0.44 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 20 | 0.63 | 0.4 | 0.44 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 20 | 0.63 | 0.4 | 0.44 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 20 | 0.63 | 0.31 | 0.86 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 20 | 0.62 | 0.18 | 0.6 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 20 | 0.62 | 0.27 | 0.6 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 20 | 0.62 | 0.1 | 0.65 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 20 | 0.62 | 0.03 | 0.63 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 20 | 0.62 | 0.09 | 0.62 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 20 | 0.61 | 0.23 | 0.6 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 20 | 0.61 | 0.23 | 0.6 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 20 | 0.61 | 0.03 | 0.6 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 20 | 0.61 | 0.05 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 20 | 0.61 | 0.05 | 0.63 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 20 | 0.61 | 0.13 | 0.56 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 20 | 0.61 | 0.09 | 0.62 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 20 | 0.61 | 0.02 | 0.61 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 20 | 0.61 | 0.06 | 0.63 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 20 | 0.6 | 0.27 | 0.74 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 20 | 0.6 | 0.2 | 0.67 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 20 | 0.6 | 0.36 | 0.45 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 20 | 0.6 | 0.07 | 0.6 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 20 | 0.6 | 0.23 | 0.56 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 20 | 0.6 | 0.26 | 0.67 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 20 | 0.6 | 0.3 | 0.63 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 20 | 0.6 | 0.3 | 0.63 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 20 | 0.6 | 0.3 | 0.63 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 0.6 | 0.57 | 0.41 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 0.6 | 0.57 | 0.41 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 20 | 0.59 | 0.02 | 0.59 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 20 | 0.58 | 0.14 | 0.55 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 0.58 | 0.11 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 20 | 0.58 | 0.11 | 0.61 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 20 | 0.58 | 0.04 | 0.58 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 20 | 0.58 | 0.14 | 0.64 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 20 | 0.58 | 0.29 | 0.49 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 20 | 0.58 | 0.29 | 0.49 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 20 | 0.57 | 0.14 | 0.55 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 20 | 0.57 | 0.02 | 0.57 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 20 | 0.57 | 0.25 | 0.53 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 20 | 0.56 | 0.3 | 0.58 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 20 | 0.56 | 0.2 | 0.58 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 20 | 0.56 | 0.23 | 0.57 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 20 | 0.56 | 0.09 | 0.56 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 20 | 0.55 | 0.09 | 0.56 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 20 | 0.55 | 0.09 | 0.56 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 20 | 0.55 | 0.22 | 0.46 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 20 | 0.55 | 0.06 | 0.55 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 20 | 0.55 | 0.34 | 0.46 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 20 | 0.55 | 0.34 | 0.46 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 20 | 0.55 | 0.34 | 0.46 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 20 | 0.54 | 0.04 | 0.55 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 20 | 0.54 | 0.1 | 0.57 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 20 | 0.53 | 0.17 | 0.56 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 20 | 0.53 | 0.2 | 0.52 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 20 | 0.53 | 0.2 | 0.52 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 20 | 0.53 | 0.3 | 0.43 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 20 | 0.53 | 0.3 | 0.43 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 20 | 0.53 | 0.3 | 0.43 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 20 | 0.53 | 0.13 | 0.51 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 20 | 0.52 | 0.07 | 0.54 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 20 | 0.52 | 0.24 | 0.49 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 20 | 0.52 | 0.14 | 0.52 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 20 | 0.52 | 0.14 | 0.52 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 20 | 0.52 | 0.1 | 0.52 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 20 | 0.52 | 0.1 | 0.52 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 20 | 0.52 | 0.1 | 0.52 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 20 | 0.52 | 0.04 | 0.52 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 20 | 0.51 | 0.18 | 0.59 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 20 | 0.51 | 0.53 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 20 | 0.51 | 0.53 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 20 | 0.51 | 0.53 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 20 | 0.51 | 0.53 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 20 | 0.51 | 0.53 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 20 | 0.51 | 0.53 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 20 | 0.51 | 0.53 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 20 | 0.51 | 0.53 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 20 | 0.51 | 0.53 | 0.22 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 20 | 0.51 | 0.03 | 0.52 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 20 | 0.51 | 0.03 | 0.52 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 20 | 0.5 | 0.19 | 0.6 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 20 | 0.5 | 0.19 | 0.6 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 20 | 0.5 | 0.19 | 0.6 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 20 | 0.5 | 0.02 | 0.5 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 20 | 0.49 | 0.04 | 0.5 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 20 | 0.49 | 0.28 | 0.69 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 20 | 0.49 | 0.28 | 0.69 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 20 | 0.49 | 0.06 | 0.5 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 20 | 0.49 | 0.06 | 0.48 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 20 | 0.49 | 0.08 | 0.52 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 20 | 0.49 | 0.14 | 0.5 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 20 | 0.48 | 0.16 | 0.52 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 20 | 0.48 | 0.12 | 0.54 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 0.48 | 0.3 | 0.39 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 20 | 0.48 | 0.06 | 0.46 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 20 | 0.47 | 0.21 | 0.39 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 20 | 0.47 | 0.21 | 0.39 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 20 | 0.47 | 0.46 | 0.22 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 20 | 0.47 | 0.46 | 0.22 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 20 | 0.47 | 0.17 | 0.48 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 0.47 | 0.26 | 0.49 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 0.47 | 0.26 | 0.49 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 20 | 0.47 | 0.18 | 0.46 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 20 | 0.47 | 0.04 | 0.49 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 20 | 0.46 | 0.21 | 0.55 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 20 | 0.46 | 0.18 | 0.42 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 20 | 0.46 | 0.27 | 0.42 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 20 | 0.45 | 0.19 | 0.42 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 20 | 0.45 | 0.17 | 0.52 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 20 | 0.45 | 0.11 | 0.46 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 20 | 0.44 | 0.28 | 0.43 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 20 | 0.44 | 0.31 | 0.18 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 20 | 0.44 | 0.13 | 0.44 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 20 | 0.44 | 0.03 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 20 | 0.44 | 0.03 | 0.44 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 20 | 0.44 | 0.11 | 0.44 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 20 | 0.44 | 0.19 | 0.41 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 20 | 0.44 | 0.19 | 0.41 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 20 | 0.44 | 0.05 | 0.42 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 20 | 0.43 | 0.11 | 0.44 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 20 | 0.43 | 0.4 | 0.25 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 20 | 0.43 | 0.4 | 0.25 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 20 | 0.43 | 0.04 | 0.43 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 0.43 | 0.15 | 0.42 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 20 | 0.43 | 0.17 | 0.42 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 20 | 0.43 | 0.17 | 0.42 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 20 | 0.42 | 0.09 | 0.42 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 20 | 0.42 | 0.09 | 0.42 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 20 | 0.42 | 0.18 | 0.44 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 20 | 0.42 | 0.18 | 0.44 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 20 | 0.41 | 0.45 | 0.18 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 20 | 0.41 | 0.45 | 0.18 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 20 | 0.41 | 0.13 | 0.37 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 20 | 0.41 | 0.17 | 0.45 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 20 | 0.4 | 0.22 | 0.34 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 20 | 0.4 | 0.22 | 0.34 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 20 | 0.4 | 0.08 | 0.46 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 20 | 0.4 | 0.08 | 0.46 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 20 | 0.4 | 0.14 | 0.42 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 20 | 0.4 | 0.11 | 0.42 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 20 | 0.4 | 0.16 | 0.4 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 20 | 0.39 | 0.03 | 0.4 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 20 | 0.39 | 0.03 | 0.4 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 20 | 0.39 | 0.07 | 0.37 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 20 | 0.39 | 0.09 | 0.4 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 20 | 0.39 | 0.09 | 0.4 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 20 | 0.39 | 0.09 | 0.4 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 20 | 0.38 | 0.12 | 0.36 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 20 | 0.38 | 0.12 | 0.36 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 20 | 0.38 | 0.06 | 0.4 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 20 | 0.37 | 0.12 | 0.4 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 20 | 0.37 | 0.16 | 0.33 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 20 | 0.37 | 0.16 | 0.33 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 20 | 0.37 | 0.16 | 0.33 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 20 | 0.37 | 0.27 | 0.21 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 20 | 0.37 | 0.2 | 0.38 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 20 | 0.36 | 0.16 | 0.4 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 0.36 | 0.13 | 0.36 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 0.36 | 0.13 | 0.36 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 0.36 | 0.13 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 20 | 0.36 | 0.01 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 20 | 0.36 | 0.01 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 20 | 0.36 | 0.01 | 0.36 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 20 | 0.35 | 0.13 | 0.34 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 20 | 0.35 | 0.29 | 0.28 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 20 | 0.35 | 0.29 | 0.28 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 20 | 0.35 | 0.29 | 0.28 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 20 | 0.35 | 0.29 | 0.28 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 20 | 0.35 | 0.29 | 0.28 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 20 | 0.35 | 0.29 | 0.28 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 20 | 0.35 | 0.29 | 0.28 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 20 | 0.35 | 0.29 | 0.28 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 20 | 0.35 | 0.29 | 0.28 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 20 | 0.34 | 0.15 | 0.4 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 20 | 0.34 | 0.15 | 0.4 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 20 | 0.34 | 0.04 | 0.35 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 20 | 0.33 | 0.17 | 0.3 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 20 | 0.33 | 0.17 | 0.3 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 20 | 0.33 | 0.09 | 0.34 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 20 | 0.33 | 0.09 | 0.34 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 20 | 0.32 | 0.08 | 0.29 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 20 | 0.32 | 0.14 | 0.28 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 0.31 | 0.05 | 0.33 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 20 | 0.31 | 0.06 | 0.32 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 20 | 0.3 | 0.03 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 0.3 | 0.02 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 0.3 | 0.02 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 0.3 | 0.02 | 0.3 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 20 | 0.3 | 0.02 | 0.3 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 20 | 0.3 | 0.21 | 0.21 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 20 | 0.3 | 0.21 | 0.21 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 20 | 0.29 | 0.11 | 0.36 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 20 | 0.29 | 0.11 | 0.36 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 20 | 0.29 | 0.11 | 0.36 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 20 | 0.29 | 0.01 | 0.29 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 20 | 0.29 | 0.01 | 0.29 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 20 | 0.29 | 0.01 | 0.29 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 20 | 0.28 | 0.05 | 0.27 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 20 | 0.28 | 0.12 | 0.25 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 20 | 0.28 | 0.08 | 0.31 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 20 | 0.27 | 0.16 | 0.24 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 20 | 0.27 | 0.16 | 0.24 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 20 | 0.27 | 0.24 | 0.18 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 20 | 0.27 | 0.05 | 0.28 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 20 | 0.27 | 0.05 | 0.28 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 20 | 0.27 | 0.07 | 0.28 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 20 | 0.27 | 0.07 | 0.28 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 0.26 | 0.08 | 0.3 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 20 | 0.26 | 0.09 | 0.23 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 20 | 0.26 | 0.09 | 0.23 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 20 | 0.25 | 0.08 | 0.22 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 20 | 0.25 | 0.08 | 0.22 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 20 | 0.25 | 0.2 | 0.16 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 20 | 0.24 | 0.06 | 0.26 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 20 | 0.24 | 0.06 | 0.26 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 0.24 | 0.08 | 0.2 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 0.24 | 0.08 | 0.2 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 20 | 0.23 | 0.07 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 20 | 0.23 | 0.07 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 20 | 0.23 | 0.07 | 0.21 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 20 | 0.23 | 0.05 | 0.21 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 20 | 0.22 | 0.03 | 0.22 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 20 | 0.22 | 0.03 | 0.22 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 20 | 0.22 | 0.3 | 0.14 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 20 | 0.22 | 0.3 | 0.14 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 20 | 0.21 | 0.05 | 0.18 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 20 | 0.19 | 0.03 | 0.18 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 20 | 0.18 | 0.03 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 20 | 0.18 | 0.03 | 0.19 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 20 | 0.18 | 0.06 | 0.15 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 20 | 0.18 | 0.06 | 0.15 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 20 | 0.18 | 0.03 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 20 | 0.18 | 0.01 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 20 | 0.18 | 0.01 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 20 | 0.18 | 0.01 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 20 | 0.18 | 0.01 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 20 | 0.18 | 0.01 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 20 | 0.18 | 0.01 | 0.18 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 20 | 0.16 | 0.02 | 0.16 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 20 | 0.13 | 0.0 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 20 | 0.13 | 0.0 | 0.13 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 20 | 0.12 | 0.0 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 20 | 0.12 | 0.0 | 0.12 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 19 | 15.56 | 13.35 | 24.6 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 19 | 15.56 | 13.35 | 24.6 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 19 | 15.56 | 13.35 | 24.6 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 19 | 14.82 | 11.53 | 17.55 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 19 | 14.82 | 11.53 | 17.55 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 19 | 14.67 | 11.93 | 16.95 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 19 | 13.99 | 9.74 | 21.99 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 19 | 13.19 | 11.29 | 18.03 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 19 | 13.07 | 12.24 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 19 | 13.07 | 12.24 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 19 | 13.07 | 12.24 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 19 | 13.07 | 12.24 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 19 | 13.07 | 12.24 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 19 | 13.07 | 12.24 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 19 | 13.07 | 12.24 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 19 | 13.07 | 12.24 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 19 | 13.07 | 12.24 | 21.92 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 19 | 12.33 | 9.84 | 18.46 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 19 | 10.24 | 7.71 | 15.31 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 19 | 9.74 | 5.49 | 9.55 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 19 | 8.81 | 6.94 | 13.48 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 19 | 8.67 | 7.62 | 9.21 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 19 | 8.52 | 5.4 | 11.3 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 19 | 8.25 | 3.27 | 9.06 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 19 | 7.92 | 3.78 | 8.52 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 19 | 6.09 | 4.34 | 8.39 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 19 | 4.97 | 2.61 | 5.63 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 19 | 4.32 | 1.77 | 4.76 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 19 | 4.26 | 2.06 | 3.58 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 19 | 4.19 | 4.22 | 3.34 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 19 | 3.54 | 1.28 | 3.59 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 19 | 3.54 | 1.28 | 3.59 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 19 | 3.54 | 1.28 | 3.59 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 19 | 3.5 | 3.24 | 2.99 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 19 | 3.5 | 3.24 | 2.99 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 19 | 2.97 | 1.44 | 2.83 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 19 | 2.97 | 1.44 | 2.83 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 19 | 2.97 | 1.44 | 2.83 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 19 | 2.94 | 1.2 | 3.1 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 19 | 2.94 | 1.2 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 19 | 2.94 | 1.2 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 19 | 2.94 | 1.2 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 19 | 2.94 | 1.2 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 19 | 2.94 | 1.2 | 3.1 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 19 | 2.87 | 1.25 | 2.08 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 19 | 2.83 | 1.41 | 3.26 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 19 | 2.83 | 1.41 | 3.26 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 19 | 2.77 | 1.16 | 2.5 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 19 | 2.71 | 1.41 | 3.14 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 19 | 2.71 | 1.41 | 3.14 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 19 | 2.68 | 1.34 | 2.86 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 19 | 2.58 | 1.91 | 1.87 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 19 | 2.51 | 1.0 | 2.75 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 19 | 2.51 | 1.0 | 2.75 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 19 | 2.51 | 1.0 | 2.75 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 19 | 2.41 | 0.86 | 2.63 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 19 | 2.41 | 0.86 | 2.63 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 19 | 2.39 | 1.48 | 2.01 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 19 | 2.39 | 1.48 | 2.01 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 19 | 2.39 | 1.48 | 2.01 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 19 | 2.32 | 1.54 | 1.52 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 19 | 2.29 | 1.3 | 2.05 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 19 | 2.29 | 1.3 | 2.05 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 19 | 2.29 | 1.3 | 2.05 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 19 | 2.27 | 1.87 | 3.73 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 19 | 2.27 | 2.15 | 1.14 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 19 | 2.19 | 1.05 | 2.33 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 19 | 2.17 | 1.07 | 1.68 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 19 | 2.17 | 1.07 | 1.68 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 19 | 2.17 | 1.07 | 1.68 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 19 | 2.17 | 1.07 | 1.68 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 19 | 2.17 | 1.07 | 1.68 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 19 | 2.17 | 1.07 | 1.68 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 19 | 2.17 | 1.07 | 1.68 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 19 | 2.17 | 1.07 | 1.68 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 19 | 2.17 | 1.07 | 1.68 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 19 | 2.17 | 0.86 | 1.94 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 19 | 2.17 | 0.86 | 1.94 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 19 | 2.15 | 0.98 | 1.98 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 19 | 2.15 | 0.98 | 1.98 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 19 | 2.15 | 0.98 | 1.98 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 19 | 2.15 | 0.98 | 1.98 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 19 | 2.15 | 0.98 | 1.98 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 19 | 2.15 | 0.98 | 1.98 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 19 | 2.11 | 0.77 | 2.27 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 19 | 2.08 | 0.9 | 2.33 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 19 | 2.08 | 0.9 | 2.33 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 19 | 2.08 | 0.9 | 2.33 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 19 | 2.07 | 1.04 | 1.59 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 19 | 2.03 | 1.25 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 19 | 2.03 | 1.25 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 19 | 2.03 | 1.25 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 19 | 2.03 | 1.25 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 19 | 2.03 | 1.25 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 19 | 2.03 | 1.25 | 2.64 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 19 | 2.03 | 0.94 | 2.09 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 2.03 | 0.94 | 2.09 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 19 | 2.03 | 0.94 | 2.09 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 19 | 2.0 | 1.25 | 1.82 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 19 | 2.0 | 1.25 | 1.82 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 19 | 2.0 | 1.25 | 1.82 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 19 | 2.0 | 0.9 | 1.99 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 19 | 2.0 | 0.9 | 1.99 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 19 | 2.0 | 0.9 | 1.99 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 19 | 1.99 | 1.3 | 1.89 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 19 | 1.97 | 0.72 | 1.96 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 19 | 1.97 | 0.72 | 1.96 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 19 | 1.97 | 0.72 | 1.96 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 19 | 1.97 | 0.72 | 1.96 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 19 | 1.97 | 1.35 | 1.91 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 19 | 1.97 | 1.35 | 1.91 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 19 | 1.97 | 1.35 | 1.91 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 19 | 1.93 | 0.98 | 1.84 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 19 | 1.91 | 1.43 | 1.1 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 19 | 1.91 | 0.76 | 1.81 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 19 | 1.91 | 0.76 | 1.81 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 19 | 1.91 | 0.76 | 1.81 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 19 | 1.91 | 0.86 | 1.87 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 19 | 1.91 | 0.86 | 1.87 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 19 | 1.89 | 1.18 | 1.91 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 19 | 1.89 | 1.18 | 1.91 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 19 | 1.89 | 1.18 | 1.91 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 19 | 1.89 | 1.18 | 1.91 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 19 | 1.89 | 1.18 | 1.91 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 19 | 1.89 | 1.18 | 1.91 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 19 | 1.87 | 1.04 | 1.77 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 19 | 1.87 | 1.04 | 1.77 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 19 | 1.87 | 1.04 | 1.77 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 19 | 1.85 | 0.81 | 1.92 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 19 | 1.84 | 0.72 | 1.73 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 19 | 1.81 | 1.74 | 1.14 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 19 | 1.78 | 1.02 | 2.04 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 19 | 1.76 | 0.42 | 1.91 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 19 | 1.76 | 0.66 | 1.96 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 19 | 1.76 | 0.66 | 1.96 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 19 | 1.76 | 0.66 | 1.96 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 19 | 1.76 | 0.66 | 1.96 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 19 | 1.76 | 0.66 | 1.96 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 19 | 1.76 | 0.66 | 1.96 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 19 | 1.76 | 1.37 | 1.49 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 19 | 1.76 | 1.37 | 1.49 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 19 | 1.76 | 1.37 | 1.49 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 19 | 1.75 | 0.49 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 19 | 1.75 | 0.49 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 19 | 1.75 | 0.49 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 19 | 1.75 | 0.49 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 19 | 1.75 | 0.49 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 19 | 1.75 | 0.49 | 1.73 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 19 | 1.74 | 0.98 | 1.65 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 19 | 1.74 | 0.43 | 1.79 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 19 | 1.74 | 0.99 | 1.4 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 19 | 1.74 | 0.99 | 1.4 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 19 | 1.74 | 0.99 | 1.4 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 19 | 1.71 | 1.12 | 1.39 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 19 | 1.68 | 1.58 | 0.68 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 19 | 1.68 | 1.58 | 0.68 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 19 | 1.68 | 1.58 | 0.68 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 19 | 1.68 | 0.98 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 19 | 1.68 | 0.98 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 19 | 1.68 | 0.98 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 19 | 1.68 | 0.98 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 19 | 1.68 | 0.98 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 19 | 1.68 | 0.98 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 19 | 1.68 | 0.98 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 19 | 1.68 | 0.98 | 1.37 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 19 | 1.68 | 0.98 | 1.37 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 19 | 1.67 | 0.93 | 1.56 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 1.67 | 0.93 | 1.56 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 19 | 1.67 | 0.93 | 1.56 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 19 | 1.66 | 0.92 | 1.64 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 19 | 1.65 | 1.15 | 1.19 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 19 | 1.63 | 1.49 | 0.71 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 19 | 1.63 | 1.49 | 0.71 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 19 | 1.63 | 1.36 | 1.75 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 19 | 1.63 | 1.36 | 1.75 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 19 | 1.63 | 1.36 | 1.75 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 19 | 1.62 | 1.35 | 0.88 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 19 | 1.62 | 1.35 | 0.88 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 19 | 1.61 | 1.04 | 1.12 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 19 | 1.6 | 1.43 | 1.26 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 19 | 1.6 | 0.63 | 1.63 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 19 | 1.58 | 0.28 | 1.67 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 19 | 1.57 | 0.56 | 1.48 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 19 | 1.56 | 0.63 | 1.77 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 19 | 1.55 | 0.97 | 1.45 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 19 | 1.55 | 0.97 | 1.45 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 19 | 1.55 | 0.97 | 1.45 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 19 | 1.55 | 0.97 | 1.45 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 19 | 1.55 | 0.97 | 1.45 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 19 | 1.55 | 0.97 | 1.45 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 19 | 1.55 | 0.97 | 1.45 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 19 | 1.55 | 0.97 | 1.45 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 19 | 1.55 | 0.97 | 1.45 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 19 | 1.54 | 0.54 | 1.54 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 19 | 1.54 | 0.9 | 1.29 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 19 | 1.54 | 0.9 | 1.29 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 19 | 1.54 | 0.9 | 1.29 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 19 | 1.5 | 0.59 | 1.69 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 19 | 1.5 | 0.59 | 1.69 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 19 | 1.5 | 0.59 | 1.69 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 19 | 1.48 | 0.41 | 1.33 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 19 | 1.48 | 0.36 | 1.54 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 19 | 1.47 | 0.53 | 1.44 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 19 | 1.47 | 0.53 | 1.44 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 19 | 1.47 | 0.53 | 1.44 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 19 | 1.47 | 0.61 | 1.63 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 19 | 1.46 | 0.37 | 1.49 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 19 | 1.43 | 0.53 | 1.39 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 19 | 1.43 | 0.53 | 1.39 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 19 | 1.42 | 0.69 | 1.82 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 19 | 1.42 | 0.69 | 1.82 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 19 | 1.41 | 1.04 | 0.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 19 | 1.41 | 1.04 | 0.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 19 | 1.41 | 1.04 | 0.91 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 19 | 1.4 | 0.87 | 2.01 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 19 | 1.39 | 1.11 | 0.82 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 19 | 1.38 | 0.63 | 1.29 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 19 | 1.38 | 0.63 | 1.29 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 19 | 1.38 | 0.63 | 1.29 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 19 | 1.38 | 0.95 | 2.05 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 19 | 1.37 | 0.68 | 1.57 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 19 | 1.37 | 0.68 | 1.57 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 19 | 1.37 | 0.68 | 1.57 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 19 | 1.37 | 0.97 | 1.53 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 19 | 1.37 | 0.97 | 1.53 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 19 | 1.37 | 0.97 | 1.53 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 19 | 1.37 | 0.19 | 1.45 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 19 | 1.37 | 0.53 | 1.58 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 19 | 1.37 | 0.53 | 1.58 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 19 | 1.37 | 0.9 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 19 | 1.37 | 0.9 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 19 | 1.37 | 0.9 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 19 | 1.37 | 0.9 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 19 | 1.37 | 0.9 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 19 | 1.37 | 0.9 | 1.17 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 19 | 1.37 | 0.58 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 19 | 1.37 | 0.58 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 19 | 1.37 | 0.58 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 19 | 1.37 | 0.58 | 1.4 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 19 | 1.36 | 0.54 | 1.19 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 19 | 1.36 | 0.54 | 1.19 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 19 | 1.36 | 0.54 | 1.19 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 19 | 1.35 | 1.13 | 1.07 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 19 | 1.35 | 1.13 | 1.07 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 19 | 1.35 | 1.33 | 0.9 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 19 | 1.35 | 0.86 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 19 | 1.35 | 0.86 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 19 | 1.35 | 0.86 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 19 | 1.35 | 0.86 | 1.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 19 | 1.35 | 0.86 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 19 | 1.35 | 0.86 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 19 | 1.35 | 0.86 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 19 | 1.35 | 0.86 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 19 | 1.35 | 0.86 | 1.24 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 19 | 1.34 | 0.94 | 1.01 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 19 | 1.34 | 1.15 | 0.72 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 19 | 1.34 | 0.6 | 1.29 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 19 | 1.34 | 0.58 | 1.25 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 19 | 1.34 | 0.8 | 1.37 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 19 | 1.34 | 0.8 | 1.37 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 19 | 1.34 | 0.8 | 1.37 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 19 | 1.33 | 0.64 | 1.39 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 19 | 1.33 | 0.64 | 1.39 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 19 | 1.33 | 0.64 | 1.39 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 19 | 1.32 | 0.71 | 1.42 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 19 | 1.32 | 0.71 | 1.42 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 19 | 1.32 | 0.71 | 1.42 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 19 | 1.31 | 0.51 | 1.28 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 19 | 1.31 | 0.51 | 1.28 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 19 | 1.31 | 0.51 | 1.28 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 19 | 1.31 | 0.38 | 1.33 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 19 | 1.31 | 0.38 | 1.33 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 19 | 1.31 | 0.38 | 1.33 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 19 | 1.31 | 0.78 | 1.08 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 19 | 1.31 | 0.78 | 1.08 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 19 | 1.31 | 0.78 | 1.08 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 19 | 1.29 | 0.44 | 1.43 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 19 | 1.28 | 0.53 | 1.35 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 19 | 1.28 | 0.53 | 1.35 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 19 | 1.28 | 0.53 | 1.35 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 19 | 1.27 | 0.89 | 0.87 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 19 | 1.27 | 0.89 | 0.87 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 19 | 1.27 | 0.89 | 0.87 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 19 | 1.26 | 0.34 | 1.19 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 19 | 1.26 | 0.34 | 1.19 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 19 | 1.24 | 0.59 | 1.12 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 19 | 1.24 | 0.59 | 1.12 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 19 | 1.24 | 0.59 | 1.12 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 19 | 1.23 | 0.83 | 0.97 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 19 | 1.23 | 0.83 | 0.97 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 19 | 1.22 | 1.1 | 1.33 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 19 | 1.22 | 1.1 | 1.33 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 19 | 1.17 | 0.4 | 1.45 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 19 | 1.17 | 0.89 | 0.95 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 19 | 1.17 | 0.87 | 0.81 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 19 | 1.17 | 0.87 | 0.81 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 19 | 1.17 | 0.87 | 0.81 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 19 | 1.17 | 0.71 | 0.96 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 19 | 1.17 | 0.71 | 0.96 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 19 | 1.17 | 0.71 | 0.96 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 19 | 1.17 | 0.91 | 1.0 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 19 | 1.17 | 0.91 | 1.0 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 19 | 1.16 | 0.2 | 1.2 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 19 | 1.16 | 0.65 | 1.11 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 19 | 1.15 | 0.77 | 1.39 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 19 | 1.15 | 0.86 | 1.01 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 19 | 1.15 | 0.86 | 1.01 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 19 | 1.14 | 0.59 | 1.56 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 19 | 1.12 | 0.7 | 0.73 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 19 | 1.12 | 0.7 | 0.73 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 19 | 1.12 | 0.37 | 1.13 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 19 | 1.1 | 0.74 | 0.98 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 19 | 1.1 | 0.74 | 0.98 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 19 | 1.1 | 0.74 | 0.98 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 19 | 1.1 | 0.74 | 0.98 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 19 | 1.1 | 0.74 | 0.98 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 19 | 1.1 | 0.74 | 0.98 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 19 | 1.1 | 0.47 | 1.33 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 19 | 1.09 | 0.52 | 1.21 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 19 | 1.09 | 0.18 | 1.06 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 19 | 1.09 | 0.18 | 1.06 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 19 | 1.09 | 0.18 | 1.06 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 19 | 1.07 | 0.26 | 1.1 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 19 | 1.07 | 0.26 | 1.1 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 19 | 1.07 | 0.65 | 1.14 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 19 | 1.07 | 0.65 | 1.14 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 19 | 1.07 | 0.65 | 1.14 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 19 | 1.07 | 0.49 | 1.09 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 19 | 1.07 | 0.83 | 0.7 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 19 | 1.06 | 0.44 | 0.97 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 19 | 1.06 | 0.54 | 0.96 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 19 | 1.06 | 0.57 | 1.08 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 19 | 1.06 | 0.57 | 1.08 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 19 | 1.06 | 0.57 | 1.08 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 19 | 1.06 | 0.22 | 1.18 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 19 | 1.05 | 0.81 | 1.4 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 19 | 1.05 | 0.35 | 0.82 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 19 | 1.05 | 0.35 | 0.82 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 19 | 1.05 | 0.8 | 0.7 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 19 | 1.05 | 0.8 | 0.7 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 19 | 1.05 | 0.8 | 0.7 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 19 | 1.05 | 0.87 | 1.04 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 19 | 1.05 | 1.03 | 0.71 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 19 | 1.05 | 1.03 | 0.71 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 19 | 1.05 | 0.33 | 0.93 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 19 | 1.05 | 0.34 | 0.98 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 19 | 1.05 | 0.34 | 0.98 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 19 | 1.04 | 0.35 | 1.22 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 19 | 1.03 | 0.72 | 0.86 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 19 | 1.03 | 0.47 | 1.35 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 19 | 1.03 | 0.24 | 1.09 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 19 | 1.03 | 0.24 | 1.09 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 19 | 1.03 | 0.44 | 1.18 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 19 | 1.02 | 0.37 | 1.17 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 19 | 1.02 | 0.37 | 1.17 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 19 | 1.02 | 0.37 | 1.17 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 19 | 1.02 | 0.57 | 1.04 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 19 | 1.02 | 0.57 | 1.04 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 19 | 1.02 | 0.57 | 1.04 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 19 | 1.02 | 0.28 | 1.1 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 19 | 1.02 | 0.28 | 1.1 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 19 | 1.02 | 0.28 | 1.1 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 19 | 1.0 | 0.82 | 0.69 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 19 | 1.0 | 0.82 | 0.69 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 19 | 1.0 | 0.82 | 0.69 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 19 | 1.0 | 0.24 | 1.01 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 19 | 0.96 | 0.54 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 19 | 0.96 | 0.54 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 19 | 0.96 | 0.54 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 19 | 0.96 | 0.54 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 19 | 0.96 | 0.54 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 19 | 0.96 | 0.54 | 1.0 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 19 | 0.96 | 0.47 | 0.98 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 19 | 0.96 | 0.47 | 0.98 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 19 | 0.96 | 0.47 | 0.98 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 19 | 0.96 | 0.47 | 0.98 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 19 | 0.96 | 0.47 | 0.98 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 19 | 0.96 | 0.47 | 0.98 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 19 | 0.93 | 0.49 | 0.94 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 19 | 0.93 | 0.49 | 0.94 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 19 | 0.93 | 0.49 | 0.94 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 19 | 0.92 | 0.38 | 0.86 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 19 | 0.92 | 0.38 | 0.86 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 19 | 0.92 | 0.38 | 0.86 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 19 | 0.91 | 0.82 | 0.62 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 19 | 0.91 | 0.58 | 0.76 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 19 | 0.9 | 0.45 | 0.79 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 19 | 0.9 | 0.45 | 0.79 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 19 | 0.9 | 0.45 | 0.79 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 19 | 0.89 | 0.18 | 0.95 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 19 | 0.88 | 0.05 | 0.88 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 19 | 0.88 | 0.31 | 1.04 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 19 | 0.87 | 0.35 | 0.91 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 19 | 0.87 | 0.35 | 0.91 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 19 | 0.87 | 0.35 | 0.91 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 19 | 0.87 | 0.48 | 0.83 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 19 | 0.87 | 0.5 | 1.01 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 19 | 0.85 | 0.17 | 0.9 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 19 | 0.83 | 0.38 | 1.0 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 19 | 0.83 | 0.38 | 1.0 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 19 | 0.82 | 0.39 | 0.9 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 19 | 0.82 | 0.05 | 0.83 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 19 | 0.82 | 0.32 | 0.81 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 19 | 0.82 | 0.32 | 0.81 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 19 | 0.82 | 0.22 | 0.78 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 19 | 0.81 | 0.38 | 0.65 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 19 | 0.79 | 0.32 | 0.95 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 19 | 0.79 | 0.32 | 0.95 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 19 | 0.78 | 0.25 | 0.72 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 19 | 0.77 | 0.41 | 0.79 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 19 | 0.77 | 0.41 | 0.79 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 19 | 0.77 | 0.6 | 0.6 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 19 | 0.77 | 0.6 | 0.6 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 19 | 0.77 | 0.6 | 0.6 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 19 | 0.76 | 0.3 | 0.74 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 19 | 0.74 | 0.23 | 0.7 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 19 | 0.74 | 0.23 | 0.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 19 | 0.74 | 0.51 | 0.64 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 19 | 0.73 | 0.5 | 0.73 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 19 | 0.73 | 0.5 | 0.73 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 19 | 0.73 | 0.5 | 0.73 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 19 | 0.73 | 0.5 | 0.73 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 19 | 0.73 | 0.5 | 0.73 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 19 | 0.73 | 0.5 | 0.73 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 19 | 0.73 | 0.5 | 0.73 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 19 | 0.73 | 0.5 | 0.73 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 19 | 0.73 | 0.5 | 0.73 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 19 | 0.72 | 0.47 | 0.68 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 19 | 0.72 | 0.47 | 0.68 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 19 | 0.72 | 0.47 | 0.68 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 19 | 0.72 | 0.4 | 0.97 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 19 | 0.69 | 0.33 | 0.74 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 19 | 0.69 | 0.33 | 0.74 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 19 | 0.67 | 0.46 | 0.54 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 19 | 0.66 | 0.21 | 0.72 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 19 | 0.65 | 0.19 | 0.61 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 19 | 0.65 | 0.19 | 0.61 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 19 | 0.65 | 0.45 | 0.48 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 19 | 0.65 | 0.45 | 0.48 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 19 | 0.65 | 0.45 | 0.48 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 19 | 0.65 | 0.22 | 0.66 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 19 | 0.64 | 0.26 | 0.65 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 19 | 0.64 | 0.28 | 0.88 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 19 | 0.64 | 0.59 | 0.28 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 19 | 0.64 | 0.59 | 0.28 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 19 | 0.62 | 0.47 | 0.42 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 19 | 0.62 | 0.47 | 0.42 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 19 | 0.62 | 0.01 | 0.62 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 19 | 0.61 | 0.1 | 0.61 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 19 | 0.6 | 0.25 | 0.6 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 19 | 0.6 | 0.25 | 0.6 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 19 | 0.6 | 0.25 | 0.6 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 19 | 0.6 | 0.35 | 0.67 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 19 | 0.6 | 0.35 | 0.67 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 19 | 0.6 | 0.35 | 0.67 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 19 | 0.59 | 0.28 | 0.55 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 19 | 0.59 | 0.28 | 0.55 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 19 | 0.59 | 0.22 | 0.71 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 19 | 0.58 | 0.17 | 0.61 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 19 | 0.58 | 0.17 | 0.61 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 19 | 0.57 | 0.17 | 0.64 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 19 | 0.57 | 0.17 | 0.64 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 19 | 0.57 | 0.17 | 0.64 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 19 | 0.53 | 0.18 | 0.57 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 19 | 0.53 | 0.18 | 0.57 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 19 | 0.53 | 0.18 | 0.57 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 19 | 0.53 | 0.23 | 0.63 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 19 | 0.52 | 0.05 | 0.54 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 19 | 0.52 | 0.05 | 0.54 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 19 | 0.51 | 0.24 | 0.45 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 19 | 0.51 | 0.24 | 0.45 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 19 | 0.51 | 0.24 | 0.45 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 19 | 0.5 | 0.09 | 0.53 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 19 | 0.5 | 0.01 | 0.5 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 19 | 0.5 | 0.15 | 0.53 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 19 | 0.5 | 0.15 | 0.53 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 19 | 0.5 | 0.26 | 0.68 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 19 | 0.5 | 0.26 | 0.68 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 19 | 0.5 | 0.26 | 0.68 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 19 | 0.49 | 0.07 | 0.5 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 19 | 0.49 | 0.26 | 0.37 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 19 | 0.49 | 0.26 | 0.37 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 19 | 0.49 | 0.27 | 0.42 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 19 | 0.49 | 0.27 | 0.42 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 19 | 0.49 | 0.27 | 0.42 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 19 | 0.48 | 0.18 | 0.45 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 19 | 0.47 | 0.17 | 0.5 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 19 | 0.46 | 0.27 | 0.32 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 19 | 0.46 | 0.27 | 0.32 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 19 | 0.46 | 0.02 | 0.47 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 19 | 0.45 | 0.31 | 0.33 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 19 | 0.45 | 0.31 | 0.33 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 19 | 0.44 | 0.15 | 0.48 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 19 | 0.44 | 0.15 | 0.48 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 19 | 0.44 | 0.09 | 0.44 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 19 | 0.42 | 0.24 | 0.51 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 19 | 0.41 | 0.15 | 0.41 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 19 | 0.41 | 0.15 | 0.41 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 19 | 0.41 | 0.1 | 0.41 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 19 | 0.41 | 0.1 | 0.44 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 19 | 0.41 | 0.1 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 19 | 0.39 | 0.12 | 0.36 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 19 | 0.39 | 0.04 | 0.4 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 19 | 0.38 | 0.19 | 0.46 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 19 | 0.37 | 0.05 | 0.37 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 19 | 0.37 | 0.12 | 0.37 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 19 | 0.37 | 0.12 | 0.37 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 19 | 0.37 | 0.12 | 0.37 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 19 | 0.37 | 0.05 | 0.37 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 19 | 0.37 | 0.12 | 0.36 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 19 | 0.37 | 0.12 | 0.36 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 19 | 0.36 | 0.07 | 0.38 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 19 | 0.36 | 0.14 | 0.36 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 19 | 0.36 | 0.14 | 0.36 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 19 | 0.36 | 0.14 | 0.36 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 19 | 0.36 | 0.18 | 0.32 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 19 | 0.36 | 0.18 | 0.32 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 19 | 0.35 | 0.15 | 0.32 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 19 | 0.35 | 0.15 | 0.32 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 19 | 0.35 | 0.11 | 0.41 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 19 | 0.32 | 0.17 | 0.29 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 19 | 0.32 | 0.17 | 0.29 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 19 | 0.31 | 0.04 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 19 | 0.31 | 0.04 | 0.32 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 19 | 0.3 | 0.12 | 0.33 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 19 | 0.3 | 0.12 | 0.33 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 19 | 0.3 | 0.09 | 0.29 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 19 | 0.3 | 0.09 | 0.29 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 19 | 0.3 | 0.09 | 0.29 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 19 | 0.29 | 0.17 | 0.25 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 19 | 0.29 | 0.17 | 0.25 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 19 | 0.27 | 0.11 | 0.24 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 19 | 0.26 | 0.09 | 0.26 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 19 | 0.26 | 0.08 | 0.3 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 19 | 0.26 | 0.08 | 0.3 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 19 | 0.26 | 0.07 | 0.24 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 19 | 0.26 | 0.07 | 0.24 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 19 | 0.25 | 0.08 | 0.24 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 19 | 0.25 | 0.08 | 0.24 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 19 | 0.25 | 0.08 | 0.24 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 19 | 0.25 | 0.08 | 0.24 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 19 | 0.22 | 0.06 | 0.22 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 19 | 0.21 | 0.07 | 0.17 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 19 | 0.2 | 0.02 | 0.21 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 19 | 0.2 | 0.03 | 0.2 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 19 | 0.14 | 0.02 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 19 | 0.14 | 0.02 | 0.14 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 18 | 17.78 | 15.76 | 19.35 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 18 | 15.69 | 13.4 | 20.67 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 18 | 13.95 | 9.05 | 20.89 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 18 | 13.68 | 11.58 | 19.64 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 18 | 12.89 | 8.81 | 19.77 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 18 | 12.02 | 8.96 | 11.14 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 18 | 12.01 | 5.81 | 14.68 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 18 | 11.27 | 9.35 | 16.92 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 18 | 11.26 | 6.98 | 13.94 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 18 | 10.95 | 8.82 | 14.6 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 18 | 9.31 | 6.74 | 14.26 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 18 | 7.45 | 4.98 | 10.74 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 18 | 4.53 | 2.77 | 5.47 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 18 | 4.05 | 3.02 | 6.06 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 18 | 4.05 | 3.02 | 6.06 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 18 | 4.05 | 3.02 | 6.06 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 18 | 3.49 | 2.01 | 2.74 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 18 | 2.99 | 0.69 | 2.78 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 18 | 2.99 | 0.69 | 2.78 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 18 | 2.99 | 0.69 | 2.78 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 18 | 2.73 | 0.99 | 2.9 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 18 | 2.69 | 2.36 | 3.18 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 18 | 2.45 | 1.8 | 3.49 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 18 | 2.45 | 1.8 | 3.49 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 18 | 2.45 | 1.8 | 3.49 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 18 | 2.36 | 1.84 | 1.5 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 18 | 2.34 | 0.84 | 2.1 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 18 | 2.34 | 0.84 | 2.1 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 18 | 2.34 | 0.84 | 2.1 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 18 | 2.29 | 0.62 | 2.46 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 18 | 2.26 | 1.28 | 2.1 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 18 | 2.26 | 1.28 | 2.1 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 18 | 2.26 | 1.28 | 2.1 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 18 | 2.22 | 0.99 | 2.59 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 18 | 2.22 | 0.99 | 2.59 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 18 | 2.15 | 0.52 | 2.3 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 18 | 2.13 | 0.92 | 2.51 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 18 | 2.07 | 1.65 | 1.19 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 18 | 2.07 | 1.65 | 1.19 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 18 | 2.01 | 2.05 | 1.12 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 18 | 1.99 | 1.07 | 2.12 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 18 | 1.99 | 1.07 | 2.12 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 18 | 1.99 | 1.07 | 2.12 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 18 | 1.96 | 0.7 | 1.97 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 18 | 1.95 | 0.79 | 2.06 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 18 | 1.95 | 0.79 | 2.06 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 18 | 1.93 | 1.3 | 2.22 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 18 | 1.93 | 1.3 | 2.22 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 18 | 1.92 | 1.01 | 2.7 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 18 | 1.9 | 1.34 | 1.91 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 18 | 1.9 | 1.34 | 1.91 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 18 | 1.87 | 0.52 | 2.02 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 18 | 1.86 | 0.73 | 2.18 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 18 | 1.86 | 0.73 | 2.18 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 18 | 1.84 | 1.01 | 1.52 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 18 | 1.79 | 0.41 | 1.86 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 18 | 1.74 | 1.3 | 1.35 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 18 | 1.74 | 1.3 | 1.35 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 18 | 1.74 | 1.56 | 1.84 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 18 | 1.74 | 1.56 | 1.84 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 18 | 1.74 | 1.56 | 1.84 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 18 | 1.71 | 0.96 | 1.64 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 18 | 1.7 | 0.99 | 1.38 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 18 | 1.7 | 0.99 | 1.38 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 18 | 1.7 | 0.99 | 1.38 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 18 | 1.69 | 0.89 | 1.54 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 18 | 1.67 | 0.58 | 1.82 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 18 | 1.66 | 1.42 | 1.31 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 18 | 1.66 | 1.42 | 1.31 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 18 | 1.63 | 0.4 | 1.68 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 18 | 1.62 | 1.35 | 1.84 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 18 | 1.62 | 1.35 | 1.84 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 18 | 1.6 | 0.44 | 1.51 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 18 | 1.6 | 0.44 | 1.51 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 18 | 1.59 | 0.82 | 1.46 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 18 | 1.59 | 0.82 | 1.46 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 18 | 1.59 | 0.82 | 1.46 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 18 | 1.59 | 0.82 | 1.46 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 18 | 1.59 | 0.82 | 1.46 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 18 | 1.59 | 0.82 | 1.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 18 | 1.56 | 0.55 | 1.47 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 18 | 1.56 | 0.55 | 1.47 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 18 | 1.56 | 0.55 | 1.47 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 18 | 1.56 | 1.02 | 1.56 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 18 | 1.54 | 0.25 | 1.6 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 18 | 1.53 | 1.24 | 1.09 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 18 | 1.53 | 1.24 | 1.09 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 18 | 1.52 | 0.55 | 1.74 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 18 | 1.51 | 1.05 | 1.17 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 18 | 1.51 | 1.05 | 1.17 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 18 | 1.51 | 1.05 | 1.17 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 18 | 1.5 | 0.52 | 1.73 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 18 | 1.49 | 0.64 | 1.5 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 18 | 1.49 | 0.64 | 1.5 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 18 | 1.49 | 0.64 | 1.5 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 18 | 1.48 | 0.69 | 1.5 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 18 | 1.48 | 0.69 | 1.5 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 18 | 1.48 | 0.69 | 1.5 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 18 | 1.48 | 0.97 | 1.25 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 18 | 1.46 | 0.87 | 1.21 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 18 | 1.46 | 0.87 | 1.21 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 18 | 1.46 | 0.87 | 1.21 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 18 | 1.44 | 0.34 | 1.5 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 18 | 1.42 | 0.68 | 1.66 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 18 | 1.41 | 0.72 | 1.42 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 18 | 1.41 | 0.72 | 1.42 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 18 | 1.41 | 0.72 | 1.42 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 18 | 1.41 | 0.73 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 18 | 1.41 | 0.73 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 18 | 1.41 | 0.73 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 18 | 1.41 | 0.73 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 18 | 1.41 | 0.73 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 18 | 1.41 | 0.73 | 1.69 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 18 | 1.38 | 0.26 | 1.51 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 18 | 1.37 | 0.83 | 1.28 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 18 | 1.37 | 0.83 | 1.28 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 18 | 1.36 | 1.07 | 1.14 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 18 | 1.36 | 1.07 | 1.14 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 18 | 1.36 | 0.71 | 1.18 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 18 | 1.36 | 0.71 | 1.18 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 18 | 1.36 | 0.71 | 1.18 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 18 | 1.32 | 0.56 | 1.09 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 18 | 1.32 | 0.56 | 1.09 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 18 | 1.31 | 0.89 | 1.52 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 18 | 1.31 | 0.89 | 1.52 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 18 | 1.3 | 1.42 | 0.8 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 18 | 1.3 | 1.42 | 0.8 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 18 | 1.3 | 1.42 | 0.8 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 18 | 1.29 | 0.79 | 1.47 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 18 | 1.29 | 0.54 | 1.4 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 18 | 1.28 | 0.88 | 1.21 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 18 | 1.28 | 0.88 | 1.21 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 18 | 1.28 | 0.88 | 1.21 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 18 | 1.27 | 0.79 | 1.68 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 18 | 1.25 | 0.89 | 1.09 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 18 | 1.25 | 0.89 | 1.09 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 18 | 1.25 | 0.89 | 1.09 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 18 | 1.25 | 0.69 | 1.2 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 18 | 1.24 | 0.59 | 1.29 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 18 | 1.21 | 0.14 | 1.25 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 18 | 1.2 | 1.04 | 0.96 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 18 | 1.2 | 0.55 | 1.4 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 18 | 1.2 | 0.55 | 1.4 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 18 | 1.2 | 0.55 | 1.4 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 18 | 1.2 | 0.55 | 1.4 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 18 | 1.19 | 0.63 | 1.18 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 18 | 1.18 | 0.65 | 1.22 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 18 | 1.18 | 0.65 | 1.22 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 18 | 1.18 | 0.65 | 1.22 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 18 | 1.18 | 0.65 | 1.22 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 18 | 1.18 | 0.65 | 1.22 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 18 | 1.18 | 0.65 | 1.22 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 18 | 1.18 | 0.51 | 1.2 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 18 | 1.16 | 0.63 | 1.05 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 1.16 | 0.63 | 1.05 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 18 | 1.16 | 0.63 | 1.05 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 18 | 1.16 | 0.63 | 1.05 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 1.16 | 0.63 | 1.05 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 18 | 1.16 | 0.63 | 1.05 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 18 | 1.15 | 0.48 | 1.35 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 18 | 1.14 | 0.5 | 1.27 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 18 | 1.14 | 0.5 | 1.27 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 18 | 1.14 | 0.5 | 1.27 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 18 | 1.14 | 1.14 | 0.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 18 | 1.13 | 0.96 | 0.61 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 18 | 1.13 | 0.96 | 0.61 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 18 | 1.13 | 0.96 | 0.61 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 18 | 1.13 | 0.96 | 0.61 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 18 | 1.12 | 0.43 | 1.31 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 18 | 1.12 | 0.39 | 1.38 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 18 | 1.12 | 0.72 | 1.46 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 18 | 1.12 | 0.72 | 1.46 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 18 | 1.12 | 0.72 | 1.46 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 18 | 1.11 | 0.3 | 1.3 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 18 | 1.11 | 0.65 | 1.03 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 18 | 1.09 | 0.87 | 0.67 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 18 | 1.08 | 0.45 | 1.13 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 18 | 1.08 | 0.45 | 1.13 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 18 | 1.08 | 0.45 | 1.13 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 18 | 1.08 | 0.72 | 0.92 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 18 | 1.08 | 0.72 | 0.92 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 18 | 1.08 | 0.72 | 0.92 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 18 | 1.08 | 0.72 | 0.92 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 18 | 1.08 | 0.72 | 0.92 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 18 | 1.08 | 0.72 | 0.92 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 18 | 1.06 | 0.36 | 1.1 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 18 | 1.06 | 0.84 | 0.74 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 18 | 1.06 | 0.84 | 0.74 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 18 | 1.06 | 0.84 | 0.74 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 18 | 1.06 | 0.84 | 0.74 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 18 | 1.06 | 0.84 | 0.74 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 18 | 1.06 | 0.84 | 0.74 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 18 | 1.05 | 0.81 | 0.88 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 18 | 1.05 | 0.42 | 1.23 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 18 | 1.05 | 0.42 | 1.23 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 18 | 1.05 | 0.33 | 1.18 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 18 | 1.04 | 0.82 | 1.04 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 18 | 1.04 | 0.82 | 1.04 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 18 | 1.04 | 0.82 | 1.04 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 18 | 1.04 | 0.82 | 1.04 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 18 | 1.04 | 0.82 | 1.04 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 18 | 1.04 | 0.82 | 1.04 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 18 | 1.04 | 0.56 | 0.95 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 18 | 1.04 | 0.97 | 0.62 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 18 | 1.04 | 0.97 | 0.62 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 18 | 1.04 | 0.97 | 0.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 18 | 1.04 | 0.56 | 1.3 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 18 | 1.04 | 0.56 | 1.3 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 18 | 1.03 | 0.5 | 1.08 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 18 | 1.01 | 0.58 | 1.18 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 18 | 1.01 | 0.58 | 1.18 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 18 | 1.01 | 0.58 | 1.18 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 18 | 1.01 | 0.51 | 0.99 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 18 | 1.0 | 0.64 | 1.08 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 18 | 1.0 | 0.64 | 1.08 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 18 | 1.0 | 0.64 | 1.08 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 18 | 1.0 | 0.7 | 1.29 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 18 | 0.99 | 0.74 | 0.74 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 18 | 0.99 | 0.74 | 0.74 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 18 | 0.99 | 0.74 | 0.74 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 18 | 0.99 | 0.74 | 0.74 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 18 | 0.99 | 0.74 | 0.74 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 18 | 0.99 | 0.74 | 0.74 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 18 | 0.99 | 0.74 | 0.74 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 18 | 0.99 | 0.74 | 0.74 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 18 | 0.99 | 0.74 | 0.74 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 18 | 0.96 | 0.85 | 0.68 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 18 | 0.96 | 0.85 | 0.68 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 18 | 0.95 | 0.45 | 1.15 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 18 | 0.95 | 0.45 | 1.15 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 18 | 0.95 | 0.45 | 1.15 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 18 | 0.95 | 0.75 | 1.14 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 18 | 0.94 | 0.56 | 0.68 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 18 | 0.94 | 0.56 | 0.68 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 18 | 0.94 | 0.56 | 0.68 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 18 | 0.94 | 0.56 | 0.68 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 18 | 0.94 | 0.56 | 0.68 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 18 | 0.94 | 0.56 | 0.68 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 18 | 0.94 | 0.56 | 0.68 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 18 | 0.94 | 0.56 | 0.68 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 18 | 0.94 | 0.56 | 0.68 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 18 | 0.94 | 0.72 | 0.78 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 18 | 0.94 | 0.72 | 0.78 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 18 | 0.94 | 0.72 | 0.78 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 18 | 0.94 | 0.72 | 0.78 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 18 | 0.94 | 0.72 | 0.78 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 18 | 0.94 | 0.72 | 0.78 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 18 | 0.93 | 0.69 | 1.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 18 | 0.91 | 0.46 | 0.8 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 18 | 0.91 | 0.46 | 0.8 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 18 | 0.9 | 0.25 | 0.87 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 18 | 0.9 | 0.5 | 1.02 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 18 | 0.9 | 0.5 | 1.02 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 18 | 0.89 | 0.44 | 0.86 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 18 | 0.89 | 0.44 | 0.86 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 18 | 0.89 | 0.44 | 0.86 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 18 | 0.88 | 0.68 | 0.47 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 18 | 0.88 | 0.68 | 0.47 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 18 | 0.88 | 0.68 | 0.47 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 18 | 0.88 | 0.62 | 1.03 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 18 | 0.87 | 0.44 | 1.08 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 18 | 0.86 | 0.59 | 0.68 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 18 | 0.86 | 0.59 | 0.68 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 18 | 0.86 | 0.59 | 0.68 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 18 | 0.86 | 0.59 | 0.68 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 18 | 0.86 | 0.59 | 0.68 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 18 | 0.86 | 0.59 | 0.68 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 18 | 0.86 | 0.56 | 0.62 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 18 | 0.86 | 0.56 | 0.62 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 18 | 0.85 | 0.26 | 0.78 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 18 | 0.85 | 0.4 | 0.98 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 18 | 0.85 | 0.4 | 0.98 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 18 | 0.85 | 0.41 | 0.98 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 18 | 0.85 | 0.26 | 0.92 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 18 | 0.82 | 0.24 | 0.87 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 18 | 0.82 | 0.2 | 0.84 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 18 | 0.82 | 0.37 | 0.64 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 18 | 0.82 | 0.48 | 0.97 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 18 | 0.82 | 0.48 | 0.97 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 18 | 0.81 | 0.44 | 0.82 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 18 | 0.8 | 0.57 | 0.68 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 18 | 0.8 | 0.57 | 0.68 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 18 | 0.79 | 0.41 | 0.64 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 18 | 0.79 | 0.5 | 0.74 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 18 | 0.79 | 0.5 | 0.74 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 18 | 0.79 | 0.39 | 0.98 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 18 | 0.79 | 0.48 | 0.8 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 18 | 0.79 | 0.48 | 0.8 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 18 | 0.79 | 0.39 | 0.98 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 18 | 0.77 | 0.27 | 0.76 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 18 | 0.76 | 0.37 | 0.72 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 18 | 0.74 | 0.3 | 0.82 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 18 | 0.74 | 0.3 | 0.82 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 18 | 0.74 | 0.3 | 0.82 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 18 | 0.73 | 0.44 | 0.77 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 18 | 0.73 | 0.41 | 0.8 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 18 | 0.73 | 0.41 | 0.8 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 18 | 0.72 | 0.35 | 0.67 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 18 | 0.72 | 0.35 | 0.67 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 18 | 0.72 | 0.35 | 0.67 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 18 | 0.72 | 0.32 | 0.61 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 18 | 0.71 | 0.4 | 0.68 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 18 | 0.71 | 0.51 | 0.4 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 18 | 0.69 | 0.37 | 0.76 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 18 | 0.68 | 0.4 | 0.64 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 18 | 0.68 | 0.4 | 0.64 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 18 | 0.68 | 0.27 | 0.64 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 18 | 0.67 | 0.03 | 0.68 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 18 | 0.67 | 0.62 | 0.48 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 18 | 0.67 | 0.62 | 0.48 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 18 | 0.67 | 0.62 | 0.48 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 18 | 0.63 | 0.39 | 0.44 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 18 | 0.62 | 0.47 | 0.5 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 18 | 0.62 | 0.47 | 0.5 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 18 | 0.62 | 0.47 | 0.5 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 18 | 0.62 | 0.13 | 0.65 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 18 | 0.6 | 0.35 | 0.72 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 18 | 0.6 | 0.35 | 0.72 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 18 | 0.6 | 0.25 | 0.72 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 18 | 0.59 | 0.3 | 0.48 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 18 | 0.58 | 0.22 | 0.62 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 18 | 0.57 | 0.28 | 0.55 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 18 | 0.57 | 0.25 | 0.53 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 18 | 0.56 | 0.34 | 0.48 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 18 | 0.56 | 0.34 | 0.48 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 18 | 0.56 | 0.34 | 0.48 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 18 | 0.56 | 0.22 | 0.64 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 18 | 0.55 | 0.3 | 0.47 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 18 | 0.55 | 0.3 | 0.47 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 18 | 0.55 | 0.3 | 0.47 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 18 | 0.55 | 0.3 | 0.47 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 18 | 0.55 | 0.3 | 0.47 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 18 | 0.55 | 0.3 | 0.47 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 18 | 0.55 | 0.3 | 0.47 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 18 | 0.55 | 0.3 | 0.47 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 18 | 0.55 | 0.3 | 0.47 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 18 | 0.54 | 0.26 | 0.52 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 18 | 0.54 | 0.26 | 0.52 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 18 | 0.54 | 0.23 | 0.68 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 18 | 0.53 | 0.31 | 0.48 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 18 | 0.52 | 0.3 | 0.4 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 18 | 0.5 | 0.21 | 0.52 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 18 | 0.5 | 0.19 | 0.6 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 18 | 0.5 | 0.29 | 0.38 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 18 | 0.5 | 0.18 | 0.42 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 18 | 0.49 | 0.29 | 0.26 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 18 | 0.49 | 0.29 | 0.26 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 18 | 0.48 | 0.24 | 0.48 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 18 | 0.48 | 0.24 | 0.48 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 18 | 0.48 | 0.34 | 0.35 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 18 | 0.48 | 0.34 | 0.35 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 18 | 0.48 | 0.25 | 0.43 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 18 | 0.48 | 0.25 | 0.43 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 18 | 0.48 | 0.32 | 0.4 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 18 | 0.48 | 0.32 | 0.4 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 18 | 0.48 | 0.32 | 0.4 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 18 | 0.47 | 0.09 | 0.46 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 18 | 0.47 | 0.13 | 0.52 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 18 | 0.45 | 0.22 | 0.48 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 18 | 0.45 | 0.24 | 0.4 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 18 | 0.45 | 0.24 | 0.4 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 18 | 0.45 | 0.24 | 0.4 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 18 | 0.42 | 0.15 | 0.41 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 18 | 0.42 | 0.15 | 0.41 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 18 | 0.41 | 0.09 | 0.43 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 18 | 0.41 | 0.13 | 0.39 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 18 | 0.41 | 0.13 | 0.39 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 18 | 0.41 | 0.16 | 0.43 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 18 | 0.41 | 0.16 | 0.43 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 18 | 0.4 | 0.14 | 0.38 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 18 | 0.39 | 0.18 | 0.4 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 18 | 0.39 | 0.18 | 0.4 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 18 | 0.39 | 0.18 | 0.4 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 18 | 0.39 | 0.23 | 0.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 18 | 0.39 | 0.23 | 0.29 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 18 | 0.38 | 0.23 | 0.32 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 18 | 0.38 | 0.23 | 0.32 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 18 | 0.38 | 0.23 | 0.32 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 18 | 0.38 | 0.18 | 0.34 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 18 | 0.37 | 0.23 | 0.31 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 18 | 0.37 | 0.17 | 0.36 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 18 | 0.36 | 0.16 | 0.29 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 18 | 0.35 | 0.17 | 0.33 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 18 | 0.35 | 0.17 | 0.33 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 18 | 0.34 | 0.08 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 18 | 0.34 | 0.08 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 18 | 0.34 | 0.08 | 0.4 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 18 | 0.34 | 0.18 | 0.29 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 18 | 0.32 | 0.02 | 0.32 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 18 | 0.32 | 0.02 | 0.32 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 18 | 0.32 | 0.02 | 0.32 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 18 | 0.32 | 0.07 | 0.29 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 18 | 0.32 | 0.07 | 0.29 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 18 | 0.3 | 0.07 | 0.33 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 18 | 0.3 | 0.07 | 0.33 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 18 | 0.29 | 0.06 | 0.3 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 18 | 0.29 | 0.06 | 0.3 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 18 | 0.27 | 0.09 | 0.32 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 18 | 0.27 | 0.09 | 0.32 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 18 | 0.24 | 0.06 | 0.24 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 18 | 0.22 | 0.06 | 0.22 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 18 | 0.22 | 0.06 | 0.22 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 18 | 0.21 | 0.09 | 0.18 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 18 | 0.21 | 0.09 | 0.18 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 18 | 0.21 | 0.04 | 0.21 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 18 | 0.19 | 0.05 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 18 | 0.19 | 0.05 | 0.19 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 18 | 0.18 | 0.05 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 18 | 0.16 | 0.02 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 18 | 0.16 | 0.02 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 18 | 0.16 | 0.02 | 0.16 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 17 | 17.01 | 13.58 | 19.41 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 17 | 16.7 | 13.04 | 23.6 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 17 | 16.7 | 13.04 | 23.6 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 17 | 16.7 | 13.04 | 23.6 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 17 | 15.74 | 12.89 | 24.49 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 17 | 15.74 | 12.89 | 24.49 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 17 | 15.74 | 12.89 | 24.49 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 17 | 14.96 | 11.87 | 23.03 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 17 | 14.96 | 11.87 | 23.03 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 17 | 14.43 | 11.4 | 21.54 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 17 | 14.25 | 10.99 | 21.24 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 17 | 14.1 | 11.28 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 17 | 14.1 | 11.28 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 17 | 14.1 | 11.28 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 17 | 14.1 | 11.28 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 17 | 14.1 | 11.28 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 17 | 14.1 | 11.28 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 17 | 14.1 | 11.28 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 17 | 14.1 | 11.28 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 17 | 14.1 | 11.28 | 20.39 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 17 | 13.48 | 7.54 | 14.88 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 17 | 13.39 | 6.27 | 17.06 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 17 | 13.23 | 7.63 | 18.75 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 17 | 13.2 | 6.67 | 17.15 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 17 | 12.78 | 10.6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 17 | 12.78 | 10.6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 17 | 12.78 | 10.6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 17 | 12.78 | 10.6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 17 | 12.78 | 10.6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 17 | 12.78 | 10.6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 17 | 12.78 | 10.6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 17 | 12.78 | 10.6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 17 | 12.78 | 10.6 | 19.94 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 17 | 12.76 | 10.14 | 19.33 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 17 | 12.74 | 7.87 | 17.71 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 17 | 11.0 | 8.0 | 15.82 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 17 | 10.82 | 7.34 | 16.01 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 17 | 9.88 | 6.69 | 13.99 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 17 | 9.65 | 5.38 | 12.55 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 17 | 9.47 | 6.31 | 12.44 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 17 | 8.33 | 3.95 | 9.91 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 17 | 8.32 | 5.72 | 12.09 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 17 | 7.63 | 5.87 | 6.11 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 17 | 6.6 | 4.82 | 9.03 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 17 | 5.29 | 3.14 | 6.66 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 17 | 5.06 | 2.91 | 6.82 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 17 | 4.87 | 2.3 | 5.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 17 | 2.81 | 2.38 | 3.05 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 17 | 2.57 | 1.21 | 2.22 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 17 | 2.53 | 1.12 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 17 | 2.53 | 1.12 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 17 | 2.53 | 1.12 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 17 | 2.53 | 1.12 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 17 | 2.53 | 1.12 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 17 | 2.53 | 1.12 | 2.66 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 17 | 2.5 | 0.99 | 2.58 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 17 | 2.5 | 0.99 | 2.58 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 17 | 2.26 | 1.26 | 2.33 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 17 | 2.26 | 1.26 | 2.33 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 17 | 2.26 | 1.26 | 2.33 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 17 | 2.23 | 1.0 | 2.35 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 17 | 2.21 | 2.25 | 1.19 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 17 | 2.21 | 2.25 | 1.19 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 17 | 2.17 | 1.07 | 1.98 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 17 | 2.1 | 1.16 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 17 | 2.1 | 1.16 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 17 | 2.1 | 1.16 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 17 | 2.1 | 1.16 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 17 | 2.1 | 1.16 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 17 | 2.1 | 1.16 | 1.82 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 17 | 1.99 | 1.19 | 1.79 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 17 | 1.94 | 1.11 | 1.76 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 17 | 1.94 | 1.11 | 1.76 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 17 | 1.94 | 1.11 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 17 | 1.92 | 1.35 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 17 | 1.92 | 1.35 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 17 | 1.92 | 1.35 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 17 | 1.92 | 1.35 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 17 | 1.92 | 1.35 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 17 | 1.92 | 1.35 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 17 | 1.92 | 1.35 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 17 | 1.92 | 1.35 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 17 | 1.92 | 1.35 | 2.02 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 17 | 1.89 | 1.48 | 2.47 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 17 | 1.85 | 1.51 | 1.1 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 17 | 1.85 | 1.51 | 1.1 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 17 | 1.81 | 1.03 | 1.63 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 17 | 1.81 | 1.03 | 1.63 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 17 | 1.81 | 1.03 | 1.63 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 17 | 1.81 | 1.03 | 1.63 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 17 | 1.81 | 1.03 | 1.63 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 17 | 1.81 | 1.03 | 1.63 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 17 | 1.81 | 1.09 | 2.14 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 17 | 1.81 | 1.09 | 2.14 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 17 | 1.81 | 1.09 | 2.14 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 17 | 1.79 | 1.52 | 1.88 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 17 | 1.78 | 1.04 | 2.2 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 17 | 1.78 | 1.04 | 2.2 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 17 | 1.78 | 1.04 | 2.2 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 17 | 1.72 | 0.81 | 1.95 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 17 | 1.72 | 0.63 | 1.77 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 17 | 1.72 | 0.63 | 1.77 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 17 | 1.64 | 1.01 | 2.29 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 17 | 1.63 | 0.36 | 1.66 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 17 | 1.6 | 0.29 | 1.49 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 17 | 1.59 | 0.63 | 1.58 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 17 | 1.59 | 0.63 | 1.58 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 17 | 1.59 | 0.63 | 1.58 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 17 | 1.58 | 0.19 | 1.59 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 17 | 1.58 | 0.19 | 1.59 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 17 | 1.57 | 0.4 | 1.74 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 17 | 1.54 | 0.99 | 1.68 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 17 | 1.53 | 0.97 | 1.07 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 17 | 1.53 | 0.97 | 1.07 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 17 | 1.53 | 0.97 | 1.07 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 17 | 1.53 | 0.77 | 1.94 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 17 | 1.52 | 1.13 | 2.02 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 17 | 1.52 | 1.13 | 2.02 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 17 | 1.52 | 1.13 | 2.02 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 17 | 1.5 | 1.15 | 2.13 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 17 | 1.5 | 1.15 | 2.13 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 17 | 1.5 | 1.15 | 2.13 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 17 | 1.48 | 0.63 | 1.5 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 17 | 1.48 | 0.63 | 1.5 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 17 | 1.45 | 0.38 | 1.59 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 17 | 1.45 | 0.96 | 1.28 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 17 | 1.45 | 0.96 | 1.28 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 17 | 1.45 | 0.96 | 1.28 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 17 | 1.39 | 1.17 | 1.53 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 17 | 1.39 | 1.17 | 1.53 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 17 | 1.38 | 1.18 | 1.64 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 17 | 1.36 | 1.03 | 1.29 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 17 | 1.36 | 1.03 | 1.29 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 17 | 1.36 | 1.03 | 1.29 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 17 | 1.35 | 1.04 | 1.12 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 17 | 1.35 | 1.04 | 1.12 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 17 | 1.29 | 0.53 | 1.2 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 17 | 1.29 | 0.53 | 1.2 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 17 | 1.28 | 1.05 | 0.75 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 17 | 1.28 | 1.05 | 0.75 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 17 | 1.27 | 0.8 | 1.65 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 17 | 1.27 | 0.81 | 1.15 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 17 | 1.27 | 0.81 | 1.15 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 17 | 1.25 | 0.96 | 1.21 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 17 | 1.25 | 0.96 | 1.21 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 17 | 1.25 | 0.96 | 1.21 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 17 | 1.24 | 0.62 | 1.45 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 17 | 1.23 | 0.55 | 1.01 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 17 | 1.23 | 0.55 | 1.01 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 17 | 1.23 | 0.55 | 1.01 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 17 | 1.23 | 0.55 | 1.01 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 17 | 1.23 | 1.05 | 1.26 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 17 | 1.22 | 0.43 | 1.37 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 17 | 1.22 | 0.83 | 0.95 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 17 | 1.22 | 0.83 | 0.95 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 17 | 1.22 | 0.83 | 0.95 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 17 | 1.22 | 1.04 | 0.73 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 17 | 1.22 | 1.04 | 0.73 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 17 | 1.2 | 0.79 | 1.03 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 17 | 1.2 | 0.79 | 1.03 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 17 | 1.2 | 0.79 | 1.03 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 17 | 1.2 | 0.79 | 1.03 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 17 | 1.17 | 0.3 | 1.29 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 17 | 1.17 | 0.45 | 1.06 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 17 | 1.17 | 0.45 | 1.06 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 17 | 1.17 | 0.45 | 1.06 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 17 | 1.15 | 1.12 | 0.73 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 17 | 1.13 | 0.36 | 1.06 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 17 | 1.13 | 0.36 | 1.06 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 17 | 1.13 | 0.36 | 1.06 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 17 | 1.11 | 0.59 | 1.11 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 17 | 1.11 | 0.59 | 1.11 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 17 | 1.11 | 0.59 | 1.11 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 17 | 1.11 | 1.03 | 0.69 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 17 | 1.08 | 0.5 | 1.3 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 17 | 1.08 | 0.7 | 0.91 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 17 | 1.08 | 0.7 | 0.91 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 17 | 1.08 | 0.7 | 0.91 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 17 | 1.08 | 0.7 | 0.91 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 17 | 1.08 | 0.7 | 0.91 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 17 | 1.08 | 0.7 | 0.91 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 17 | 1.07 | 0.5 | 0.9 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 17 | 1.07 | 0.81 | 0.81 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 17 | 1.04 | 0.43 | 0.9 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 17 | 1.03 | 0.54 | 1.1 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 17 | 1.02 | 0.57 | 0.81 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 17 | 1.01 | 0.78 | 0.82 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 17 | 1.01 | 0.78 | 0.82 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 17 | 1.0 | 0.72 | 0.87 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 17 | 1.0 | 0.72 | 0.87 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 17 | 1.0 | 0.72 | 0.87 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 17 | 1.0 | 0.55 | 0.88 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 17 | 1.0 | 0.55 | 0.88 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 17 | 1.0 | 0.55 | 0.88 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 17 | 0.99 | 0.82 | 0.74 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 17 | 0.99 | 0.59 | 1.3 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 17 | 0.98 | 0.54 | 1.09 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 17 | 0.96 | 0.57 | 0.7 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 17 | 0.95 | 0.37 | 1.18 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 17 | 0.95 | 0.37 | 1.18 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 17 | 0.95 | 0.61 | 0.67 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 17 | 0.95 | 0.61 | 0.67 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 17 | 0.95 | 0.39 | 1.15 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 17 | 0.95 | 0.39 | 1.15 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 17 | 0.95 | 0.39 | 1.15 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 17 | 0.94 | 0.71 | 0.76 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 17 | 0.94 | 0.71 | 0.76 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 17 | 0.94 | 0.71 | 0.76 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 17 | 0.92 | 0.85 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 17 | 0.92 | 0.85 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 17 | 0.92 | 0.85 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 17 | 0.92 | 0.85 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 17 | 0.92 | 0.85 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 17 | 0.92 | 0.85 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 17 | 0.92 | 0.85 | 0.63 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 17 | 0.92 | 0.85 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 17 | 0.92 | 0.85 | 0.63 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 17 | 0.92 | 0.47 | 0.94 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 17 | 0.92 | 0.47 | 0.94 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 17 | 0.91 | 0.6 | 0.79 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 17 | 0.91 | 0.6 | 0.79 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 17 | 0.91 | 0.6 | 0.79 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 17 | 0.91 | 0.6 | 0.79 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 17 | 0.91 | 0.6 | 0.79 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 17 | 0.91 | 0.6 | 0.79 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 17 | 0.91 | 0.6 | 0.79 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 17 | 0.91 | 0.6 | 0.79 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 17 | 0.91 | 0.6 | 0.79 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 17 | 0.9 | 0.62 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 17 | 0.9 | 0.62 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 17 | 0.9 | 0.62 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 17 | 0.9 | 0.62 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 17 | 0.9 | 0.62 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 17 | 0.9 | 0.62 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 17 | 0.9 | 0.62 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 17 | 0.9 | 0.62 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 17 | 0.9 | 0.62 | 0.89 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 17 | 0.89 | 0.42 | 0.73 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 17 | 0.89 | 0.42 | 0.73 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 17 | 0.89 | 0.42 | 0.73 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 17 | 0.85 | 0.73 | 0.75 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 17 | 0.85 | 0.73 | 0.75 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 17 | 0.85 | 0.73 | 0.75 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 17 | 0.85 | 0.55 | 1.08 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 17 | 0.85 | 0.55 | 1.08 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 17 | 0.84 | 0.62 | 0.43 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 17 | 0.83 | 0.64 | 0.78 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 17 | 0.83 | 0.64 | 0.78 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 17 | 0.83 | 0.64 | 0.78 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 17 | 0.82 | 0.55 | 1.05 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 17 | 0.82 | 0.55 | 1.05 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 17 | 0.8 | 0.57 | 0.69 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 17 | 0.8 | 0.57 | 0.69 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 17 | 0.8 | 0.57 | 0.69 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 17 | 0.78 | 0.52 | 0.89 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 17 | 0.77 | 0.45 | 0.66 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 17 | 0.77 | 0.45 | 0.66 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 17 | 0.77 | 0.45 | 0.66 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 17 | 0.77 | 0.29 | 0.9 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 17 | 0.77 | 0.44 | 0.7 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 17 | 0.77 | 0.44 | 0.7 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 17 | 0.77 | 0.44 | 0.7 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 17 | 0.77 | 0.46 | 0.81 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 17 | 0.76 | 0.34 | 0.79 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 17 | 0.76 | 0.34 | 0.79 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 17 | 0.76 | 0.34 | 0.79 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 17 | 0.75 | 0.37 | 0.65 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 17 | 0.75 | 0.4 | 0.76 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 17 | 0.75 | 0.27 | 0.78 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 17 | 0.74 | 0.47 | 0.56 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 17 | 0.74 | 0.47 | 0.56 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 17 | 0.72 | 0.3 | 0.78 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 17 | 0.72 | 0.3 | 0.78 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 17 | 0.71 | 0.3 | 0.86 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 17 | 0.71 | 0.3 | 0.86 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 17 | 0.71 | 0.3 | 0.86 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 17 | 0.71 | 0.51 | 0.61 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 17 | 0.71 | 0.51 | 0.61 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 17 | 0.71 | 0.51 | 0.61 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 17 | 0.69 | 0.4 | 0.55 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 17 | 0.67 | 0.39 | 0.53 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 17 | 0.67 | 0.43 | 0.58 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 17 | 0.67 | 0.43 | 0.58 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 17 | 0.67 | 0.46 | 0.62 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 17 | 0.67 | 0.17 | 0.59 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 17 | 0.67 | 0.17 | 0.59 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 17 | 0.65 | 0.16 | 0.71 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 17 | 0.64 | 0.47 | 0.6 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 17 | 0.64 | 0.47 | 0.6 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 17 | 0.64 | 0.47 | 0.6 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 17 | 0.63 | 0.29 | 0.59 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 17 | 0.63 | 0.29 | 0.59 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 17 | 0.63 | 0.35 | 0.71 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 17 | 0.63 | 0.28 | 0.69 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 17 | 0.63 | 0.28 | 0.69 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 17 | 0.63 | 0.37 | 0.6 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 17 | 0.62 | 0.03 | 0.63 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 17 | 0.62 | 0.26 | 0.49 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 17 | 0.62 | 0.26 | 0.49 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 17 | 0.6 | 0.41 | 0.53 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 17 | 0.6 | 0.41 | 0.53 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 17 | 0.6 | 0.34 | 0.56 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 17 | 0.59 | 0.49 | 0.47 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 17 | 0.59 | 0.49 | 0.47 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 17 | 0.59 | 0.12 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 17 | 0.59 | 0.13 | 0.64 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 17 | 0.59 | 0.24 | 0.51 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 17 | 0.59 | 0.24 | 0.51 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 17 | 0.59 | 0.37 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 17 | 0.59 | 0.37 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 17 | 0.59 | 0.37 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 17 | 0.59 | 0.37 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 17 | 0.59 | 0.37 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 17 | 0.59 | 0.37 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 17 | 0.59 | 0.37 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 17 | 0.59 | 0.37 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 17 | 0.59 | 0.37 | 0.46 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 17 | 0.58 | 0.34 | 0.45 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 17 | 0.58 | 0.34 | 0.45 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 17 | 0.58 | 0.26 | 0.69 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 17 | 0.58 | 0.26 | 0.69 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 17 | 0.57 | 0.15 | 0.59 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 17 | 0.57 | 0.36 | 0.5 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 17 | 0.57 | 0.36 | 0.5 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 17 | 0.57 | 0.36 | 0.5 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 17 | 0.56 | 0.08 | 0.59 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 17 | 0.54 | 0.1 | 0.58 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 17 | 0.51 | 0.02 | 0.52 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 17 | 0.51 | 0.38 | 0.4 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 17 | 0.51 | 0.38 | 0.4 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 17 | 0.51 | 0.38 | 0.4 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 17 | 0.51 | 0.25 | 0.47 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 17 | 0.51 | 0.25 | 0.47 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 17 | 0.51 | 0.25 | 0.47 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 17 | 0.49 | 0.35 | 0.44 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 17 | 0.49 | 0.39 | 0.36 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 17 | 0.49 | 0.39 | 0.36 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 17 | 0.49 | 0.39 | 0.36 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 17 | 0.49 | 0.19 | 0.41 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 17 | 0.47 | 0.33 | 0.44 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 17 | 0.47 | 0.33 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 17 | 0.46 | 0.08 | 0.52 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 17 | 0.45 | 0.23 | 0.5 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 17 | 0.45 | 0.23 | 0.5 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 17 | 0.44 | 0.25 | 0.64 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 17 | 0.43 | 0.35 | 0.37 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 17 | 0.43 | 0.35 | 0.37 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 17 | 0.41 | 0.19 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 17 | 0.41 | 0.19 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 17 | 0.41 | 0.19 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 17 | 0.41 | 0.19 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 17 | 0.41 | 0.19 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 17 | 0.41 | 0.19 | 0.35 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 17 | 0.4 | 0.15 | 0.42 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 17 | 0.4 | 0.16 | 0.35 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 17 | 0.4 | 0.16 | 0.35 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 17 | 0.4 | 0.16 | 0.35 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 17 | 0.39 | 0.21 | 0.33 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 17 | 0.39 | 0.21 | 0.33 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 17 | 0.39 | 0.26 | 0.31 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 17 | 0.39 | 0.18 | 0.33 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 17 | 0.39 | 0.18 | 0.33 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 17 | 0.38 | 0.15 | 0.41 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 17 | 0.38 | 0.09 | 0.41 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 17 | 0.37 | 0.2 | 0.32 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 17 | 0.37 | 0.2 | 0.32 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 17 | 0.37 | 0.2 | 0.32 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 17 | 0.37 | 0.17 | 0.33 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 17 | 0.37 | 0.17 | 0.33 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 17 | 0.37 | 0.17 | 0.33 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 17 | 0.32 | 0.16 | 0.28 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 17 | 0.32 | 0.16 | 0.28 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 17 | 0.32 | 0.16 | 0.28 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 17 | 0.3 | 0.07 | 0.31 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 17 | 0.3 | 0.07 | 0.31 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 17 | 0.29 | 0.09 | 0.32 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 17 | 0.29 | 0.09 | 0.32 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 17 | 0.28 | 0.15 | 0.24 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 17 | 0.27 | 0.09 | 0.26 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 17 | 0.25 | 0.1 | 0.26 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 17 | 0.25 | 0.1 | 0.26 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 17 | 0.22 | 0.06 | 0.21 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 17 | 0.22 | 0.06 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 17 | 0.21 | 0.1 | 0.18 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 17 | 0.21 | 0.1 | 0.18 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 17 | 0.19 | 0.04 | 0.21 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 17 | 0.19 | 0.04 | 0.21 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 17 | 0.18 | 0.02 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 17 | 0.18 | 0.02 | 0.18 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 16 | 15.7 | 9.55 | 21.84 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 16 | 11.93 | 8.05 | 17.31 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 16 | 9.7 | 6.01 | 13.18 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 16 | 9.64 | 5.57 | 12.87 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 16 | 9.38 | 5.77 | 12.9 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 16 | 8.94 | 5.49 | 11.92 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 16 | 8.34 | 4.55 | 10.91 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 16 | 8.17 | 3.52 | 10.18 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 16 | 4.16 | 1.93 | 4.66 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 16 | 3.78 | 1.85 | 4.11 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 16 | 2.86 | 1.84 | 3.12 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 16 | 2.86 | 1.84 | 3.12 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 16 | 2.86 | 1.84 | 3.12 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 16 | 2.67 | 2.24 | 1.98 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 16 | 2.63 | 1.65 | 3.41 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 16 | 2.63 | 1.65 | 3.41 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 16 | 2.63 | 1.65 | 3.41 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 16 | 2.12 | 1.81 | 2.22 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 16 | 2.12 | 1.81 | 2.22 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 16 | 2.12 | 1.81 | 2.22 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 16 | 2.05 | 1.32 | 2.05 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 16 | 1.98 | 1.5 | 2.38 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 16 | 1.98 | 1.5 | 2.38 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 16 | 1.98 | 1.5 | 2.38 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 16 | 1.96 | 0.96 | 2.18 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 16 | 1.96 | 0.96 | 2.18 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 16 | 1.96 | 0.96 | 2.18 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 16 | 1.85 | 1.15 | 1.64 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 16 | 1.85 | 1.15 | 1.64 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 16 | 1.85 | 1.15 | 1.64 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 16 | 1.85 | 1.15 | 1.64 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 16 | 1.85 | 1.15 | 1.64 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 16 | 1.85 | 1.15 | 1.64 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 16 | 1.84 | 1.48 | 1.84 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 16 | 1.84 | 1.48 | 1.84 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 16 | 1.84 | 1.48 | 1.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 16 | 1.81 | 1.11 | 1.61 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 16 | 1.81 | 1.11 | 1.61 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 16 | 1.81 | 1.11 | 1.61 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 16 | 1.81 | 1.11 | 1.61 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 16 | 1.81 | 1.11 | 1.61 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 16 | 1.81 | 1.11 | 1.61 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 16 | 1.81 | 1.11 | 1.61 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 16 | 1.81 | 1.11 | 1.61 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 16 | 1.81 | 1.11 | 1.61 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 16 | 1.66 | 0.71 | 1.58 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 16 | 1.66 | 0.71 | 1.58 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 16 | 1.66 | 0.71 | 1.58 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 16 | 1.66 | 0.71 | 1.58 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 16 | 1.62 | 0.66 | 1.78 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 16 | 1.61 | 0.45 | 1.93 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 16 | 1.61 | 0.45 | 1.93 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 16 | 1.58 | 1.19 | 1.64 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 16 | 1.58 | 1.05 | 2.17 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 16 | 1.56 | 1.09 | 1.27 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 16 | 1.54 | 0.88 | 1.2 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 16 | 1.54 | 0.88 | 1.2 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 16 | 1.54 | 0.88 | 1.2 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 16 | 1.5 | 0.7 | 1.44 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 16 | 1.5 | 0.7 | 1.44 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 16 | 1.5 | 0.45 | 1.69 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 16 | 1.49 | 1.26 | 1.04 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 16 | 1.46 | 0.4 | 1.6 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 16 | 1.44 | 1.1 | 1.16 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 16 | 1.38 | 0.88 | 1.17 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 16 | 1.38 | 0.88 | 1.17 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 16 | 1.38 | 0.88 | 1.17 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 16 | 1.38 | 0.88 | 1.17 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 16 | 1.38 | 0.88 | 1.17 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 16 | 1.38 | 0.88 | 1.17 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 16 | 1.37 | 0.52 | 1.54 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 16 | 1.37 | 1.18 | 1.34 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 16 | 1.37 | 1.18 | 1.34 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 16 | 1.37 | 1.18 | 1.34 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 16 | 1.35 | 1.23 | 0.62 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 16 | 1.33 | 0.51 | 1.18 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 16 | 1.33 | 1.0 | 0.99 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 16 | 1.33 | 1.0 | 0.99 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 16 | 1.33 | 1.0 | 0.99 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 16 | 1.33 | 1.0 | 0.99 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 16 | 1.33 | 1.0 | 0.99 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 16 | 1.33 | 1.0 | 0.99 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 16 | 1.31 | 0.96 | 1.36 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 16 | 1.31 | 0.96 | 1.36 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 16 | 1.31 | 0.96 | 1.36 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 16 | 1.31 | 0.96 | 1.36 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 16 | 1.31 | 0.93 | 0.99 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 16 | 1.31 | 0.93 | 0.99 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 16 | 1.29 | 0.7 | 1.2 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 16 | 1.29 | 0.7 | 1.2 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 16 | 1.29 | 0.7 | 1.2 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 16 | 1.29 | 0.7 | 1.36 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 16 | 1.29 | 0.7 | 1.36 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 16 | 1.29 | 0.78 | 1.44 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 16 | 1.29 | 0.78 | 1.44 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 16 | 1.27 | 0.69 | 1.48 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 16 | 1.27 | 0.61 | 1.04 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 16 | 1.27 | 0.61 | 1.04 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 16 | 1.27 | 0.61 | 1.04 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 16 | 1.27 | 0.61 | 1.04 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 16 | 1.27 | 0.61 | 1.04 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 16 | 1.27 | 0.61 | 1.04 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 16 | 1.27 | 0.61 | 1.04 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 16 | 1.27 | 0.61 | 1.04 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 16 | 1.27 | 0.61 | 1.04 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 16 | 1.26 | 0.59 | 1.0 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 16 | 1.26 | 0.59 | 1.0 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 16 | 1.25 | 0.29 | 1.35 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 16 | 1.25 | 0.29 | 1.35 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 16 | 1.19 | 0.86 | 1.17 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 16 | 1.15 | 0.19 | 1.15 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 16 | 1.15 | 0.19 | 1.15 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 16 | 1.14 | 0.32 | 1.28 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 16 | 1.14 | 0.77 | 1.27 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 16 | 1.14 | 0.77 | 1.27 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 16 | 1.14 | 0.77 | 1.27 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 16 | 1.1 | 0.11 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 16 | 1.1 | 0.11 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 16 | 1.1 | 0.11 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 16 | 1.1 | 0.11 | 1.12 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 16 | 1.1 | 0.11 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 16 | 1.1 | 0.11 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 16 | 1.1 | 0.11 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 16 | 1.1 | 0.11 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 16 | 1.1 | 0.11 | 1.12 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 16 | 1.09 | 1.06 | 0.62 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 16 | 1.09 | 1.06 | 0.62 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 16 | 1.09 | 1.06 | 0.62 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 16 | 1.07 | 0.64 | 1.28 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 16 | 0.99 | 0.54 | 1.14 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 16 | 0.99 | 0.54 | 1.14 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 16 | 0.99 | 0.54 | 1.14 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 16 | 0.99 | 0.54 | 1.14 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 16 | 0.99 | 0.54 | 1.14 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 16 | 0.99 | 0.54 | 1.14 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 16 | 0.99 | 0.56 | 1.31 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 16 | 0.98 | 0.61 | 0.94 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 16 | 0.98 | 0.61 | 0.94 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 16 | 0.96 | 0.42 | 1.17 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 16 | 0.96 | 0.49 | 0.91 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 16 | 0.96 | 0.49 | 0.91 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 0.94 | 0.22 | 0.92 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 16 | 0.92 | 0.45 | 1.17 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 16 | 0.92 | 0.52 | 1.07 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 16 | 0.9 | 0.43 | 0.88 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 16 | 0.89 | 0.65 | 0.64 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 16 | 0.89 | 0.65 | 0.64 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 16 | 0.89 | 0.65 | 0.64 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 16 | 0.89 | 0.27 | 0.91 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 16 | 0.89 | 0.72 | 0.58 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 16 | 0.89 | 0.6 | 0.84 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 16 | 0.87 | 0.49 | 0.78 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 16 | 0.87 | 0.49 | 0.78 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 16 | 0.87 | 0.49 | 0.78 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 16 | 0.87 | 0.64 | 0.69 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 16 | 0.87 | 0.64 | 0.69 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 16 | 0.87 | 0.64 | 0.69 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 16 | 0.87 | 0.64 | 0.69 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 16 | 0.85 | 0.48 | 0.82 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 16 | 0.85 | 0.48 | 0.82 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 16 | 0.85 | 0.48 | 0.82 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 16 | 0.83 | 0.64 | 0.56 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 16 | 0.82 | 0.56 | 0.96 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 16 | 0.82 | 0.56 | 0.96 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 16 | 0.82 | 0.47 | 0.83 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 16 | 0.81 | 0.12 | 0.85 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 16 | 0.81 | 0.12 | 0.85 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 16 | 0.79 | 0.5 | 0.68 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 16 | 0.76 | 0.42 | 0.7 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 16 | 0.74 | 0.42 | 1.08 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 16 | 0.74 | 0.61 | 0.6 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 16 | 0.74 | 0.61 | 0.6 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 16 | 0.74 | 0.61 | 0.6 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 16 | 0.74 | 0.59 | 0.49 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 16 | 0.74 | 0.59 | 0.49 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 16 | 0.74 | 0.31 | 0.82 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 16 | 0.73 | 0.38 | 0.66 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 16 | 0.72 | 0.44 | 0.78 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 16 | 0.71 | 0.43 | 0.72 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 16 | 0.71 | 0.43 | 0.72 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 16 | 0.71 | 0.43 | 0.72 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 16 | 0.69 | 0.03 | 0.7 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 16 | 0.68 | 0.38 | 0.59 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 16 | 0.68 | 0.38 | 0.59 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 16 | 0.68 | 0.33 | 0.66 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 16 | 0.68 | 0.33 | 0.66 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 16 | 0.68 | 0.33 | 0.66 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 16 | 0.66 | 0.47 | 0.67 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 16 | 0.66 | 0.47 | 0.67 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 16 | 0.63 | 0.16 | 0.7 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 16 | 0.63 | 0.39 | 0.58 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 16 | 0.63 | 0.39 | 0.58 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 16 | 0.63 | 0.39 | 0.58 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 16 | 0.61 | 0.27 | 0.58 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 16 | 0.61 | 0.37 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 16 | 0.61 | 0.37 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 16 | 0.61 | 0.37 | 0.89 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 16 | 0.61 | 0.27 | 0.58 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 16 | 0.6 | 0.48 | 0.43 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 16 | 0.6 | 0.48 | 0.43 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 16 | 0.58 | 0.41 | 0.34 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 16 | 0.57 | 0.34 | 0.48 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 16 | 0.57 | 0.34 | 0.48 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 16 | 0.57 | 0.34 | 0.48 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 16 | 0.57 | 0.34 | 0.48 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 16 | 0.57 | 0.34 | 0.48 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 16 | 0.57 | 0.34 | 0.48 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 16 | 0.57 | 0.28 | 0.66 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 16 | 0.57 | 0.28 | 0.66 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 16 | 0.57 | 0.28 | 0.66 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 16 | 0.55 | 0.48 | 0.38 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 16 | 0.55 | 0.48 | 0.38 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 16 | 0.55 | 0.48 | 0.38 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 16 | 0.54 | 0.28 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 16 | 0.54 | 0.28 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 16 | 0.54 | 0.28 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 16 | 0.54 | 0.28 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 16 | 0.54 | 0.28 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 16 | 0.54 | 0.28 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 16 | 0.54 | 0.28 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 16 | 0.54 | 0.28 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 16 | 0.54 | 0.28 | 0.58 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 16 | 0.54 | 0.25 | 0.63 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 16 | 0.54 | 0.25 | 0.63 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 16 | 0.54 | 0.25 | 0.63 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 16 | 0.54 | 0.25 | 0.63 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 16 | 0.54 | 0.25 | 0.63 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 16 | 0.54 | 0.25 | 0.63 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 16 | 0.52 | 0.24 | 0.46 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 16 | 0.52 | 0.24 | 0.46 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 16 | 0.51 | 0.41 | 0.38 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 16 | 0.51 | 0.41 | 0.38 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 16 | 0.49 | 0.32 | 0.4 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 16 | 0.49 | 0.32 | 0.4 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 16 | 0.48 | 0.29 | 0.38 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 16 | 0.46 | 0.27 | 0.45 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 16 | 0.46 | 0.27 | 0.45 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 16 | 0.46 | 0.3 | 0.35 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 16 | 0.45 | 0.35 | 0.39 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 16 | 0.45 | 0.18 | 0.44 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 16 | 0.45 | 0.18 | 0.44 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 16 | 0.45 | 0.15 | 0.42 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 16 | 0.45 | 0.15 | 0.42 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 16 | 0.45 | 0.15 | 0.42 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 16 | 0.44 | 0.24 | 0.38 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 16 | 0.44 | 0.24 | 0.38 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 16 | 0.44 | 0.24 | 0.38 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 16 | 0.41 | 0.32 | 0.29 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 16 | 0.41 | 0.32 | 0.3 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 16 | 0.4 | 0.17 | 0.36 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 16 | 0.4 | 0.17 | 0.36 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 16 | 0.39 | 0.23 | 0.29 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 16 | 0.38 | 0.24 | 0.22 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 16 | 0.38 | 0.24 | 0.22 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 0.37 | 0.22 | 0.36 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 16 | 0.37 | 0.14 | 0.32 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 16 | 0.36 | 0.15 | 0.46 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 16 | 0.31 | 0.2 | 0.23 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 16 | 0.31 | 0.2 | 0.23 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 16 | 0.31 | 0.14 | 0.28 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 16 | 0.31 | 0.09 | 0.34 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 16 | 0.31 | 0.09 | 0.34 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 16 | 0.31 | 0.14 | 0.25 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 16 | 0.31 | 0.13 | 0.3 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 16 | 0.29 | 0.17 | 0.24 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 16 | 0.29 | 0.17 | 0.24 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 16 | 0.27 | 0.07 | 0.27 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 16 | 0.25 | 0.07 | 0.24 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 16 | 0.25 | 0.07 | 0.24 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 16 | 0.25 | 0.07 | 0.24 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 16 | 0.22 | 0.11 | 0.18 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 16 | 0.21 | 0.08 | 0.18 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 16 | 0.21 | 0.08 | 0.18 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 16 | 0.21 | 0.08 | 0.18 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 16 | 0.18 | 0.04 | 0.18 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 16 | 0.17 | 0.12 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 16 | 0.17 | 0.12 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 16 | 0.17 | 0.12 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 16 | 0.17 | 0.12 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 16 | 0.17 | 0.12 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 16 | 0.17 | 0.12 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 16 | 0.17 | 0.12 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 16 | 0.17 | 0.12 | 0.12 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 15 | 15.08 | 8.68 | 20.38 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 15 | 14.49 | 10.03 | 18.95 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 15 | 13.47 | 9.49 | 16.98 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 15 | 12.44 | 8.29 | 17.32 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 15 | 7.55 | 4.66 | 9.58 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 15 | 7.3 | 4.84 | 9.9 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 15 | 7.29 | 4.12 | 9.19 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 15 | 6.58 | 3.46 | 8.37 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 15 | 3.29 | 2.46 | 2.42 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 15 | 2.25 | 1.24 | 2.87 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 15 | 2.19 | 1.6 | 1.95 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 15 | 2.18 | 0.57 | 2.42 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 15 | 2.16 | 1.42 | 2.02 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 15 | 2.12 | 1.4 | 2.37 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 15 | 2.1 | 1.58 | 2.02 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 15 | 2.1 | 1.58 | 2.02 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 15 | 2.04 | 1.6 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 15 | 2.04 | 1.6 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 15 | 2.04 | 1.6 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 15 | 2.04 | 1.6 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 15 | 2.04 | 1.6 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 15 | 2.04 | 1.6 | 1.65 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 15 | 2.04 | 1.67 | 2.08 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 15 | 1.97 | 1.35 | 2.31 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 15 | 1.97 | 1.35 | 2.31 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 15 | 1.91 | 1.3 | 2.67 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 15 | 1.91 | 1.3 | 2.67 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 15 | 1.91 | 1.3 | 2.67 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 15 | 1.88 | 1.36 | 2.16 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 15 | 1.88 | 1.36 | 2.16 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 15 | 1.88 | 1.36 | 2.16 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 15 | 1.87 | 0.71 | 1.56 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 15 | 1.77 | 1.29 | 1.76 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 15 | 1.75 | 1.17 | 2.19 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 15 | 1.75 | 1.17 | 2.19 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 15 | 1.75 | 1.28 | 1.78 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 15 | 1.68 | 1.23 | 1.31 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 15 | 1.68 | 1.23 | 1.31 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 15 | 1.68 | 1.23 | 1.31 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 15 | 1.68 | 1.23 | 1.31 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 15 | 1.67 | 1.15 | 2.14 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 15 | 1.67 | 1.15 | 2.14 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 15 | 1.57 | 0.97 | 2.08 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 15 | 1.55 | 1.08 | 1.18 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 15 | 1.52 | 1.09 | 1.6 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 15 | 1.52 | 1.09 | 1.68 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 15 | 1.52 | 1.09 | 1.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 15 | 1.52 | 1.09 | 1.68 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 15 | 1.49 | 0.99 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 15 | 1.49 | 0.99 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 15 | 1.49 | 0.99 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 15 | 1.49 | 0.99 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 15 | 1.49 | 0.99 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 15 | 1.49 | 0.99 | 1.63 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 15 | 1.49 | 1.06 | 1.14 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 15 | 1.49 | 1.06 | 1.14 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 15 | 1.49 | 1.06 | 1.14 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 15 | 1.46 | 0.76 | 1.73 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 15 | 1.46 | 0.76 | 1.73 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 15 | 1.46 | 0.76 | 1.73 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 15 | 1.44 | 0.42 | 1.46 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 15 | 1.4 | 0.66 | 1.56 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 15 | 1.39 | 0.99 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 15 | 1.39 | 0.99 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 15 | 1.39 | 0.99 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 15 | 1.39 | 0.99 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 15 | 1.39 | 0.99 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 15 | 1.39 | 0.99 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 15 | 1.39 | 0.99 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 15 | 1.39 | 0.99 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 15 | 1.39 | 0.99 | 1.13 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 15 | 1.38 | 0.91 | 1.8 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 15 | 1.37 | 1.06 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 15 | 1.37 | 1.06 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 15 | 1.37 | 1.06 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 15 | 1.37 | 1.06 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 15 | 1.37 | 1.06 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 15 | 1.37 | 1.06 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 15 | 1.37 | 1.06 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 15 | 1.37 | 1.06 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 15 | 1.37 | 1.06 | 1.41 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 15 | 1.31 | 1.38 | 0.41 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 15 | 1.3 | 0.6 | 1.29 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 15 | 1.3 | 0.6 | 1.29 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 15 | 1.3 | 0.6 | 1.29 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 15 | 1.25 | 0.82 | 1.24 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 15 | 1.25 | 1.44 | 0.94 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 15 | 1.25 | 1.44 | 0.94 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 15 | 1.2 | 0.89 | 1.1 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 15 | 1.2 | 0.89 | 1.1 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 15 | 1.19 | 0.81 | 1.09 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 15 | 1.17 | 0.75 | 1.35 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 15 | 1.17 | 0.75 | 1.35 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 15 | 1.13 | 0.39 | 0.9 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 15 | 1.13 | 0.55 | 1.17 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 15 | 1.13 | 0.55 | 1.17 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 15 | 1.13 | 0.55 | 1.17 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 15 | 1.1 | 0.79 | 0.66 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 15 | 1.1 | 0.79 | 0.66 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 15 | 1.1 | 0.79 | 0.66 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 15 | 1.1 | 0.79 | 0.66 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 15 | 1.1 | 0.79 | 0.66 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 15 | 1.1 | 0.79 | 0.66 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 15 | 1.1 | 0.74 | 0.94 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 15 | 1.1 | 0.74 | 0.94 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 15 | 1.1 | 0.74 | 0.94 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 15 | 1.09 | 0.27 | 1.14 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 15 | 1.09 | 0.27 | 1.14 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 15 | 1.09 | 0.27 | 1.14 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 15 | 1.09 | 0.36 | 1.2 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 15 | 1.09 | 0.36 | 1.2 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 15 | 1.09 | 0.36 | 1.2 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 15 | 1.09 | 0.46 | 1.04 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 15 | 1.09 | 0.75 | 1.04 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 15 | 1.09 | 0.75 | 1.04 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 15 | 1.09 | 0.75 | 1.04 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 15 | 1.08 | 0.62 | 0.89 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 15 | 1.08 | 0.62 | 0.89 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 15 | 1.03 | 0.79 | 0.88 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 15 | 1.03 | 0.8 | 0.73 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 15 | 1.03 | 0.8 | 0.73 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 15 | 1.03 | 0.8 | 0.73 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 15 | 1.02 | 0.42 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 15 | 1.02 | 0.42 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 15 | 1.02 | 0.42 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 15 | 1.02 | 0.42 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 15 | 1.02 | 0.42 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 15 | 1.02 | 0.42 | 0.93 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 15 | 1.02 | 0.62 | 1.44 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 15 | 1.02 | 0.62 | 1.44 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 15 | 0.99 | 0.71 | 0.81 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 15 | 0.99 | 0.71 | 0.81 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 15 | 0.99 | 0.71 | 0.81 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 15 | 0.99 | 0.59 | 1.34 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 0.95 | 0.54 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 0.95 | 0.54 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 0.95 | 0.54 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 0.95 | 0.54 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 0.95 | 0.54 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 0.95 | 0.54 | 0.85 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 15 | 0.95 | 0.26 | 1.05 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 15 | 0.95 | 0.26 | 1.05 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 15 | 0.95 | 0.26 | 1.05 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 15 | 0.95 | 0.26 | 1.05 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 15 | 0.93 | 0.24 | 0.97 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 15 | 0.93 | 0.24 | 0.97 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 15 | 0.92 | 0.57 | 0.89 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 15 | 0.92 | 0.57 | 0.89 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 15 | 0.92 | 0.57 | 0.89 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 15 | 0.92 | 0.89 | 0.6 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 15 | 0.92 | 0.89 | 0.6 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 15 | 0.92 | 0.89 | 0.6 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 15 | 0.91 | 0.19 | 1.01 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 15 | 0.9 | 0.44 | 0.69 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 15 | 0.9 | 0.44 | 0.69 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 15 | 0.89 | 0.53 | 1.15 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 15 | 0.89 | 0.7 | 0.73 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 15 | 0.89 | 0.24 | 0.97 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 15 | 0.86 | 0.56 | 0.73 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 15 | 0.86 | 0.56 | 0.73 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 15 | 0.86 | 0.24 | 0.94 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 15 | 0.85 | 0.35 | 0.91 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 15 | 0.83 | 0.99 | 0.46 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 15 | 0.83 | 0.99 | 0.46 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 15 | 0.8 | 0.44 | 0.92 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 15 | 0.8 | 0.44 | 0.92 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 15 | 0.8 | 0.73 | 0.61 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 15 | 0.79 | 0.35 | 0.76 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 15 | 0.79 | 0.35 | 0.76 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 15 | 0.79 | 0.43 | 0.87 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 15 | 0.79 | 0.43 | 0.87 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 15 | 0.79 | 0.43 | 0.87 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 15 | 0.79 | 0.43 | 0.87 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 15 | 0.79 | 0.43 | 0.87 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 15 | 0.79 | 0.43 | 0.87 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 15 | 0.79 | 0.67 | 0.37 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 15 | 0.79 | 0.67 | 0.37 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 15 | 0.79 | 0.67 | 0.37 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 15 | 0.79 | 0.67 | 0.37 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 15 | 0.79 | 0.67 | 0.37 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 15 | 0.79 | 0.67 | 0.37 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 15 | 0.79 | 0.67 | 0.37 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 15 | 0.79 | 0.67 | 0.37 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 15 | 0.79 | 0.67 | 0.37 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 15 | 0.78 | 0.5 | 0.66 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 15 | 0.78 | 0.5 | 0.66 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 15 | 0.77 | 0.18 | 0.76 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 15 | 0.77 | 0.53 | 0.71 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 15 | 0.77 | 0.53 | 0.71 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 15 | 0.77 | 0.53 | 0.71 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 15 | 0.76 | 0.6 | 0.6 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 15 | 0.76 | 0.6 | 0.6 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 15 | 0.76 | 0.6 | 0.6 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 15 | 0.75 | 0.41 | 0.64 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 15 | 0.75 | 0.41 | 0.64 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 15 | 0.75 | 0.41 | 0.64 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 15 | 0.75 | 0.2 | 0.79 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 15 | 0.75 | 0.2 | 0.79 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 15 | 0.73 | 0.47 | 0.74 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 15 | 0.73 | 0.32 | 0.69 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 15 | 0.73 | 0.32 | 0.69 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 15 | 0.72 | 0.82 | 0.39 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 15 | 0.69 | 0.3 | 0.82 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 15 | 0.69 | 0.32 | 0.86 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 15 | 0.69 | 0.32 | 0.86 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 15 | 0.69 | 0.58 | 0.51 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 15 | 0.69 | 0.58 | 0.51 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 15 | 0.68 | 0.16 | 0.65 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 15 | 0.68 | 0.42 | 0.57 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 15 | 0.67 | 0.66 | 0.43 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 15 | 0.66 | 0.32 | 0.71 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 15 | 0.66 | 0.32 | 0.71 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 15 | 0.65 | 0.32 | 0.87 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 15 | 0.65 | 0.32 | 0.87 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 15 | 0.65 | 0.58 | 0.36 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 15 | 0.65 | 0.58 | 0.36 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 15 | 0.64 | 0.02 | 0.64 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 15 | 0.63 | 0.0 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 15 | 0.63 | 0.0 | 0.63 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 15 | 0.61 | 0.31 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 15 | 0.61 | 0.31 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 15 | 0.61 | 0.31 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 15 | 0.61 | 0.31 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 15 | 0.61 | 0.31 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 15 | 0.61 | 0.31 | 0.61 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 15 | 0.59 | 0.35 | 0.57 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 15 | 0.59 | 0.35 | 0.57 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 15 | 0.58 | 0.26 | 0.69 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 15 | 0.58 | 0.26 | 0.69 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 15 | 0.57 | 0.28 | 0.74 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 15 | 0.56 | 0.22 | 0.6 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 15 | 0.56 | 0.22 | 0.6 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 15 | 0.56 | 0.28 | 0.74 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 15 | 0.56 | 0.19 | 0.54 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 15 | 0.56 | 0.15 | 0.61 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 15 | 0.56 | 0.41 | 0.46 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 15 | 0.56 | 0.41 | 0.46 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 15 | 0.56 | 0.41 | 0.46 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 15 | 0.56 | 0.23 | 0.65 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 15 | 0.53 | 0.25 | 0.56 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 15 | 0.53 | 0.29 | 0.44 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 15 | 0.53 | 0.29 | 0.44 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 15 | 0.53 | 0.32 | 0.46 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 15 | 0.53 | 0.32 | 0.46 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 15 | 0.52 | 0.34 | 0.54 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 15 | 0.52 | 0.34 | 0.54 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 15 | 0.51 | 0.28 | 0.51 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 15 | 0.48 | 0.17 | 0.59 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 15 | 0.46 | 0.28 | 0.47 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 15 | 0.46 | 0.28 | 0.47 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 15 | 0.45 | 0.31 | 0.27 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 15 | 0.45 | 0.31 | 0.27 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 15 | 0.44 | 0.08 | 0.47 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 15 | 0.43 | 0.11 | 0.43 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 15 | 0.43 | 0.11 | 0.43 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 15 | 0.43 | 0.21 | 0.55 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 15 | 0.42 | 0.21 | 0.37 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 15 | 0.42 | 0.26 | 0.37 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 15 | 0.4 | 0.13 | 0.36 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 15 | 0.4 | 0.13 | 0.36 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 15 | 0.37 | 0.13 | 0.39 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 15 | 0.37 | 0.13 | 0.39 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 15 | 0.37 | 0.24 | 0.3 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 15 | 0.37 | 0.24 | 0.3 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 15 | 0.36 | 0.16 | 0.35 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 15 | 0.36 | 0.16 | 0.35 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 15 | 0.36 | 0.16 | 0.35 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 15 | 0.35 | 0.14 | 0.3 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 15 | 0.33 | 0.11 | 0.34 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 15 | 0.33 | 0.11 | 0.34 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 15 | 0.32 | 0.16 | 0.3 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 15 | 0.32 | 0.16 | 0.3 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 15 | 0.32 | 0.16 | 0.3 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 15 | 0.31 | 0.08 | 0.31 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 15 | 0.29 | 0.19 | 0.23 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 15 | 0.29 | 0.19 | 0.23 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 15 | 0.29 | 0.11 | 0.36 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 15 | 0.28 | 0.16 | 0.24 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 15 | 0.28 | 0.16 | 0.24 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 15 | 0.28 | 0.16 | 0.24 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 15 | 0.28 | 0.16 | 0.24 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 15 | 0.27 | 0.01 | 0.27 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 15 | 0.27 | 0.01 | 0.27 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 15 | 0.26 | 0.12 | 0.3 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 15 | 0.26 | 0.12 | 0.3 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 15 | 0.26 | 0.15 | 0.23 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 15 | 0.26 | 0.15 | 0.23 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 15 | 0.26 | 0.15 | 0.23 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 15 | 0.23 | 0.06 | 0.24 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 15 | 0.23 | 0.06 | 0.24 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 15 | 0.12 | 0.01 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 15 | 0.12 | 0.01 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 15 | 0.12 | 0.01 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 15 | 0.12 | 0.01 | 0.12 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 14 | 24.11 | 14.79 | 32.16 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 14 | 17.15 | 10.38 | 22.54 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 14 | 17.15 | 10.38 | 22.54 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 14 | 17.15 | 10.38 | 22.54 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 14 | 17.15 | 10.38 | 22.54 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 14 | 17.15 | 10.38 | 22.54 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 14 | 17.15 | 10.38 | 22.54 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 14 | 17.15 | 10.38 | 22.54 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 14 | 17.15 | 10.38 | 22.54 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 14 | 17.15 | 10.38 | 22.54 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 14 | 16.48 | 10.38 | 21.86 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 14 | 16.48 | 10.38 | 21.86 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 14 | 16.48 | 10.38 | 21.86 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 14 | 16.48 | 10.38 | 21.86 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 14 | 16.48 | 10.38 | 21.86 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 14 | 16.48 | 10.38 | 21.86 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 14 | 16.48 | 10.38 | 21.86 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 14 | 16.48 | 10.38 | 21.86 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 14 | 16.48 | 10.38 | 21.86 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 14 | 16.2 | 10.26 | 20.82 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 14 | 15.33 | 9.35 | 20.62 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 14 | 14.56 | 7.97 | 18.96 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 14 | 13.61 | 8.19 | 18.26 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 14 | 13.57 | 6.4 | 17.07 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 14 | 11.65 | 7.08 | 15.66 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 14 | 10.13 | 3.56 | 11.54 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 14 | 8.2 | 4.66 | 10.66 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 14 | 7.18 | 4.07 | 8.59 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 14 | 6.73 | 3.98 | 8.43 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 14 | 6.29 | 3.42 | 7.84 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 14 | 2.75 | 1.73 | 2.81 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 14 | 2.75 | 1.73 | 2.81 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 14 | 2.34 | 1.68 | 2.76 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 14 | 2.28 | 0.8 | 2.58 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 14 | 2.28 | 0.8 | 2.58 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 14 | 2.24 | 1.39 | 2.98 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 14 | 2.16 | 1.45 | 2.04 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 14 | 2.07 | 1.49 | 2.41 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 14 | 2.04 | 1.42 | 2.13 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 14 | 2.04 | 1.29 | 2.25 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 14 | 1.96 | 1.7 | 0.98 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 14 | 1.96 | 1.7 | 0.98 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 14 | 1.96 | 1.7 | 0.98 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 14 | 1.96 | 1.26 | 2.37 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 14 | 1.96 | 1.26 | 2.37 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 14 | 1.96 | 1.26 | 2.37 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 14 | 1.84 | 1.27 | 1.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 14 | 1.77 | 0.78 | 2.03 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 14 | 1.77 | 0.78 | 2.03 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 14 | 1.77 | 0.78 | 2.03 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 14 | 1.75 | 1.27 | 1.66 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 14 | 1.75 | 1.27 | 1.66 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 14 | 1.75 | 1.27 | 1.66 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 14 | 1.69 | 1.24 | 1.5 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 14 | 1.69 | 1.24 | 1.5 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 14 | 1.69 | 1.24 | 1.5 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 14 | 1.56 | 1.22 | 1.1 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 14 | 1.51 | 1.14 | 1.36 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 14 | 1.51 | 1.14 | 1.36 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 14 | 1.44 | 1.04 | 1.45 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 14 | 1.44 | 1.04 | 1.45 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 14 | 1.44 | 1.04 | 1.45 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 14 | 1.4 | 0.69 | 1.56 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 14 | 1.36 | 0.85 | 1.59 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 14 | 1.36 | 0.85 | 1.59 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 14 | 1.36 | 0.85 | 1.59 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 14 | 1.36 | 0.85 | 1.59 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 14 | 1.36 | 0.85 | 1.59 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 14 | 1.36 | 0.85 | 1.59 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 14 | 1.36 | 0.85 | 1.59 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 14 | 1.36 | 0.85 | 1.59 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 14 | 1.36 | 0.85 | 1.59 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 14 | 1.34 | 0.22 | 1.38 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 14 | 1.33 | 0.88 | 1.34 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 14 | 1.33 | 0.88 | 1.34 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 14 | 1.33 | 0.88 | 1.34 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 14 | 1.32 | 1.19 | 0.5 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 14 | 1.32 | 1.19 | 0.5 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 14 | 1.32 | 1.19 | 0.5 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 14 | 1.32 | 1.19 | 0.5 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 14 | 1.31 | 1.14 | 0.88 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 14 | 1.31 | 1.14 | 0.88 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 14 | 1.31 | 1.14 | 0.88 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 14 | 1.3 | 1.18 | 0.72 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 14 | 1.27 | 0.29 | 1.33 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 14 | 1.24 | 0.85 | 1.21 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 14 | 1.22 | 0.2 | 1.31 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 14 | 1.21 | 0.73 | 1.29 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 14 | 1.21 | 0.73 | 1.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 14 | 1.21 | 0.73 | 1.29 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 14 | 1.2 | 0.51 | 1.4 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 14 | 1.18 | 0.51 | 1.4 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 14 | 1.16 | 0.57 | 1.2 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 14 | 1.16 | 0.57 | 1.2 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 14 | 1.16 | 0.57 | 1.2 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 14 | 1.16 | 0.57 | 1.2 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 14 | 1.16 | 0.57 | 1.2 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 14 | 1.16 | 0.57 | 1.2 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 14 | 1.15 | 1.12 | 0.81 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 14 | 1.15 | 0.63 | 1.04 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 14 | 1.15 | 0.63 | 1.04 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 14 | 1.15 | 0.63 | 1.04 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 14 | 1.09 | 0.6 | 1.4 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 14 | 1.09 | 0.6 | 1.4 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 14 | 1.09 | 0.87 | 0.76 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 14 | 1.09 | 0.87 | 0.76 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 14 | 1.09 | 0.87 | 0.76 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 14 | 1.09 | 0.87 | 0.76 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 14 | 1.09 | 0.87 | 0.76 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 14 | 1.09 | 0.87 | 0.76 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 14 | 1.09 | 0.87 | 0.76 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 14 | 1.09 | 0.87 | 0.76 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 14 | 1.09 | 0.87 | 0.76 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 14 | 1.07 | 0.89 | 0.99 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 14 | 1.07 | 0.89 | 0.99 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 14 | 1.06 | 0.35 | 1.11 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 14 | 1.04 | 0.49 | 1.19 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 14 | 1.03 | 0.79 | 1.05 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 14 | 1.03 | 0.79 | 1.05 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 14 | 1.03 | 0.79 | 1.05 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 14 | 1.03 | 0.54 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 14 | 1.03 | 0.54 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 14 | 1.03 | 0.54 | 1.36 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 14 | 1.02 | 0.6 | 0.84 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 14 | 1.02 | 0.6 | 0.84 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 14 | 0.98 | 0.53 | 1.23 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 14 | 0.98 | 0.53 | 1.23 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 14 | 0.95 | 0.43 | 1.1 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 14 | 0.95 | 0.43 | 1.1 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 14 | 0.95 | 0.43 | 1.1 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 14 | 0.94 | 0.66 | 0.74 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 14 | 0.93 | 0.62 | 0.7 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 14 | 0.88 | 0.67 | 0.58 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 14 | 0.88 | 0.67 | 0.58 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 14 | 0.88 | 0.67 | 0.58 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 14 | 0.88 | 0.67 | 0.58 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 14 | 0.86 | 0.51 | 0.98 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 14 | 0.86 | 0.18 | 0.9 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 14 | 0.85 | 0.59 | 0.86 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 14 | 0.85 | 0.59 | 0.86 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 14 | 0.85 | 0.59 | 0.86 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 14 | 0.84 | 0.64 | 0.66 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 14 | 0.84 | 0.64 | 0.66 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 14 | 0.83 | 0.56 | 0.83 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 14 | 0.83 | 0.07 | 0.81 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 14 | 0.82 | 0.52 | 0.83 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 14 | 0.8 | 0.45 | 0.76 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 14 | 0.8 | 0.45 | 0.76 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 14 | 0.8 | 0.45 | 0.76 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 14 | 0.8 | 0.45 | 0.76 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 14 | 0.8 | 0.45 | 0.76 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 14 | 0.8 | 0.45 | 0.76 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 14 | 0.78 | 0.32 | 0.81 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 14 | 0.78 | 0.32 | 0.81 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 14 | 0.78 | 0.32 | 0.81 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 14 | 0.77 | 0.78 | 0.48 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 14 | 0.75 | 0.4 | 0.78 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 14 | 0.75 | 0.4 | 0.78 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 14 | 0.75 | 0.4 | 0.78 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 14 | 0.75 | 0.4 | 0.78 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 14 | 0.75 | 0.4 | 0.78 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 14 | 0.75 | 0.4 | 0.78 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 14 | 0.73 | 0.36 | 0.85 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 14 | 0.73 | 0.48 | 0.64 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 14 | 0.73 | 0.48 | 0.64 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 14 | 0.73 | 0.48 | 0.64 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 14 | 0.72 | 0.41 | 0.99 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 14 | 0.72 | 0.41 | 0.99 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 14 | 0.71 | 0.53 | 0.71 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 14 | 0.71 | 0.53 | 0.71 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 14 | 0.71 | 0.59 | 0.42 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 14 | 0.71 | 0.59 | 0.42 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 14 | 0.71 | 0.59 | 0.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 14 | 0.71 | 0.59 | 0.42 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 14 | 0.71 | 0.59 | 0.42 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 14 | 0.71 | 0.59 | 0.42 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 14 | 0.7 | 0.31 | 0.84 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 14 | 0.7 | 0.46 | 0.5 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 14 | 0.7 | 0.46 | 0.5 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 14 | 0.69 | 0.3 | 0.84 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 14 | 0.68 | 0.37 | 0.64 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 14 | 0.68 | 0.37 | 0.64 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 14 | 0.68 | 0.56 | 0.38 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 14 | 0.68 | 0.56 | 0.38 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 14 | 0.65 | 0.42 | 0.52 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 14 | 0.65 | 0.42 | 0.52 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 14 | 0.64 | 0.29 | 0.78 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 14 | 0.64 | 0.29 | 0.78 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 14 | 0.62 | 0.33 | 0.74 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 14 | 0.62 | 0.4 | 0.5 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 14 | 0.62 | 0.4 | 0.5 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 14 | 0.62 | 0.4 | 0.5 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 14 | 0.62 | 0.37 | 0.88 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 14 | 0.62 | 0.37 | 0.88 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 14 | 0.62 | 0.37 | 0.88 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 14 | 0.6 | 0.4 | 0.47 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 14 | 0.6 | 0.4 | 0.47 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 14 | 0.58 | 0.38 | 0.46 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 14 | 0.58 | 0.3 | 0.52 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 14 | 0.58 | 0.27 | 0.52 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 14 | 0.58 | 0.27 | 0.52 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 14 | 0.58 | 0.33 | 0.5 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 14 | 0.56 | 0.35 | 0.4 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 14 | 0.56 | 0.35 | 0.4 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 14 | 0.56 | 0.35 | 0.4 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 14 | 0.55 | 0.03 | 0.56 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 14 | 0.54 | 0.26 | 0.53 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 14 | 0.52 | 0.23 | 0.56 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 14 | 0.52 | 0.23 | 0.56 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 14 | 0.51 | 0.09 | 0.53 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 14 | 0.51 | 0.13 | 0.55 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 14 | 0.51 | 0.26 | 0.45 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 14 | 0.5 | 0.42 | 0.32 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 14 | 0.48 | 0.13 | 0.55 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 14 | 0.45 | 0.05 | 0.43 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 14 | 0.43 | 0.19 | 0.48 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 14 | 0.43 | 0.1 | 0.45 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 14 | 0.43 | 0.1 | 0.45 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 14 | 0.42 | 0.36 | 0.26 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 14 | 0.42 | 0.36 | 0.26 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 14 | 0.42 | 0.19 | 0.38 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 14 | 0.42 | 0.19 | 0.38 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 14 | 0.42 | 0.19 | 0.38 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 14 | 0.41 | 0.14 | 0.42 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 14 | 0.41 | 0.39 | 0.24 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 14 | 0.41 | 0.39 | 0.24 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 14 | 0.41 | 0.3 | 0.32 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 14 | 0.41 | 0.3 | 0.32 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 14 | 0.4 | 0.16 | 0.38 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 14 | 0.4 | 0.16 | 0.38 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 14 | 0.39 | 0.19 | 0.34 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 14 | 0.39 | 0.19 | 0.34 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 14 | 0.37 | 0.22 | 0.3 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 14 | 0.37 | 0.22 | 0.3 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 14 | 0.36 | 0.16 | 0.31 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 14 | 0.36 | 0.16 | 0.31 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 14 | 0.34 | 0.18 | 0.32 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 14 | 0.34 | 0.18 | 0.32 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 14 | 0.33 | 0.13 | 0.26 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 14 | 0.32 | 0.18 | 0.28 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 14 | 0.32 | 0.18 | 0.28 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 14 | 0.32 | 0.14 | 0.26 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 14 | 0.32 | 0.14 | 0.26 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 14 | 0.31 | 0.19 | 0.18 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 14 | 0.3 | 0.16 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 14 | 0.3 | 0.16 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 14 | 0.3 | 0.16 | 0.29 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 14 | 0.3 | 0.13 | 0.3 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 14 | 0.3 | 0.13 | 0.3 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 14 | 0.3 | 0.13 | 0.3 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 14 | 0.27 | 0.13 | 0.24 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 14 | 0.27 | 0.13 | 0.24 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 14 | 0.27 | 0.09 | 0.26 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 14 | 0.27 | 0.09 | 0.26 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 14 | 0.26 | 0.09 | 0.26 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 14 | 0.26 | 0.12 | 0.2 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 14 | 0.26 | 0.12 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 14 | 0.25 | 0.17 | 0.18 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 14 | 0.25 | 0.17 | 0.18 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 14 | 0.25 | 0.17 | 0.18 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 14 | 0.22 | 0.12 | 0.18 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 14 | 0.2 | 0.06 | 0.19 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 14 | 0.2 | 0.06 | 0.19 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 14 | 0.18 | 0.06 | 0.18 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 14 | 0.18 | 0.06 | 0.18 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 14 | 0.17 | 0.04 | 0.16 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 14 | 0.17 | 0.03 | 0.16 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 14 | 0.17 | 0.03 | 0.16 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 14 | 0.17 | 0.03 | 0.16 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 14 | 0.16 | 0.03 | 0.16 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 14 | 0.16 | 0.03 | 0.16 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 13 | 21.16 | 12.81 | 25.46 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 13 | 18.85 | 10.37 | 24.31 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 13 | 18.85 | 10.37 | 24.31 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 13 | 18.85 | 10.37 | 24.31 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 13 | 17.4 | 9.38 | 21.62 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 13 | 15.07 | 8.11 | 18.66 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 13 | 13.49 | 6.6 | 16.78 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 13 | 12.96 | 6.81 | 16.52 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 13 | 12.69 | 5.78 | 15.22 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 13 | 12.29 | 6.57 | 15.53 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 13 | 11.85 | 5.18 | 14.26 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 13 | 11.82 | 5.43 | 13.94 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 13 | 11.73 | 6.24 | 15.72 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 13 | 11.55 | 5.79 | 11.42 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 13 | 11.55 | 5.79 | 11.42 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 13 | 11.44 | 5.48 | 13.71 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 13 | 11.0 | 7.3 | 8.54 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 13 | 4.35 | 2.08 | 5.29 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 13 | 3.87 | 2.45 | 2.74 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 13 | 3.87 | 2.45 | 2.74 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 13 | 2.92 | 2.04 | 3.09 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 13 | 2.67 | 1.6 | 2.8 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 13 | 2.67 | 1.6 | 2.8 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 13 | 2.67 | 1.6 | 2.8 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 13 | 2.32 | 1.43 | 2.43 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 13 | 2.32 | 1.43 | 2.43 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 13 | 2.23 | 2.2 | 1.05 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 13 | 2.14 | 1.1 | 2.59 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 13 | 2.07 | 1.53 | 1.42 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 13 | 2.07 | 1.53 | 1.42 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 13 | 2.07 | 1.53 | 1.42 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 13 | 2.07 | 1.53 | 1.42 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 13 | 2.07 | 1.53 | 1.42 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 13 | 2.07 | 1.53 | 1.42 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 13 | 2.0 | 1.25 | 2.12 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 13 | 2.0 | 1.25 | 2.12 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 13 | 2.0 | 1.25 | 2.12 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 13 | 2.0 | 1.25 | 2.12 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 13 | 1.88 | 1.36 | 2.0 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 13 | 1.87 | 1.32 | 1.85 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 13 | 1.87 | 1.32 | 1.85 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 13 | 1.87 | 1.32 | 1.85 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 13 | 1.87 | 0.97 | 1.99 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 13 | 1.85 | 1.41 | 1.93 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 13 | 1.85 | 1.41 | 1.93 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 13 | 1.85 | 1.41 | 1.93 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 13 | 1.82 | 1.44 | 1.6 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 13 | 1.82 | 1.44 | 1.6 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 13 | 1.77 | 1.3 | 1.87 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 13 | 1.77 | 1.3 | 1.87 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 13 | 1.77 | 1.3 | 1.87 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 13 | 1.77 | 1.3 | 1.87 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 13 | 1.77 | 1.09 | 2.07 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 13 | 1.77 | 1.09 | 2.07 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 13 | 1.77 | 1.09 | 2.07 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 13 | 1.76 | 1.22 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 13 | 1.76 | 1.22 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 13 | 1.76 | 1.22 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 13 | 1.76 | 1.22 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 13 | 1.76 | 1.22 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 13 | 1.76 | 1.22 | 1.85 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 13 | 1.73 | 0.88 | 2.2 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 13 | 1.69 | 0.7 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 13 | 1.69 | 0.7 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 13 | 1.69 | 0.7 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 13 | 1.69 | 0.7 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 13 | 1.69 | 0.7 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 13 | 1.69 | 0.7 | 2.07 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 13 | 1.61 | 1.27 | 1.86 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 13 | 1.61 | 1.27 | 1.86 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 13 | 1.61 | 1.27 | 1.86 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 13 | 1.61 | 1.27 | 1.86 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 13 | 1.59 | 0.99 | 1.7 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 13 | 1.59 | 0.99 | 1.7 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 13 | 1.59 | 0.85 | 1.72 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 13 | 1.59 | 0.85 | 1.72 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 13 | 1.59 | 0.85 | 1.72 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 13 | 1.56 | 0.95 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 13 | 1.56 | 0.95 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 13 | 1.56 | 0.95 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 13 | 1.56 | 0.95 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 13 | 1.56 | 0.95 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 13 | 1.56 | 0.95 | 1.63 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 13 | 1.56 | 1.09 | 2.18 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 13 | 1.56 | 1.09 | 2.18 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 13 | 1.35 | 0.84 | 1.15 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 13 | 1.35 | 0.84 | 1.15 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 13 | 1.35 | 0.84 | 1.15 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 13 | 1.34 | 0.66 | 1.67 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 13 | 1.34 | 0.66 | 1.67 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 13 | 1.34 | 0.66 | 1.67 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 13 | 1.33 | 0.68 | 1.25 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 13 | 1.29 | 1.08 | 0.74 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 13 | 1.27 | 0.36 | 1.51 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 13 | 1.26 | 0.8 | 1.35 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 13 | 1.26 | 0.8 | 1.35 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 13 | 1.26 | 0.8 | 1.35 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 13 | 1.26 | 0.79 | 1.12 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 13 | 1.26 | 0.79 | 1.12 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 13 | 1.26 | 0.79 | 1.12 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 13 | 1.24 | 0.7 | 1.59 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 13 | 1.24 | 0.7 | 1.59 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 13 | 1.24 | 0.7 | 1.59 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 13 | 1.23 | 0.66 | 1.48 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 13 | 1.19 | 0.7 | 1.31 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 13 | 1.15 | 0.77 | 1.09 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 13 | 1.15 | 0.77 | 1.09 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 13 | 1.15 | 0.77 | 1.09 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 13 | 1.12 | 0.62 | 1.17 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 1.04 | 0.38 | 1.19 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 13 | 0.98 | 0.77 | 0.81 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 13 | 0.98 | 0.77 | 0.81 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 13 | 0.98 | 0.77 | 0.81 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 13 | 0.96 | 0.46 | 1.22 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 13 | 0.93 | 0.55 | 1.04 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 13 | 0.93 | 0.55 | 1.04 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 13 | 0.93 | 0.55 | 1.04 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 13 | 0.92 | 0.55 | 0.92 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 13 | 0.92 | 0.55 | 0.92 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 13 | 0.92 | 0.55 | 0.92 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 13 | 0.9 | 0.52 | 0.91 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 13 | 0.9 | 0.52 | 0.91 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 13 | 0.89 | 0.39 | 1.05 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 13 | 0.88 | 0.53 | 0.9 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 13 | 0.88 | 0.53 | 0.9 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 13 | 0.88 | 0.53 | 0.9 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 13 | 0.85 | 0.48 | 0.87 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 13 | 0.85 | 0.48 | 0.87 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 13 | 0.82 | 0.55 | 0.54 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 13 | 0.79 | 0.45 | 0.91 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 13 | 0.78 | 0.42 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 13 | 0.78 | 0.42 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 13 | 0.78 | 0.42 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 13 | 0.78 | 0.42 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 13 | 0.78 | 0.42 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 13 | 0.78 | 0.42 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 13 | 0.78 | 0.42 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 13 | 0.78 | 0.42 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 13 | 0.78 | 0.42 | 0.9 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 13 | 0.77 | 0.51 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 13 | 0.77 | 0.51 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 13 | 0.77 | 0.51 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 13 | 0.77 | 0.51 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 13 | 0.77 | 0.51 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 13 | 0.77 | 0.51 | 0.59 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 13 | 0.76 | 0.55 | 0.74 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 13 | 0.75 | 0.49 | 0.59 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 13 | 0.75 | 0.49 | 0.59 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 13 | 0.74 | 0.47 | 0.75 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 13 | 0.74 | 0.47 | 0.75 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 13 | 0.74 | 0.47 | 0.75 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 13 | 0.71 | 0.41 | 0.65 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 13 | 0.7 | 0.33 | 0.85 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 13 | 0.7 | 0.45 | 0.66 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 13 | 0.69 | 0.4 | 0.7 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 13 | 0.69 | 0.4 | 0.7 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 13 | 0.69 | 0.4 | 0.7 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 13 | 0.69 | 0.4 | 0.7 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 13 | 0.69 | 0.42 | 1.02 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 13 | 0.67 | 0.45 | 0.54 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 13 | 0.67 | 0.45 | 0.54 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 13 | 0.67 | 0.45 | 0.54 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 13 | 0.66 | 0.46 | 0.7 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 13 | 0.66 | 0.32 | 0.81 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 13 | 0.65 | 0.38 | 0.87 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 13 | 0.65 | 0.38 | 0.87 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 13 | 0.64 | 0.34 | 0.79 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 13 | 0.64 | 0.34 | 0.79 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 13 | 0.64 | 0.34 | 0.79 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 13 | 0.63 | 0.04 | 0.65 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 13 | 0.63 | 0.04 | 0.65 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 13 | 0.63 | 0.04 | 0.65 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 13 | 0.62 | 0.29 | 0.61 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 13 | 0.62 | 0.29 | 0.61 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 13 | 0.62 | 0.29 | 0.61 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 13 | 0.61 | 0.5 | 0.5 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 13 | 0.61 | 0.5 | 0.5 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 13 | 0.61 | 0.5 | 0.5 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 13 | 0.59 | 0.25 | 0.6 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 13 | 0.59 | 0.25 | 0.6 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 13 | 0.58 | 0.4 | 0.54 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 13 | 0.58 | 0.4 | 0.54 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 13 | 0.57 | 0.05 | 0.58 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 13 | 0.56 | 0.13 | 0.65 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 13 | 0.56 | 0.2 | 0.65 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 13 | 0.55 | 0.26 | 0.55 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 13 | 0.55 | 0.26 | 0.55 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 13 | 0.55 | 0.26 | 0.55 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 13 | 0.54 | 0.24 | 0.55 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 13 | 0.53 | 0.01 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 13 | 0.53 | 0.01 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 13 | 0.53 | 0.01 | 0.54 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 13 | 0.53 | 0.36 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 13 | 0.53 | 0.36 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 13 | 0.53 | 0.36 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 13 | 0.53 | 0.36 | 0.53 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 13 | 0.53 | 0.36 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 13 | 0.53 | 0.36 | 0.53 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 13 | 0.52 | 0.39 | 0.44 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 13 | 0.52 | 0.39 | 0.44 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 13 | 0.52 | 0.39 | 0.44 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 13 | 0.49 | 0.09 | 0.49 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 13 | 0.49 | 0.21 | 0.47 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 13 | 0.49 | 0.02 | 0.48 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 13 | 0.47 | 0.27 | 0.42 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 13 | 0.47 | 0.27 | 0.42 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 13 | 0.47 | 0.27 | 0.42 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 13 | 0.46 | 0.28 | 0.35 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 13 | 0.45 | 0.18 | 0.57 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 13 | 0.45 | 0.18 | 0.57 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 13 | 0.45 | 0.11 | 0.47 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 13 | 0.45 | 0.19 | 0.47 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 13 | 0.45 | 0.19 | 0.47 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 13 | 0.45 | 0.19 | 0.47 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 13 | 0.45 | 0.17 | 0.48 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 13 | 0.39 | 0.19 | 0.36 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 13 | 0.39 | 0.19 | 0.36 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 13 | 0.39 | 0.1 | 0.42 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 13 | 0.35 | 0.2 | 0.34 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 13 | 0.35 | 0.2 | 0.34 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 13 | 0.34 | 0.18 | 0.29 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 13 | 0.34 | 0.18 | 0.29 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 13 | 0.34 | 0.21 | 0.2 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 13 | 0.34 | 0.21 | 0.2 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 13 | 0.34 | 0.17 | 0.31 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 13 | 0.34 | 0.17 | 0.31 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 13 | 0.34 | 0.17 | 0.31 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 13 | 0.33 | 0.08 | 0.34 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 13 | 0.33 | 0.08 | 0.34 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 13 | 0.33 | 0.21 | 0.27 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 0.33 | 0.21 | 0.27 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 13 | 0.33 | 0.16 | 0.3 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 13 | 0.33 | 0.16 | 0.3 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 13 | 0.33 | 0.12 | 0.35 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 13 | 0.33 | 0.12 | 0.35 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 13 | 0.32 | 0.1 | 0.3 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 13 | 0.32 | 0.07 | 0.34 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 13 | 0.32 | 0.07 | 0.34 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 13 | 0.31 | 0.2 | 0.23 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 13 | 0.3 | 0.17 | 0.21 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 13 | 0.3 | 0.17 | 0.21 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 13 | 0.3 | 0.17 | 0.21 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 13 | 0.3 | 0.04 | 0.31 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 13 | 0.29 | 0.08 | 0.32 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 13 | 0.29 | 0.08 | 0.32 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 13 | 0.27 | 0.05 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 13 | 0.27 | 0.05 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 13 | 0.27 | 0.05 | 0.27 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 13 | 0.25 | 0.09 | 0.24 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 13 | 0.25 | 0.09 | 0.24 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 13 | 0.22 | 0.08 | 0.21 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 13 | 0.22 | 0.08 | 0.21 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 13 | 0.22 | 0.08 | 0.21 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 13 | 0.19 | 0.05 | 0.2 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 13 | 0.19 | 0.05 | 0.2 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 13 | 0.17 | 0.05 | 0.14 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 12 | 24.72 | 11.75 | 29.31 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 12 | 23.98 | 11.55 | 29.86 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 12 | 23.51 | 10.53 | 27.89 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 12 | 23.51 | 10.53 | 27.89 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 12 | 23.51 | 10.53 | 27.89 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 12 | 19.48 | 9.09 | 21.02 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 12 | 18.8 | 9.0 | 20.54 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 12 | 18.62 | 9.57 | 20.46 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 12 | 16.08 | 8.82 | 15.24 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 12 | 15.22 | 10.66 | 12.5 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 12 | 14.99 | 5.44 | 17.3 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 12 | 13.36 | 5.35 | 15.22 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 12 | 12.85 | 5.21 | 14.89 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 12 | 12.5 | 5.56 | 15.21 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 12 | 12.45 | 6.41 | 12.26 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 12 | 12.42 | 5.27 | 14.5 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 12 | 12.42 | 5.27 | 14.5 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 12 | 12.12 | 5.05 | 13.63 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 12 | 10.58 | 4.3 | 12.2 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 12 | 8.93 | 3.15 | 10.24 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 12 | 7.9 | 5.11 | 9.61 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 12 | 7.9 | 5.11 | 9.61 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 12 | 7.72 | 2.88 | 8.88 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 12 | 7.72 | 3.69 | 8.66 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 12 | 5.95 | 3.02 | 5.94 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 12 | 5.95 | 3.02 | 5.94 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 12 | 4.48 | 1.93 | 5.07 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 12 | 4.1 | 2.14 | 4.61 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 12 | 3.62 | 2.18 | 3.75 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 12 | 3.07 | 1.13 | 3.32 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 12 | 2.76 | 1.86 | 2.8 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 12 | 2.76 | 1.86 | 2.8 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 12 | 2.76 | 1.86 | 2.8 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 12 | 2.64 | 1.18 | 3.2 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 12 | 2.64 | 1.18 | 3.2 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 12 | 2.64 | 1.18 | 3.2 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 12 | 2.42 | 1.25 | 2.41 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 12 | 2.42 | 1.25 | 2.41 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 12 | 2.35 | 1.17 | 2.4 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 12 | 2.35 | 1.17 | 2.4 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 12 | 2.27 | 1.24 | 2.75 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 12 | 2.27 | 1.24 | 2.75 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 12 | 2.27 | 1.24 | 2.75 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 12 | 2.27 | 1.24 | 2.75 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 12 | 2.27 | 1.24 | 2.75 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 12 | 2.27 | 1.24 | 2.75 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 12 | 2.16 | 1.54 | 2.4 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 12 | 1.99 | 0.86 | 2.33 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 12 | 1.99 | 0.86 | 2.33 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 12 | 1.71 | 0.97 | 2.12 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 12 | 1.71 | 0.97 | 2.12 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 12 | 1.59 | 0.68 | 1.91 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 12 | 1.59 | 0.68 | 1.91 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 12 | 1.59 | 0.68 | 1.91 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 12 | 1.59 | 0.68 | 1.91 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 12 | 1.58 | 0.74 | 1.64 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 12 | 1.58 | 0.74 | 1.64 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 12 | 1.58 | 0.74 | 1.64 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 12 | 1.55 | 0.69 | 1.77 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 12 | 1.55 | 0.69 | 1.77 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 12 | 1.55 | 0.69 | 1.77 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 12 | 1.55 | 0.69 | 1.77 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 12 | 1.47 | 0.99 | 1.2 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 12 | 1.47 | 0.99 | 1.2 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 12 | 1.47 | 0.99 | 1.2 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 12 | 1.47 | 0.99 | 1.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 12 | 1.44 | 0.81 | 1.64 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 12 | 1.43 | 0.77 | 1.62 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 12 | 1.43 | 0.77 | 1.62 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 12 | 1.43 | 0.77 | 1.62 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 12 | 1.43 | 0.77 | 1.62 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 12 | 1.43 | 0.77 | 1.62 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 12 | 1.43 | 0.77 | 1.62 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 12 | 1.43 | 0.77 | 1.62 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 12 | 1.43 | 0.77 | 1.62 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 12 | 1.43 | 0.77 | 1.62 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 12 | 1.42 | 0.93 | 1.3 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 12 | 1.42 | 0.93 | 1.3 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 12 | 1.42 | 0.93 | 1.3 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 12 | 1.41 | 0.77 | 1.38 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 12 | 1.41 | 0.77 | 1.38 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 12 | 1.35 | 0.36 | 1.46 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 12 | 1.35 | 0.36 | 1.46 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 12 | 1.34 | 0.76 | 1.48 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 12 | 1.34 | 0.76 | 1.48 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 12 | 1.34 | 0.76 | 1.48 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 12 | 1.34 | 0.76 | 1.48 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 12 | 1.34 | 0.76 | 1.48 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 12 | 1.34 | 0.76 | 1.48 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 12 | 1.34 | 0.76 | 1.48 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 12 | 1.34 | 0.76 | 1.48 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 12 | 1.34 | 0.76 | 1.48 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 12 | 1.32 | 0.69 | 1.44 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 12 | 1.32 | 0.69 | 1.44 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 12 | 1.32 | 0.69 | 1.44 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 12 | 1.32 | 0.63 | 1.56 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 12 | 1.3 | 0.53 | 1.49 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 12 | 1.29 | 0.67 | 1.48 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 12 | 1.29 | 0.67 | 1.48 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 12 | 1.29 | 0.67 | 1.48 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 12 | 1.28 | 0.8 | 1.09 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 12 | 1.25 | 0.29 | 1.39 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 12 | 1.24 | 0.36 | 1.36 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 12 | 1.24 | 0.36 | 1.36 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 12 | 1.24 | 0.85 | 1.18 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 12 | 1.24 | 1.05 | 1.06 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 12 | 1.24 | 1.05 | 1.06 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 12 | 1.22 | 0.81 | 1.4 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 12 | 1.22 | 0.81 | 1.4 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 12 | 1.18 | 0.57 | 1.38 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 12 | 1.18 | 0.57 | 1.38 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 12 | 1.15 | 0.67 | 1.12 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 12 | 1.15 | 0.67 | 1.12 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 12 | 1.13 | 0.78 | 1.1 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 12 | 1.13 | 0.78 | 1.1 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 12 | 1.11 | 0.42 | 1.22 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 12 | 1.1 | 0.54 | 1.27 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 12 | 1.1 | 0.54 | 1.27 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 12 | 1.06 | 0.67 | 1.31 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 12 | 1.06 | 0.67 | 1.31 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 12 | 1.06 | 0.32 | 0.96 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 12 | 1.04 | 1.04 | 0.45 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 12 | 1.04 | 1.04 | 0.45 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 12 | 1.04 | 1.04 | 0.45 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 12 | 1.03 | 0.82 | 0.58 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 12 | 1.03 | 0.52 | 1.04 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 12 | 1.0 | 0.56 | 0.98 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 12 | 1.0 | 0.56 | 0.98 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 12 | 0.99 | 0.65 | 0.84 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 12 | 0.99 | 0.47 | 1.0 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 12 | 0.99 | 0.47 | 1.0 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 12 | 0.99 | 0.47 | 1.0 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 12 | 0.99 | 0.47 | 1.0 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 12 | 0.99 | 0.47 | 1.0 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 12 | 0.99 | 0.47 | 1.0 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 12 | 0.98 | 0.63 | 0.7 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 12 | 0.98 | 0.63 | 0.7 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 12 | 0.98 | 0.77 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 12 | 0.98 | 0.77 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 12 | 0.98 | 0.77 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 12 | 0.98 | 0.77 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 12 | 0.98 | 0.77 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 12 | 0.98 | 0.77 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 12 | 0.98 | 0.77 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 12 | 0.98 | 0.77 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 12 | 0.98 | 0.77 | 0.94 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 12 | 0.97 | 0.54 | 0.8 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 12 | 0.96 | 0.64 | 1.04 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 12 | 0.92 | 0.55 | 0.85 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 12 | 0.92 | 0.55 | 0.85 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 12 | 0.92 | 0.55 | 0.85 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 12 | 0.92 | 0.55 | 0.85 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 12 | 0.91 | 0.41 | 1.14 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 12 | 0.89 | 0.35 | 1.1 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 12 | 0.87 | 0.57 | 0.94 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 12 | 0.87 | 0.51 | 0.61 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 12 | 0.87 | 0.51 | 0.61 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 12 | 0.86 | 0.54 | 0.88 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 12 | 0.86 | 0.54 | 0.88 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 12 | 0.78 | 0.61 | 0.44 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 12 | 0.75 | 0.48 | 0.56 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 12 | 0.75 | 0.48 | 0.56 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 12 | 0.75 | 0.48 | 0.56 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 12 | 0.74 | 0.57 | 0.59 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 12 | 0.74 | 0.57 | 0.59 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 12 | 0.73 | 0.49 | 0.52 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 12 | 0.72 | 0.48 | 0.66 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 12 | 0.72 | 0.48 | 0.66 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 12 | 0.72 | 0.48 | 0.66 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 12 | 0.72 | 0.48 | 0.66 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 12 | 0.72 | 0.48 | 0.66 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 12 | 0.72 | 0.48 | 0.66 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 12 | 0.72 | 0.48 | 0.66 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 12 | 0.72 | 0.48 | 0.66 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 12 | 0.72 | 0.48 | 0.66 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 12 | 0.71 | 0.53 | 0.6 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 12 | 0.71 | 0.32 | 0.6 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 12 | 0.71 | 0.32 | 0.6 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 12 | 0.71 | 0.43 | 0.61 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 12 | 0.71 | 0.43 | 0.61 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 12 | 0.7 | 0.44 | 0.64 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 12 | 0.7 | 0.44 | 0.64 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 12 | 0.7 | 0.44 | 0.64 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 12 | 0.69 | 0.15 | 0.78 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 12 | 0.69 | 0.15 | 0.78 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 12 | 0.68 | 0.41 | 0.6 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 12 | 0.68 | 0.41 | 0.6 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 12 | 0.68 | 0.41 | 0.6 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 12 | 0.68 | 0.41 | 0.6 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 12 | 0.68 | 0.41 | 0.6 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 12 | 0.68 | 0.41 | 0.6 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 12 | 0.67 | 0.19 | 0.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 12 | 0.67 | 0.68 | 0.35 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 12 | 0.67 | 0.68 | 0.35 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 12 | 0.64 | 0.18 | 0.63 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 12 | 0.64 | 0.18 | 0.63 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 12 | 0.64 | 0.18 | 0.63 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 12 | 0.61 | 0.4 | 0.51 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 12 | 0.61 | 0.4 | 0.51 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 12 | 0.61 | 0.26 | 0.66 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 12 | 0.61 | 0.26 | 0.66 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 12 | 0.61 | 0.26 | 0.66 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 12 | 0.6 | 0.27 | 0.64 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 12 | 0.6 | 0.27 | 0.64 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 12 | 0.59 | 0.02 | 0.59 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 12 | 0.58 | 0.39 | 0.83 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 12 | 0.58 | 0.39 | 0.83 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 12 | 0.58 | 0.2 | 0.52 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 12 | 0.56 | 0.38 | 0.62 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 12 | 0.56 | 0.38 | 0.62 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 12 | 0.56 | 0.25 | 0.68 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 12 | 0.56 | 0.25 | 0.68 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 12 | 0.55 | 0.25 | 0.67 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 12 | 0.55 | 0.43 | 0.44 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 12 | 0.55 | 0.25 | 0.64 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 12 | 0.55 | 0.25 | 0.64 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 12 | 0.55 | 0.25 | 0.64 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 12 | 0.54 | 0.21 | 0.56 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 12 | 0.53 | 0.22 | 0.59 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 12 | 0.53 | 0.22 | 0.58 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 12 | 0.53 | 0.22 | 0.5 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 12 | 0.53 | 0.22 | 0.5 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 12 | 0.52 | 0.68 | 0.22 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 12 | 0.52 | 0.68 | 0.22 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 12 | 0.51 | 0.24 | 0.6 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 12 | 0.5 | 0.1 | 0.52 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 12 | 0.5 | 0.2 | 0.61 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 12 | 0.5 | 0.2 | 0.61 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 12 | 0.49 | 0.14 | 0.5 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 12 | 0.49 | 0.24 | 0.38 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 12 | 0.49 | 0.24 | 0.38 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 12 | 0.49 | 0.21 | 0.5 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 12 | 0.48 | 0.26 | 0.42 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 12 | 0.48 | 0.14 | 0.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 12 | 0.48 | 0.14 | 0.5 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 12 | 0.48 | 0.14 | 0.5 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 12 | 0.47 | 0.27 | 0.37 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 12 | 0.47 | 0.27 | 0.37 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 12 | 0.47 | 0.28 | 0.34 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 12 | 0.47 | 0.28 | 0.34 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 12 | 0.47 | 0.28 | 0.34 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 12 | 0.47 | 0.27 | 0.38 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 12 | 0.47 | 0.27 | 0.38 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 12 | 0.47 | 0.27 | 0.38 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 12 | 0.46 | 0.46 | 0.26 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 12 | 0.46 | 0.46 | 0.26 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 12 | 0.44 | 0.14 | 0.46 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 12 | 0.44 | 0.19 | 0.41 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 12 | 0.44 | 0.19 | 0.41 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 12 | 0.43 | 0.08 | 0.47 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 12 | 0.43 | 0.31 | 0.36 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 12 | 0.43 | 0.31 | 0.36 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 12 | 0.41 | 0.15 | 0.5 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 12 | 0.41 | 0.15 | 0.5 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 12 | 0.4 | 0.25 | 0.38 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 12 | 0.4 | 0.25 | 0.38 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 12 | 0.4 | 0.22 | 0.38 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 12 | 0.4 | 0.22 | 0.38 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 12 | 0.4 | 0.22 | 0.38 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 12 | 0.4 | 0.22 | 0.38 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 12 | 0.4 | 0.22 | 0.38 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 12 | 0.4 | 0.22 | 0.38 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 12 | 0.39 | 0.43 | 0.24 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 12 | 0.39 | 0.43 | 0.24 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 12 | 0.39 | 0.43 | 0.24 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 12 | 0.37 | 0.15 | 0.36 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 12 | 0.36 | 0.14 | 0.34 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 12 | 0.36 | 0.08 | 0.4 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 12 | 0.35 | 0.16 | 0.36 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 12 | 0.35 | 0.22 | 0.31 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 12 | 0.35 | 0.22 | 0.31 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 12 | 0.35 | 0.13 | 0.39 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 12 | 0.34 | 0.14 | 0.37 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 12 | 0.33 | 0.09 | 0.34 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 12 | 0.33 | 0.09 | 0.34 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 12 | 0.28 | 0.12 | 0.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 12 | 0.26 | 0.09 | 0.27 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 12 | 0.24 | 0.1 | 0.2 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 12 | 0.24 | 0.1 | 0.2 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 12 | 0.24 | 0.08 | 0.26 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 12 | 0.23 | 0.06 | 0.26 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 12 | 0.23 | 0.06 | 0.26 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 12 | 0.21 | 0.05 | 0.22 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 12 | 0.21 | 0.1 | 0.16 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 12 | 0.21 | 0.1 | 0.16 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 12 | 0.2 | 0.03 | 0.21 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 12 | 0.19 | 0.02 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 12 | 0.19 | 0.02 | 0.2 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 12 | 0.16 | 0.04 | 0.17 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 12 | 0.16 | 0.04 | 0.17 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 12 | 0.13 | 0.01 | 0.13 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 11 | 25.34 | 10.73 | 26.47 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 11 | 22.09 | 7.19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 11 | 22.09 | 7.19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 11 | 22.09 | 7.19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 11 | 22.09 | 7.19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 11 | 22.09 | 7.19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 11 | 22.09 | 7.19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 11 | 22.09 | 7.19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 11 | 22.09 | 7.19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 11 | 22.09 | 7.19 | 23.54 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 11 | 21.76 | 7.38 | 23.31 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 11 | 19.77 | 6.3 | 20.24 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 11 | 16.71 | 5.16 | 17.69 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 11 | 15.17 | 4.89 | 16.56 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 11 | 14.21 | 4.57 | 15.07 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 11 | 13.78 | 4.39 | 14.68 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 11 | 12.47 | 4.43 | 13.6 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 11 | 8.82 | 2.93 | 9.4 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 11 | 3.63 | 1.68 | 3.98 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 11 | 3.63 | 1.68 | 3.98 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 11 | 3.02 | 2.06 | 3.44 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 11 | 2.89 | 1.31 | 3.39 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 11 | 2.65 | 1.54 | 2.12 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 11 | 2.57 | 1.33 | 2.5 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 11 | 2.57 | 1.33 | 2.5 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 11 | 2.57 | 1.33 | 2.5 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 11 | 2.49 | 0.96 | 2.89 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 11 | 2.49 | 0.96 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 11 | 2.49 | 0.96 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 11 | 2.49 | 0.96 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 11 | 2.49 | 0.96 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 11 | 2.49 | 0.96 | 2.89 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 11 | 2.45 | 1.25 | 2.87 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 11 | 2.45 | 1.25 | 2.87 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 11 | 2.45 | 1.25 | 2.87 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 11 | 2.4 | 1.17 | 2.72 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 11 | 2.4 | 1.17 | 2.72 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 11 | 2.4 | 1.17 | 2.72 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 11 | 2.24 | 1.04 | 2.8 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 11 | 2.24 | 1.04 | 2.8 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 11 | 2.24 | 1.04 | 2.8 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 11 | 2.1 | 0.92 | 2.28 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 11 | 2.09 | 1.25 | 2.52 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 11 | 2.02 | 0.78 | 2.11 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 11 | 2.02 | 0.78 | 2.11 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 11 | 2.02 | 0.78 | 2.11 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 11 | 1.96 | 0.71 | 2.17 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 11 | 1.75 | 0.88 | 1.7 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 11 | 1.75 | 0.88 | 1.7 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 11 | 1.75 | 0.88 | 1.7 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 11 | 1.75 | 0.88 | 1.7 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 11 | 1.71 | 0.88 | 1.91 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 11 | 1.71 | 0.88 | 1.91 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 11 | 1.71 | 0.88 | 1.91 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 11 | 1.71 | 0.88 | 1.91 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 11 | 1.64 | 0.76 | 1.89 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 11 | 1.53 | 0.76 | 1.56 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 11 | 1.53 | 0.76 | 1.56 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 11 | 1.53 | 0.76 | 1.56 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 11 | 1.45 | 1.5 | 0.89 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 11 | 1.45 | 1.5 | 0.89 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 11 | 1.37 | 0.83 | 1.12 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 11 | 1.37 | 0.85 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 11 | 1.37 | 0.85 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 11 | 1.37 | 0.85 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 11 | 1.37 | 0.85 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 11 | 1.37 | 0.85 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 11 | 1.37 | 0.85 | 1.14 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 11 | 1.35 | 0.39 | 1.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 11 | 1.31 | 0.55 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 11 | 1.31 | 0.55 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 11 | 1.31 | 0.55 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 11 | 1.31 | 0.55 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 11 | 1.31 | 0.55 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 11 | 1.31 | 0.55 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 11 | 1.31 | 0.55 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 11 | 1.31 | 0.55 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 11 | 1.31 | 0.55 | 1.49 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 11 | 1.3 | 0.39 | 1.41 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 11 | 1.3 | 0.39 | 1.41 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 11 | 1.29 | 1.03 | 0.92 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 11 | 1.28 | 0.42 | 1.29 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 11 | 1.24 | 0.35 | 1.35 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 11 | 1.24 | 0.35 | 1.35 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 11 | 1.24 | 0.35 | 1.35 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 11 | 1.21 | 0.98 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 11 | 1.21 | 0.98 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 11 | 1.21 | 0.98 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 11 | 1.21 | 0.98 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 11 | 1.21 | 0.98 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 11 | 1.21 | 0.98 | 1.19 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 11 | 1.18 | 0.51 | 1.16 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 11 | 1.18 | 0.51 | 1.16 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 11 | 1.14 | 0.76 | 0.85 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 11 | 1.14 | 0.76 | 0.85 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 11 | 1.14 | 0.76 | 0.85 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 11 | 1.14 | 0.76 | 0.85 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 11 | 1.12 | 0.09 | 1.12 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 11 | 1.12 | 0.09 | 1.12 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 11 | 1.12 | 0.09 | 1.12 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 11 | 1.1 | 0.51 | 1.2 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 11 | 1.03 | 0.75 | 1.34 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 11 | 1.03 | 0.75 | 1.34 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 11 | 1.02 | 0.17 | 1.04 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 11 | 1.02 | 0.17 | 1.04 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 11 | 1.01 | 0.69 | 1.31 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 11 | 1.01 | 0.69 | 1.31 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 11 | 1.01 | 0.4 | 0.99 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 11 | 1.01 | 0.4 | 0.99 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 11 | 1.01 | 0.4 | 0.99 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 11 | 1.01 | 0.4 | 0.99 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 11 | 1.01 | 0.4 | 0.99 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 11 | 1.01 | 0.4 | 0.99 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 11 | 1.0 | 0.55 | 1.2 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 11 | 1.0 | 0.55 | 1.2 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 11 | 1.0 | 0.55 | 1.2 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 11 | 0.97 | 0.57 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 11 | 0.97 | 0.57 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 11 | 0.97 | 0.57 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 11 | 0.97 | 0.57 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 11 | 0.97 | 0.57 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 11 | 0.97 | 0.57 | 0.9 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 11 | 0.95 | 0.51 | 0.9 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 11 | 0.95 | 0.51 | 0.9 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 11 | 0.95 | 0.51 | 0.9 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 11 | 0.95 | 0.76 | 0.66 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 11 | 0.91 | 0.39 | 0.97 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 11 | 0.88 | 0.39 | 0.99 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 11 | 0.88 | 0.39 | 0.99 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 11 | 0.88 | 0.39 | 0.99 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 11 | 0.88 | 0.39 | 0.99 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 11 | 0.88 | 0.39 | 0.99 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 11 | 0.88 | 0.39 | 0.99 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 11 | 0.88 | 0.39 | 0.99 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 11 | 0.88 | 0.39 | 0.99 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 11 | 0.88 | 0.39 | 0.99 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 11 | 0.85 | 0.53 | 0.66 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 11 | 0.85 | 0.53 | 0.66 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 11 | 0.84 | 0.54 | 0.99 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 11 | 0.84 | 0.54 | 0.99 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 11 | 0.82 | 0.45 | 0.68 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 11 | 0.82 | 0.35 | 0.97 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 11 | 0.82 | 0.35 | 0.97 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 11 | 0.82 | 0.35 | 0.97 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 11 | 0.81 | 0.43 | 0.72 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 11 | 0.81 | 0.37 | 0.83 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 11 | 0.81 | 0.37 | 0.83 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 11 | 0.81 | 0.37 | 0.83 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 11 | 0.79 | 0.55 | 0.67 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 11 | 0.79 | 0.55 | 0.67 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 11 | 0.79 | 0.47 | 0.8 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 11 | 0.79 | 0.47 | 0.8 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 11 | 0.79 | 0.47 | 0.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 11 | 0.77 | 0.37 | 0.7 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 11 | 0.77 | 0.37 | 0.7 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 11 | 0.76 | 0.4 | 0.65 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 11 | 0.74 | 0.3 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 11 | 0.74 | 0.3 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 11 | 0.74 | 0.3 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 11 | 0.74 | 0.3 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 11 | 0.74 | 0.3 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 11 | 0.74 | 0.3 | 0.8 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 11 | 0.73 | 0.24 | 0.87 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 11 | 0.72 | 0.5 | 0.52 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 11 | 0.72 | 0.5 | 0.52 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 11 | 0.72 | 0.5 | 0.52 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 11 | 0.71 | 0.18 | 0.78 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 11 | 0.71 | 0.18 | 0.78 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 11 | 0.71 | 0.17 | 0.73 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 0.71 | 0.17 | 0.73 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 11 | 0.7 | 0.48 | 0.53 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 11 | 0.7 | 0.39 | 0.82 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 11 | 0.68 | 0.04 | 0.69 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 11 | 0.67 | 0.4 | 0.56 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 11 | 0.67 | 0.33 | 0.61 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 11 | 0.65 | 0.18 | 0.66 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 11 | 0.65 | 0.18 | 0.66 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 11 | 0.63 | 0.17 | 0.69 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 11 | 0.63 | 0.17 | 0.69 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 11 | 0.63 | 0.72 | 0.38 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 11 | 0.63 | 0.28 | 0.58 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 11 | 0.63 | 0.28 | 0.58 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 11 | 0.63 | 0.28 | 0.58 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 11 | 0.62 | 0.46 | 0.39 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 11 | 0.62 | 0.02 | 0.62 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 11 | 0.62 | 0.35 | 0.76 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 11 | 0.62 | 0.35 | 0.76 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 11 | 0.59 | 0.13 | 0.59 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 11 | 0.59 | 0.13 | 0.59 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 11 | 0.57 | 0.46 | 0.27 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 11 | 0.56 | 0.35 | 0.5 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 11 | 0.56 | 0.35 | 0.5 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 11 | 0.56 | 0.35 | 0.5 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 11 | 0.56 | 0.33 | 0.5 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 11 | 0.56 | 0.33 | 0.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 11 | 0.56 | 0.43 | 0.38 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 11 | 0.56 | 0.43 | 0.38 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 11 | 0.56 | 0.43 | 0.38 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 11 | 0.55 | 0.09 | 0.55 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 11 | 0.55 | 0.09 | 0.55 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 11 | 0.55 | 0.09 | 0.55 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 11 | 0.55 | 0.06 | 0.55 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 11 | 0.55 | 0.13 | 0.59 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 11 | 0.55 | 0.12 | 0.56 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 11 | 0.52 | 0.11 | 0.56 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 11 | 0.52 | 0.11 | 0.56 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 11 | 0.52 | 0.11 | 0.56 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 11 | 0.52 | 0.26 | 0.47 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 11 | 0.52 | 0.15 | 0.6 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 11 | 0.51 | 0.27 | 0.56 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 11 | 0.51 | 0.27 | 0.56 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 11 | 0.51 | 0.45 | 0.32 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 0.5 | 0.15 | 0.48 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 11 | 0.49 | 0.16 | 0.51 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 11 | 0.48 | 0.17 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 11 | 0.48 | 0.17 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 11 | 0.48 | 0.17 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 11 | 0.48 | 0.17 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 11 | 0.48 | 0.17 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 11 | 0.48 | 0.17 | 0.48 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 11 | 0.48 | 0.31 | 0.34 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 11 | 0.48 | 0.31 | 0.34 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 11 | 0.48 | 0.16 | 0.54 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 11 | 0.48 | 0.16 | 0.54 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 11 | 0.47 | 0.38 | 0.3 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 11 | 0.46 | 0.14 | 0.51 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 11 | 0.46 | 0.25 | 0.42 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 11 | 0.46 | 0.25 | 0.42 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 11 | 0.46 | 0.23 | 0.42 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 11 | 0.46 | 0.23 | 0.42 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 11 | 0.46 | 0.23 | 0.42 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 11 | 0.42 | 0.24 | 0.37 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 11 | 0.42 | 0.24 | 0.37 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 11 | 0.41 | 0.19 | 0.42 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 0.41 | 0.2 | 0.39 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 11 | 0.41 | 0.19 | 0.42 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 11 | 0.41 | 0.26 | 0.37 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 11 | 0.41 | 0.2 | 0.39 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 11 | 0.41 | 0.2 | 0.39 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 11 | 0.39 | 0.08 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 11 | 0.39 | 0.08 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 11 | 0.39 | 0.08 | 0.42 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 11 | 0.37 | 0.08 | 0.4 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 11 | 0.37 | 0.2 | 0.47 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 11 | 0.37 | 0.2 | 0.47 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 11 | 0.36 | 0.2 | 0.25 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 0.35 | 0.12 | 0.38 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 11 | 0.35 | 0.12 | 0.38 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 11 | 0.34 | 0.2 | 0.37 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 11 | 0.34 | 0.2 | 0.37 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 11 | 0.34 | 0.26 | 0.21 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 11 | 0.34 | 0.26 | 0.21 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 11 | 0.34 | 0.12 | 0.38 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 11 | 0.34 | 0.12 | 0.38 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 11 | 0.33 | 0.04 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 11 | 0.33 | 0.04 | 0.35 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 11 | 0.31 | 0.1 | 0.3 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 11 | 0.31 | 0.1 | 0.3 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 11 | 0.3 | 0.11 | 0.32 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 11 | 0.29 | 0.24 | 0.19 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 11 | 0.29 | 0.24 | 0.19 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 11 | 0.29 | 0.24 | 0.19 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 11 | 0.28 | 0.05 | 0.3 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 11 | 0.28 | 0.06 | 0.26 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 11 | 0.28 | 0.01 | 0.28 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 11 | 0.27 | 0.05 | 0.29 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 11 | 0.27 | 0.05 | 0.29 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 11 | 0.27 | 0.05 | 0.29 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 11 | 0.27 | 0.15 | 0.24 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 11 | 0.27 | 0.2 | 0.2 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 11 | 0.27 | 0.2 | 0.2 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 11 | 0.26 | 0.15 | 0.2 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 11 | 0.26 | 0.15 | 0.2 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 11 | 0.26 | 0.16 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 11 | 0.26 | 0.16 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 11 | 0.26 | 0.16 | 0.19 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 11 | 0.26 | 0.07 | 0.26 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 11 | 0.26 | 0.07 | 0.26 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 11 | 0.26 | 0.05 | 0.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 11 | 0.25 | 0.36 | 0.15 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 11 | 0.25 | 0.36 | 0.15 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 11 | 0.23 | 0.08 | 0.23 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 11 | 0.23 | 0.08 | 0.23 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 11 | 0.22 | 0.19 | 0.15 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 11 | 0.22 | 0.08 | 0.25 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 11 | 0.22 | 0.05 | 0.22 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 11 | 0.21 | 0.08 | 0.17 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 11 | 0.21 | 0.08 | 0.17 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 11 | 0.2 | 0.05 | 0.21 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 11 | 0.2 | 0.05 | 0.21 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 11 | 0.18 | 0.05 | 0.15 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 11 | 0.18 | 0.05 | 0.15 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 10 | 29.57 | 4.85 | 31.8 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 10 | 29.19 | 5.38 | 31.46 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 10 | 29.19 | 5.38 | 31.46 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 10 | 27.2 | 4.39 | 28.68 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 10 | 27.2 | 4.39 | 28.68 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 10 | 26.97 | 7.56 | 27.22 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 10 | 26.31 | 6.19 | 28.06 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 10 | 26.26 | 8.04 | 25.28 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 10 | 26.18 | 6.42 | 24.64 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 10 | 26.1 | 2.39 | 26.32 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 10 | 26.1 | 2.39 | 26.32 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 10 | 26.1 | 2.39 | 26.32 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 10 | 26.06 | 7.95 | 23.48 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 10 | 25.65 | 6.19 | 24.35 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 10 | 25.24 | 3.04 | 24.76 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 10 | 25.24 | 3.04 | 24.76 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 10 | 25.24 | 3.04 | 24.76 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 10 | 25.12 | 3.09 | 25.11 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 10 | 25.12 | 3.09 | 25.11 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 10 | 25.12 | 3.09 | 25.11 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 10 | 24.98 | 4.0 | 26.45 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 10 | 24.98 | 4.0 | 26.45 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 10 | 24.22 | 3.76 | 25.71 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 10 | 23.79 | 5.38 | 26.06 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 10 | 23.79 | 5.38 | 26.06 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 10 | 23.76 | 6.57 | 21.96 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 10 | 23.56 | 3.46 | 24.88 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 10 | 23.09 | 4.85 | 24.67 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 10 | 23.08 | 6.02 | 23.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 10 | 23.01 | 6.19 | 24.76 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 10 | 22.88 | 3.78 | 24.25 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 10 | 22.82 | 2.38 | 21.73 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 10 | 22.82 | 2.38 | 21.73 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 10 | 22.82 | 2.38 | 21.73 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 10 | 22.64 | 1.98 | 22.54 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 10 | 22.64 | 1.98 | 22.54 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 10 | 22.64 | 1.98 | 22.54 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 10 | 22.22 | 4.92 | 20.8 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 10 | 22.06 | 2.1 | 21.64 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 10 | 22.03 | 4.57 | 20.56 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 10 | 21.99 | 2.33 | 22.65 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 10 | 21.99 | 2.33 | 22.65 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 10 | 21.99 | 2.33 | 22.65 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 10 | 21.99 | 2.33 | 22.65 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 10 | 21.99 | 2.33 | 22.65 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 10 | 21.99 | 2.33 | 22.65 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 10 | 21.99 | 2.33 | 22.65 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 10 | 21.99 | 2.33 | 22.65 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 10 | 21.99 | 2.33 | 22.65 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 10 | 21.81 | 6.99 | 24.52 |
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 10 | 21.66 | 2.36 | 21.81 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 10 | 21.66 | 2.36 | 21.81 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 10 | 21.66 | 2.36 | 21.81 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 10 | 21.57 | 3.25 | 20.66 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 10 | 21.57 | 3.25 | 20.66 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 10 | 21.57 | 3.25 | 20.66 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 10 | 21.49 | 2.22 | 21.81 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 10 | 21.49 | 2.22 | 21.81 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 10 | 21.49 | 2.22 | 21.81 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 10 | 21.43 | 5.7 | 22.0 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 10 | 21.38 | 6.6 | 18.98 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 10 | 21.33 | 0.99 | 21.72 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 10 | 20.62 | 2.02 | 19.54 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 10 | 20.62 | 2.02 | 19.54 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 10 | 20.14 | 9.01 | 17.0 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 10 | 19.97 | 4.09 | 21.04 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 10 | 19.97 | 4.09 | 21.04 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 10 | 19.91 | 5.19 | 19.83 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 10 | 19.91 | 5.19 | 19.83 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 10 | 19.46 | 3.74 | 19.48 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 10 | 19.28 | 5.93 | 20.52 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 10 | 19.17 | 3.31 | 19.04 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 10 | 18.45 | 4.0 | 18.88 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 10 | 17.82 | 5.75 | 18.68 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 10 | 17.79 | 3.3 | 16.31 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 10 | 17.76 | 1.09 | 17.66 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 10 | 17.39 | 1.37 | 17.6 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 10 | 17.1 | 1.5 | 17.33 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 10 | 16.91 | 3.85 | 15.36 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 10 | 16.83 | 0.99 | 17.22 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 10 | 16.38 | 4.23 | 16.27 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 10 | 16.28 | 3.78 | 17.65 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 10 | 16.15 | 2.74 | 15.28 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 10 | 15.95 | 5.27 | 16.44 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 10 | 15.81 | 1.46 | 16.23 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 10 | 15.43 | 1.25 | 15.39 |
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 10 | 15.4 | 0.81 | 15.65 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 10 | 15.0 | 4.28 | 15.73 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 10 | 15.0 | 4.28 | 15.73 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 10 | 14.93 | 2.96 | 14.34 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 10 | 14.77 | 1.26 | 14.77 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 10 | 14.33 | 4.33 | 14.42 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 10 | 14.11 | 1.45 | 14.17 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 10 | 13.43 | 3.86 | 10.98 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 10 | 13.26 | 1.43 | 12.97 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 10 | 12.99 | 0.94 | 13.08 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 10 | 12.75 | 1.41 | 12.38 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 10 | 12.64 | 1.37 | 12.86 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 10 | 12.29 | 1.49 | 11.77 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 10 | 12.17 | 1.14 | 11.78 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 10 | 11.75 | 4.26 | 8.96 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 10 | 11.67 | 1.46 | 11.06 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 10 | 10.93 | 0.97 | 11.0 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 10 | 10.43 | 1.26 | 9.98 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 10 | 10.38 | 0.66 | 10.35 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 10 | 10.02 | 0.98 | 10.14 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 10 | 9.95 | 1.38 | 10.0 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 10 | 9.35 | 1.04 | 9.41 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 10 | 7.55 | 0.94 | 8.06 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 10 | 7.37 | 1.41 | 7.11 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 10 | 7.26 | 0.79 | 7.31 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 10 | 7.13 | 1.62 | 6.48 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 10 | 6.97 | 1.64 | 6.66 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 10 | 6.14 | 1.01 | 5.86 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 10 | 6.14 | 1.01 | 5.86 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 10 | 6.14 | 1.01 | 5.86 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 10 | 6.14 | 1.01 | 5.86 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 10 | 5.22 | 1.19 | 5.6 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 10 | 5.22 | 1.19 | 5.6 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 10 | 5.22 | 1.19 | 5.6 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 10 | 4.73 | 0.64 | 4.58 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 10 | 4.73 | 0.64 | 4.58 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 10 | 4.73 | 0.64 | 4.58 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 10 | 3.1 | 1.48 | 2.73 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 10 | 3.06 | 0.27 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 10 | 3.06 | 0.27 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 10 | 3.06 | 0.27 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 10 | 3.06 | 0.27 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 10 | 3.06 | 0.27 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 10 | 3.06 | 0.27 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 10 | 3.06 | 0.27 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 10 | 3.06 | 0.27 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 10 | 3.06 | 0.27 | 3.0 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 10 | 2.89 | 0.7 | 3.03 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 10 | 2.89 | 0.7 | 3.03 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 10 | 2.73 | 1.86 | 2.88 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 10 | 2.73 | 1.86 | 2.88 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 10 | 2.36 | 2.09 | 1.46 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 10 | 2.34 | 0.82 | 2.66 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 10 | 2.3 | 1.37 | 2.01 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 10 | 2.3 | 1.37 | 2.01 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 10 | 2.29 | 1.27 | 2.02 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 10 | 2.29 | 1.27 | 2.02 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 10 | 2.29 | 1.27 | 2.02 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 10 | 2.29 | 1.27 | 2.02 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 10 | 2.18 | 0.27 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 10 | 2.18 | 0.27 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 10 | 2.18 | 0.27 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 10 | 2.18 | 0.27 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 10 | 2.18 | 0.27 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 10 | 2.18 | 0.27 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 10 | 2.18 | 0.27 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 10 | 2.18 | 0.27 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 10 | 2.18 | 0.27 | 2.12 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 10 | 2.17 | 0.32 | 2.32 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 10 | 2.17 | 0.32 | 2.32 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 10 | 2.17 | 0.32 | 2.32 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 10 | 2.15 | 1.64 | 1.72 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 10 | 2.1 | 0.34 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 10 | 2.1 | 0.34 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 10 | 2.1 | 0.34 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 10 | 2.1 | 0.34 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 10 | 2.1 | 0.34 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 10 | 2.1 | 0.34 | 2.18 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 10 | 2.02 | 0.59 | 2.25 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 10 | 1.99 | 1.31 | 1.76 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 10 | 1.99 | 1.31 | 1.76 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 10 | 1.99 | 1.31 | 1.76 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 10 | 1.99 | 1.31 | 1.76 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 10 | 1.99 | 1.31 | 1.76 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 10 | 1.99 | 1.31 | 1.76 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 10 | 1.9 | 1.37 | 1.67 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 10 | 1.9 | 1.37 | 1.67 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 10 | 1.9 | 1.37 | 1.67 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 10 | 1.85 | 0.93 | 1.94 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 10 | 1.85 | 0.93 | 1.94 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 10 | 1.84 | 1.51 | 1.44 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 10 | 1.84 | 1.51 | 1.44 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 10 | 1.82 | 0.87 | 1.88 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 10 | 1.82 | 0.65 | 1.64 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 10 | 1.82 | 0.38 | 1.9 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 10 | 1.82 | 0.38 | 1.9 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 10 | 1.82 | 0.38 | 1.9 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 10 | 1.8 | 0.09 | 1.76 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 10 | 1.8 | 1.17 | 1.76 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 10 | 1.8 | 1.17 | 1.76 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 10 | 1.8 | 1.17 | 1.76 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 10 | 1.73 | 0.53 | 1.72 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 10 | 1.73 | 0.53 | 1.72 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 10 | 1.73 | 0.53 | 1.72 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 10 | 1.71 | 0.91 | 1.76 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 10 | 1.71 | 0.91 | 1.76 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 10 | 1.71 | 0.91 | 1.76 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 10 | 1.68 | 0.19 | 1.71 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 10 | 1.68 | 0.19 | 1.71 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 10 | 1.64 | 0.98 | 1.72 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 10 | 1.58 | 0.78 | 1.54 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 10 | 1.58 | 0.78 | 1.54 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 10 | 1.58 | 0.78 | 1.54 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 10 | 1.58 | 0.78 | 1.54 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 10 | 1.58 | 0.78 | 1.54 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 10 | 1.58 | 0.78 | 1.54 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 10 | 1.58 | 0.78 | 1.54 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 10 | 1.58 | 0.78 | 1.54 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 10 | 1.58 | 0.78 | 1.54 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 10 | 1.47 | 0.16 | 1.54 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 10 | 1.46 | 0.17 | 1.45 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 10 | 1.46 | 0.17 | 1.45 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 10 | 1.46 | 0.17 | 1.45 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 10 | 1.42 | 0.71 | 1.49 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 10 | 1.42 | 0.71 | 1.49 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 10 | 1.41 | 0.69 | 1.42 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 10 | 1.4 | 0.16 | 1.4 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 10 | 1.38 | 0.41 | 1.3 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 10 | 1.38 | 0.41 | 1.3 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 10 | 1.32 | 0.02 | 1.32 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 10 | 1.31 | 0.21 | 1.34 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 10 | 1.3 | 0.5 | 1.44 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 10 | 1.3 | 0.5 | 1.44 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 10 | 1.29 | 0.76 | 1.16 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 10 | 1.29 | 0.76 | 1.16 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 10 | 1.29 | 0.76 | 1.16 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 10 | 1.29 | 0.76 | 1.16 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 10 | 1.29 | 0.76 | 1.16 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 10 | 1.29 | 0.76 | 1.16 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 10 | 1.27 | 1.03 | 0.82 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 10 | 1.27 | 1.03 | 0.82 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 10 | 1.27 | 0.17 | 1.21 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 10 | 1.2 | 0.42 | 1.13 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 10 | 1.2 | 0.42 | 1.13 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 10 | 1.2 | 0.42 | 1.13 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 10 | 1.2 | 0.42 | 1.13 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 10 | 1.2 | 0.42 | 1.13 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 10 | 1.2 | 0.42 | 1.13 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 10 | 1.19 | 0.14 | 1.15 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 10 | 1.18 | 0.6 | 1.23 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 10 | 1.18 | 0.6 | 1.23 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 10 | 1.18 | 0.6 | 1.23 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 10 | 1.18 | 0.39 | 1.27 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 10 | 1.18 | 0.39 | 1.27 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 10 | 1.18 | 0.39 | 1.27 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 10 | 1.18 | 0.39 | 1.27 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 10 | 1.18 | 0.39 | 1.27 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 10 | 1.18 | 0.39 | 1.27 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 10 | 1.16 | 0.6 | 1.11 |
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 10 | 1.15 | 0.49 | 1.2 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 10 | 1.15 | 0.49 | 1.2 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 10 | 1.14 | 0.31 | 1.21 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 10 | 1.14 | 0.31 | 1.21 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 10 | 1.14 | 0.31 | 1.21 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 10 | 1.14 | 0.31 | 1.21 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 10 | 1.14 | 0.31 | 1.21 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 10 | 1.14 | 0.31 | 1.21 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 10 | 1.14 | 0.73 | 1.1 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 10 | 1.14 | 0.73 | 1.1 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 10 | 1.14 | 0.73 | 1.1 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 10 | 1.12 | 0.93 | 1.01 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 10 | 1.12 | 0.93 | 1.01 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 10 | 1.09 | 0.03 | 1.08 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 10 | 1.08 | 0.62 | 1.01 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 10 | 1.08 | 0.56 | 1.02 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 10 | 1.05 | 0.57 | 1.21 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 10 | 1.05 | 0.57 | 1.21 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 10 | 1.05 | 0.57 | 1.21 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 10 | 1.05 | 0.57 | 1.21 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 10 | 1.05 | 0.57 | 1.21 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 10 | 1.05 | 0.57 | 1.21 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 10 | 1.05 | 0.57 | 1.21 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 10 | 1.05 | 0.57 | 1.21 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 10 | 1.05 | 0.57 | 1.21 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 10 | 1.04 | 0.03 | 1.04 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 10 | 1.01 | 0.36 | 0.92 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 10 | 1.0 | 0.5 | 1.2 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 10 | 0.99 | 0.58 | 0.83 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 10 | 0.99 | 0.58 | 0.83 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 10 | 0.99 | 0.58 | 0.83 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 10 | 0.99 | 0.58 | 0.93 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 10 | 0.99 | 0.58 | 0.93 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 10 | 0.99 | 0.58 | 0.93 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 10 | 0.97 | 0.37 | 1.13 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 10 | 0.97 | 0.37 | 1.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 10 | 0.97 | 0.37 | 1.13 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 10 | 0.94 | 0.6 | 1.29 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 10 | 0.94 | 0.6 | 1.29 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 10 | 0.94 | 0.38 | 0.82 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 10 | 0.91 | 0.52 | 0.8 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 10 | 0.91 | 0.52 | 0.8 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 10 | 0.91 | 0.52 | 0.8 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 10 | 0.91 | 0.52 | 0.8 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 10 | 0.91 | 0.52 | 0.8 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 10 | 0.91 | 0.52 | 0.8 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 10 | 0.91 | 0.52 | 0.8 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 10 | 0.91 | 0.52 | 0.8 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 10 | 0.91 | 0.52 | 0.8 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 10 | 0.91 | 0.05 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 10 | 0.91 | 0.05 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 10 | 0.91 | 0.05 | 0.9 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 10 | 0.9 | 0.4 | 0.96 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 10 | 0.9 | 0.4 | 0.96 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 10 | 0.9 | 0.4 | 0.96 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 10 | 0.9 | 0.4 | 0.96 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 10 | 0.88 | 0.15 | 0.93 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 10 | 0.88 | 0.15 | 0.93 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 10 | 0.88 | 0.59 | 0.84 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 10 | 0.88 | 0.59 | 0.84 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 10 | 0.87 | 0.55 | 0.71 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 10 | 0.87 | 0.55 | 0.71 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 10 | 0.87 | 0.55 | 0.71 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 10 | 0.86 | 0.48 | 0.76 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 10 | 0.86 | 0.48 | 0.76 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 10 | 0.86 | 0.48 | 0.76 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 10 | 0.84 | 0.67 | 0.8 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 10 | 0.84 | 0.67 | 0.8 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 10 | 0.84 | 0.67 | 0.8 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 10 | 0.83 | 0.28 | 0.83 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 10 | 0.83 | 0.28 | 0.83 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 10 | 0.83 | 0.28 | 0.83 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 10 | 0.83 | 0.28 | 0.83 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 10 | 0.83 | 0.28 | 0.83 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 10 | 0.83 | 0.28 | 0.83 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 10 | 0.83 | 0.28 | 0.83 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 10 | 0.83 | 0.28 | 0.83 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 10 | 0.83 | 0.28 | 0.83 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 10 | 0.83 | 0.69 | 0.88 |
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 10 | 0.83 | 0.69 | 0.88 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 10 | 0.83 | 0.69 | 0.88 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 10 | 0.83 | 0.51 | 0.6 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 10 | 0.83 | 0.51 | 0.6 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 10 | 0.83 | 0.51 | 0.6 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 10 | 0.81 | 0.5 | 0.58 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 10 | 0.81 | 0.42 | 0.8 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 10 | 0.81 | 0.42 | 0.8 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 10 | 0.81 | 0.42 | 0.8 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 10 | 0.81 | 0.38 | 0.86 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 10 | 0.81 | 0.38 | 0.86 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 10 | 0.81 | 0.38 | 0.86 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 10 | 0.8 | 0.44 | 0.68 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 10 | 0.8 | 0.44 | 0.68 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 10 | 0.8 | 0.44 | 0.68 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 10 | 0.79 | 0.02 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 10 | 0.79 | 0.02 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 10 | 0.79 | 0.02 | 0.79 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 10 | 0.78 | 0.18 | 0.79 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 10 | 0.78 | 0.18 | 0.79 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 10 | 0.78 | 0.47 | 0.57 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 10 | 0.78 | 0.43 | 0.83 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 10 | 0.78 | 0.43 | 0.83 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 10 | 0.78 | 0.43 | 0.83 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 10 | 0.76 | 0.41 | 0.61 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 10 | 0.74 | 0.17 | 0.72 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 10 | 0.74 | 0.17 | 0.72 |
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 10 | 0.74 | 0.17 | 0.72 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 10 | 0.74 | 0.43 | 0.68 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 10 | 0.74 | 0.43 | 0.68 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 10 | 0.74 | 0.8 | 0.24 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 10 | 0.74 | 0.37 | 0.75 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 10 | 0.74 | 0.37 | 0.75 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 10 | 0.74 | 0.62 | 0.53 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 10 | 0.74 | 0.58 | 0.48 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 10 | 0.74 | 0.58 | 0.48 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 10 | 0.73 | 0.26 | 0.75 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 10 | 0.71 | 0.4 | 0.69 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 10 | 0.71 | 0.4 | 0.69 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 10 | 0.7 | 0.12 | 0.7 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 10 | 0.7 | 0.05 | 0.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 10 | 0.69 | 0.3 | 0.78 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 10 | 0.68 | 0.4 | 0.66 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 10 | 0.68 | 0.4 | 0.66 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 10 | 0.68 | 0.4 | 0.66 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 10 | 0.67 | 0.42 | 0.48 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 10 | 0.67 | 0.42 | 0.48 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 10 | 0.67 | 0.42 | 0.48 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 10 | 0.67 | 0.42 | 0.48 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 10 | 0.64 | 0.27 | 0.72 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 10 | 0.64 | 0.04 | 0.65 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 10 | 0.63 | 0.06 | 0.62 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 10 | 0.63 | 0.06 | 0.62 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 10 | 0.63 | 0.06 | 0.62 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 10 | 0.63 | 0.11 | 0.64 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 10 | 0.63 | 0.11 | 0.64 |
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 10 | 0.61 | 0.29 | 0.78 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 10 | 0.61 | 0.58 | 0.48 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 10 | 0.6 | 0.15 | 0.58 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 10 | 0.59 | 0.35 | 0.62 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 10 | 0.59 | 0.35 | 0.62 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 10 | 0.59 | 0.35 | 0.62 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 10 | 0.59 | 0.35 | 0.62 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 10 | 0.59 | 0.35 | 0.62 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 10 | 0.59 | 0.35 | 0.62 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 10 | 0.59 | 0.35 | 0.62 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 10 | 0.59 | 0.35 | 0.62 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 10 | 0.59 | 0.35 | 0.62 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 10 | 0.58 | 0.4 | 0.54 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 10 | 0.57 | 0.18 | 0.49 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 10 | 0.56 | 0.01 | 0.56 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 10 | 0.56 | 0.01 | 0.56 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 10 | 0.54 | 0.3 | 0.5 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 10 | 0.54 | 0.3 | 0.5 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 10 | 0.54 | 0.3 | 0.5 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 10 | 0.53 | 0.34 | 0.46 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 10 | 0.53 | 0.34 | 0.46 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 10 | 0.53 | 0.34 | 0.46 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 10 | 0.52 | 0.03 | 0.52 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 10 | 0.52 | 0.03 | 0.52 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 10 | 0.5 | 0.26 | 0.54 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 10 | 0.5 | 0.26 | 0.54 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 10 | 0.5 | 0.26 | 0.54 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 10 | 0.5 | 0.01 | 0.5 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 10 | 0.49 | 0.48 | 0.26 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 10 | 0.49 | 0.48 | 0.26 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 10 | 0.49 | 0.48 | 0.26 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 10 | 0.46 | 0.17 | 0.48 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 10 | 0.46 | 0.17 | 0.48 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 10 | 0.45 | 0.03 | 0.44 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 10 | 0.45 | 0.17 | 0.49 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 10 | 0.45 | 0.17 | 0.49 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 10 | 0.44 | 0.06 | 0.48 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 10 | 0.43 | 0.13 | 0.46 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 10 | 0.43 | 0.13 | 0.46 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 10 | 0.43 | 0.13 | 0.46 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 10 | 0.43 | 0.17 | 0.43 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 10 | 0.43 | 0.17 | 0.43 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 10 | 0.42 | 0.22 | 0.44 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 10 | 0.42 | 0.22 | 0.44 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 10 | 0.42 | 0.18 | 0.39 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 10 | 0.42 | 0.18 | 0.39 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 10 | 0.42 | 0.18 | 0.39 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 10 | 0.41 | 0.2 | 0.42 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 10 | 0.41 | 0.15 | 0.39 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 10 | 0.4 | 0.31 | 0.28 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 10 | 0.4 | 0.31 | 0.28 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 10 | 0.38 | 0.2 | 0.36 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 10 | 0.38 | 0.18 | 0.36 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 10 | 0.38 | 0.18 | 0.36 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 10 | 0.38 | 0.18 | 0.36 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 10 | 0.38 | 0.14 | 0.38 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 10 | 0.38 | 0.14 | 0.38 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 10 | 0.38 | 0.14 | 0.44 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 10 | 0.38 | 0.14 | 0.44 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 10 | 0.37 | 0.24 | 0.28 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 10 | 0.37 | 0.24 | 0.28 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 10 | 0.37 | 0.24 | 0.28 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 10 | 0.37 | 0.24 | 0.28 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 10 | 0.37 | 0.24 | 0.28 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 10 | 0.37 | 0.24 | 0.28 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 10 | 0.37 | 0.05 | 0.38 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 10 | 0.36 | 0.29 | 0.22 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 10 | 0.36 | 0.29 | 0.22 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 10 | 0.36 | 0.29 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 10 | 0.36 | 0.18 | 0.29 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 10 | 0.36 | 0.18 | 0.29 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 10 | 0.36 | 0.18 | 0.29 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 10 | 0.36 | 0.19 | 0.3 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 10 | 0.36 | 0.19 | 0.3 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 10 | 0.36 | 0.19 | 0.3 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 10 | 0.35 | 0.22 | 0.36 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 10 | 0.35 | 0.18 | 0.3 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 10 | 0.35 | 0.18 | 0.3 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 10 | 0.35 | 0.12 | 0.36 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 10 | 0.35 | 0.12 | 0.36 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 10 | 0.35 | 0.12 | 0.36 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 10 | 0.35 | 0.03 | 0.34 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 10 | 0.34 | 0.2 | 0.34 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 10 | 0.34 | 0.2 | 0.34 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 10 | 0.34 | 0.08 | 0.36 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 10 | 0.34 | 0.08 | 0.36 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 10 | 0.33 | 0.2 | 0.22 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 10 | 0.33 | 0.2 | 0.22 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 10 | 0.32 | 0.23 | 0.2 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 10 | 0.32 | 0.02 | 0.32 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 10 | 0.3 | 0.08 | 0.32 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 10 | 0.3 | 0.18 | 0.2 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 10 | 0.3 | 0.18 | 0.2 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 10 | 0.3 | 0.18 | 0.2 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 10 | 0.3 | 0.05 | 0.32 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 10 | 0.29 | 0.09 | 0.28 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 10 | 0.29 | 0.09 | 0.28 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 10 | 0.29 | 0.12 | 0.26 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 10 | 0.29 | 0.12 | 0.26 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 10 | 0.28 | 0.08 | 0.29 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 10 | 0.28 | 0.03 | 0.28 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 10 | 0.28 | 0.03 | 0.28 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 10 | 0.26 | 0.03 | 0.26 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 10 | 0.26 | 0.03 | 0.26 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 10 | 0.26 | 0.03 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 10 | 0.26 | 0.02 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 10 | 0.26 | 0.02 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 10 | 0.26 | 0.02 | 0.26 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 10 | 0.26 | 0.08 | 0.26 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 10 | 0.24 | 0.05 | 0.22 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 10 | 0.24 | 0.05 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 10 | 0.23 | 0.08 | 0.2 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 10 | 0.23 | 0.08 | 0.2 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 10 | 0.23 | 0.03 | 0.24 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 10 | 0.22 | 0.02 | 0.22 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 10 | 0.21 | 0.04 | 0.21 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 10 | 0.21 | 0.04 | 0.21 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 10 | 0.2 | 0.06 | 0.21 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 10 | 0.2 | 0.06 | 0.21 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 10 | 0.2 | 0.06 | 0.21 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 10 | 0.2 | 0.09 | 0.16 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 10 | 0.2 | 0.09 | 0.16 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 10 | 0.2 | 0.09 | 0.16 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 10 | 0.19 | 0.05 | 0.21 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 10 | 0.19 | 0.05 | 0.21 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 10 | 0.19 | 0.04 | 0.2 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 10 | 0.19 | 0.04 | 0.2 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 10 | 0.19 | 0.04 | 0.2 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 10 | 0.18 | 0.04 | 0.18 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 10 | 0.18 | 0.04 | 0.18 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 10 | 0.18 | 0.06 | 0.16 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 10 | 0.18 | 0.06 | 0.16 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 10 | 0.17 | 0.03 | 0.16 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 10 | 0.16 | 0.03 | 0.16 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 10 | 0.16 | 0.03 | 0.16 |
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 9 | 2.47 | 2.16 | 1.43 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 9 | 2.29 | 1.02 | 2.65 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 9 | 2.29 | 1.02 | 2.65 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 9 | 2.29 | 1.02 | 2.65 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 9 | 2.27 | 0.35 | 2.09 |
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 9 | 2.06 | 1.34 | 2.18 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 9 | 2.06 | 1.34 | 2.18 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 9 | 1.94 | 0.85 | 2.25 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 9 | 1.94 | 0.85 | 2.25 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 9 | 1.94 | 0.85 | 2.25 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 9 | 1.94 | 0.94 | 2.01 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 9 | 1.71 | 1.07 | 1.75 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 9 | 1.7 | 0.17 | 1.76 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 9 | 1.7 | 0.17 | 1.76 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 9 | 1.7 | 0.17 | 1.76 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 9 | 1.61 | 0.9 | 1.57 |
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 9 | 1.61 | 0.9 | 1.57 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 9 | 1.61 | 0.9 | 1.57 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 9 | 1.58 | 0.58 | 1.28 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 9 | 1.58 | 0.58 | 1.28 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 9 | 1.58 | 0.58 | 1.28 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 9 | 1.58 | 0.58 | 1.28 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 9 | 1.58 | 1.09 | 1.35 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 9 | 1.58 | 1.09 | 1.35 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 9 | 1.56 | 0.69 | 1.48 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 9 | 1.53 | 0.68 | 1.76 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 9 | 1.48 | 0.46 | 1.5 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 9 | 1.48 | 0.46 | 1.5 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 9 | 1.48 | 0.46 | 1.5 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 9 | 1.46 | 1.6 | 0.66 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 9 | 1.44 | 0.25 | 1.55 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 9 | 1.44 | 0.58 | 1.3 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 9 | 1.44 | 0.58 | 1.3 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 9 | 1.42 | 0.79 | 1.39 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 9 | 1.42 | 0.79 | 1.39 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 9 | 1.42 | 0.79 | 1.39 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 9 | 1.29 | 0.66 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 9 | 1.29 | 0.66 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 9 | 1.29 | 0.66 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 9 | 1.29 | 0.66 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 9 | 1.29 | 0.66 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 9 | 1.29 | 0.66 | 1.29 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 9 | 1.29 | 0.44 | 1.12 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 9 | 1.29 | 0.44 | 1.12 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 9 | 1.29 | 0.44 | 1.12 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 9 | 1.28 | 0.78 | 0.9 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 9 | 1.28 | 0.78 | 0.9 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 9 | 1.28 | 0.78 | 0.9 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 9 | 1.22 | 0.24 | 1.17 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 9 | 1.22 | 0.24 | 1.17 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 9 | 1.2 | 0.79 | 1.15 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 9 | 1.2 | 0.79 | 1.15 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 9 | 1.2 | 0.79 | 1.15 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 9 | 1.18 | 0.52 | 1.22 |
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 9 | 1.13 | 0.34 | 1.23 |
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 9 | 1.13 | 0.34 | 1.23 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 9 | 1.13 | 0.34 | 1.23 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 9 | 1.11 | 0.49 | 1.1 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 9 | 1.11 | 0.49 | 1.1 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 9 | 1.11 | 0.49 | 1.1 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 9 | 1.09 | 0.31 | 1.13 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 9 | 1.09 | 0.31 | 1.13 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 9 | 1.08 | 0.44 | 0.88 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 9 | 1.08 | 0.7 | 1.03 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 9 | 1.08 | 0.7 | 1.03 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 9 | 1.08 | 0.7 | 1.03 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 9 | 1.07 | 0.55 | 0.89 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 9 | 1.02 | 0.58 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 9 | 1.02 | 0.58 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 9 | 1.02 | 0.58 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 9 | 1.02 | 0.58 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 9 | 1.02 | 0.58 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 9 | 1.02 | 0.58 | 1.03 |
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 9 | 1.02 | 0.43 | 0.97 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 9 | 1.02 | 0.43 | 0.97 |
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 9 | 1.02 | 0.43 | 0.97 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 9 | 1.0 | 0.62 | 0.97 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 9 | 1.0 | 0.62 | 0.97 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 9 | 0.97 | 0.5 | 0.64 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 9 | 0.97 | 0.5 | 0.64 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 9 | 0.94 | 0.68 | 0.67 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 9 | 0.94 | 0.68 | 0.67 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 9 | 0.94 | 0.68 | 0.67 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 9 | 0.94 | 0.68 | 0.67 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 9 | 0.94 | 0.34 | 0.87 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 9 | 0.91 | 0.57 | 0.76 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 9 | 0.91 | 0.57 | 0.76 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 9 | 0.91 | 0.57 | 0.76 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 9 | 0.9 | 0.38 | 0.79 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 9 | 0.9 | 0.5 | 1.07 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 9 | 0.9 | 0.5 | 1.07 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 9 | 0.9 | 0.5 | 1.07 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 9 | 0.9 | 0.59 | 0.65 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 9 | 0.9 | 0.59 | 0.65 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 9 | 0.9 | 0.59 | 0.65 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 9 | 0.9 | 0.57 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 9 | 0.9 | 0.57 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 9 | 0.9 | 0.57 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 9 | 0.9 | 0.57 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 9 | 0.9 | 0.57 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 9 | 0.9 | 0.57 | 0.68 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 9 | 0.9 | 0.24 | 0.85 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 9 | 0.9 | 0.24 | 0.85 |
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 9 | 0.86 | 0.75 | 0.43 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 9 | 0.86 | 0.75 | 0.43 |
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 9 | 0.85 | 0.69 | 0.6 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 9 | 0.85 | 0.79 | 0.56 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 9 | 0.84 | 0.53 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 9 | 0.84 | 0.53 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 9 | 0.84 | 0.53 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 9 | 0.84 | 0.53 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 9 | 0.84 | 0.53 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 9 | 0.84 | 0.53 | 0.93 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 9 | 0.84 | 0.32 | 0.9 |
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 9 | 0.77 | 0.47 | 0.9 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 9 | 0.77 | 0.47 | 0.9 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 9 | 0.77 | 0.47 | 0.9 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 9 | 0.76 | 0.41 | 0.74 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 9 | 0.75 | 0.38 | 0.55 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 9 | 0.75 | 0.38 | 0.55 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 9 | 0.75 | 0.38 | 0.55 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 9 | 0.75 | 0.38 | 0.55 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 9 | 0.74 | 0.32 | 0.74 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 9 | 0.74 | 0.35 | 0.77 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 9 | 0.74 | 0.35 | 0.84 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 9 | 0.74 | 0.35 | 0.84 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 9 | 0.73 | 0.49 | 0.62 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 9 | 0.73 | 0.49 | 0.62 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 9 | 0.73 | 0.01 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 9 | 0.73 | 0.01 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 9 | 0.73 | 0.01 | 0.72 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 9 | 0.72 | 0.53 | 0.42 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 9 | 0.71 | 0.45 | 0.69 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 9 | 0.7 | 0.48 | 0.56 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 9 | 0.7 | 0.07 | 0.69 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 9 | 0.7 | 0.07 | 0.69 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 9 | 0.69 | 0.52 | 0.37 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 9 | 0.69 | 0.52 | 0.37 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 9 | 0.69 | 0.52 | 0.37 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 9 | 0.68 | 0.52 | 0.56 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 9 | 0.68 | 0.52 | 0.56 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 9 | 0.68 | 0.37 | 0.68 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 9 | 0.68 | 0.37 | 0.68 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 9 | 0.68 | 0.37 | 0.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 9 | 0.68 | 0.51 | 0.53 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 9 | 0.67 | 0.16 | 0.72 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 9 | 0.67 | 0.16 | 0.72 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 9 | 0.67 | 0.16 | 0.72 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 9 | 0.66 | 0.18 | 0.64 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 9 | 0.66 | 0.18 | 0.64 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 9 | 0.66 | 0.43 | 0.65 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 9 | 0.66 | 0.43 | 0.65 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 9 | 0.65 | 0.24 | 0.76 |
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 9 | 0.65 | 0.24 | 0.76 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 9 | 0.65 | 0.21 | 0.74 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 9 | 0.65 | 0.21 | 0.74 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 9 | 0.65 | 0.21 | 0.74 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 9 | 0.65 | 0.21 | 0.74 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 9 | 0.62 | 0.17 | 0.71 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 9 | 0.62 | 0.42 | 0.36 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 9 | 0.62 | 0.42 | 0.36 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 9 | 0.61 | 0.38 | 0.38 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 9 | 0.61 | 0.38 | 0.38 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 9 | 0.61 | 0.38 | 0.38 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 9 | 0.6 | 0.22 | 0.56 |
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 9 | 0.59 | 0.22 | 0.44 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 9 | 0.59 | 0.28 | 0.47 |
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 9 | 0.57 | 0.38 | 0.41 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 9 | 0.57 | 0.38 | 0.41 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 9 | 0.57 | 0.38 | 0.41 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 9 | 0.55 | 0.16 | 0.54 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 9 | 0.55 | 0.16 | 0.54 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 9 | 0.54 | 0.37 | 0.47 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 9 | 0.54 | 0.37 | 0.47 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 9 | 0.54 | 0.37 | 0.47 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 9 | 0.53 | 0.05 | 0.54 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 9 | 0.53 | 0.25 | 0.43 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 9 | 0.53 | 0.25 | 0.43 |
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 9 | 0.53 | 0.25 | 0.43 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 9 | 0.52 | 0.19 | 0.56 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 9 | 0.52 | 0.19 | 0.56 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 9 | 0.52 | 0.19 | 0.56 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 9 | 0.52 | 0.19 | 0.56 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 9 | 0.52 | 0.19 | 0.56 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 9 | 0.52 | 0.19 | 0.56 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 9 | 0.52 | 0.19 | 0.56 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 9 | 0.52 | 0.19 | 0.56 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 9 | 0.52 | 0.19 | 0.56 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 9 | 0.51 | 0.28 | 0.43 |
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 9 | 0.5 | 0.07 | 0.52 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 9 | 0.5 | 0.07 | 0.52 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 9 | 0.5 | 0.07 | 0.52 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 9 | 0.49 | 0.18 | 0.44 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 9 | 0.47 | 0.24 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 9 | 0.47 | 0.24 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 9 | 0.47 | 0.24 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 9 | 0.47 | 0.24 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 9 | 0.47 | 0.24 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 9 | 0.47 | 0.24 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 9 | 0.47 | 0.24 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 9 | 0.47 | 0.24 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 9 | 0.47 | 0.24 | 0.48 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 9 | 0.44 | 0.14 | 0.51 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 9 | 0.44 | 0.14 | 0.51 |
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 9 | 0.43 | 0.29 | 0.29 |
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 9 | 0.43 | 0.29 | 0.29 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 9 | 0.43 | 0.29 | 0.29 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 9 | 0.42 | 0.11 | 0.42 |
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 9 | 0.42 | 0.2 | 0.45 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 9 | 0.4 | 0.23 | 0.31 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 9 | 0.4 | 0.14 | 0.38 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 9 | 0.4 | 0.14 | 0.38 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 9 | 0.39 | 0.16 | 0.36 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 9 | 0.39 | 0.16 | 0.36 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 9 | 0.39 | 0.16 | 0.36 |
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 9 | 0.38 | 0.21 | 0.28 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 9 | 0.38 | 0.21 | 0.28 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 9 | 0.37 | 0.17 | 0.3 |
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 9 | 0.35 | 0.1 | 0.35 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 9 | 0.35 | 0.11 | 0.38 |
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 9 | 0.35 | 0.11 | 0.38 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 9 | 0.34 | 0.05 | 0.35 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 9 | 0.34 | 0.05 | 0.35 |
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 9 | 0.32 | 0.08 | 0.35 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 9 | 0.32 | 0.08 | 0.35 |
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 9 | 0.32 | 0.08 | 0.35 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 9 | 0.32 | 0.15 | 0.32 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 9 | 0.32 | 0.15 | 0.32 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 9 | 0.31 | 0.1 | 0.27 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 9 | 0.29 | 0.13 | 0.25 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 9 | 0.28 | 0.15 | 0.2 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 9 | 0.28 | 0.15 | 0.2 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 9 | 0.28 | 0.16 | 0.18 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 9 | 0.28 | 0.16 | 0.18 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 9 | 0.28 | 0.13 | 0.26 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 9 | 0.27 | 0.13 | 0.22 |
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 9 | 0.27 | 0.13 | 0.22 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 9 | 0.27 | 0.15 | 0.22 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 9 | 0.27 | 0.15 | 0.23 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 9 | 0.27 | 0.15 | 0.23 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 9 | 0.27 | 0.15 | 0.23 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 9 | 0.26 | 0.15 | 0.23 |
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 9 | 0.26 | 0.15 | 0.23 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 9 | 0.26 | 0.12 | 0.26 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 9 | 0.26 | 0.12 | 0.26 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 9 | 0.26 | 0.08 | 0.29 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 9 | 0.26 | 0.08 | 0.29 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 9 | 0.26 | 0.08 | 0.29 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 9 | 0.26 | 0.01 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 9 | 0.26 | 0.01 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 9 | 0.26 | 0.01 | 0.25 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 9 | 0.22 | 0.07 | 0.23 |
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 9 | 0.21 | 0.04 | 0.23 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 9 | 0.2 | 0.11 | 0.17 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 9 | 0.2 | 0.11 | 0.17 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 9 | 0.18 | 0.05 | 0.19 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 9 | 0.18 | 0.05 | 0.19 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 9 | 0.18 | 0.07 | 0.16 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 9 | 0.18 | 0.07 | 0.16 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 9 | 0.18 | 0.07 | 0.16 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 9 | 0.18 | 0.06 | 0.16 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 9 | 0.16 | 0.03 | 0.16 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 9 | 0.16 | 0.03 | 0.16 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 9 | 0.15 | 0.03 | 0.15 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 9 | 0.13 | 0.01 | 0.14 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 9 | 0.11 | 0.01 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 9 | 0.11 | 0.01 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 9 | 0.11 | 0.01 | 0.11 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 9 | 0.11 | 0.01 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 9 | 0.11 | 0.0 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 9 | 0.11 | 0.0 | 0.11 |
| (1,7456) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 8 | 3.08 | 1.22 | 2.99 |
| (1,6606) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 8 | 2.72 | 1.79 | 2.42 |
| (1,2347) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 8 | 1.79 | 0.43 | 1.86 |
| (1,6508) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 8 | 1.79 | 0.43 | 1.86 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 8 | 1.75 | 0.64 | 1.9 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 8 | 1.75 | 0.64 | 1.9 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 8 | 1.75 | 0.64 | 1.9 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 8 | 1.49 | 0.67 | 1.66 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 8 | 1.49 | 0.67 | 1.66 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 8 | 1.49 | 0.67 | 1.66 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 8 | 1.49 | 0.67 | 1.66 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 8 | 1.49 | 0.67 | 1.66 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 8 | 1.49 | 0.67 | 1.66 |
| (1,6289) | 1:150:A:VAL:H | 1:157:A:HIS:H | 8 | 1.48 | 1.34 | 0.76 |
| (1,5877) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 8 | 1.29 | 0.62 | 1.27 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 8 | 1.29 | 0.87 | 1.04 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 8 | 1.29 | 0.87 | 1.04 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 8 | 1.29 | 0.87 | 1.04 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 8 | 1.29 | 0.87 | 1.04 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 8 | 1.29 | 0.87 | 1.04 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 8 | 1.29 | 0.87 | 1.04 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 8 | 1.24 | 0.72 | 1.34 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 8 | 1.24 | 0.72 | 1.34 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 8 | 1.21 | 0.6 | 1.18 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 8 | 1.21 | 0.6 | 1.18 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 8 | 1.21 | 0.6 | 1.18 |
| (1,7583) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 8 | 1.13 | 0.56 | 1.13 |
| (1,5797) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 8 | 1.12 | 0.6 | 1.0 |
| (1,5797) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 8 | 1.12 | 0.6 | 1.0 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 8 | 1.1 | 0.95 | 0.68 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 8 | 1.1 | 0.95 | 0.68 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 8 | 1.1 | 0.95 | 0.68 |
| (1,6020) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 8 | 1.09 | 0.53 | 0.99 |
| (1,6020) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 8 | 1.09 | 0.53 | 0.99 |
| (3,409) | 1:61:A:LEU:H | 1:157:A:HIS:H | 8 | 1.08 | 0.91 | 0.62 |
| (1,6530) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 8 | 1.08 | 0.71 | 0.96 |
| (1,6530) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 8 | 1.08 | 0.71 | 0.96 |
| (1,6530) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 8 | 1.08 | 0.71 | 0.96 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 8 | 1.03 | 0.52 | 1.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 8 | 1.03 | 0.52 | 1.3 |
| (1,6728) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 8 | 1.02 | 0.72 | 0.98 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 8 | 0.99 | 0.32 | 1.12 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 8 | 0.99 | 0.32 | 1.12 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 8 | 0.99 | 0.32 | 1.12 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 8 | 0.98 | 0.49 | 1.12 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 8 | 0.98 | 0.49 | 1.12 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 8 | 0.98 | 0.49 | 1.12 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 8 | 0.98 | 0.49 | 1.12 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 8 | 0.98 | 0.49 | 1.12 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 8 | 0.98 | 0.49 | 1.12 |
| (1,7247) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 8 | 0.97 | 0.53 | 0.96 |
| (1,4852) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 8 | 0.94 | 0.87 | 0.57 |
| (1,4852) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 8 | 0.94 | 0.87 | 0.57 |
| (1,4852) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 8 | 0.94 | 0.87 | 0.57 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 8 | 0.9 | 0.22 | 0.98 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 8 | 0.9 | 0.22 | 0.98 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 8 | 0.9 | 0.22 | 0.98 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 8 | 0.9 | 0.22 | 0.98 |
| (3,386) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 8 | 0.89 | 0.64 | 0.79 |
| (1,8786) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 8 | 0.88 | 0.62 | 0.57 |
| (1,8786) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 8 | 0.88 | 0.62 | 0.57 |
| (1,3119) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 8 | 0.82 | 0.23 | 0.91 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 8 | 0.82 | 0.44 | 0.76 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 8 | 0.82 | 0.44 | 0.76 |
| (1,8877) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 8 | 0.81 | 0.56 | 0.87 |
| (1,8877) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 8 | 0.81 | 0.56 | 0.87 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 8 | 0.8 | 0.22 | 0.89 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 8 | 0.8 | 0.22 | 0.89 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 8 | 0.8 | 0.22 | 0.89 |
| (1,6642) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 8 | 0.79 | 0.54 | 0.94 |
| (1,6642) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 8 | 0.79 | 0.54 | 0.94 |
| (1,6642) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 8 | 0.79 | 0.54 | 0.94 |
| (1,4869) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 8 | 0.79 | 0.4 | 0.76 |
| (1,4869) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 8 | 0.79 | 0.4 | 0.76 |
| (1,4869) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 8 | 0.79 | 0.4 | 0.76 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 8 | 0.76 | 0.91 | 0.28 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 8 | 0.76 | 0.91 | 0.28 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 8 | 0.76 | 0.91 | 0.28 |
| (3,545) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 8 | 0.76 | 0.61 | 0.56 |
| (3,545) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 8 | 0.76 | 0.61 | 0.56 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 8 | 0.75 | 0.33 | 0.64 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 8 | 0.75 | 0.33 | 0.64 |
| (3,25) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 8 | 0.75 | 0.38 | 0.78 |
| (3,25) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 8 | 0.75 | 0.38 | 0.78 |
| (3,25) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 8 | 0.75 | 0.38 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 8 | 0.74 | 0.33 | 0.83 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 8 | 0.74 | 0.33 | 0.83 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 8 | 0.74 | 0.33 | 0.83 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 8 | 0.74 | 0.33 | 0.83 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 8 | 0.74 | 0.33 | 0.83 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 8 | 0.74 | 0.33 | 0.83 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 8 | 0.74 | 0.33 | 0.83 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 8 | 0.74 | 0.33 | 0.83 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 8 | 0.74 | 0.33 | 0.83 |
| (1,7600) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 8 | 0.72 | 0.37 | 0.74 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 8 | 0.72 | 0.2 | 0.68 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 8 | 0.72 | 0.2 | 0.68 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 8 | 0.72 | 0.2 | 0.68 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 8 | 0.72 | 0.2 | 0.68 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 8 | 0.72 | 0.2 | 0.68 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 8 | 0.72 | 0.2 | 0.68 |
| (1,679) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 8 | 0.72 | 0.69 | 0.32 |
| (1,5524) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 8 | 0.72 | 0.69 | 0.32 |
| (1,4708) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 8 | 0.7 | 0.34 | 0.76 |
| (1,1489) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 8 | 0.7 | 0.4 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD21 | 8 | 0.7 | 0.01 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD22 | 8 | 0.7 | 0.01 | 0.7 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 8 | 0.69 | 0.05 | 0.68 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 8 | 0.69 | 0.05 | 0.68 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 8 | 0.69 | 0.05 | 0.68 |
| (3,488) | 1:85:A:ALA:H | 1:88:A:LEU:H | 8 | 0.67 | 0.33 | 0.59 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 8 | 0.66 | 0.04 | 0.64 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 8 | 0.66 | 0.04 | 0.64 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 8 | 0.66 | 0.04 | 0.64 |
| (1,3845) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 8 | 0.65 | 0.78 | 0.25 |
| (1,3845) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 8 | 0.65 | 0.78 | 0.25 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 8 | 0.65 | 0.33 | 0.74 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 8 | 0.65 | 0.33 | 0.74 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 8 | 0.65 | 0.33 | 0.74 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 8 | 0.65 | 0.33 | 0.74 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 8 | 0.65 | 0.33 | 0.74 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 8 | 0.65 | 0.33 | 0.74 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 8 | 0.65 | 0.46 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 8 | 0.65 | 0.46 | 0.44 |
| (3,355) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 8 | 0.64 | 0.44 | 0.46 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 8 | 0.62 | 0.15 | 0.62 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 8 | 0.62 | 0.15 | 0.62 |
| (3,351) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 8 | 0.62 | 0.23 | 0.57 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 8 | 0.61 | 0.26 | 0.63 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 8 | 0.61 | 0.26 | 0.63 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 8 | 0.61 | 0.26 | 0.63 |
| (1,7304) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 8 | 0.6 | 0.3 | 0.58 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 8 | 0.6 | 0.18 | 0.67 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 8 | 0.6 | 0.18 | 0.67 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 8 | 0.6 | 0.36 | 0.5 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 8 | 0.6 | 0.36 | 0.5 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 8 | 0.6 | 0.36 | 0.5 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 8 | 0.6 | 0.36 | 0.5 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 8 | 0.6 | 0.36 | 0.5 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 8 | 0.6 | 0.36 | 0.5 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 8 | 0.58 | 0.31 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 8 | 0.58 | 0.31 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 8 | 0.58 | 0.31 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 8 | 0.58 | 0.31 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 8 | 0.58 | 0.31 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 8 | 0.58 | 0.31 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 8 | 0.58 | 0.31 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 8 | 0.58 | 0.31 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 8 | 0.58 | 0.31 | 0.56 |
| (1,2561) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 8 | 0.57 | 0.29 | 0.44 |
| (1,6674) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 8 | 0.57 | 0.29 | 0.44 |
| (3,135) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 8 | 0.57 | 0.44 | 0.48 |
| (3,135) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 8 | 0.57 | 0.44 | 0.48 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 8 | 0.56 | 0.25 | 0.68 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 8 | 0.56 | 0.25 | 0.68 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 8 | 0.56 | 0.25 | 0.68 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 8 | 0.56 | 0.25 | 0.68 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 8 | 0.56 | 0.25 | 0.68 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 8 | 0.56 | 0.25 | 0.68 |
| (1,2385) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 8 | 0.56 | 0.26 | 0.52 |
| (1,6540) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 8 | 0.56 | 0.26 | 0.52 |
| (1,7010) | 1:37:A:PRO:HA | 1:38:A:SER:H | 8 | 0.56 | 0.02 | 0.55 |
| (1,4617) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 8 | 0.53 | 0.37 | 0.53 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 8 | 0.51 | 0.29 | 0.38 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 8 | 0.51 | 0.29 | 0.38 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 8 | 0.51 | 0.29 | 0.38 |
| (3,104) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 8 | 0.49 | 0.31 | 0.32 |
| (3,104) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 8 | 0.49 | 0.31 | 0.32 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 8 | 0.49 | 0.11 | 0.48 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 8 | 0.49 | 0.11 | 0.48 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 8 | 0.48 | 0.54 | 0.18 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 8 | 0.48 | 0.54 | 0.18 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 8 | 0.48 | 0.54 | 0.18 |
| (1,7117) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 8 | 0.48 | 0.43 | 0.29 |
| (1,1749) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 8 | 0.48 | 0.11 | 0.46 |
| (1,6151) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 8 | 0.48 | 0.11 | 0.46 |
| (1,213) | 1:73:A:TRP:H | 1:74:A:ARG:H | 8 | 0.47 | 0.49 | 0.26 |
| (1,4992) | 1:73:A:TRP:H | 1:74:A:ARG:H | 8 | 0.47 | 0.49 | 0.26 |
| (1,4927) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 8 | 0.45 | 0.18 | 0.47 |
| (1,7740) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 8 | 0.44 | 0.34 | 0.32 |
| (1,5726) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 8 | 0.44 | 0.28 | 0.36 |
| (1,5726) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 8 | 0.44 | 0.28 | 0.36 |
| (1,5726) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 8 | 0.44 | 0.28 | 0.36 |
| (1,6730) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 8 | 0.44 | 0.19 | 0.43 |
| (1,5111) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 8 | 0.43 | 0.18 | 0.44 |
| (1,2945) | 1:32:A:SER:HA | 1:33:A:GLN:H | 8 | 0.41 | 0.31 | 0.31 |
| (1,6929) | 1:32:A:SER:HA | 1:33:A:GLN:H | 8 | 0.41 | 0.31 | 0.31 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 8 | 0.4 | 0.07 | 0.36 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 8 | 0.4 | 0.07 | 0.36 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 8 | 0.39 | 0.28 | 0.34 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 8 | 0.39 | 0.28 | 0.34 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 8 | 0.39 | 0.28 | 0.34 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 8 | 0.39 | 0.28 | 0.34 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 8 | 0.39 | 0.28 | 0.34 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 8 | 0.39 | 0.28 | 0.34 |
| (1,7221) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 8 | 0.39 | 0.03 | 0.4 |
| (3,155) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 8 | 0.38 | 0.14 | 0.38 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG2 | 8 | 0.37 | 0.04 | 0.38 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG3 | 8 | 0.37 | 0.04 | 0.38 |
| (1,2631) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 8 | 0.35 | 0.11 | 0.4 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 8 | 0.35 | 0.12 | 0.37 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 8 | 0.35 | 0.12 | 0.37 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 8 | 0.34 | 0.19 | 0.32 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 8 | 0.34 | 0.19 | 0.32 |
| (1,881) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 8 | 0.33 | 0.01 | 0.33 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 8 | 0.3 | 0.28 | 0.19 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 8 | 0.3 | 0.28 | 0.19 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 8 | 0.3 | 0.28 | 0.19 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 8 | 0.29 | 0.18 | 0.21 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 8 | 0.29 | 0.18 | 0.21 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 8 | 0.29 | 0.18 | 0.21 |
| (1,469) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 8 | 0.28 | 0.1 | 0.3 |
| (1,469) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 8 | 0.28 | 0.1 | 0.3 |
| (1,469) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 8 | 0.28 | 0.1 | 0.3 |
| (1,1085) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 8 | 0.28 | 0.07 | 0.29 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 8 | 0.28 | 0.13 | 0.24 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 8 | 0.28 | 0.13 | 0.24 |
| (1,14) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 8 | 0.27 | 0.09 | 0.24 |
| (1,4635) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 8 | 0.27 | 0.09 | 0.24 |
| (1,5317) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 8 | 0.27 | 0.12 | 0.26 |
| (1,272) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 8 | 0.27 | 0.09 | 0.26 |
| (1,5054) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 8 | 0.27 | 0.09 | 0.26 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 8 | 0.26 | 0.05 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 8 | 0.26 | 0.05 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 8 | 0.26 | 0.05 | 0.27 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 8 | 0.25 | 0.16 | 0.17 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 8 | 0.25 | 0.16 | 0.17 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 8 | 0.25 | 0.16 | 0.17 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 8 | 0.25 | 0.23 | 0.12 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 8 | 0.25 | 0.23 | 0.12 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 8 | 0.25 | 0.06 | 0.25 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 8 | 0.25 | 0.06 | 0.25 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 8 | 0.25 | 0.06 | 0.25 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 8 | 0.25 | 0.03 | 0.24 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 8 | 0.25 | 0.03 | 0.24 |
| (1,5644) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 0.24 | 0.02 | 0.25 |
| (1,2321) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 8 | 0.24 | 0.08 | 0.28 |
| (1,621) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 8 | 0.22 | 0.08 | 0.21 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 8 | 0.22 | 0.04 | 0.22 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB3 | 8 | 0.22 | 0.04 | 0.22 |
| (1,5394) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 8 | 0.22 | 0.04 | 0.22 |
| (1,5031) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 8 | 0.22 | 0.08 | 0.18 |
| (1,6145) | 1:140:A:ALA:H | 1:141:A:LEU:H | 8 | 0.21 | 0.08 | 0.2 |
| (1,6756) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 8 | 0.21 | 0.07 | 0.2 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 8 | 0.2 | 0.02 | 0.2 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 0.2 | 0.02 | 0.2 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB2 | 8 | 0.2 | 0.07 | 0.2 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 8 | 0.2 | 0.07 | 0.2 |
| (1,1709) | 1:139:A:PHE:H | 1:140:A:ALA:H | 8 | 0.2 | 0.06 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6122) | 1:139:A:PHE:H | 1:140:A:ALA:H | 8 | 0.2 | 0.06 | 0.16 |
| (1,2571) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 8 | 0.19 | 0.0 | 0.19 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 8 | 0.19 | 0.04 | 0.2 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 8 | 0.19 | 0.04 | 0.2 |
| (1,1047) | 1:109:A:GLN:H | 1:110:A:PHE:H | 8 | 0.18 | 0.03 | 0.19 |
| (1,5745) | 1:109:A:GLN:H | 1:110:A:PHE:H | 8 | 0.18 | 0.03 | 0.19 |
| (1,6107) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 8 | 0.18 | 0.05 | 0.18 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 8 | 0.18 | 0.05 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 8 | 0.18 | 0.05 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 8 | 0.18 | 0.05 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 8 | 0.18 | 0.05 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 8 | 0.18 | 0.05 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 8 | 0.18 | 0.05 | 0.16 |
| (1,3403) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 8 | 0.18 | 0.0 | 0.18 |
| (1,2841) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 8 | 0.16 | 0.04 | 0.17 |
| (1,919) | 1:105:A:SER:H | 1:106:A:LEU:H | 8 | 0.16 | 0.04 | 0.16 |
| (1,5667) | 1:105:A:SER:H | 1:106:A:LEU:H | 8 | 0.16 | 0.04 | 0.16 |
| (1,2213) | 1:162:A:THR:HA | 1:162:A:THR:HB | 8 | 0.15 | 0.01 | 0.15 |
| (1,4984) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 8 | 0.15 | 0.03 | 0.16 |
| (1,1255) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 8 | 0.14 | 0.03 | 0.13 |
| (1,1255) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 8 | 0.14 | 0.03 | 0.13 |
| (1,204) | 1:71:A:SER:HA | 1:72:A:SER:H | 8 | 0.12 | 0.02 | 0.11 |
| (1,2245) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 8 | 0.12 | 0.0 | 0.12 |
| (1,913) | 1:105:A:SER:H | 1:105:A:SER:HA | 8 | 0.11 | 0.01 | 0.11 |
| (1,6582) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 7 | 2.67 | 1.3 | 1.89 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 7 | 1.61 | 0.71 | 1.99 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 7 | 1.61 | 0.71 | 1.99 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 7 | 1.6 | 0.74 | 1.79 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 7 | 1.6 | 0.74 | 1.79 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 7 | 1.6 | 0.74 | 1.79 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 7 | 1.6 | 0.74 | 1.79 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 7 | 1.45 | 0.8 | 1.55 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 7 | 1.45 | 0.8 | 1.55 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 7 | 1.27 | 0.57 | 1.36 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 7 | 1.27 | 0.57 | 1.36 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 7 | 1.27 | 0.57 | 1.36 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 7 | 1.24 | 0.81 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 7 | 1.24 | 0.81 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 7 | 1.24 | 0.81 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 7 | 1.24 | 0.81 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 7 | 1.24 | 0.81 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 7 | 1.24 | 0.81 | 1.19 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 7 | 1.24 | 0.81 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 7 | 1.24 | 0.81 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 7 | 1.24 | 0.81 | 1.19 |
| (3,213) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 7 | 1.23 | 0.44 | 1.47 |
| (3,876) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 7 | 1.22 | 1.1 | 1.17 |
| (3,876) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 7 | 1.22 | 1.1 | 1.17 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 7 | 1.21 | 0.54 | 1.34 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 7 | 1.21 | 0.54 | 1.34 |
| (1,8124) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 7 | 1.21 | 0.54 | 1.26 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 7 | 1.18 | 0.55 | 1.51 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 7 | 1.18 | 0.55 | 1.51 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 7 | 1.18 | 0.55 | 1.51 |
| (1,7406) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 7 | 1.17 | 0.17 | 1.25 |
| (3,571) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 7 | 1.12 | 0.42 | 1.12 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 7 | 1.09 | 0.3 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 7 | 1.09 | 0.3 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 7 | 1.09 | 0.3 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 7 | 1.09 | 0.3 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 7 | 1.09 | 0.3 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 7 | 1.09 | 0.3 | 1.19 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 7 | 1.01 | 0.57 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 7 | 1.01 | 0.57 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 7 | 1.01 | 0.57 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 7 | 1.01 | 0.57 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 7 | 1.01 | 0.57 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 7 | 1.01 | 0.57 | 1.29 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 7 | 1.0 | 0.44 | 1.22 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 7 | 1.0 | 0.44 | 1.22 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 7 | 1.0 | 0.44 | 1.22 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 7 | 0.98 | 0.07 | 0.98 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 7 | 0.98 | 0.07 | 0.98 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 7 | 0.98 | 0.07 | 0.98 |
| (1,7561) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 7 | 0.9 | 0.16 | 0.85 |
| (1,7561) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 7 | 0.9 | 0.16 | 0.85 |
| (1,7561) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 7 | 0.9 | 0.16 | 0.85 |
| (1,4856) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 7 | 0.9 | 0.4 | 0.91 |
| (1,4856) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 7 | 0.9 | 0.4 | 0.91 |
| (1,4856) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 7 | 0.9 | 0.4 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 7 | 0.89 | 0.61 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 7 | 0.89 | 0.61 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 7 | 0.89 | 0.61 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 7 | 0.89 | 0.61 | 0.91 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 7 | 0.89 | 0.61 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 7 | 0.89 | 0.61 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 7 | 0.89 | 0.61 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 7 | 0.89 | 0.61 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 7 | 0.89 | 0.61 | 0.91 |
| (3,611) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 7 | 0.88 | 0.38 | 0.81 |
| (1,8683) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 7 | 0.87 | 0.15 | 0.95 |
| (1,8683) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 7 | 0.87 | 0.15 | 0.95 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 7 | 0.86 | 0.0 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 7 | 0.86 | 0.0 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 7 | 0.86 | 0.0 | 0.86 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 7 | 0.77 | 0.02 | 0.77 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 7 | 0.77 | 0.02 | 0.77 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 7 | 0.77 | 0.02 | 0.77 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 7 | 0.77 | 0.49 | 0.85 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 7 | 0.77 | 0.49 | 0.85 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 7 | 0.77 | 0.49 | 0.85 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 7 | 0.77 | 0.49 | 0.85 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 7 | 0.71 | 0.4 | 0.68 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 7 | 0.71 | 0.4 | 0.68 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 7 | 0.71 | 0.4 | 0.68 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 7 | 0.71 | 0.4 | 0.68 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 7 | 0.71 | 0.4 | 0.68 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 7 | 0.71 | 0.4 | 0.68 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 7 | 0.69 | 0.07 | 0.72 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 7 | 0.69 | 0.07 | 0.72 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 7 | 0.69 | 0.34 | 0.72 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 7 | 0.69 | 0.34 | 0.72 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 7 | 0.69 | 0.34 | 0.72 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 7 | 0.69 | 0.4 | 0.79 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 7 | 0.69 | 0.4 | 0.79 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 7 | 0.68 | 0.42 | 0.72 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 7 | 0.68 | 0.42 | 0.72 |
| (3,605) | 1:115:A:SER:H | 1:122:A:LEU:H | 7 | 0.65 | 0.43 | 0.64 |
| (1,2035) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 7 | 0.64 | 0.26 | 0.73 |
| (1,6354) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 7 | 0.64 | 0.26 | 0.73 |
| (1,5239) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 7 | 0.62 | 0.27 | 0.53 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 7 | 0.62 | 0.13 | 0.58 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 7 | 0.62 | 0.13 | 0.58 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 7 | 0.62 | 0.65 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 7 | 0.62 | 0.65 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 7 | 0.62 | 0.65 | 0.27 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 7 | 0.62 | 0.65 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 7 | 0.62 | 0.65 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 7 | 0.62 | 0.65 | 0.27 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 7 | 0.62 | 0.5 | 0.34 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 7 | 0.62 | 0.5 | 0.34 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 7 | 0.62 | 0.5 | 0.34 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 7 | 0.62 | 0.5 | 0.34 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 7 | 0.62 | 0.5 | 0.34 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 7 | 0.62 | 0.5 | 0.34 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 7 | 0.61 | 0.34 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 7 | 0.61 | 0.34 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 7 | 0.61 | 0.34 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 7 | 0.61 | 0.34 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 7 | 0.61 | 0.34 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 7 | 0.61 | 0.34 | 0.71 |
| (3,734) | 1:152:A:THR:H | 1:157:A:HIS:H | 7 | 0.58 | 0.27 | 0.57 |
| (1,7326) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 7 | 0.57 | 0.34 | 0.54 |
| (3,369) | 1:59:A:HIS:H | 1:120:A:GLY:H | 7 | 0.57 | 0.29 | 0.56 |
| (1,37) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 7 | 0.57 | 0.13 | 0.6 |
| (1,37) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 7 | 0.57 | 0.13 | 0.6 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 7 | 0.54 | 0.48 | 0.28 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 7 | 0.54 | 0.48 | 0.28 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 7 | 0.54 | 0.48 | 0.28 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 7 | 0.53 | 0.03 | 0.54 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 7 | 0.53 | 0.03 | 0.54 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 7 | 0.53 | 0.01 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 7 | 0.53 | 0.01 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 7 | 0.53 | 0.01 | 0.52 |
| (3,21) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 7 | 0.52 | 0.18 | 0.57 |
| (3,21) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 7 | 0.52 | 0.18 | 0.57 |
| (3,21) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 7 | 0.52 | 0.18 | 0.57 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 7 | 0.51 | 0.29 | 0.43 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 7 | 0.51 | 0.29 | 0.43 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 7 | 0.51 | 0.29 | 0.43 |
| (1,2481) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 7 | 0.49 | 0.44 | 0.29 |
| (3,3) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 7 | 0.48 | 0.35 | 0.3 |
| (3,3) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 7 | 0.48 | 0.35 | 0.3 |
| (1,2949) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 7 | 0.48 | 0.2 | 0.57 |
| (1,6931) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 7 | 0.48 | 0.2 | 0.57 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 7 | 0.48 | 0.48 | 0.21 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 7 | 0.48 | 0.48 | 0.21 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 7 | 0.48 | 0.48 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2821) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 7 | 0.47 | 0.01 | 0.48 |
| (1,4747) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 7 | 0.45 | 0.15 | 0.42 |
| (3,75) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 7 | 0.45 | 0.22 | 0.51 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 7 | 0.44 | 0.0 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 7 | 0.44 | 0.0 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 7 | 0.44 | 0.0 | 0.44 |
| (1,242) | 1:75:A:GLN:HA | 1:75:A:GLN:HB2 | 7 | 0.44 | 0.09 | 0.48 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 7 | 0.42 | 0.14 | 0.4 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 7 | 0.42 | 0.14 | 0.4 |
| (1,362) | 1:83:A:GLU:H | 1:84:A:GLU:H | 7 | 0.41 | 0.19 | 0.39 |
| (1,5182) | 1:83:A:GLU:H | 1:84:A:GLU:H | 7 | 0.41 | 0.19 | 0.39 |
| (1,9184) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 7 | 0.41 | 0.17 | 0.45 |
| (1,9184) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 7 | 0.41 | 0.17 | 0.45 |
| (1,6368) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 7 | 0.4 | 0.12 | 0.38 |
| (1,6368) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 7 | 0.4 | 0.12 | 0.38 |
| (1,6368) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 7 | 0.4 | 0.12 | 0.38 |
| (1,6805) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 7 | 0.4 | 0.11 | 0.42 |
| (1,6338) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 7 | 0.38 | 0.28 | 0.27 |
| (1,6338) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 7 | 0.38 | 0.28 | 0.27 |
| (1,2543) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 7 | 0.36 | 0.15 | 0.32 |
| (1,6658) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 7 | 0.36 | 0.15 | 0.32 |
| (1,472) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 7 | 0.34 | 0.1 | 0.35 |
| (1,472) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 7 | 0.34 | 0.1 | 0.35 |
| (1,472) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 7 | 0.34 | 0.1 | 0.35 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 7 | 0.31 | 0.09 | 0.29 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 7 | 0.31 | 0.09 | 0.29 |
| (1,8868) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 7 | 0.3 | 0.16 | 0.29 |
| (1,8868) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 7 | 0.3 | 0.16 | 0.29 |
| (1,5486) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 7 | 0.3 | 0.16 | 0.2 |
| (1,6408) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 7 | 0.29 | 0.17 | 0.23 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 7 | 0.29 | 0.05 | 0.31 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 7 | 0.29 | 0.05 | 0.31 |
| (1,1497) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 7 | 0.28 | 0.32 | 0.15 |
| (1,6000) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 7 | 0.28 | 0.32 | 0.15 |
| (1,5516) | 1:96:A:ILE:HA | 1:98:A:SER:H | 7 | 0.27 | 0.13 | 0.32 |
| (1,535) | 1:93:A:ILE:H | 1:94:A:GLN:H | 7 | 0.26 | 0.07 | 0.29 |
| (1,5442) | 1:93:A:ILE:H | 1:94:A:GLN:H | 7 | 0.26 | 0.07 | 0.29 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 7 | 0.24 | 0.08 | 0.21 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 7 | 0.24 | 0.08 | 0.21 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 7 | 0.23 | 0.08 | 0.21 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 7 | 0.23 | 0.08 | 0.21 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 7 | 0.23 | 0.06 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 7 | 0.23 | 0.06 | 0.2 |
| (1,775) | 1:100:A:GLU:H | 1:101:A:GLU:H | 7 | 0.2 | 0.13 | 0.15 |
| (1,5595) | 1:100:A:GLU:H | 1:101:A:GLU:H | 7 | 0.2 | 0.13 | 0.15 |
| (1,6736) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 7 | 0.2 | 0.05 | 0.17 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 7 | 0.17 | 0.07 | 0.14 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 7 | 0.17 | 0.07 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 7 | 0.14 | 0.01 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 7 | 0.14 | 0.01 | 0.14 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 7 | 0.13 | 0.02 | 0.12 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 7 | 0.13 | 0.02 | 0.12 |
| (1,25) | 1:53:A:ALA:H | 1:53:A:ALA:HA | 7 | 0.12 | 0.01 | 0.11 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 6 | 4.59 | 1.93 | 4.72 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 6 | 4.59 | 1.93 | 4.72 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 6 | 4.59 | 1.93 | 4.72 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 6 | 4.59 | 1.93 | 4.72 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 6 | 4.59 | 1.93 | 4.72 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 6 | 4.59 | 1.93 | 4.72 |
| (1,7275) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 6 | 2.04 | 0.88 | 1.9 |
| (3,206) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 6 | 1.93 | 1.47 | 1.63 |
| (3,64) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 6 | 1.89 | 0.83 | 2.42 |
| (1,7735) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 6 | 1.68 | 0.34 | 1.8 |
| (1,7735) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 6 | 1.68 | 0.34 | 1.8 |
| (1,7277) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 6 | 1.65 | 0.74 | 1.54 |
| (3,783) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 6 | 1.62 | 1.13 | 1.18 |
| (3,783) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 6 | 1.62 | 1.13 | 1.18 |
| (1,7522) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 6 | 1.26 | 0.93 | 0.93 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 6 | 1.26 | 0.72 | 1.33 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 6 | 1.26 | 0.72 | 1.33 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 6 | 1.23 | 0.5 | 1.18 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 6 | 1.23 | 0.5 | 1.18 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 6 | 1.23 | 0.5 | 1.18 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 6 | 1.23 | 0.5 | 1.18 |
| (1,90) | 1:57:A:CYS:H | 1:57:A:CYS:HB3 | 6 | 1.13 | 0.35 | 1.27 |
| (3,235) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 6 | 1.11 | 0.46 | 1.18 |
| (1,3191) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 6 | 1.06 | 0.04 | 1.07 |
| (1,5963) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 6 | 1.03 | 0.35 | 1.03 |
| (1,9026) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 6 | 1.02 | 0.46 | 0.96 |
| (1,9026) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 6 | 1.02 | 0.46 | 0.96 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 6 | 0.98 | 0.45 | 1.01 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 6 | 0.98 | 0.45 | 1.01 |
| (1,7330) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 6 | 0.98 | 0.23 | 0.9 |
| (1,8225) | 1:108:A:SER:HA | 1:120:A:GLY:H | 6 | 0.96 | 0.43 | 0.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 6 | 0.95 | 0.63 | 0.62 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 6 | 0.95 | 0.63 | 0.62 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 6 | 0.95 | 0.63 | 0.62 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 6 | 0.95 | 0.63 | 0.62 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 6 | 0.95 | 0.63 | 0.62 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 6 | 0.95 | 0.63 | 0.62 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 6 | 0.94 | 0.43 | 0.88 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 6 | 0.94 | 0.43 | 0.88 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 6 | 0.94 | 0.43 | 0.88 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 6 | 0.94 | 0.43 | 0.88 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 6 | 0.94 | 0.43 | 0.88 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 6 | 0.94 | 0.43 | 0.88 |
| (1,5949) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 6 | 0.92 | 0.35 | 1.11 |
| (1,4850) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 6 | 0.85 | 0.49 | 0.8 |
| (1,4850) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 6 | 0.85 | 0.49 | 0.8 |
| (1,4850) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 6 | 0.85 | 0.49 | 0.8 |
| (3,630) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 6 | 0.83 | 0.47 | 0.91 |
| (1,8829) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 6 | 0.83 | 0.86 | 0.34 |
| (1,8829) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 6 | 0.83 | 0.86 | 0.34 |
| (1,7900) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 6 | 0.81 | 0.21 | 0.8 |
| (1,7900) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 6 | 0.81 | 0.21 | 0.8 |
| (3,221) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 6 | 0.78 | 0.52 | 0.72 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 6 | 0.77 | 0.48 | 0.67 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 6 | 0.77 | 0.48 | 0.67 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 6 | 0.77 | 0.48 | 0.67 |
| (1,6588) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 6 | 0.76 | 0.17 | 0.82 |
| (1,7573) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 6 | 0.73 | 0.26 | 0.81 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 6 | 0.73 | 0.52 | 0.5 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 6 | 0.73 | 0.52 | 0.5 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 6 | 0.73 | 0.52 | 0.5 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 6 | 0.72 | 0.29 | 0.78 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 6 | 0.72 | 0.29 | 0.78 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 6 | 0.72 | 0.29 | 0.78 |
| (1,2815) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 6 | 0.71 | 0.03 | 0.72 |
| (1,5217) | 1:83:A:GLU:H | 1:86:A:LEU:H | 6 | 0.71 | 0.22 | 0.67 |
| (1,6831) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 6 | 0.71 | 0.03 | 0.72 |
| (1,6340) | 1:154:A:SER:H | 1:155:A:GLY:H | 6 | 0.68 | 0.38 | 0.49 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 6 | 0.67 | 0.33 | 0.6 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 6 | 0.67 | 0.33 | 0.6 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 6 | 0.67 | 0.33 | 0.6 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 6 | 0.67 | 0.33 | 0.6 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 6 | 0.67 | 0.33 | 0.6 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 6 | 0.67 | 0.33 | 0.6 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 6 | 0.67 | 0.33 | 0.6 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 6 | 0.67 | 0.33 | 0.6 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 6 | 0.67 | 0.33 | 0.6 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 6 | 0.64 | 0.43 | 0.55 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 6 | 0.64 | 0.43 | 0.55 |
| (1,8443) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 6 | 0.64 | 0.09 | 0.67 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 6 | 0.64 | 0.37 | 0.55 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 6 | 0.64 | 0.37 | 0.55 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 6 | 0.64 | 0.37 | 0.55 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 6 | 0.64 | 0.37 | 0.55 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 6 | 0.58 | 0.25 | 0.59 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 6 | 0.58 | 0.25 | 0.59 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 6 | 0.58 | 0.25 | 0.59 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 6 | 0.58 | 0.25 | 0.59 |
| (1,7273) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 6 | 0.58 | 0.47 | 0.4 |
| (1,3001) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 6 | 0.57 | 0.16 | 0.68 |
| (1,6580) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 6 | 0.54 | 0.34 | 0.48 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 6 | 0.54 | 0.18 | 0.52 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 6 | 0.54 | 0.18 | 0.52 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 6 | 0.54 | 0.18 | 0.52 |
| (1,2655) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 6 | 0.53 | 0.46 | 0.3 |
| (1,6724) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 6 | 0.53 | 0.46 | 0.3 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 6 | 0.52 | 0.48 | 0.36 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 6 | 0.52 | 0.48 | 0.36 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 6 | 0.52 | 0.48 | 0.36 |
| (1,7055) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 6 | 0.51 | 0.27 | 0.44 |
| (1,5669) | 1:105:A:SER:HA | 1:108:A:SER:H | 6 | 0.5 | 0.41 | 0.31 |
| (1,5006) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 6 | 0.5 | 0.03 | 0.5 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 6 | 0.5 | 0.33 | 0.43 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 6 | 0.5 | 0.33 | 0.43 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 6 | 0.5 | 0.33 | 0.43 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 6 | 0.5 | 0.33 | 0.43 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 6 | 0.5 | 0.33 | 0.43 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 6 | 0.5 | 0.33 | 0.43 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 6 | 0.5 | 0.33 | 0.43 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 6 | 0.5 | 0.33 | 0.43 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 6 | 0.5 | 0.33 | 0.43 |
| (1,5908) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 6 | 0.48 | 0.47 | 0.24 |
| (1,5908) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 6 | 0.48 | 0.47 | 0.24 |
| (1,8753) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 6 | 0.48 | 0.47 | 0.24 |
| (1,8753) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 6 | 0.48 | 0.47 | 0.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 6 | 0.47 | 0.24 | 0.53 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 6 | 0.47 | 0.24 | 0.53 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 6 | 0.47 | 0.24 | 0.53 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 6 | 0.47 | 0.24 | 0.53 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 6 | 0.47 | 0.24 | 0.53 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 6 | 0.47 | 0.24 | 0.53 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 6 | 0.47 | 0.24 | 0.53 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 6 | 0.47 | 0.24 | 0.53 |
| (1,5850) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 6 | 0.47 | 0.26 | 0.48 |
| (3,801) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 6 | 0.46 | 0.24 | 0.4 |
| (3,801) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 6 | 0.46 | 0.24 | 0.4 |
| (1,7863) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 6 | 0.44 | 0.22 | 0.38 |
| (1,7863) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 6 | 0.44 | 0.22 | 0.38 |
| (1,7863) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 6 | 0.44 | 0.22 | 0.38 |
| (3,303) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 6 | 0.44 | 0.15 | 0.5 |
| (3,303) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 6 | 0.44 | 0.15 | 0.5 |
| (3,303) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 6 | 0.44 | 0.15 | 0.5 |
| (1,246) | 1:75:A:GLN:HA | 1:75:A:GLN:HB3 | 6 | 0.44 | 0.12 | 0.49 |
| (1,8371) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 6 | 0.41 | 0.22 | 0.34 |
| (1,7549) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 6 | 0.4 | 0.16 | 0.4 |
| (1,7694) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 6 | 0.37 | 0.12 | 0.38 |
| (1,7694) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 6 | 0.37 | 0.12 | 0.38 |
| (1,8922) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 6 | 0.36 | 0.14 | 0.38 |
| (1,8922) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 6 | 0.36 | 0.14 | 0.38 |
| (1,5979) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 6 | 0.36 | 0.13 | 0.38 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 6 | 0.35 | 0.22 | 0.3 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 6 | 0.35 | 0.22 | 0.3 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 6 | 0.35 | 0.22 | 0.3 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 6 | 0.35 | 0.22 | 0.3 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 6 | 0.35 | 0.22 | 0.3 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 6 | 0.35 | 0.22 | 0.3 |
| (1,6935) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 6 | 0.35 | 0.15 | 0.3 |
| (1,4996) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 6 | 0.31 | 0.08 | 0.34 |
| (1,5176) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 6 | 0.31 | 0.13 | 0.36 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 6 | 0.31 | 0.13 | 0.4 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 6 | 0.31 | 0.13 | 0.4 |
| (1,5535) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 6 | 0.3 | 0.16 | 0.27 |
| (1,5535) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 6 | 0.3 | 0.16 | 0.27 |
| (1,5535) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 6 | 0.3 | 0.16 | 0.27 |
| (1,4680) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 6 | 0.3 | 0.05 | 0.28 |
| (1,4680) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 6 | 0.3 | 0.05 | 0.28 |
| (1,7073) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 6 | 0.29 | 0.06 | 0.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,7073) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 6 | 0.29 | 0.06 | 0.3 |
| (1,7337) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 6 | 0.25 | 0.09 | 0.22 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 6 | 0.24 | 0.08 | 0.19 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 6 | 0.24 | 0.08 | 0.19 |
| (1,8612) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 6 | 0.24 | 0.04 | 0.24 |
| (1,8612) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 6 | 0.24 | 0.04 | 0.24 |
| (1,5165) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 6 | 0.21 | 0.06 | 0.24 |
| (1,1821) | 1:144:A:GLY:H | 1:145:A:GLU:H | 6 | 0.2 | 0.04 | 0.19 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 6 | 0.2 | 0.04 | 0.2 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 6 | 0.2 | 0.04 | 0.2 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 6 | 0.2 | 0.04 | 0.2 |
| (1,6202) | 1:144:A:GLY:H | 1:145:A:GLU:H | 6 | 0.2 | 0.04 | 0.19 |
| (1,9111) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 6 | 0.2 | 0.06 | 0.21 |
| (1,9111) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 6 | 0.2 | 0.06 | 0.21 |
| (1,1525) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 6 | 0.2 | 0.05 | 0.2 |
| (1,1525) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 6 | 0.2 | 0.05 | 0.2 |
| (1,1639) | 1:136:A:ASP:H | 1:137:A:ALA:H | 6 | 0.17 | 0.05 | 0.16 |
| (1,6073) | 1:136:A:ASP:H | 1:137:A:ALA:H | 6 | 0.17 | 0.05 | 0.16 |
| (1,3011) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 6 | 0.17 | 0.04 | 0.19 |
| (1,3275) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 6 | 0.16 | 0.03 | 0.16 |
| (1,1411) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 6 | 0.13 | 0.03 | 0.12 |
| (1,6584) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 5 | 1.82 | 1.3 | 1.82 |
| (1,4827) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 5 | 1.56 | 0.76 | 1.63 |
| (1,4827) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 5 | 1.56 | 0.76 | 1.63 |
| (1,4827) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 5 | 1.56 | 0.76 | 1.63 |
| (1,6841) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 5 | 1.48 | 0.96 | 1.0 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 5 | 1.36 | 0.63 | 1.27 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 5 | 1.36 | 0.63 | 1.27 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 5 | 1.36 | 0.63 | 1.27 |
| (1,4769) | 1:58:A:SER:H | 1:160:A:LEU:H | 5 | 1.22 | 0.63 | 1.57 |
| (3,258) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 5 | 1.21 | 0.52 | 1.27 |
| (3,258) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 5 | 1.21 | 0.52 | 1.27 |
| (3,642) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 5 | 1.21 | 0.16 | 1.18 |
| (3,210) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 5 | 1.2 | 0.54 | 1.36 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 5 | 1.18 | 0.38 | 1.06 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 5 | 1.18 | 0.38 | 1.06 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 5 | 1.18 | 0.38 | 1.06 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 5 | 1.18 | 0.38 | 1.06 |
| (3,851) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 5 | 1.1 | 0.67 | 0.76 |
| (3,851) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 5 | 1.1 | 0.67 | 0.76 |
| (1,6532) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 5 | 1.09 | 0.59 | 1.37 |
| (1,6532) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 5 | 1.09 | 0.59 | 1.37 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6532) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 5 | 1.09 | 0.59 | 1.37 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 5 | 1.09 | 0.78 | 0.58 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 5 | 1.09 | 0.78 | 0.58 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 5 | 1.03 | 0.5 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 5 | 1.03 | 0.5 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 5 | 1.03 | 0.5 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 5 | 1.03 | 0.5 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 5 | 1.03 | 0.5 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 5 | 1.03 | 0.5 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 5 | 1.03 | 0.5 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 5 | 1.03 | 0.5 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 5 | 1.03 | 0.5 | 0.95 |
| (1,5062) | 1:78:A:ILE:HA | 1:79:A:THR:H | 5 | 1.02 | 0.03 | 1.01 |
| (3,979) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 5 | 0.99 | 0.25 | 1.06 |
| (3,979) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 5 | 0.99 | 0.25 | 1.06 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 5 | 0.96 | 0.45 | 1.05 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 5 | 0.96 | 0.45 | 1.05 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 5 | 0.96 | 0.45 | 1.05 |
| (1,5125) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 5 | 0.89 | 0.22 | 0.86 |
| (1,5125) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 5 | 0.89 | 0.22 | 0.86 |
| (1,5125) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 5 | 0.89 | 0.22 | 0.86 |
| (1,2499) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 5 | 0.87 | 0.45 | 1.09 |
| (1,6634) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 5 | 0.87 | 0.45 | 1.09 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 5 | 0.86 | 0.77 | 0.46 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 5 | 0.86 | 0.77 | 0.46 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 5 | 0.86 | 0.77 | 0.46 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 5 | 0.84 | 0.68 | 0.44 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 5 | 0.84 | 0.68 | 0.44 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 5 | 0.84 | 0.68 | 0.44 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 5 | 0.84 | 0.68 | 0.44 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 5 | 0.84 | 0.68 | 0.44 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 5 | 0.84 | 0.68 | 0.44 |
| (3,852) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 5 | 0.8 | 0.75 | 0.52 |
| (3,852) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 5 | 0.8 | 0.75 | 0.52 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 5 | 0.79 | 0.36 | 0.97 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 5 | 0.79 | 0.36 | 0.97 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 5 | 0.78 | 0.31 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 5 | 0.78 | 0.31 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 5 | 0.78 | 0.31 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 5 | 0.78 | 0.31 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 5 | 0.78 | 0.31 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 5 | 0.78 | 0.31 | 0.76 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 5 | 0.78 | 0.31 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 5 | 0.78 | 0.31 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 5 | 0.78 | 0.31 | 0.76 |
| (3,773) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 5 | 0.78 | 0.29 | 0.97 |
| (3,773) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 5 | 0.78 | 0.29 | 0.97 |
| (1,7642) | 1:28:A:ILE:H | 1:31:A:ALA:H | 5 | 0.77 | 0.45 | 1.1 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 5 | 0.75 | 0.4 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 5 | 0.75 | 0.4 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 5 | 0.75 | 0.4 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 5 | 0.75 | 0.4 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 5 | 0.75 | 0.4 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 5 | 0.75 | 0.4 | 0.52 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 5 | 0.74 | 0.7 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 5 | 0.74 | 0.7 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 5 | 0.74 | 0.7 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 5 | 0.74 | 0.7 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 5 | 0.74 | 0.7 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 5 | 0.74 | 0.7 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 5 | 0.74 | 0.7 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 5 | 0.74 | 0.7 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 5 | 0.74 | 0.7 | 0.27 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 5 | 0.74 | 0.54 | 0.43 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 5 | 0.74 | 0.54 | 0.43 |
| (3,941) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 5 | 0.74 | 0.43 | 0.65 |
| (3,941) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 5 | 0.74 | 0.43 | 0.65 |
| (1,304) | 1:80:A:ARG:HA | 1:81:A:THR:H | 5 | 0.74 | 0.15 | 0.76 |
| (1,5107) | 1:80:A:ARG:HA | 1:81:A:THR:H | 5 | 0.74 | 0.15 | 0.76 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 5 | 0.72 | 0.4 | 0.91 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 5 | 0.72 | 0.4 | 0.91 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 5 | 0.72 | 0.4 | 0.91 |
| (3,855) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 5 | 0.72 | 0.28 | 0.54 |
| (3,855) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 5 | 0.72 | 0.28 | 0.54 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 5 | 0.69 | 0.32 | 0.65 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 5 | 0.69 | 0.32 | 0.65 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 5 | 0.69 | 0.32 | 0.65 |
| (1,6451) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 5 | 0.69 | 0.25 | 0.7 |
| (1,6451) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 5 | 0.69 | 0.25 | 0.7 |
| (1,6451) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 5 | 0.69 | 0.25 | 0.7 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 5 | 0.68 | 0.49 | 0.49 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 5 | 0.68 | 0.49 | 0.49 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 5 | 0.68 | 0.49 | 0.49 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 5 | 0.66 | 0.39 | 0.6 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 5 | 0.66 | 0.39 | 0.6 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 5 | 0.66 | 0.39 | 0.6 |
| (1,4975) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 5 | 0.63 | 0.5 | 0.45 |
| (1,8261) | 1:119:A:ARG:H | 1:121:A:ASP:H | 5 | 0.62 | 0.37 | 0.73 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 5 | 0.62 | 0.37 | 0.76 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 5 | 0.62 | 0.37 | 0.76 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 5 | 0.62 | 0.37 | 0.76 |
| (1,2285) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 5 | 0.61 | 0.24 | 0.73 |
| (1,6488) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 5 | 0.61 | 0.24 | 0.73 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 5 | 0.6 | 0.31 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 5 | 0.6 | 0.31 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 5 | 0.6 | 0.31 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 5 | 0.6 | 0.31 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 5 | 0.6 | 0.31 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 5 | 0.6 | 0.31 | 0.51 |
| (1,1523) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 5 | 0.6 | 0.38 | 0.55 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 5 | 0.58 | 0.28 | 0.67 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 5 | 0.58 | 0.28 | 0.67 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 5 | 0.58 | 0.28 | 0.67 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 5 | 0.58 | 0.28 | 0.67 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 5 | 0.58 | 0.28 | 0.67 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 5 | 0.58 | 0.28 | 0.67 |
| (1,5623) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 5 | 0.57 | 0.8 | 0.18 |
| (1,5940) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 5 | 0.56 | 0.02 | 0.56 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 5 | 0.56 | 0.14 | 0.55 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 5 | 0.56 | 0.14 | 0.55 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 5 | 0.56 | 0.14 | 0.55 |
| (1,7471) | 1:12:A:GLU:H | 1:27:A:HIS:H | 5 | 0.55 | 0.3 | 0.56 |
| (3,484) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 5 | 0.55 | 0.13 | 0.54 |
| (1,6957) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 5 | 0.55 | 0.18 | 0.54 |
| (1,6135) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 5 | 0.52 | 0.34 | 0.43 |
| (1,6135) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 5 | 0.52 | 0.34 | 0.43 |
| (1,6135) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 5 | 0.52 | 0.34 | 0.43 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 5 | 0.51 | 0.26 | 0.34 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 5 | 0.51 | 0.26 | 0.34 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 5 | 0.51 | 0.26 | 0.34 |
| (3,335) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 5 | 0.51 | 0.2 | 0.49 |
| (3,335) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 5 | 0.51 | 0.2 | 0.49 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 5 | 0.49 | 0.21 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 5 | 0.49 | 0.21 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 5 | 0.49 | 0.21 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 5 | 0.49 | 0.21 | 0.51 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 5 | 0.49 | 0.21 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 5 | 0.49 | 0.21 | 0.51 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 5 | 0.49 | 0.08 | 0.5 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 5 | 0.49 | 0.08 | 0.5 |
| (1,6897) | 1:29:A:THR:H | 1:31:A:ALA:H | 5 | 0.49 | 0.32 | 0.31 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 5 | 0.48 | 0.07 | 0.45 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 5 | 0.48 | 0.07 | 0.45 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 5 | 0.48 | 0.07 | 0.45 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 5 | 0.48 | 0.26 | 0.45 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 5 | 0.48 | 0.26 | 0.45 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 5 | 0.48 | 0.26 | 0.45 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 5 | 0.48 | 0.26 | 0.45 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 5 | 0.47 | 0.24 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 5 | 0.47 | 0.24 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 5 | 0.47 | 0.24 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 5 | 0.47 | 0.24 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 5 | 0.47 | 0.24 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 5 | 0.47 | 0.24 | 0.39 |
| (3,261) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 5 | 0.47 | 0.2 | 0.58 |
| (1,5390) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 5 | 0.47 | 0.44 | 0.36 |
| (1,5390) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 5 | 0.47 | 0.44 | 0.36 |
| (1,5390) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 5 | 0.47 | 0.44 | 0.36 |
| (1,7284) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 5 | 0.47 | 0.23 | 0.44 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 5 | 0.46 | 0.32 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 5 | 0.46 | 0.32 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 5 | 0.46 | 0.32 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 5 | 0.46 | 0.32 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 5 | 0.46 | 0.32 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 5 | 0.46 | 0.32 | 0.3 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 5 | 0.45 | 0.27 | 0.39 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 5 | 0.45 | 0.27 | 0.39 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 5 | 0.45 | 0.27 | 0.39 |
| (1,6879) | 1:28:A:ILE:HB | 1:29:A:THR:H | 5 | 0.44 | 0.5 | 0.24 |
| (1,5724) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 5 | 0.43 | 0.41 | 0.28 |
| (1,5724) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 5 | 0.43 | 0.41 | 0.28 |
| (1,5724) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 5 | 0.43 | 0.41 | 0.28 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 5 | 0.43 | 0.26 | 0.32 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 5 | 0.43 | 0.26 | 0.32 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 5 | 0.43 | 0.26 | 0.32 |
| (1,6726) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 5 | 0.43 | 0.15 | 0.45 |
| (1,903) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 5 | 0.42 | 0.26 | 0.63 |
| (1,4933) | 1:65:A:SER:HA | 1:67:A:SER:H | 5 | 0.42 | 0.09 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 5 | 0.4 | 0.21 | 0.34 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 5 | 0.4 | 0.21 | 0.34 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 5 | 0.4 | 0.21 | 0.34 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 5 | 0.4 | 0.21 | 0.5 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 5 | 0.4 | 0.21 | 0.5 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 5 | 0.4 | 0.21 | 0.5 |
| (1,5347) | 1:87:A:GLU:H | 1:89:A:ILE:H | 5 | 0.4 | 0.18 | 0.44 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 5 | 0.39 | 0.16 | 0.47 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 5 | 0.39 | 0.16 | 0.47 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 5 | 0.39 | 0.16 | 0.47 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 5 | 0.39 | 0.23 | 0.24 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 5 | 0.39 | 0.23 | 0.24 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 5 | 0.39 | 0.23 | 0.24 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 5 | 0.39 | 0.23 | 0.24 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 5 | 0.38 | 0.26 | 0.26 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 5 | 0.38 | 0.26 | 0.26 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 5 | 0.38 | 0.24 | 0.4 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 5 | 0.38 | 0.24 | 0.4 |
| (1,7705) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 5 | 0.37 | 0.14 | 0.44 |
| (1,7705) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 5 | 0.37 | 0.14 | 0.44 |
| (1,8425) | 1:143:A:THR:H | 1:145:A:GLU:H | 5 | 0.34 | 0.17 | 0.27 |
| (1,9505) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 5 | 0.34 | 0.09 | 0.32 |
| (1,9505) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 5 | 0.34 | 0.09 | 0.32 |
| (1,7302) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 5 | 0.31 | 0.08 | 0.29 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 5 | 0.29 | 0.11 | 0.25 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 5 | 0.29 | 0.11 | 0.25 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 5 | 0.29 | 0.11 | 0.25 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 5 | 0.29 | 0.11 | 0.35 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 5 | 0.29 | 0.11 | 0.35 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 5 | 0.29 | 0.11 | 0.35 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 5 | 0.29 | 0.09 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 5 | 0.29 | 0.09 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 5 | 0.29 | 0.09 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 5 | 0.29 | 0.09 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 5 | 0.29 | 0.09 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 5 | 0.29 | 0.09 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 5 | 0.29 | 0.09 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 5 | 0.29 | 0.09 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 5 | 0.29 | 0.09 | 0.28 |
| (1,7332) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 5 | 0.27 | 0.13 | 0.26 |
| (1,6240) | 1:146:A:MET:HA | 1:161:A:ARG:H | 5 | 0.27 | 0.07 | 0.28 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 5 | 0.26 | 0.05 | 0.27 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 5 | 0.26 | 0.05 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 5 | 0.26 | 0.05 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 5 | 0.26 | 0.05 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 5 | 0.26 | 0.05 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 5 | 0.26 | 0.05 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 5 | 0.26 | 0.05 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 5 | 0.26 | 0.05 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 5 | 0.26 | 0.05 | 0.27 |
| (1,8681) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 5 | 0.26 | 0.02 | 0.26 |
| (1,8681) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 5 | 0.26 | 0.02 | 0.26 |
| (1,5295) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 5 | 0.25 | 0.09 | 0.21 |
| (1,1137) | 1:115:A:SER:H | 1:116:A:ALA:H | 5 | 0.25 | 0.21 | 0.13 |
| (1,4937) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 5 | 0.25 | 0.09 | 0.22 |
| (1,5785) | 1:115:A:SER:H | 1:116:A:ALA:H | 5 | 0.25 | 0.21 | 0.13 |
| (1,2339) | 1:6:A:LYS:H | 1:7:A:LEU:H | 5 | 0.24 | 0.07 | 0.24 |
| (1,3043) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 5 | 0.24 | 0.05 | 0.26 |
| (1,7000) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 5 | 0.24 | 0.05 | 0.26 |
| (1,1583) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 5 | 0.23 | 0.09 | 0.18 |
| (1,2401) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 5 | 0.21 | 0.05 | 0.23 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 5 | 0.2 | 0.09 | 0.16 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 5 | 0.2 | 0.09 | 0.16 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 5 | 0.2 | 0.09 | 0.16 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 5 | 0.2 | 0.09 | 0.16 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 5 | 0.19 | 0.05 | 0.22 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 5 | 0.19 | 0.05 | 0.22 |
| (1,2483) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 5 | 0.18 | 0.08 | 0.14 |
| (1,5961) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 5 | 0.18 | 0.04 | 0.2 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 5 | 0.17 | 0.04 | 0.19 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 5 | 0.17 | 0.04 | 0.19 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 5 | 0.17 | 0.04 | 0.19 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 5 | 0.17 | 0.04 | 0.19 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 5 | 0.17 | 0.02 | 0.17 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 5 | 0.17 | 0.02 | 0.17 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 5 | 0.17 | 0.02 | 0.17 |
| (3,254) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 5 | 0.17 | 0.05 | 0.16 |
| (3,254) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 5 | 0.17 | 0.05 | 0.16 |
| (3,254) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 5 | 0.17 | 0.05 | 0.16 |
| (1,1253) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 5 | 0.16 | 0.02 | 0.17 |
| (1,1253) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 5 | 0.16 | 0.02 | 0.17 |
| (1,3417) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 5 | 0.16 | 0.01 | 0.16 |
| (1,935) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 5 | 0.12 | 0.02 | 0.11 |
| (1,303) | 1:80:A:ARG:H | 1:80:A:ARG:HA | 5 | 0.12 | 0.02 | 0.11 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB2 | 5 | 0.11 | 0.01 | 0.11 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB3 | 5 | 0.11 | 0.01 | 0.11 |
| (1,6594) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 4 | 1.87 | 1.03 | 2.33 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 4 | 1.86 | 1.22 | 1.76 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 4 | 1.86 | 1.22 | 1.76 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 4 | 1.86 | 1.22 | 1.76 |
| (1,7883) | 1:65:A:SER:H | 1:81:A:THR:H | 4 | 1.55 | 1.04 | 1.58 |
| (1,6833) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 4 | 1.38 | 0.99 | 1.27 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 4 | 1.37 | 0.34 | 1.42 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 4 | 1.37 | 0.34 | 1.42 |
| (1,6969) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 4 | 1.23 | 0.11 | 1.19 |
| (1,5066) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 4 | 1.14 | 0.73 | 1.06 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 4 | 1.08 | 0.36 | 1.12 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 4 | 1.08 | 0.36 | 1.12 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 4 | 1.08 | 0.36 | 1.12 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 4 | 1.08 | 0.36 | 1.12 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 4 | 1.08 | 0.36 | 1.12 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 4 | 1.08 | 0.36 | 1.12 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 4 | 1.08 | 0.72 | 0.94 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 4 | 1.08 | 0.72 | 0.94 |
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 4 | 1.08 | 0.72 | 0.94 |
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 4 | 1.08 | 0.72 | 0.94 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 4 | 1.08 | 0.72 | 0.94 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 4 | 1.08 | 0.72 | 0.94 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 4 | 1.04 | 0.47 | 0.86 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 4 | 1.04 | 0.47 | 0.86 |
| (3,490) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 4 | 1.0 | 0.77 | 0.77 |
| (1,1539) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 4 | 1.0 | 0.53 | 1.18 |
| (1,5951) | 1:126:A:SER:H | 1:127:A:ARG:H | 4 | 0.97 | 0.05 | 0.98 |
| (3,18) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 4 | 0.96 | 0.44 | 0.9 |
| (1,5477) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 4 | 0.94 | 0.05 | 0.92 |
| (1,8215) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 4 | 0.94 | 0.55 | 0.9 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 4 | 0.88 | 0.2 | 0.9 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 4 | 0.88 | 0.2 | 0.9 |
| (3,648) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 4 | 0.85 | 0.51 | 0.64 |
| (3,648) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 4 | 0.85 | 0.51 | 0.64 |
| (1,7271) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 4 | 0.84 | 0.74 | 0.73 |
| (3,129) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 4 | 0.77 | 0.45 | 0.64 |
| (1,6436) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 4 | 0.77 | 0.09 | 0.8 |
| (1,6436) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 4 | 0.77 | 0.09 | 0.8 |
| (1,6436) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 4 | 0.77 | 0.09 | 0.8 |
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 4 | 0.77 | 0.41 | 0.82 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 4 | 0.77 | 0.41 | 0.82 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 4 | 0.77 | 0.41 | 0.82 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 4 | 0.77 | 0.41 | 0.82 |
| (3,179) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 4 | 0.76 | 0.36 | 0.6 |
| (1,6670) | 1:14:A:ARG:HA | 1:15:A:MET:H | 4 | 0.73 | 0.02 | 0.74 |
| (1,6116) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 4 | 0.72 | 0.53 | 0.49 |
| (1,6116) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 4 | 0.72 | 0.53 | 0.49 |
| (1,6116) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 4 | 0.72 | 0.53 | 0.49 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 4 | 0.72 | 0.41 | 0.68 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 4 | 0.72 | 0.41 | 0.68 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 4 | 0.72 | 0.41 | 0.68 |
| (1,8783) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 4 | 0.71 | 0.32 | 0.7 |
| (1,8783) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 4 | 0.71 | 0.32 | 0.7 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 4 | 0.66 | 0.32 | 0.82 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 4 | 0.66 | 0.32 | 0.82 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 4 | 0.64 | 0.02 | 0.64 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 4 | 0.64 | 0.02 | 0.64 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 4 | 0.64 | 0.02 | 0.64 |
| (1,8521) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 4 | 0.6 | 0.29 | 0.73 |
| (1,8521) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 4 | 0.6 | 0.29 | 0.73 |
| (3,701) | 1:142:A:ARG:H | 1:145:A:GLU:H | 4 | 0.6 | 0.27 | 0.65 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 4 | 0.59 | 0.35 | 0.61 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 4 | 0.59 | 0.35 | 0.61 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 4 | 0.59 | 0.35 | 0.61 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 4 | 0.59 | 0.35 | 0.61 |
| (1,5702) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 4 | 0.58 | 0.1 | 0.62 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 4 | 0.58 | 0.28 | 0.52 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 4 | 0.58 | 0.28 | 0.52 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 4 | 0.58 | 0.28 | 0.52 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 4 | 0.58 | 0.28 | 0.52 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 4 | 0.58 | 0.28 | 0.52 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 4 | 0.58 | 0.28 | 0.52 |
| (1,6927) | 1:26:A:ASN:H | 1:32:A:SER:HA | 4 | 0.57 | 0.36 | 0.52 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 4 | 0.57 | 0.29 | 0.62 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 4 | 0.57 | 0.29 | 0.62 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 4 | 0.57 | 0.29 | 0.62 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 4 | 0.57 | 0.29 | 0.62 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 4 | 0.57 | 0.29 | 0.62 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 4 | 0.57 | 0.29 | 0.62 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 4 | 0.57 | 0.29 | 0.62 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 4 | 0.57 | 0.29 | 0.62 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 4 | 0.57 | 0.29 | 0.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,102) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 4 | 0.56 | 0.29 | 0.56 |
| (3,102) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 4 | 0.56 | 0.29 | 0.56 |
| (3,106) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 4 | 0.56 | 0.34 | 0.48 |
| (3,106) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 4 | 0.56 | 0.34 | 0.48 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 4 | 0.56 | 0.28 | 0.5 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 4 | 0.56 | 0.28 | 0.5 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 4 | 0.56 | 0.28 | 0.5 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 4 | 0.55 | 0.13 | 0.57 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 4 | 0.55 | 0.13 | 0.57 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 4 | 0.55 | 0.13 | 0.57 |
| (1,2371) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 4 | 0.54 | 0.4 | 0.38 |
| (1,2899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 4 | 0.54 | 0.01 | 0.54 |
| (1,6899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 4 | 0.54 | 0.01 | 0.54 |
| (1,5273) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 4 | 0.52 | 0.46 | 0.31 |
| (1,5273) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 4 | 0.52 | 0.46 | 0.31 |
| (1,5273) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 4 | 0.52 | 0.46 | 0.31 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 4 | 0.51 | 0.14 | 0.48 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 4 | 0.51 | 0.14 | 0.48 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 4 | 0.51 | 0.14 | 0.48 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 4 | 0.5 | 0.12 | 0.56 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 4 | 0.5 | 0.12 | 0.56 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 4 | 0.5 | 0.12 | 0.56 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 4 | 0.5 | 0.12 | 0.56 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 4 | 0.5 | 0.12 | 0.56 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 4 | 0.5 | 0.12 | 0.56 |
| (1,7023) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 4 | 0.5 | 0.22 | 0.48 |
| (1,7023) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 4 | 0.5 | 0.22 | 0.48 |
| (1,7023) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 4 | 0.5 | 0.22 | 0.48 |
| (3,589) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 4 | 0.5 | 0.26 | 0.44 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 4 | 0.45 | 0.24 | 0.48 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 4 | 0.45 | 0.24 | 0.48 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 4 | 0.45 | 0.24 | 0.48 |
| (1,7008) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 4 | 0.41 | 0.15 | 0.44 |
| (1,334) | 1:82:A:LYS:H | 1:83:A:GLU:H | 4 | 0.41 | 0.25 | 0.42 |
| (1,5151) | 1:82:A:LYS:H | 1:83:A:GLU:H | 4 | 0.41 | 0.25 | 0.42 |
| (1,9336) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 4 | 0.4 | 0.11 | 0.4 |
| (1,9336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 4 | 0.4 | 0.11 | 0.4 |
| (1,8008) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 4 | 0.4 | 0.21 | 0.36 |
| (1,7916) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 4 | 0.38 | 0.25 | 0.39 |
| (1,7916) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 4 | 0.38 | 0.25 | 0.39 |
| (1,8699) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 4 | 0.38 | 0.06 | 0.38 |
| (1,8699) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 4 | 0.38 | 0.06 | 0.38 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5380) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 4 | 0.38 | 0.2 | 0.38 |
| (1,5380) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 4 | 0.38 | 0.2 | 0.38 |
| (1,5380) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 4 | 0.38 | 0.2 | 0.38 |
| (1,6692) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 4 | 0.38 | 0.2 | 0.4 |
| (1,657) | 1:96:A:ILE:H | 1:97:A:LYS:H | 4 | 0.35 | 0.2 | 0.26 |
| (1,5507) | 1:96:A:ILE:H | 1:97:A:LYS:H | 4 | 0.35 | 0.2 | 0.26 |
| (1,262) | 1:77:A:LYS:HA | 1:78:A:ILE:H | 4 | 0.34 | 0.02 | 0.34 |
| (1,8648) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 4 | 0.34 | 0.16 | 0.3 |
| (1,8648) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 4 | 0.34 | 0.16 | 0.3 |
| (1,895) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 4 | 0.34 | 0.02 | 0.34 |
| (1,5157) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 4 | 0.34 | 0.08 | 0.33 |
| (1,8040) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 4 | 0.34 | 0.18 | 0.28 |
| (1,6224) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 4 | 0.33 | 0.09 | 0.36 |
| (1,6224) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 4 | 0.33 | 0.09 | 0.36 |
| (1,254) | 1:76:A:GLU:HA | 1:77:A:LYS:H | 4 | 0.32 | 0.26 | 0.2 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 4 | 0.32 | 0.14 | 0.32 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 4 | 0.32 | 0.14 | 0.32 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 4 | 0.32 | 0.14 | 0.32 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 4 | 0.31 | 0.11 | 0.26 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 4 | 0.31 | 0.11 | 0.26 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 4 | 0.3 | 0.14 | 0.3 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 4 | 0.3 | 0.14 | 0.3 |
| (1,5033) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 4 | 0.29 | 0.16 | 0.21 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 4 | 0.28 | 0.18 | 0.24 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 4 | 0.28 | 0.18 | 0.24 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 4 | 0.27 | 0.16 | 0.18 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 4 | 0.27 | 0.16 | 0.18 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 4 | 0.27 | 0.14 | 0.24 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 4 | 0.27 | 0.14 | 0.24 |
| (3,449) | 1:71:A:SER:H | 1:78:A:ILE:H | 4 | 0.26 | 0.14 | 0.22 |
| (1,5293) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 4 | 0.24 | 0.03 | 0.24 |
| (1,5777) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 4 | 0.24 | 0.11 | 0.22 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 4 | 0.24 | 0.07 | 0.26 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 4 | 0.24 | 0.07 | 0.26 |
| (1,6077) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 4 | 0.22 | 0.06 | 0.23 |
| (1,6077) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 4 | 0.22 | 0.06 | 0.23 |
| (1,7288) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 4 | 0.22 | 0.1 | 0.2 |
| (3,90) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 4 | 0.21 | 0.04 | 0.22 |
| (3,90) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 4 | 0.21 | 0.04 | 0.22 |
| (3,90) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 4 | 0.21 | 0.04 | 0.22 |
| (1,6921) | 1:31:A:ALA:H | 1:32:A:SER:H | 4 | 0.2 | 0.03 | 0.2 |
| (1,9013) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 4 | 0.19 | 0.03 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,9013) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 4 | 0.19 | 0.03 | 0.2 |
| (3,329) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 4 | 0.18 | 0.04 | 0.17 |
| (3,329) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 4 | 0.18 | 0.04 | 0.17 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 4 | 0.18 | 0.03 | 0.18 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 4 | 0.18 | 0.03 | 0.18 |
| (1,5887) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 4 | 0.17 | 0.04 | 0.18 |
| (1,9419) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 4 | 0.17 | 0.0 | 0.17 |
| (1,9419) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 4 | 0.17 | 0.0 | 0.17 |
| (1,7059) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 4 | 0.16 | 0.07 | 0.14 |
| (1,1041) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 4 | 0.16 | 0.05 | 0.16 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 4 | 0.15 | 0.01 | 0.15 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 4 | 0.15 | 0.01 | 0.15 |
| (1,409) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HG | 4 | 0.15 | 0.04 | 0.13 |
| (1,409) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HG | 4 | 0.15 | 0.04 | 0.13 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 4 | 0.15 | 0.0 | 0.15 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 4 | 0.15 | 0.0 | 0.15 |
| (1,1035) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 4 | 0.14 | 0.04 | 0.14 |
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 4 | 0.14 | 0.02 | 0.13 |
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 4 | 0.14 | 0.02 | 0.13 |
| (1,2303) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 4 | 0.14 | 0.03 | 0.14 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 4 | 0.13 | 0.01 | 0.13 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 4 | 0.13 | 0.01 | 0.13 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 4 | 0.12 | 0.01 | 0.12 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 4 | 0.12 | 0.01 | 0.12 |
| (1,5415) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 4 | 0.12 | 0.02 | 0.11 |
| (1,432) | 1:88:A:LEU:H | 1:88:A:LEU:HA | 4 | 0.11 | 0.0 | 0.11 |
| (1,7619) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 3 | 2.4 | 0.61 | 2.34 |
| (1,6867) | 1:28:A:ILE:H | 1:30:A:ASN:H | 3 | 2.16 | 1.15 | 1.89 |
| (1,7663) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 3 | 2.05 | 1.14 | 2.24 |
| (1,7609) | 1:26:A:ASN:H | 1:30:A:ASN:H | 3 | 2.04 | 1.69 | 1.11 |
| (1,7639) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 3 | 1.69 | 0.44 | 1.99 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 3 | 1.66 | 0.25 | 1.78 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 3 | 1.66 | 0.25 | 1.78 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 3 | 1.66 | 0.25 | 1.78 |
| (1,7877) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 3 | 1.59 | 0.65 | 1.85 |
| (3,307) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 3 | 1.54 | 0.26 | 1.58 |
| (1,6895) | 1:29:A:THR:H | 1:30:A:ASN:H | 3 | 1.37 | 0.58 | 1.66 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 3 | 1.34 | 0.43 | 1.04 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 3 | 1.34 | 0.43 | 1.04 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 3 | 1.34 | 0.43 | 1.04 |
| (1,9580) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 3 | 1.26 | 0.81 | 1.42 |
| (1,9580) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 3 | 1.26 | 0.81 | 1.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 3 | 1.15 | 0.55 | 1.44 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 3 | 1.15 | 0.55 | 1.44 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 3 | 1.15 | 0.55 | 1.44 |
| (1,6566) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 3 | 1.11 | 0.0 | 1.11 |
| (1,9033) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 3 | 1.06 | 0.54 | 1.31 |
| (1,9033) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 3 | 1.06 | 0.54 | 1.31 |
| (3,644) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 3 | 1.04 | 0.98 | 0.39 |
| (1,8711) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 3 | 1.02 | 0.4 | 1.28 |
| (1,8711) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 3 | 1.02 | 0.4 | 1.28 |
| (3,96) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 3 | 1.02 | 0.28 | 1.2 |
| (3,96) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 3 | 1.02 | 0.28 | 1.2 |
| (3,96) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 3 | 1.02 | 0.28 | 1.2 |
| (1,5149) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 3 | 1.0 | 0.11 | 0.93 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 3 | 0.91 | 0.69 | 0.63 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 3 | 0.91 | 0.69 | 0.63 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 3 | 0.91 | 0.69 | 0.63 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 3 | 0.91 | 0.69 | 0.63 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 3 | 0.91 | 0.69 | 0.63 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 3 | 0.91 | 0.69 | 0.63 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 3 | 0.91 | 0.69 | 0.63 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 3 | 0.91 | 0.69 | 0.63 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 3 | 0.91 | 0.69 | 0.63 |
| (1,7241) | 1:28:A:ILE:H | 1:29:A:THR:HA | 3 | 0.86 | 0.52 | 0.77 |
| (1,9586) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 3 | 0.86 | 0.13 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 3 | 0.86 | 0.13 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 3 | 0.86 | 0.13 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 3 | 0.86 | 0.13 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 3 | 0.86 | 0.13 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 3 | 0.86 | 0.13 | 0.79 |
| (3,747) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 3 | 0.85 | 0.23 | 0.73 |
| (3,747) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 3 | 0.85 | 0.23 | 0.73 |
| (3,747) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 3 | 0.85 | 0.23 | 0.73 |
| (1,8810) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 3 | 0.82 | 0.12 | 0.89 |
| (1,8810) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 3 | 0.82 | 0.12 | 0.89 |
| (1,7384) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 3 | 0.8 | 0.15 | 0.71 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 3 | 0.79 | 0.31 | 0.79 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 3 | 0.79 | 0.31 | 0.79 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 3 | 0.79 | 0.31 | 0.79 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 3 | 0.79 | 0.31 | 0.79 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 3 | 0.79 | 0.31 | 0.79 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 3 | 0.79 | 0.31 | 0.79 |
| (3,400) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 3 | 0.74 | 0.39 | 0.61 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,400) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 3 | 0.74 | 0.39 | 0.61 |
| (3,400) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 3 | 0.74 | 0.39 | 0.61 |
| (1,5830) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 3 | 0.69 | 0.67 | 0.25 |
| (1,5830) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 3 | 0.69 | 0.67 | 0.25 |
| (1,5830) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 3 | 0.69 | 0.67 | 0.25 |
| (1,6955) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 3 | 0.68 | 0.28 | 0.53 |
| (1,9180) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 3 | 0.67 | 0.26 | 0.73 |
| (1,9180) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 3 | 0.67 | 0.26 | 0.73 |
| (3,143) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 3 | 0.67 | 0.62 | 0.35 |
| (1,7465) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 3 | 0.65 | 0.26 | 0.47 |
| (1,9417) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 3 | 0.65 | 0.15 | 0.73 |
| (1,9417) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 3 | 0.65 | 0.15 | 0.73 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 3 | 0.63 | 0.07 | 0.68 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 3 | 0.63 | 0.07 | 0.68 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 3 | 0.63 | 0.07 | 0.68 |
| (1,9593) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 3 | 0.63 | 0.11 | 0.62 |
| (1,9593) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 3 | 0.63 | 0.11 | 0.62 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 3 | 0.62 | 0.47 | 0.5 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 3 | 0.62 | 0.47 | 0.5 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 3 | 0.62 | 0.47 | 0.5 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 3 | 0.62 | 0.47 | 0.5 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 3 | 0.62 | 0.47 | 0.5 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 3 | 0.62 | 0.47 | 0.5 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 3 | 0.61 | 0.14 | 0.7 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 3 | 0.61 | 0.14 | 0.7 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 3 | 0.61 | 0.14 | 0.7 |
| (1,4721) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 3 | 0.55 | 0.36 | 0.41 |
| (1,4721) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 3 | 0.55 | 0.36 | 0.41 |
| (1,4721) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 3 | 0.55 | 0.36 | 0.41 |
| (1,333) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 3 | 0.54 | 0.13 | 0.63 |
| (1,333) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 3 | 0.54 | 0.13 | 0.63 |
| (3,819) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 3 | 0.54 | 0.42 | 0.31 |
| (3,819) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 3 | 0.54 | 0.42 | 0.31 |
| (3,388) | 1:60:A:LEU:HG | 1:111:A:SER:H | 3 | 0.53 | 0.2 | 0.41 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 3 | 0.53 | 0.23 | 0.69 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 3 | 0.53 | 0.23 | 0.69 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 3 | 0.53 | 0.23 | 0.69 |
| (3,995) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 3 | 0.51 | 0.13 | 0.43 |
| (3,995) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 3 | 0.51 | 0.13 | 0.43 |
| (3,387) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 3 | 0.5 | 0.11 | 0.48 |
| (1,7354) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 3 | 0.5 | 0.19 | 0.56 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 3 | 0.46 | 0.24 | 0.49 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 3 | 0.46 | 0.24 | 0.49 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 3 | 0.46 | 0.24 | 0.49 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 3 | 0.46 | 0.24 | 0.49 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 3 | 0.46 | 0.24 | 0.49 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 3 | 0.46 | 0.24 | 0.49 |
| (1,8973) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 3 | 0.45 | 0.28 | 0.46 |
| (1,8973) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 3 | 0.45 | 0.28 | 0.46 |
| (1,5783) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 3 | 0.45 | 0.22 | 0.59 |
| (1,5783) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 3 | 0.45 | 0.22 | 0.59 |
| (1,9353) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 3 | 0.45 | 0.15 | 0.49 |
| (1,9353) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 3 | 0.45 | 0.15 | 0.49 |
| (1,9178) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 3 | 0.44 | 0.09 | 0.45 |
| (1,9178) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 3 | 0.44 | 0.09 | 0.45 |
| (1,8628) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 3 | 0.44 | 0.25 | 0.46 |
| (1,8628) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 3 | 0.44 | 0.25 | 0.46 |
| (1,8628) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 3 | 0.44 | 0.25 | 0.46 |
| (1,8628) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 3 | 0.44 | 0.25 | 0.46 |
| (1,8628) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 3 | 0.44 | 0.25 | 0.46 |
| (1,8628) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 3 | 0.44 | 0.25 | 0.46 |
| (1,9195) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 3 | 0.44 | 0.13 | 0.5 |
| (1,9195) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 3 | 0.44 | 0.13 | 0.5 |
| (1,7932) | 1:71:A:SER:HA | 1:78:A:ILE:H | 3 | 0.43 | 0.24 | 0.53 |
| (3,813) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 3 | 0.43 | 0.31 | 0.26 |
| (3,813) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 3 | 0.43 | 0.31 | 0.26 |
| (3,813) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 3 | 0.43 | 0.31 | 0.26 |
| (3,813) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 3 | 0.43 | 0.31 | 0.26 |
| (1,6424) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 3 | 0.41 | 0.31 | 0.22 |
| (1,6424) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 3 | 0.41 | 0.31 | 0.22 |
| (1,6424) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 3 | 0.41 | 0.31 | 0.22 |
| (3,867) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 3 | 0.4 | 0.23 | 0.37 |
| (3,867) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 3 | 0.4 | 0.23 | 0.37 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 3 | 0.38 | 0.13 | 0.39 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 3 | 0.38 | 0.13 | 0.39 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 3 | 0.38 | 0.13 | 0.39 |
| (1,9242) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 3 | 0.38 | 0.24 | 0.31 |
| (1,9242) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 3 | 0.38 | 0.24 | 0.31 |
| (1,6283) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 3 | 0.38 | 0.18 | 0.46 |
| (3,911) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 3 | 0.37 | 0.05 | 0.4 |
| (3,911) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 3 | 0.37 | 0.05 | 0.4 |
| (1,7109) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 3 | 0.37 | 0.24 | 0.23 |
| (1,7109) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 3 | 0.37 | 0.24 | 0.23 |
| (3,892) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 3 | 0.36 | 0.24 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,892) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 3 | 0.36 | 0.24 | 0.22 |
| (3,892) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 3 | 0.36 | 0.24 | 0.22 |
| (3,892) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 3 | 0.36 | 0.24 | 0.22 |
| (3,892) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 3 | 0.36 | 0.24 | 0.22 |
| (3,892) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 3 | 0.36 | 0.24 | 0.22 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 3 | 0.34 | 0.18 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 3 | 0.34 | 0.18 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 3 | 0.34 | 0.18 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 3 | 0.34 | 0.18 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 3 | 0.34 | 0.18 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 3 | 0.34 | 0.18 | 0.23 |
| (1,4893) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 3 | 0.34 | 0.01 | 0.34 |
| (1,4893) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 3 | 0.34 | 0.01 | 0.34 |
| (1,6313) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 3 | 0.32 | 0.19 | 0.25 |
| (1,6313) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 3 | 0.32 | 0.19 | 0.25 |
| (1,5037) | 1:76:A:GLU:H | 1:77:A:LYS:H | 3 | 0.31 | 0.01 | 0.31 |
| (1,7861) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 3 | 0.3 | 0.23 | 0.17 |
| (1,7861) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 3 | 0.3 | 0.23 | 0.17 |
| (1,7861) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 3 | 0.3 | 0.23 | 0.17 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 3 | 0.29 | 0.17 | 0.23 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 3 | 0.29 | 0.17 | 0.23 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 3 | 0.29 | 0.17 | 0.23 |
| (1,8837) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 3 | 0.29 | 0.06 | 0.29 |
| (1,8837) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 3 | 0.29 | 0.06 | 0.29 |
| (1,9612) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 3 | 0.29 | 0.17 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 3 | 0.29 | 0.17 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 3 | 0.29 | 0.17 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 3 | 0.29 | 0.17 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 3 | 0.29 | 0.17 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 3 | 0.29 | 0.17 | 0.22 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 3 | 0.29 | 0.24 | 0.12 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 3 | 0.29 | 0.24 | 0.12 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 3 | 0.29 | 0.24 | 0.12 |
| (1,7139) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 3 | 0.29 | 0.04 | 0.26 |
| (1,7139) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 3 | 0.29 | 0.04 | 0.26 |
| (1,7139) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 3 | 0.29 | 0.04 | 0.26 |
| (3,416) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 3 | 0.29 | 0.1 | 0.27 |
| (3,416) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 3 | 0.29 | 0.1 | 0.27 |
| (3,416) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 3 | 0.29 | 0.1 | 0.27 |
| (1,7286) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 3 | 0.28 | 0.05 | 0.26 |
| (1,2065) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 3 | 0.27 | 0.22 | 0.12 |
| (1,7344) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 3 | 0.27 | 0.09 | 0.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,2267) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 3 | 0.27 | 0.01 | 0.26 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 3 | 0.26 | 0.07 | 0.3 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 3 | 0.26 | 0.07 | 0.3 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 3 | 0.26 | 0.07 | 0.3 |
| (1,5619) | 1:101:A:GLU:H | 1:102:A:ASP:H | 3 | 0.26 | 0.06 | 0.26 |
| (1,5564) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 3 | 0.25 | 0.07 | 0.29 |
| (1,9293) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 3 | 0.24 | 0.13 | 0.17 |
| (1,9293) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 3 | 0.24 | 0.13 | 0.17 |
| (1,7180) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 3 | 0.24 | 0.14 | 0.15 |
| (3,91) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 3 | 0.24 | 0.07 | 0.24 |
| (1,5631) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 3 | 0.23 | 0.03 | 0.25 |
| (1,5631) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 3 | 0.23 | 0.03 | 0.25 |
| (1,5631) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 3 | 0.23 | 0.03 | 0.25 |
| (1,5893) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 3 | 0.23 | 0.03 | 0.23 |
| (3,699) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 3 | 0.22 | 0.01 | 0.22 |
| (3,699) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 3 | 0.22 | 0.01 | 0.22 |
| (1,9300) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 3 | 0.21 | 0.04 | 0.22 |
| (1,9300) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 3 | 0.21 | 0.04 | 0.22 |
| (1,9300) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 3 | 0.21 | 0.04 | 0.22 |
| (1,9300) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 3 | 0.21 | 0.04 | 0.22 |
| (1,2097) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 3 | 0.21 | 0.13 | 0.13 |
| (1,6392) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 3 | 0.21 | 0.13 | 0.13 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 3 | 0.21 | 0.09 | 0.19 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 3 | 0.21 | 0.09 | 0.19 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 3 | 0.21 | 0.09 | 0.19 |
| (1,1841) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 3 | 0.2 | 0.13 | 0.11 |
| (1,1841) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 3 | 0.2 | 0.13 | 0.11 |
| (1,8707) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 3 | 0.2 | 0.06 | 0.17 |
| (1,8707) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 3 | 0.2 | 0.06 | 0.17 |
| (1,5410) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 3 | 0.19 | 0.06 | 0.17 |
| (1,5410) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 3 | 0.19 | 0.06 | 0.17 |
| (3,502) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 3 | 0.19 | 0.07 | 0.18 |
| (1,5659) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 3 | 0.18 | 0.08 | 0.13 |
| (3,20) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 3 | 0.18 | 0.07 | 0.16 |
| (1,5509) | 1:96:A:ILE:H | 1:101:A:GLU:H | 3 | 0.18 | 0.07 | 0.13 |
| (3,924) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 3 | 0.18 | 0.06 | 0.14 |
| (3,924) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 3 | 0.18 | 0.06 | 0.14 |
| (1,9629) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 3 | 0.17 | 0.02 | 0.16 |
| (1,9629) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 3 | 0.17 | 0.02 | 0.16 |
| (3,471) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 3 | 0.17 | 0.1 | 0.1 |
| (3,705) | 1:144:A:GLY:H | 1:146:A:MET:H | 3 | 0.16 | 0.03 | 0.18 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 3 | 0.16 | 0.06 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 3 | 0.16 | 0.06 | 0.14 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 3 | 0.16 | 0.06 | 0.14 |
| (1,8727) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 3 | 0.15 | 0.01 | 0.16 |
| (1,8727) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 3 | 0.15 | 0.01 | 0.16 |
| (1,47) | 1:55:A:VAL:H | 1:56:A:ARG:H | 3 | 0.14 | 0.04 | 0.12 |
| (1,4694) | 1:55:A:VAL:H | 1:56:A:ARG:H | 3 | 0.14 | 0.04 | 0.12 |
| (1,6720) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 3 | 0.14 | 0.02 | 0.14 |
| (1,1505) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 3 | 0.13 | 0.01 | 0.12 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 3 | 0.13 | 0.01 | 0.13 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 3 | 0.13 | 0.01 | 0.13 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 3 | 0.13 | 0.01 | 0.13 |
| (3,202) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 2 | 2.7 | 0.12 | 2.7 |
| (1,5589) | 1:98:A:SER:H | 1:100:A:GLU:H | 2 | 2.28 | 0.0 | 2.28 |
| (1,6608) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 2 | 1.76 | 1.39 | 1.76 |
| (1,6608) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 2 | 1.76 | 1.39 | 1.76 |
| (1,6608) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 2 | 1.76 | 1.39 | 1.76 |
| (1,1509) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 2 | 1.14 | 0.07 | 1.14 |
| (1,6006) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 2 | 1.14 | 0.07 | 1.14 |
| (1,4734) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 2 | 1.12 | 0.89 | 1.12 |
| (3,948) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 2 | 1.11 | 0.19 | 1.11 |
| (3,948) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 2 | 1.11 | 0.19 | 1.11 |
| (1,7298) | 1:28:A:ILE:H | 1:29:A:THR:H | 2 | 1.0 | 0.43 | 1.0 |
| (3,58) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 2 | 1.0 | 0.83 | 1.0 |
| (3,58) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 2 | 1.0 | 0.83 | 1.0 |
| (3,58) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 2 | 1.0 | 0.83 | 1.0 |
| (3,58) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 2 | 1.0 | 0.83 | 1.0 |
| (3,58) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 2 | 1.0 | 0.83 | 1.0 |
| (3,58) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 2 | 1.0 | 0.83 | 1.0 |
| (3,455) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 2 | 1.0 | 0.32 | 1.0 |
| (1,8885) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 2 | 0.99 | 0.01 | 0.99 |
| (1,8885) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 2 | 0.99 | 0.01 | 0.99 |
| (1,4911) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 2 | 0.98 | 0.01 | 0.98 |
| (1,4783) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 2 | 0.96 | 0.21 | 0.96 |
| (1,4783) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 2 | 0.96 | 0.21 | 0.96 |
| (1,4783) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 2 | 0.96 | 0.21 | 0.96 |
| (3,947) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 2 | 0.92 | 0.11 | 0.92 |
| (3,947) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 2 | 0.92 | 0.11 | 0.92 |
| (3,947) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 2 | 0.92 | 0.11 | 0.92 |
| (3,947) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 2 | 0.92 | 0.11 | 0.92 |
| (3,875) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 2 | 0.88 | 0.42 | 0.88 |
| (3,875) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 2 | 0.88 | 0.42 | 0.88 |
| (3,875) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 2 | 0.88 | 0.42 | 0.88 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,875) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 2 | 0.88 | 0.42 | 0.88 |
| (1,7962) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 2 | 0.88 | 0.46 | 0.88 |
| (1,7962) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 2 | 0.88 | 0.46 | 0.88 |
| (1,7962) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 2 | 0.88 | 0.46 | 0.88 |
| (3,214) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 2 | 0.87 | 0.38 | 0.87 |
| (3,214) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 2 | 0.87 | 0.38 | 0.87 |
| (3,214) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 2 | 0.87 | 0.38 | 0.87 |
| (3,10) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 2 | 0.86 | 0.44 | 0.86 |
| (3,10) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 2 | 0.86 | 0.44 | 0.86 |
| (3,10) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 2 | 0.86 | 0.44 | 0.86 |
| (1,8890) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 2 | 0.86 | 0.06 | 0.86 |
| (1,8890) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 2 | 0.86 | 0.06 | 0.86 |
| (3,839) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 2 | 0.86 | 0.43 | 0.86 |
| (3,839) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 2 | 0.86 | 0.43 | 0.86 |
| (3,839) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 2 | 0.86 | 0.43 | 0.86 |
| (3,839) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 2 | 0.86 | 0.43 | 0.86 |
| (3,839) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 2 | 0.86 | 0.43 | 0.86 |
| (3,839) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 2 | 0.86 | 0.43 | 0.86 |
| (1,6307) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 2 | 0.85 | 0.22 | 0.85 |
| (1,6307) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 2 | 0.85 | 0.22 | 0.85 |
| (1,6307) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 2 | 0.85 | 0.22 | 0.85 |
| (1,6212) | 1:145:A:GLU:HA | 1:146:A:MET:H | 2 | 0.84 | 0.04 | 0.84 |
| (1,9561) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 2 | 0.84 | 0.46 | 0.84 |
| (1,9561) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 2 | 0.84 | 0.46 | 0.84 |
| (1,9561) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 2 | 0.84 | 0.46 | 0.84 |
| (1,9561) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 2 | 0.84 | 0.46 | 0.84 |
| (1,9561) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 2 | 0.84 | 0.46 | 0.84 |
| (1,9561) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 2 | 0.84 | 0.46 | 0.84 |
| (3,662) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 2 | 0.83 | 0.02 | 0.83 |
| (3,257) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 2 | 0.81 | 0.53 | 0.81 |
| (1,4969) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 2 | 0.8 | 0.39 | 0.8 |
| (1,4969) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 2 | 0.8 | 0.39 | 0.8 |
| (3,814) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 2 | 0.8 | 0.09 | 0.8 |
| (3,814) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 2 | 0.8 | 0.09 | 0.8 |
| (3,814) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 2 | 0.8 | 0.09 | 0.8 |
| (3,814) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 2 | 0.8 | 0.09 | 0.8 |
| (3,993) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 2 | 0.78 | 0.2 | 0.78 |
| (3,993) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 2 | 0.78 | 0.2 | 0.78 |
| (3,993) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 2 | 0.78 | 0.2 | 0.78 |
| (3,993) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 2 | 0.78 | 0.2 | 0.78 |
| (1,301) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 2 | 0.78 | 0.01 | 0.78 |
| (1,301) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 2 | 0.78 | 0.01 | 0.78 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,301) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 2 | 0.78 | 0.01 | 0.78 |
| (3,212) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 2 | 0.77 | 0.18 | 0.77 |
| (1,5341) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 2 | 0.74 | 0.19 | 0.74 |
| (1,8254) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 2 | 0.74 | 0.09 | 0.74 |
| (1,7195) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 2 | 0.74 | 0.62 | 0.74 |
| (1,7195) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 2 | 0.74 | 0.62 | 0.74 |
| (1,7195) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 2 | 0.74 | 0.62 | 0.74 |
| (1,7195) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 2 | 0.74 | 0.62 | 0.74 |
| (1,7195) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 2 | 0.74 | 0.62 | 0.74 |
| (1,7195) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 2 | 0.74 | 0.62 | 0.74 |
| (1,7195) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 2 | 0.74 | 0.62 | 0.74 |
| (1,7195) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 2 | 0.74 | 0.62 | 0.74 |
| (1,7195) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 2 | 0.74 | 0.62 | 0.74 |
| (3,218) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 2 | 0.7 | 0.2 | 0.7 |
| (1,9549) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 2 | 0.7 | 0.25 | 0.7 |
| (1,9549) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 2 | 0.7 | 0.25 | 0.7 |
| (1,9549) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 2 | 0.7 | 0.25 | 0.7 |
| (1,9549) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 2 | 0.7 | 0.25 | 0.7 |
| (1,9549) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 2 | 0.7 | 0.25 | 0.7 |
| (1,9549) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 2 | 0.7 | 0.25 | 0.7 |
| (1,5080) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 2 | 0.69 | 0.55 | 0.69 |
| (1,5080) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 2 | 0.69 | 0.55 | 0.69 |
| (1,5080) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 2 | 0.69 | 0.55 | 0.69 |
| (1,4907) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 2 | 0.64 | 0.03 | 0.64 |
| (3,640) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 2 | 0.64 | 0.28 | 0.64 |
| (3,640) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 2 | 0.64 | 0.28 | 0.64 |
| (3,769) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 2 | 0.64 | 0.16 | 0.64 |
| (3,769) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 2 | 0.64 | 0.16 | 0.64 |
| (3,769) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 2 | 0.64 | 0.16 | 0.64 |
| (3,769) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 2 | 0.64 | 0.16 | 0.64 |
| (3,769) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 2 | 0.64 | 0.16 | 0.64 |
| (3,769) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 2 | 0.64 | 0.16 | 0.64 |
| (1,5085) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 2 | 0.62 | 0.05 | 0.62 |
| (3,766) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 2 | 0.62 | 0.33 | 0.62 |
| (3,766) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 2 | 0.62 | 0.33 | 0.62 |
| (1,6087) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 2 | 0.62 | 0.38 | 0.62 |
| (1,6087) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 2 | 0.62 | 0.38 | 0.62 |
| (1,6087) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 2 | 0.62 | 0.38 | 0.62 |
| (3,666) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 2 | 0.6 | 0.21 | 0.6 |
| (3,666) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 2 | 0.6 | 0.21 | 0.6 |
| (3,666) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 2 | 0.6 | 0.21 | 0.6 |
| (3,666) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 2 | 0.6 | 0.21 | 0.6 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,666) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 2 | 0.6 | 0.21 | 0.6 |
| (3,666) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 2 | 0.6 | 0.21 | 0.6 |
| (1,5008) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 2 | 0.59 | 0.27 | 0.59 |
| (1,4949) | 1:67:A:SER:HA | 1:68:A:ARG:H | 2 | 0.57 | 0.11 | 0.57 |
| (1,8756) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 2 | 0.57 | 0.14 | 0.57 |
| (1,8756) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 2 | 0.57 | 0.14 | 0.57 |
| (1,6638) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 2 | 0.57 | 0.08 | 0.57 |
| (3,193) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 2 | 0.57 | 0.01 | 0.57 |
| (3,193) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 2 | 0.57 | 0.01 | 0.57 |
| (3,193) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 2 | 0.57 | 0.01 | 0.57 |
| (3,929) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 2 | 0.56 | 0.01 | 0.56 |
| (3,929) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 2 | 0.56 | 0.01 | 0.56 |
| (3,929) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 2 | 0.56 | 0.01 | 0.56 |
| (3,929) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 2 | 0.56 | 0.01 | 0.56 |
| (3,166) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 2 | 0.56 | 0.05 | 0.56 |
| (3,166) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 2 | 0.56 | 0.05 | 0.56 |
| (3,166) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 2 | 0.56 | 0.05 | 0.56 |
| (3,166) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 2 | 0.56 | 0.05 | 0.56 |
| (3,166) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 2 | 0.56 | 0.05 | 0.56 |
| (3,166) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 2 | 0.56 | 0.05 | 0.56 |
| (3,474) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 2 | 0.54 | 0.2 | 0.54 |
| (3,474) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 2 | 0.54 | 0.2 | 0.54 |
| (3,474) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 2 | 0.54 | 0.2 | 0.54 |
| (3,440) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 2 | 0.54 | 0.19 | 0.54 |
| (3,440) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 2 | 0.54 | 0.19 | 0.54 |
| (3,590) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 2 | 0.53 | 0.42 | 0.53 |
| (1,5728) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 2 | 0.52 | 0.17 | 0.52 |
| (1,5728) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 2 | 0.52 | 0.17 | 0.52 |
| (1,5728) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 2 | 0.52 | 0.17 | 0.52 |
| (1,9341) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 2 | 0.52 | 0.4 | 0.52 |
| (1,9341) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 2 | 0.52 | 0.4 | 0.52 |
| (1,9341) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 2 | 0.52 | 0.4 | 0.52 |
| (1,9341) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 2 | 0.52 | 0.4 | 0.52 |
| (1,6196) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 2 | 0.52 | 0.01 | 0.52 |
| (1,6196) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 2 | 0.52 | 0.01 | 0.52 |
| (1,6196) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 2 | 0.52 | 0.01 | 0.52 |
| (1,8824) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 2 | 0.51 | 0.17 | 0.51 |
| (1,8824) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 2 | 0.51 | 0.17 | 0.51 |
| (1,4913) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 2 | 0.48 | 0.3 | 0.48 |
| (1,4913) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 2 | 0.48 | 0.3 | 0.48 |
| (1,4913) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 2 | 0.48 | 0.3 | 0.48 |
| (1,6558) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 2 | 0.48 | 0.16 | 0.48 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,6558) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 2 | 0.48 | 0.16 | 0.48 |
| (1,6558) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 2 | 0.48 | 0.16 | 0.48 |
| (3,407) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 2 | 0.48 | 0.16 | 0.48 |
| (3,407) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 2 | 0.48 | 0.16 | 0.48 |
| (3,407) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 2 | 0.48 | 0.16 | 0.48 |
| (1,7581) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 2 | 0.47 | 0.27 | 0.47 |
| (1,9168) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 2 | 0.47 | 0.25 | 0.47 |
| (1,9168) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 2 | 0.47 | 0.25 | 0.47 |
| (1,9168) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 2 | 0.47 | 0.25 | 0.47 |
| (1,9168) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 2 | 0.47 | 0.25 | 0.47 |
| (1,9168) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 2 | 0.47 | 0.25 | 0.47 |
| (1,9168) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 2 | 0.47 | 0.25 | 0.47 |
| (3,209) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 2 | 0.47 | 0.22 | 0.47 |
| (3,209) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 2 | 0.47 | 0.22 | 0.47 |
| (3,1031) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 2 | 0.46 | 0.22 | 0.46 |
| (3,1031) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 2 | 0.46 | 0.22 | 0.46 |
| (1,9238) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 2 | 0.46 | 0.22 | 0.46 |
| (1,9238) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 2 | 0.46 | 0.22 | 0.46 |
| (1,9238) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 2 | 0.46 | 0.22 | 0.46 |
| (1,9238) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 2 | 0.46 | 0.22 | 0.46 |
| (1,9238) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 2 | 0.46 | 0.22 | 0.46 |
| (1,9238) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 2 | 0.46 | 0.22 | 0.46 |
| (1,8760) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 2 | 0.45 | 0.28 | 0.45 |
| (1,8760) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 2 | 0.45 | 0.28 | 0.45 |
| (1,8760) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 2 | 0.45 | 0.28 | 0.45 |
| (1,8760) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 2 | 0.45 | 0.28 | 0.45 |
| (1,8760) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 2 | 0.45 | 0.28 | 0.45 |
| (1,8760) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 2 | 0.45 | 0.28 | 0.45 |
| (3,421) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 2 | 0.45 | 0.23 | 0.45 |
| (3,421) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 2 | 0.45 | 0.23 | 0.45 |
| (3,421) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 2 | 0.45 | 0.23 | 0.45 |
| (3,421) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 2 | 0.45 | 0.23 | 0.45 |
| (3,421) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 2 | 0.45 | 0.23 | 0.45 |
| (3,421) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 2 | 0.45 | 0.23 | 0.45 |
| (1,4626) | 1:50:A:GLY:H | 1:51:A:GLU:H | 2 | 0.45 | 0.03 | 0.45 |
| (1,8863) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 2 | 0.44 | 0.01 | 0.44 |
| (1,8863) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 2 | 0.44 | 0.01 | 0.44 |
| (1,8863) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 2 | 0.44 | 0.01 | 0.44 |
| (1,8863) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 2 | 0.44 | 0.01 | 0.44 |
| (1,8863) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 2 | 0.44 | 0.01 | 0.44 |
| (1,8863) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 2 | 0.44 | 0.01 | 0.44 |
| (1,5591) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 2 | 0.44 | 0.16 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5591) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 2 | 0.44 | 0.16 | 0.44 |
| (1,5368) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 2 | 0.43 | 0.17 | 0.43 |
| (1,5368) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 2 | 0.43 | 0.17 | 0.43 |
| (1,5368) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 2 | 0.43 | 0.17 | 0.43 |
| (1,9130) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 2 | 0.43 | 0.19 | 0.43 |
| (1,9130) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 2 | 0.43 | 0.19 | 0.43 |
| (1,9130) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 2 | 0.43 | 0.19 | 0.43 |
| (1,9130) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 2 | 0.43 | 0.19 | 0.43 |
| (1,9130) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 2 | 0.43 | 0.19 | 0.43 |
| (1,9130) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 2 | 0.43 | 0.19 | 0.43 |
| (1,5078) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 2 | 0.42 | 0.02 | 0.42 |
| (1,5078) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 2 | 0.42 | 0.02 | 0.42 |
| (1,5078) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 2 | 0.42 | 0.02 | 0.42 |
| (1,5548) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 2 | 0.42 | 0.04 | 0.42 |
| (1,5548) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 2 | 0.42 | 0.04 | 0.42 |
| (1,5548) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 2 | 0.42 | 0.04 | 0.42 |
| (1,5548) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 2 | 0.42 | 0.04 | 0.42 |
| (1,5548) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 2 | 0.42 | 0.04 | 0.42 |
| (1,5548) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 2 | 0.42 | 0.04 | 0.42 |
| (1,5548) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 2 | 0.42 | 0.04 | 0.42 |
| (1,5548) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 2 | 0.42 | 0.04 | 0.42 |
| (1,5548) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 2 | 0.42 | 0.04 | 0.42 |
| (1,8543) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 2 | 0.42 | 0.05 | 0.42 |
| (1,8543) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 2 | 0.42 | 0.05 | 0.42 |
| (1,5364) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 2 | 0.4 | 0.1 | 0.4 |
| (1,5364) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 2 | 0.4 | 0.1 | 0.4 |
| (1,5364) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 2 | 0.4 | 0.1 | 0.4 |
| (1,5861) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 2 | 0.4 | 0.14 | 0.4 |
| (1,5861) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 2 | 0.4 | 0.14 | 0.4 |
| (3,853) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 2 | 0.4 | 0.28 | 0.4 |
| (3,853) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 2 | 0.4 | 0.28 | 0.4 |
| (3,853) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 2 | 0.4 | 0.28 | 0.4 |
| (3,853) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 2 | 0.4 | 0.28 | 0.4 |
| (1,8351) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 2 | 0.4 | 0.09 | 0.4 |
| (1,8351) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 2 | 0.4 | 0.09 | 0.4 |
| (1,8351) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 2 | 0.4 | 0.09 | 0.4 |
| (1,6496) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 2 | 0.4 | 0.26 | 0.4 |
| (3,200) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 2 | 0.39 | 0.18 | 0.39 |
| (1,7306) | 1:40:A:ASN:HA | 1:41:A:SER:H | 2 | 0.38 | 0.22 | 0.38 |
| (1,7077) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 2 | 0.37 | 0.18 | 0.37 |
| (1,7077) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 2 | 0.37 | 0.18 | 0.37 |
| (1,7077) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 2 | 0.37 | 0.18 | 0.37 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,5637) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 2 | 0.36 | 0.22 | 0.36 |
| (1,5637) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 2 | 0.36 | 0.22 | 0.36 |
| (1,5637) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 2 | 0.36 | 0.22 | 0.36 |
| (1,8332) | 1:131:A:GLN:H | 1:135:A:GLU:H | 2 | 0.35 | 0.18 | 0.35 |
| (1,9522) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 2 | 0.35 | 0.23 | 0.35 |
| (1,9522) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 2 | 0.35 | 0.23 | 0.35 |
| (3,812) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 2 | 0.35 | 0.05 | 0.35 |
| (3,812) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 2 | 0.35 | 0.05 | 0.35 |
| (3,226) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 2 | 0.34 | 0.12 | 0.34 |
| (3,226) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 2 | 0.34 | 0.12 | 0.34 |
| (3,226) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 2 | 0.34 | 0.12 | 0.34 |
| (1,4743) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 2 | 0.34 | 0.2 | 0.34 |
| (3,393) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 2 | 0.34 | 0.01 | 0.34 |
| (3,393) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 2 | 0.34 | 0.01 | 0.34 |
| (3,393) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 2 | 0.34 | 0.01 | 0.34 |
| (3,219) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 2 | 0.34 | 0.2 | 0.34 |
| (1,7359) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 2 | 0.34 | 0.13 | 0.34 |
| (1,7359) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 2 | 0.34 | 0.13 | 0.34 |
| (1,7359) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 2 | 0.34 | 0.13 | 0.34 |
| (3,939) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 2 | 0.34 | 0.02 | 0.34 |
| (3,939) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 2 | 0.34 | 0.02 | 0.34 |
| (1,5101) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 2 | 0.32 | 0.01 | 0.32 |
| (1,5101) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 2 | 0.32 | 0.01 | 0.32 |
| (1,5101) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 2 | 0.32 | 0.01 | 0.32 |
| (1,9559) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 2 | 0.32 | 0.08 | 0.32 |
| (1,9559) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 2 | 0.32 | 0.08 | 0.32 |
| (1,5194) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 2 | 0.31 | 0.02 | 0.31 |
| (1,8110) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 2 | 0.3 | 0.12 | 0.3 |
| (1,8110) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 2 | 0.3 | 0.12 | 0.3 |
| (1,8110) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 2 | 0.3 | 0.12 | 0.3 |
| (3,62) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 2 | 0.3 | 0.02 | 0.3 |
| (3,62) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 2 | 0.3 | 0.02 | 0.3 |
| (3,62) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 2 | 0.3 | 0.02 | 0.3 |
| (3,931) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 2 | 0.3 | 0.06 | 0.3 |
| (3,931) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 2 | 0.3 | 0.06 | 0.3 |
| (1,6287) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 2 | 0.29 | 0.01 | 0.29 |
| (1,6287) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 2 | 0.29 | 0.01 | 0.29 |
| (1,6287) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 2 | 0.29 | 0.01 | 0.29 |
| (1,5730) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 2 | 0.29 | 0.0 | 0.29 |
| (1,5730) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 2 | 0.29 | 0.0 | 0.29 |
| (1,5730) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 2 | 0.29 | 0.0 | 0.29 |
| (3,137) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 2 | 0.29 | 0.01 | 0.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,8150) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 2 | 0.28 | 0.04 | 0.28 |
| (1,8150) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 2 | 0.28 | 0.04 | 0.28 |
| (1,8150) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 2 | 0.28 | 0.04 | 0.28 |
| (1,8150) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 2 | 0.28 | 0.04 | 0.28 |
| (1,8150) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 2 | 0.28 | 0.04 | 0.28 |
| (1,8150) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 2 | 0.28 | 0.04 | 0.28 |
| (1,8150) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 2 | 0.28 | 0.04 | 0.28 |
| (1,8150) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 2 | 0.28 | 0.04 | 0.28 |
| (1,8150) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 2 | 0.28 | 0.04 | 0.28 |
| (1,468) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 2 | 0.28 | 0.04 | 0.28 |
| (1,468) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 2 | 0.28 | 0.04 | 0.28 |
| (1,468) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 2 | 0.28 | 0.04 | 0.28 |
| (1,6252) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 2 | 0.28 | 0.07 | 0.28 |
| (1,6252) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 2 | 0.28 | 0.07 | 0.28 |
| (1,6252) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 2 | 0.28 | 0.07 | 0.28 |
| (1,6252) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 2 | 0.28 | 0.07 | 0.28 |
| (1,6252) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 2 | 0.28 | 0.07 | 0.28 |
| (1,6252) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 2 | 0.28 | 0.07 | 0.28 |
| (1,6252) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 2 | 0.28 | 0.07 | 0.28 |
| (1,6252) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 2 | 0.28 | 0.07 | 0.28 |
| (1,6252) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 2 | 0.28 | 0.07 | 0.28 |
| (3,742) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 2 | 0.28 | 0.08 | 0.28 |
| (3,742) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 2 | 0.28 | 0.08 | 0.28 |
| (3,742) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 2 | 0.28 | 0.08 | 0.28 |
| (3,742) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 2 | 0.28 | 0.08 | 0.28 |
| (3,742) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 2 | 0.28 | 0.08 | 0.28 |
| (3,742) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 2 | 0.28 | 0.08 | 0.28 |
| (3,742) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 2 | 0.28 | 0.08 | 0.28 |
| (3,742) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 2 | 0.28 | 0.08 | 0.28 |
| (3,742) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 2 | 0.28 | 0.08 | 0.28 |
| (1,6560) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 2 | 0.26 | 0.08 | 0.26 |
| (1,6560) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 2 | 0.26 | 0.08 | 0.26 |
| (1,6560) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 2 | 0.26 | 0.08 | 0.26 |
| (3,884) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 2 | 0.26 | 0.08 | 0.26 |
| (3,884) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 2 | 0.26 | 0.08 | 0.26 |
| (1,4751) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 2 | 0.26 | 0.06 | 0.26 |
| (1,5902) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 2 | 0.26 | 0.07 | 0.26 |
| (1,5902) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 2 | 0.26 | 0.07 | 0.26 |
| (1,5902) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 2 | 0.26 | 0.07 | 0.26 |
| (1,5902) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 2 | 0.26 | 0.07 | 0.26 |
| (1,5902) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 2 | 0.26 | 0.07 | 0.26 |
| (1,5902) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 2 | 0.26 | 0.07 | 0.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (3,883) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 2 | 0.26 | 0.13 | 0.26 |
| (3,883) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 2 | 0.26 | 0.13 | 0.26 |
| (3,865) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 2 | 0.26 | 0.03 | 0.26 |
| (3,865) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 2 | 0.26 | 0.03 | 0.26 |
| (3,865) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 2 | 0.26 | 0.03 | 0.26 |
| (3,865) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 2 | 0.26 | 0.03 | 0.26 |
| (3,865) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 2 | 0.26 | 0.03 | 0.26 |
| (3,865) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 2 | 0.26 | 0.03 | 0.26 |
| (1,5690) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 2 | 0.25 | 0.07 | 0.25 |
| (1,5988) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 2 | 0.25 | 0.0 | 0.25 |
| (1,5163) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 2 | 0.24 | 0.1 | 0.24 |
| (3,495) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 2 | 0.24 | 0.06 | 0.24 |
| (3,495) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 2 | 0.24 | 0.06 | 0.24 |
| (3,495) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 2 | 0.24 | 0.06 | 0.24 |
| (1,5129) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 2 | 0.24 | 0.07 | 0.24 |
| (1,5129) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 2 | 0.24 | 0.07 | 0.24 |
| (1,5129) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 2 | 0.24 | 0.07 | 0.24 |
| (1,5688) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 2 | 0.24 | 0.11 | 0.24 |
| (1,9511) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 2 | 0.24 | 0.1 | 0.24 |
| (1,9511) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 2 | 0.24 | 0.1 | 0.24 |
| (3,808) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 2 | 0.24 | 0.04 | 0.24 |
| (3,808) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 2 | 0.24 | 0.04 | 0.24 |
| (3,808) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 2 | 0.24 | 0.04 | 0.24 |
| (3,808) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 2 | 0.24 | 0.04 | 0.24 |
| (3,808) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 2 | 0.24 | 0.04 | 0.24 |
| (3,808) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 2 | 0.24 | 0.04 | 0.24 |
| (1,3341) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 2 | 0.23 | 0.1 | 0.23 |
| (1,6016) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 2 | 0.23 | 0.03 | 0.23 |
| (1,6016) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 2 | 0.23 | 0.03 | 0.23 |
| (1,4702) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 2 | 0.23 | 0.01 | 0.23 |
| (1,4702) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 2 | 0.23 | 0.01 | 0.23 |
| (1,4702) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 2 | 0.23 | 0.01 | 0.23 |
| (1,6105) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 2 | 0.22 | 0.08 | 0.22 |
| (1,4835) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 2 | 0.22 | 0.07 | 0.22 |
| (1,4835) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 2 | 0.22 | 0.07 | 0.22 |
| (1,4835) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 2 | 0.22 | 0.07 | 0.22 |
| (1,4835) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 2 | 0.22 | 0.07 | 0.22 |
| (1,4835) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 2 | 0.22 | 0.07 | 0.22 |
| (1,4835) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 2 | 0.22 | 0.07 | 0.22 |
| (1,4835) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 2 | 0.22 | 0.07 | 0.22 |
| (1,4835) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 2 | 0.22 | 0.07 | 0.22 |
| (1,4835) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 2 | 0.22 | 0.07 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,355) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HD2 | 2 | 0.22 | 0.07 | 0.22 |
| (1,355) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HD3 | 2 | 0.22 | 0.07 | 0.22 |
| (1,355) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HD2 | 2 | 0.22 | 0.07 | 0.22 |
| (1,355) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HD3 | 2 | 0.22 | 0.07 | 0.22 |
| (1,5995) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 2 | 0.21 | 0.02 | 0.21 |
| (1,4621) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 2 | 0.2 | 0.03 | 0.2 |
| (1,4621) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 2 | 0.2 | 0.03 | 0.2 |
| (1,2801) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 2 | 0.2 | 0.05 | 0.2 |
| (1,6837) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 2 | 0.2 | 0.05 | 0.2 |
| (1,8601) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 2 | 0.2 | 0.01 | 0.2 |
| (1,8601) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 2 | 0.2 | 0.01 | 0.2 |
| (1,6522) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 2 | 0.2 | 0.02 | 0.2 |
| (1,6522) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 2 | 0.2 | 0.02 | 0.2 |
| (1,6522) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 2 | 0.2 | 0.02 | 0.2 |
| (1,9534) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 2 | 0.2 | 0.09 | 0.2 |
| (1,9534) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 2 | 0.2 | 0.09 | 0.2 |
| (1,6297) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 2 | 0.19 | 0.09 | 0.19 |
| (1,6297) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 2 | 0.19 | 0.09 | 0.19 |
| (1,6297) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 2 | 0.19 | 0.09 | 0.19 |
| (1,9023) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 2 | 0.19 | 0.02 | 0.19 |
| (1,9023) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 2 | 0.19 | 0.02 | 0.19 |
| (1,5520) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 2 | 0.18 | 0.01 | 0.18 |
| (1,7233) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 2 | 0.18 | 0.03 | 0.18 |
| (3,915) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 2 | 0.18 | 0.04 | 0.18 |
| (3,915) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 2 | 0.18 | 0.04 | 0.18 |
| (1,7025) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 2 | 0.17 | 0.03 | 0.17 |
| (1,7025) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 2 | 0.17 | 0.03 | 0.17 |
| (1,7025) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 2 | 0.17 | 0.03 | 0.17 |
| (1,8505) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 2 | 0.17 | 0.05 | 0.17 |
| (1,3401) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (1,7356) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 2 | 0.16 | 0.02 | 0.16 |
| (1,8539) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 2 | 0.16 | 0.02 | 0.16 |
| (1,8539) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 2 | 0.16 | 0.02 | 0.16 |
| (1,4623) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 2 | 0.16 | 0.02 | 0.16 |
| (1,4623) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 2 | 0.16 | 0.02 | 0.16 |
| (1,5484) | 1:94:A:GLN:H | 1:95:A:LYS:H | 2 | 0.16 | 0.01 | 0.16 |
| (3,796) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 2 | 0.16 | 0.05 | 0.16 |
| (3,796) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 2 | 0.16 | 0.05 | 0.16 |
| (1,277) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 2 | 0.15 | 0.01 | 0.15 |
| (1,277) | 1:78:A:ILE:HA | 1:78:A:ILE:HG13 | 2 | 0.15 | 0.01 | 0.15 |
| (1,8773) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 2 | 0.15 | 0.01 | 0.15 |
| (1,8773) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 2 | 0.15 | 0.01 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,677) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 2 | 0.15 | 0.0 | 0.15 |
| (1,677) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 2 | 0.15 | 0.0 | 0.15 |
| (1,677) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 2 | 0.15 | 0.0 | 0.15 |
| (1,7485) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 2 | 0.15 | 0.04 | 0.15 |
| (1,7485) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 2 | 0.15 | 0.04 | 0.15 |
| (1,8597) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 2 | 0.15 | 0.04 | 0.15 |
| (1,8597) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 2 | 0.15 | 0.04 | 0.15 |
| (1,6469) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 2 | 0.15 | 0.0 | 0.15 |
| (1,2215) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 2 | 0.14 | 0.01 | 0.14 |
| (1,2215) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 2 | 0.14 | 0.01 | 0.14 |
| (1,2215) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 2 | 0.14 | 0.01 | 0.14 |
| (1,8531) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 2 | 0.14 | 0.03 | 0.14 |
| (1,8531) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 2 | 0.14 | 0.03 | 0.14 |
| (1,8620) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,8620) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,4323) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 2 | 0.13 | 0.0 | 0.13 |
| (1,4323) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 2 | 0.13 | 0.0 | 0.13 |
| (1,6959) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 2 | 0.13 | 0.03 | 0.13 |
| (1,5453) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 2 | 0.12 | 0.02 | 0.12 |
| (1,5453) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 2 | 0.12 | 0.02 | 0.12 |
| (1,5453) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 2 | 0.12 | 0.02 | 0.12 |
| (1,1317) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 2 | 0.12 | 0.01 | 0.12 |
| (1,2243) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,5900) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 2 | 0.12 | 0.01 | 0.12 |
| (1,7053) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 2 | 0.12 | 0.01 | 0.12 |
| (1,7053) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 2 | 0.12 | 0.01 | 0.12 |
| (1,5412) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 2 | 0.12 | 0.02 | 0.12 |
| (1,209) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 2 | 0.12 | 0.0 | 0.12 |
| (3,383) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 2 | 0.11 | 0.0 | 0.11 |
| (3,383) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 2 | 0.11 | 0.0 | 0.11 |
| (3,383) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 2 | 0.11 | 0.0 | 0.11 |

[1]Number of violated models, [2]Standard deviation

## 9.5 All violated distance restraints (i)

### 9.5.1 Histogram : Distribution of distance violations (i)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.

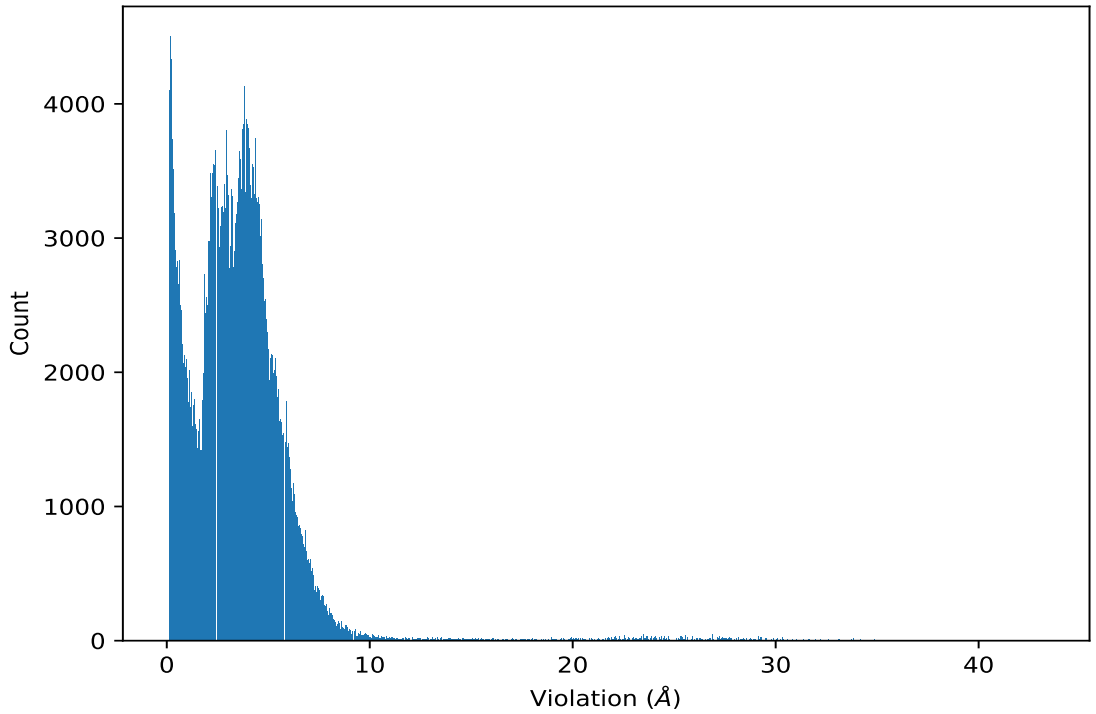


### 9.5.2 Table : All distance violations (i)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 7 | 43.27 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 7 | 43.27 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 10 | 42.96 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 1 | 42.83 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 17 | 42.75 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 1 | 42.69 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 7 | 42.65 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 7 | 42.65 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 1 | 42.18 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 6 | 41.93 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 10 | 41.58 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 17 | 41.48 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 14 | 41.31 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 3 | 41.3 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 1 | 41.05 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 1 | 41.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 6 | 40.81 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 1 | 40.76 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 6 | 40.58 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 17 | 40.46 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 7 | 40.14 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 6 | 39.91 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 1 | 39.85 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 10 | 39.71 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 10 | 39.71 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 17 | 39.68 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 1 | 39.42 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 17 | 39.41 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 17 | 39.41 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 15 | 39.39 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 15 | 39.39 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 6 | 39.35 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 6 | 39.31 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 14 | 39.31 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 14 | 39.31 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 17 | 39.26 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 6 | 39.24 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 6 | 39.24 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 1 | 39.18 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 1 | 39.18 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 17 | 39.14 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 1 | 39.14 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 3 | 38.86 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 14 | 38.74 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 7 | 38.73 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 1 | 38.72 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 15 | 38.69 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 15 | 38.69 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 1 | 38.47 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 10 | 38.47 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 10 | 38.41 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 10 | 38.29 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 10 | 38.29 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 1 | 38.28 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 10 | 38.27 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 1 | 38.14 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 14 | 38.14 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 14 | 38.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 6 | 38.05 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 7 | 38.05 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 17 | 37.96 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 10 | 37.94 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 1 | 37.92 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 17 | 37.9 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 3 | 37.84 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 3 | 37.84 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 10 | 37.75 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 10 | 37.75 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 1 | 37.73 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 1 | 37.73 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 11 | 37.58 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 11 | 37.58 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 7 | 37.56 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 11 | 37.37 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 11 | 37.37 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 1 | 37.34 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 1 | 37.33 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 6 | 37.18 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 6 | 37.18 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 1 | 36.97 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 7 | 36.93 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 7 | 36.93 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 7 | 36.93 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 7 | 36.93 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 7 | 36.93 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 7 | 36.93 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 3 | 36.81 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 3 | 36.81 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 7 | 36.6 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 7 | 36.6 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 7 | 36.6 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 3 | 36.59 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 3 | 36.59 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 17 | 36.51 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 17 | 36.51 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 7 | 36.39 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 10 | 36.36 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 14 | 36.36 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 14 | 36.36 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 6 | 36.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 10 | 36.32 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 15 | 36.26 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 1 | 36.22 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 14 | 36.19 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 14 | 36.18 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 7 | 36.16 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 14 | 36.05 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 6 | 36.03 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 6 | 35.95 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 17 | 35.91 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 1 | 35.9 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 1 | 35.85 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 1 | 35.85 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 1 | 35.85 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 1 | 35.85 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 1 | 35.85 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 1 | 35.85 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 1 | 35.83 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 10 | 35.82 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 10 | 35.82 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 19 | 35.73 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 19 | 35.73 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 1 | 35.68 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 10 | 35.57 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 19 | 35.53 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 19 | 35.53 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 7 | 35.42 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 7 | 35.42 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 1 | 35.38 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 1 | 35.38 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 1 | 35.38 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 14 | 35.34 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 17 | 35.29 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 1 | 35.29 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 1 | 35.26 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 7 | 35.23 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 7 | 35.23 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 7 | 35.23 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 7 | 35.23 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 7 | 35.23 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 7 | 35.23 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 17 | 35.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 10 | 35.16 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 10 | 35.15 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 17 | 35.13 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 1 | 35.13 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 1 | 35.13 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 1 | 35.13 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 1 | 35.13 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 1 | 35.13 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 1 | 35.13 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 6 | 35.05 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 10 | 34.91 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 10 | 34.91 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 1 | 34.88 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 1 | 34.88 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 1 | 34.88 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 1 | 34.88 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 1 | 34.88 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 1 | 34.88 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 14 | 34.86 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 7 | 34.86 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 7 | 34.86 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 7 | 34.86 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 3 | 34.85 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 7 | 34.82 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 7 | 34.82 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 7 | 34.82 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 6 | 34.77 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 6 | 34.77 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 15 | 34.77 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 6 | 34.76 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 3 | 34.71 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 6 | 34.59 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 6 | 34.59 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 10 | 34.54 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 6 | 34.51 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 1 | 34.5 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 7 | 34.46 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 7 | 34.46 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 7 | 34.46 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 7 | 34.46 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 7 | 34.46 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 7 | 34.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 11 | 34.45 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 17 | 34.42 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 1 | 34.4 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 17 | 34.33 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 17 | 34.28 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 14 | 34.24 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 6 | 34.22 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 6 | 34.22 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 14 | 34.22 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 6 | 34.17 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 7 | 34.17 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 7 | 34.17 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 7 | 34.17 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 15 | 34.17 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 7 | 34.17 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 7 | 34.17 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 7 | 34.17 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 17 | 34.12 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 17 | 34.12 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 14 | 34.09 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 6 | 34.05 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 10 | 33.92 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 1 | 33.9 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 10 | 33.89 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 1 | 33.85 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 7 | 33.84 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 7 | 33.84 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 7 | 33.84 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 7 | 33.82 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 7 | 33.82 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 7 | 33.82 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 7 | 33.82 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 7 | 33.82 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 7 | 33.82 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 15 | 33.81 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 15 | 33.81 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 15 | 33.81 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 15 | 33.81 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 15 | 33.81 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 15 | 33.81 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 17 | 33.79 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 1 | 33.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 1 | 33.71 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 1 | 33.71 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 14 | 33.7 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 3 | 33.7 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 14 | 33.7 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 14 | 33.7 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 14 | 33.7 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 14 | 33.7 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 14 | 33.7 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 14 | 33.7 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 1 | 33.64 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 17 | 33.62 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 14 | 33.6 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 14 | 33.6 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 17 | 33.56 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 17 | 33.56 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 6 | 33.51 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 6 | 33.49 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 11 | 33.45 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 10 | 33.41 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 17 | 33.38 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 17 | 33.34 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 17 | 33.31 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 10 | 33.28 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 1 | 33.24 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 1 | 33.24 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 1 | 33.24 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 10 | 33.19 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 6 | 33.12 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 10 | 33.1 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 1 | 33.1 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 1 | 33.1 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 1 | 33.1 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 1 | 33.1 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 1 | 33.1 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 1 | 33.1 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 10 | 33.07 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 14 | 33.05 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 11 | 33.05 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 11 | 33.05 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 11 | 33.05 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 11 | 33.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 11 | 33.05 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 11 | 33.05 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 6 | 32.93 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 7 | 32.92 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 7 | 32.92 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 7 | 32.92 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 7 | 32.9 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 7 | 32.9 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 7 | 32.9 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 10 | 32.89 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 14 | 32.89 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 10 | 32.88 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 3 | 32.88 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 17 | 32.86 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 10 | 32.86 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 10 | 32.84 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 17 | 32.83 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 1 | 32.82 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 1 | 32.82 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 1 | 32.82 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 14 | 32.78 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 1 | 32.74 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 1 | 32.74 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 1 | 32.74 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 1 | 32.73 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 17 | 32.72 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 1 | 32.69 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 1 | 32.69 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 1 | 32.69 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 3 | 32.67 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 1 | 32.62 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 1 | 32.62 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 1 | 32.62 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 3 | 32.62 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 1 | 32.62 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 1 | 32.62 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 1 | 32.62 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 7 | 32.61 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 19 | 32.6 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 6 | 32.59 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 10 | 32.58 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 1 | 32.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 3 | 32.5 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 3 | 32.5 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 3 | 32.5 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 3 | 32.5 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 3 | 32.5 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 3 | 32.5 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 17 | 32.39 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 11 | 32.36 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 14 | 32.29 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 6 | 32.24 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 1 | 32.23 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 1 | 32.23 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 1 | 32.23 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 1 | 32.23 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 1 | 32.23 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 1 | 32.23 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 15 | 32.2 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 7 | 32.19 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 7 | 32.19 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 7 | 32.19 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 7 | 32.19 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 7 | 32.19 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 7 | 32.19 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 7 | 32.15 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 14 | 32.12 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 1 | 32.07 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 1 | 32.05 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 1 | 32.02 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 10 | 31.99 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 14 | 31.99 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 14 | 31.99 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 14 | 31.99 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 14 | 31.99 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 14 | 31.99 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 14 | 31.99 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 1 | 31.97 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 6 | 31.96 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 10 | 31.93 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 14 | 31.91 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 14 | 31.91 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 14 | 31.91 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 10 | 31.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 17 | 31.89 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 14 | 31.85 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 14 | 31.85 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 14 | 31.85 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 14 | 31.85 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 14 | 31.85 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 14 | 31.85 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 14 | 31.83 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 14 | 31.83 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 14 | 31.83 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 10 | 31.81 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 10 | 31.81 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 10 | 31.81 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 17 | 31.79 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 15 | 31.7 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 15 | 31.7 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 15 | 31.7 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 3 | 31.65 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 14 | 31.65 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 15 | 31.65 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 15 | 31.65 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 15 | 31.65 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 15 | 31.65 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 15 | 31.65 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 15 | 31.65 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 14 | 31.64 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 19 | 31.61 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 19 | 31.61 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 19 | 31.61 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 19 | 31.61 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 19 | 31.61 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 19 | 31.61 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 19 | 31.61 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 15 | 31.6 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 14 | 31.59 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 14 | 31.59 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 14 | 31.59 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 7 | 31.56 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 7 | 31.56 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 7 | 31.56 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 14 | 31.51 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 17 | 31.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 17 | 31.51 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 6 | 31.48 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 7 | 31.47 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 7 | 31.47 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 7 | 31.47 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 7 | 31.47 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 7 | 31.47 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 7 | 31.47 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 6 | 31.42 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 17 | 31.4 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 11 | 31.39 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 17 | 31.36 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 6 | 31.36 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 1 | 31.35 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 3 | 31.35 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 1 | 31.35 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 1 | 31.35 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 1 | 31.35 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 17 | 31.35 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 17 | 31.35 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 17 | 31.35 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 17 | 31.35 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 17 | 31.35 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 17 | 31.35 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 1 | 31.34 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 6 | 31.34 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 6 | 31.34 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 14 | 31.32 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 1 | 31.29 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 17 | 31.29 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 7 | 31.28 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 15 | 31.27 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 15 | 31.27 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 15 | 31.27 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 17 | 31.25 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 3 | 31.2 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 6 | 31.19 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 3 | 31.17 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 1 | 31.14 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 10 | 31.06 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 10 | 31.06 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 14 | 31.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 15 | 31.05 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 15 | 31.05 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 15 | 31.05 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 1 | 31.03 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 14 | 31.02 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 10 | 31.01 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 7 | 31.01 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 15 | 31.01 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 15 | 31.01 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 15 | 31.01 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 15 | 31.01 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 15 | 31.01 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 15 | 31.01 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 1 | 31.01 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 1 | 31.01 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 1 | 31.01 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 3 | 30.99 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 10 | 30.98 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 11 | 30.94 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 11 | 30.94 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 11 | 30.94 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 1 | 30.93 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 1 | 30.93 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 1 | 30.93 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 11 | 30.88 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 6 | 30.85 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 1 | 30.83 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 1 | 30.83 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 1 | 30.83 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 11 | 30.81 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 11 | 30.81 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 11 | 30.81 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 11 | 30.81 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 11 | 30.81 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 11 | 30.81 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 14 | 30.8 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 3 | 30.8 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 11 | 30.8 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 11 | 30.8 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 11 | 30.8 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 7 | 30.79 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 7 | 30.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 7 | 30.79 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 14 | 30.78 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 14 | 30.74 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 1 | 30.72 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 14 | 30.69 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 1 | 30.69 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 1 | 30.69 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 1 | 30.69 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 6 | 30.68 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 6 | 30.67 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 6 | 30.57 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 6 | 30.57 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 6 | 30.57 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 6 | 30.57 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 6 | 30.57 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 6 | 30.57 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 10 | 30.56 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 6 | 30.55 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 6 | 30.55 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 6 | 30.55 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 10 | 30.51 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 19 | 30.51 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 14 | 30.45 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 14 | 30.39 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 17 | 30.39 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 3 | 30.39 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 3 | 30.39 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 3 | 30.39 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 3 | 30.39 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 3 | 30.39 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 3 | 30.39 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 3 | 30.39 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 3 | 30.39 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 3 | 30.39 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 6 | 30.38 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 1 | 30.34 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 1 | 30.34 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 1 | 30.34 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 3 | 30.32 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 14 | 30.31 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 7 | 30.3 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 7 | 30.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 7 | 30.3 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 7 | 30.3 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 7 | 30.3 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 7 | 30.3 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 7 | 30.3 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 7 | 30.3 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 7 | 30.3 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 7 | 30.3 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 7 | 30.3 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 7 | 30.3 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 7 | 30.3 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 7 | 30.3 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 7 | 30.3 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 7 | 30.3 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 7 | 30.3 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 7 | 30.3 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 17 | 30.29 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 15 | 30.27 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 15 | 30.27 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 15 | 30.27 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 15 | 30.27 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 15 | 30.27 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 15 | 30.27 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 3 | 30.23 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 3 | 30.23 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 14 | 30.23 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 14 | 30.23 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 14 | 30.23 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 7 | 30.22 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 6 | 30.22 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 15 | 30.2 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 15 | 30.2 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 15 | 30.2 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 17 | 30.2 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 14 | 30.18 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 3 | 30.18 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 3 | 30.18 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 3 | 30.18 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 7 | 30.18 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 7 | 30.18 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 7 | 30.18 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 1 | 30.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 1 | 30.12 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 1 | 30.12 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 3 | 30.1 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 10 | 30.1 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 10 | 30.1 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 10 | 30.1 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 7 | 30.08 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 7 | 30.08 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 7 | 30.08 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 7 | 30.08 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 7 | 30.08 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 7 | 30.08 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 7 | 30.08 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 7 | 30.08 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 7 | 30.08 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 7 | 30.08 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 7 | 30.08 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 7 | 30.08 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 7 | 30.08 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 7 | 30.08 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 7 | 30.08 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 7 | 30.08 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 7 | 30.08 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 7 | 30.08 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 10 | 30.03 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 10 | 30.03 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 10 | 30.03 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 10 | 30.03 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 10 | 30.03 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 10 | 30.03 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 15 | 30.01 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 15 | 30.01 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 15 | 30.01 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 15 | 30.01 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 15 | 30.01 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 15 | 30.01 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 19 | 29.99 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 3 | 29.98 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 10 | 29.98 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 7 | 29.95 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 7 | 29.95 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 7 | 29.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 17 | 29.94 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 17 | 29.94 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 17 | 29.94 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 15 | 29.92 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 3 | 29.92 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 3 | 29.92 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 3 | 29.92 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 17 | 29.89 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 17 | 29.89 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 17 | 29.89 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 17 | 29.89 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 17 | 29.89 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 17 | 29.89 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 10 | 29.86 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 11 | 29.86 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 11 | 29.86 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 11 | 29.86 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 15 | 29.85 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 15 | 29.85 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 17 | 29.85 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 17 | 29.85 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 17 | 29.85 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 17 | 29.85 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 17 | 29.85 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 17 | 29.85 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 1 | 29.83 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 1 | 29.83 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 6 | 29.82 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 6 | 29.82 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 11 | 29.79 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 14 | 29.79 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 14 | 29.79 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 14 | 29.79 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 14 | 29.79 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 14 | 29.79 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 14 | 29.79 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 15 | 29.78 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 15 | 29.78 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 15 | 29.78 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 1 | 29.76 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 17 | 29.75 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 7 | 29.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 14 | 29.72 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 14 | 29.72 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 14 | 29.72 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 14 | 29.67 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 14 | 29.67 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 14 | 29.67 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 10 | 29.65 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 14 | 29.64 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 3 | 29.64 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 6 | 29.63 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 11 | 29.62 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 6 | 29.57 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 6 | 29.56 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 17 | 29.56 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 14 | 29.55 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 1 | 29.55 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 7 | 29.54 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 6 | 29.54 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 6 | 29.54 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 6 | 29.54 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 6 | 29.54 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 6 | 29.54 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 6 | 29.54 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 3 | 29.52 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 1 | 29.51 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 10 | 29.51 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 10 | 29.51 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 15 | 29.5 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 15 | 29.5 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 15 | 29.5 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 19 | 29.5 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 19 | 29.5 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 19 | 29.5 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 1 | 29.47 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 1 | 29.47 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 1 | 29.47 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 1 | 29.47 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 1 | 29.47 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 1 | 29.47 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 1 | 29.47 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 1 | 29.47 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 1 | 29.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 1 | 29.47 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 1 | 29.47 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 1 | 29.47 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 1 | 29.47 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 1 | 29.47 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 1 | 29.47 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 1 | 29.47 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 1 | 29.47 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 1 | 29.47 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 14 | 29.44 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 14 | 29.44 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 14 | 29.43 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 3 | 29.39 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 15 | 29.38 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 15 | 29.38 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 15 | 29.38 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 6 | 29.34 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 6 | 29.34 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 6 | 29.34 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 6 | 29.34 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 6 | 29.34 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 6 | 29.34 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 10 | 29.33 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 7 | 29.33 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 7 | 29.33 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 7 | 29.33 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 7 | 29.33 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 7 | 29.33 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 7 | 29.33 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 7 | 29.33 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 7 | 29.33 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 7 | 29.33 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 7 | 29.33 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 7 | 29.33 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 7 | 29.33 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 7 | 29.33 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 7 | 29.33 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 7 | 29.33 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 7 | 29.33 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 7 | 29.33 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 7 | 29.33 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 3 | 29.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 7 | 29.3 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 15 | 29.29 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 6 | 29.29 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 7 | 29.29 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 7 | 29.29 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 7 | 29.29 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 7 | 29.29 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 7 | 29.29 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 7 | 29.29 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 7 | 29.29 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 7 | 29.29 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 7 | 29.29 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 7 | 29.29 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 7 | 29.29 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 7 | 29.29 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 7 | 29.29 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 7 | 29.29 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 7 | 29.29 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 7 | 29.29 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 7 | 29.29 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 7 | 29.29 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 11 | 29.28 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 7 | 29.25 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 7 | 29.25 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 7 | 29.25 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 14 | 29.22 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 14 | 29.22 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 14 | 29.22 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 10 | 29.22 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 10 | 29.22 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 10 | 29.22 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 14 | 29.22 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 14 | 29.22 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 14 | 29.22 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 10 | 29.22 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 10 | 29.22 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 10 | 29.22 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 1 | 29.19 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 14 | 29.19 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 7 | 29.19 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 7 | 29.19 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 7 | 29.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 6 | 29.18 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 6 | 29.18 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 6 | 29.18 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 19 | 29.18 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 19 | 29.18 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 19 | 29.18 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 6 | 29.18 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 6 | 29.18 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 6 | 29.18 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 19 | 29.18 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 19 | 29.18 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 19 | 29.18 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 17 | 29.17 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 1 | 29.17 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 1 | 29.17 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 11 | 29.16 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 11 | 29.16 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 11 | 29.16 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 11 | 29.16 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 11 | 29.16 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 11 | 29.16 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 14 | 29.15 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 14 | 29.15 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 14 | 29.15 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 17 | 29.15 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 17 | 29.15 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 17 | 29.15 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 7 | 29.14 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 17 | 29.12 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 11 | 29.12 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 11 | 29.12 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 14 | 29.11 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 1 | 29.08 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 1 | 29.08 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 3 | 29.05 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 17 | 29.04 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 19 | 29.04 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 14 | 29.02 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 14 | 29.02 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 14 | 29.02 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 11 | 29.02 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 11 | 29.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 11 | 29.02 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 14 | 29.02 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 14 | 29.02 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 14 | 29.02 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 10 | 29.01 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 17 | 28.99 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 10 | 28.97 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 10 | 28.97 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 10 | 28.97 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 10 | 28.97 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 10 | 28.97 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 10 | 28.97 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 1 | 28.95 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 1 | 28.95 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 17 | 28.92 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 3 | 28.91 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 3 | 28.91 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 10 | 28.9 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 10 | 28.9 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 10 | 28.9 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 10 | 28.9 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 10 | 28.9 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 10 | 28.9 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 1 | 28.87 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 19 | 28.87 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 7 | 28.86 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 6 | 28.86 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 6 | 28.82 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 6 | 28.82 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 6 | 28.82 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 10 | 28.82 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 10 | 28.82 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 10 | 28.82 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 1 | 28.82 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 1 | 28.82 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 1 | 28.82 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 10 | 28.81 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 17 | 28.81 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 14 | 28.75 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 1 | 28.75 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 1 | 28.75 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 1 | 28.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 1 | 28.75 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 1 | 28.75 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 1 | 28.75 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 1 | 28.75 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 1 | 28.75 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 1 | 28.75 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 1 | 28.75 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 1 | 28.75 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 1 | 28.75 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 1 | 28.75 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 1 | 28.75 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 1 | 28.75 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 1 | 28.75 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 1 | 28.75 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 1 | 28.75 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 17 | 28.74 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 17 | 28.74 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 17 | 28.74 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 6 | 28.73 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 1 | 28.72 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 19 | 28.72 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 19 | 28.72 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 19 | 28.72 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 7 | 28.7 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 10 | 28.69 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 10 | 28.69 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 6 | 28.67 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 6 | 28.67 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 6 | 28.67 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 6 | 28.67 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 10 | 28.65 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 3 | 28.64 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 19 | 28.62 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 19 | 28.62 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 19 | 28.62 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 3 | 28.59 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 3 | 28.59 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 3 | 28.59 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 3 | 28.59 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 3 | 28.59 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 3 | 28.59 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 6 | 28.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 6 | 28.57 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 6 | 28.57 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 7 | 28.55 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 7 | 28.55 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 7 | 28.55 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 7 | 28.55 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 7 | 28.55 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 7 | 28.55 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 7 | 28.55 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 7 | 28.55 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 7 | 28.55 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 11 | 28.54 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 11 | 28.54 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 11 | 28.54 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 17 | 28.53 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 3 | 28.52 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 17 | 28.48 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 17 | 28.48 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 3 | 28.47 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 3 | 28.47 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 3 | 28.47 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 14 | 28.46 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 14 | 28.46 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 14 | 28.46 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 10 | 28.44 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 14 | 28.44 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 14 | 28.44 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 19 | 28.43 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 19 | 28.43 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 19 | 28.43 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 19 | 28.43 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 19 | 28.43 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 19 | 28.43 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 3 | 28.4 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 3 | 28.4 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 3 | 28.4 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 3 | 28.4 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 3 | 28.4 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 3 | 28.4 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 3 | 28.39 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 11 | 28.37 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 17 | 28.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 17 | 28.36 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 17 | 28.36 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 17 | 28.36 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 17 | 28.36 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 17 | 28.36 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 17 | 28.36 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 17 | 28.36 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 7 | 28.35 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 7 | 28.35 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 7 | 28.35 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 1 | 28.34 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 1 | 28.34 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 1 | 28.34 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 17 | 28.31 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 17 | 28.31 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 17 | 28.31 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 17 | 28.31 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 17 | 28.31 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 17 | 28.31 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 6 | 28.28 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 10 | 28.27 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 10 | 28.27 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 10 | 28.27 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 10 | 28.27 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 10 | 28.27 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 10 | 28.27 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 17 | 28.25 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 17 | 28.25 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 14 | 28.2 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 14 | 28.2 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 1 | 28.2 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 1 | 28.2 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 1 | 28.2 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 10 | 28.19 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 14 | 28.19 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 14 | 28.19 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 14 | 28.19 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 14 | 28.19 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 14 | 28.19 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 14 | 28.19 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 14 | 28.19 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 14 | 28.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 14 | 28.19 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 14 | 28.19 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 14 | 28.19 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 14 | 28.19 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 14 | 28.19 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 14 | 28.19 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 14 | 28.19 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 14 | 28.19 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 14 | 28.19 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 14 | 28.19 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 17 | 28.16 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 17 | 28.16 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 7 | 28.16 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 7 | 28.16 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 10 | 28.14 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 17 | 28.12 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 14 | 28.12 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 3 | 28.12 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 3 | 28.12 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 3 | 28.12 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 6 | 28.09 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 14 | 28.06 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 14 | 28.06 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 14 | 28.06 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 14 | 28.06 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 14 | 28.06 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 14 | 28.06 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 14 | 28.06 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 14 | 28.06 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 14 | 28.06 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 14 | 28.06 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 14 | 28.06 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 14 | 28.06 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 14 | 28.06 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 14 | 28.06 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 14 | 28.06 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 14 | 28.06 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 14 | 28.06 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 14 | 28.06 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 3 | 28.0 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 3 | 28.0 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 3 | 28.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 3 | 28.0 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 14 | 27.99 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 1 | 27.99 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 6 | 27.98 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 14 | 27.98 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 14 | 27.98 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 14 | 27.98 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 6 | 27.96 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 6 | 27.96 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 6 | 27.96 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 19 | 27.95 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 17 | 27.93 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 10 | 27.92 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 10 | 27.92 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 10 | 27.92 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 3 | 27.91 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 10 | 27.89 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 7 | 27.85 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 17 | 27.84 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 11 | 27.84 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 19 | 27.84 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 1 | 27.83 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 3 | 27.82 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 3 | 27.82 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 3 | 27.82 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 10 | 27.82 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 10 | 27.82 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 10 | 27.82 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 3 | 27.82 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 3 | 27.82 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 3 | 27.82 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 10 | 27.82 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 10 | 27.82 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 10 | 27.82 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 1 | 27.81 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 19 | 27.8 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 15 | 27.78 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 15 | 27.78 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 15 | 27.78 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 15 | 27.78 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 15 | 27.78 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 15 | 27.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 7 | 27.77 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 3 | 27.76 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 7 | 27.76 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 7 | 27.76 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 7 | 27.76 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 7 | 27.76 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 7 | 27.76 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 7 | 27.76 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 7 | 27.76 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 7 | 27.76 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 7 | 27.76 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 14 | 27.74 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 17 | 27.74 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 1 | 27.74 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 1 | 27.74 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 1 | 27.74 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 1 | 27.74 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 1 | 27.74 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 1 | 27.74 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 1 | 27.74 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 1 | 27.74 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 1 | 27.74 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 1 | 27.74 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 1 | 27.74 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 1 | 27.74 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 1 | 27.74 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 1 | 27.74 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 1 | 27.74 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 1 | 27.74 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 1 | 27.74 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 1 | 27.74 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 14 | 27.71 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 14 | 27.71 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 14 | 27.71 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 15 | 27.7 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 15 | 27.7 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 15 | 27.7 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 6 | 27.69 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 6 | 27.68 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 6 | 27.68 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 6 | 27.68 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 6 | 27.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 6 | 27.68 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 6 | 27.68 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 1 | 27.67 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 1 | 27.66 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 11 | 27.66 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 3 | 27.66 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 3 | 27.66 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 15 | 27.66 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 15 | 27.66 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 15 | 27.66 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 1 | 27.65 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 11 | 27.65 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 17 | 27.63 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 17 | 27.63 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 11 | 27.63 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 11 | 27.63 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 11 | 27.63 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 10 | 27.62 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 6 | 27.62 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 6 | 27.62 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 7 | 27.6 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 6 | 27.6 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 6 | 27.59 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 19 | 27.58 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 19 | 27.58 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 19 | 27.58 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 17 | 27.58 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 17 | 27.58 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 17 | 27.58 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 17 | 27.57 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 17 | 27.57 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 17 | 27.57 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 10 | 27.55 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 7 | 27.55 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 7 | 27.55 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 7 | 27.55 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 7 | 27.55 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 7 | 27.55 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 7 | 27.55 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 7 | 27.55 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 7 | 27.55 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 7 | 27.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 17 | 27.52 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 7 | 27.52 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 7 | 27.52 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 6 | 27.52 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 6 | 27.52 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 6 | 27.52 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 6 | 27.52 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 6 | 27.52 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 6 | 27.52 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 1 | 27.52 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 1 | 27.52 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 1 | 27.52 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 1 | 27.52 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 1 | 27.52 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 1 | 27.52 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 1 | 27.52 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 1 | 27.52 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 1 | 27.52 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 10 | 27.5 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 10 | 27.5 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 10 | 27.5 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 6 | 27.49 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 6 | 27.49 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 6 | 27.49 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 6 | 27.49 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 3 | 27.49 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 3 | 27.49 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 3 | 27.49 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 3 | 27.49 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 3 | 27.49 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 3 | 27.49 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 7 | 27.48 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 10 | 27.48 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 15 | 27.46 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 19 | 27.46 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 14 | 27.46 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 10 | 27.44 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 3 | 27.44 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 7 | 27.44 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 7 | 27.44 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 7 | 27.44 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 7 | 27.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 7 | 27.44 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 7 | 27.44 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 7 | 27.44 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 7 | 27.44 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 7 | 27.44 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 17 | 27.43 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 1 | 27.42 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 1 | 27.42 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 1 | 27.42 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 6 | 27.4 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 17 | 27.39 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 14 | 27.39 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 3 | 27.39 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 15 | 27.37 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 15 | 27.37 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 15 | 27.37 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 15 | 27.37 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 15 | 27.37 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 15 | 27.37 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 15 | 27.37 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 15 | 27.37 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 15 | 27.37 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 15 | 27.37 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 15 | 27.37 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 15 | 27.37 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 15 | 27.37 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 15 | 27.37 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 15 | 27.37 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 15 | 27.37 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 15 | 27.37 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 15 | 27.37 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 15 | 27.37 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 15 | 27.37 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 15 | 27.37 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 7 | 27.34 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 7 | 27.34 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 7 | 27.34 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 7 | 27.34 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 7 | 27.34 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 7 | 27.34 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 7 | 27.34 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 7 | 27.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 7 | 27.34 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 3 | 27.33 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 1 | 27.33 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 10 | 27.33 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 10 | 27.33 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 10 | 27.33 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 6 | 27.32 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 19 | 27.3 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 19 | 27.3 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 1 | 27.29 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 1 | 27.29 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 17 | 27.27 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 14 | 27.26 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 6 | 27.26 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 6 | 27.26 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 6 | 27.26 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 1 | 27.25 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 17 | 27.25 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 17 | 27.25 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 17 | 27.25 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 11 | 27.23 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 11 | 27.23 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 11 | 27.23 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 11 | 27.23 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 11 | 27.23 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 11 | 27.23 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 11 | 27.23 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 11 | 27.23 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 11 | 27.23 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 11 | 27.23 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 11 | 27.23 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 11 | 27.23 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 11 | 27.23 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 11 | 27.23 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 11 | 27.23 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 11 | 27.23 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 11 | 27.23 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 11 | 27.23 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 6 | 27.23 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 6 | 27.23 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 6 | 27.23 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 11 | 27.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 11 | 27.21 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 11 | 27.21 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 3 | 27.21 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 3 | 27.21 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 3 | 27.21 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 19 | 27.2 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 14 | 27.2 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 10 | 27.2 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 10 | 27.2 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 7 | 27.19 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 7 | 27.19 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 7 | 27.19 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 14 | 27.18 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 14 | 27.18 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 14 | 27.18 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 1 | 27.18 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 1 | 27.18 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 1 | 27.18 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 1 | 27.18 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 1 | 27.18 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 1 | 27.18 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 1 | 27.18 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 1 | 27.18 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 1 | 27.18 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 15 | 27.14 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 15 | 27.14 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 15 | 27.14 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 14 | 27.13 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 1 | 27.13 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 1 | 27.13 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 1 | 27.13 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 11 | 27.12 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 15 | 27.12 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 15 | 27.12 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 15 | 27.12 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 15 | 27.12 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 15 | 27.12 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 15 | 27.12 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 15 | 27.12 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 15 | 27.12 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 15 | 27.12 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 15 | 27.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 15 | 27.12 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 15 | 27.12 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 15 | 27.12 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 15 | 27.12 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 15 | 27.12 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 15 | 27.12 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 15 | 27.12 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 15 | 27.12 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 19 | 27.11 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 17 | 27.1 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 3 | 27.09 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 15 | 27.04 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 15 | 27.04 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 17 | 27.03 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 1 | 27.02 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 6 | 27.01 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 7 | 26.99 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 6 | 26.98 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 6 | 26.98 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 17 | 26.95 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 19 | 26.94 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 11 | 26.91 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 14 | 26.91 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 14 | 26.91 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 14 | 26.91 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 19 | 26.91 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 19 | 26.91 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 19 | 26.91 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 19 | 26.9 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 19 | 26.9 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 19 | 26.9 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 14 | 26.88 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 1 | 26.88 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 1 | 26.88 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 1 | 26.88 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 1 | 26.88 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 1 | 26.88 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 1 | 26.88 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 1 | 26.88 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 1 | 26.88 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 1 | 26.88 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 1 | 26.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 1 | 26.88 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 1 | 26.88 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 1 | 26.88 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 1 | 26.88 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 1 | 26.88 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 1 | 26.88 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 1 | 26.88 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 1 | 26.88 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 17 | 26.87 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 17 | 26.87 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 17 | 26.87 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 6 | 26.87 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 6 | 26.87 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 6 | 26.87 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 17 | 26.87 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 17 | 26.87 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 17 | 26.87 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 6 | 26.86 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 1 | 26.86 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 1 | 26.86 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 1 | 26.86 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 1 | 26.86 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 1 | 26.86 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 1 | 26.86 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 1 | 26.86 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 1 | 26.86 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 1 | 26.86 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 17 | 26.85 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 3 | 26.85 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 10 | 26.85 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 1 | 26.85 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 1 | 26.85 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 1 | 26.85 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 1 | 26.85 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 1 | 26.85 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 1 | 26.85 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 1 | 26.85 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 1 | 26.85 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 1 | 26.85 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 6 | 26.84 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 3 | 26.82 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 19 | 26.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 17 | 26.81 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 1 | 26.81 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 1 | 26.81 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 3 | 26.76 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 3 | 26.76 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 3 | 26.76 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 3 | 26.76 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 3 | 26.76 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 3 | 26.76 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 3 | 26.76 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 3 | 26.76 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 3 | 26.76 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 3 | 26.76 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 3 | 26.76 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 3 | 26.76 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 3 | 26.76 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 3 | 26.76 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 3 | 26.76 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 3 | 26.76 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 3 | 26.76 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 3 | 26.76 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 6 | 26.74 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 15 | 26.74 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 14 | 26.74 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 14 | 26.74 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 14 | 26.74 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 3 | 26.71 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 17 | 26.71 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 17 | 26.71 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 17 | 26.71 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 7 | 26.71 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 7 | 26.71 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 7 | 26.71 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 7 | 26.71 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 7 | 26.71 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 7 | 26.71 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 7 | 26.71 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 7 | 26.71 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 7 | 26.71 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 14 | 26.67 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 6 | 26.67 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 3 | 26.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 14 | 26.67 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 7 | 26.67 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 7 | 26.67 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 7 | 26.67 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 7 | 26.67 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 7 | 26.67 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 7 | 26.67 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 7 | 26.67 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 7 | 26.67 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 7 | 26.67 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 1 | 26.66 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 10 | 26.62 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 10 | 26.62 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 10 | 26.62 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 14 | 26.62 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 14 | 26.62 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 14 | 26.62 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 14 | 26.62 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 14 | 26.62 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 14 | 26.62 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 14 | 26.62 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 14 | 26.62 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 14 | 26.62 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 15 | 26.55 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 6 | 26.53 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 11 | 26.53 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 11 | 26.53 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 11 | 26.53 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 10 | 26.51 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 11 | 26.51 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 11 | 26.51 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 11 | 26.51 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 11 | 26.51 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 11 | 26.51 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 11 | 26.51 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 11 | 26.51 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 11 | 26.5 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 7 | 26.49 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 7 | 26.49 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 7 | 26.49 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 11 | 26.48 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 14 | 26.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 3 | 26.47 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 6 | 26.46 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 17 | 26.43 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 17 | 26.43 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 17 | 26.43 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 7 | 26.41 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 17 | 26.4 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 7 | 26.4 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 14 | 26.4 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 1 | 26.38 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 6 | 26.38 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 1 | 26.38 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 7 | 26.36 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 7 | 26.36 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 7 | 26.36 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 10 | 26.36 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 10 | 26.36 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 10 | 26.36 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 14 | 26.35 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 14 | 26.34 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 3 | 26.33 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 3 | 26.31 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 3 | 26.31 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 3 | 26.31 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 14 | 26.3 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 14 | 26.3 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 14 | 26.3 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 14 | 26.3 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 14 | 26.3 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 14 | 26.3 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 14 | 26.3 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 14 | 26.3 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 14 | 26.3 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 15 | 26.29 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 15 | 26.29 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 15 | 26.29 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 15 | 26.29 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 15 | 26.29 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 15 | 26.29 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 15 | 26.29 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 15 | 26.29 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 15 | 26.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 15 | 26.29 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 15 | 26.29 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 15 | 26.29 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 15 | 26.29 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 15 | 26.29 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 15 | 26.29 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 15 | 26.29 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 15 | 26.29 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 15 | 26.29 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 10 | 26.24 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 10 | 26.21 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 11 | 26.21 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 11 | 26.21 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 11 | 26.21 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 11 | 26.21 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 11 | 26.21 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 11 | 26.21 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 1 | 26.21 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 1 | 26.21 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 1 | 26.21 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 1 | 26.21 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 1 | 26.21 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 1 | 26.21 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 1 | 26.21 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 1 | 26.21 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 1 | 26.21 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 17 | 26.2 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 17 | 26.2 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 17 | 26.2 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 3 | 26.19 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 14 | 26.18 |
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 7 | 26.18 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 7 | 26.18 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 7 | 26.18 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 6 | 26.17 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 7 | 26.15 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 7 | 26.13 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 7 | 26.13 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 7 | 26.13 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 7 | 26.13 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 7 | 26.13 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 7 | 26.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 7 | 26.13 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 7 | 26.13 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 7 | 26.13 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 6 | 26.12 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 14 | 26.11 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 3 | 26.11 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 3 | 26.11 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 3 | 26.11 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 15 | 26.1 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 17 | 26.1 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 3 | 26.09 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 3 | 26.09 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 10 | 26.07 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 15 | 26.07 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 15 | 26.07 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 15 | 26.07 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 15 | 26.07 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 15 | 26.07 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 15 | 26.07 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 15 | 26.07 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 15 | 26.07 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 15 | 26.07 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 15 | 26.07 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 15 | 26.07 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 15 | 26.07 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 15 | 26.07 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 15 | 26.07 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 15 | 26.07 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 15 | 26.07 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 15 | 26.07 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 15 | 26.07 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 15 | 26.06 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 15 | 26.03 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 10 | 26.02 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 14 | 26.0 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 17 | 26.0 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 17 | 26.0 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 10 | 26.0 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 10 | 26.0 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 10 | 26.0 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 17 | 25.99 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 10 | 25.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 10 | 25.96 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 10 | 25.96 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 11 | 25.92 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 11 | 25.92 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 11 | 25.92 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 11 | 25.92 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 11 | 25.92 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 11 | 25.92 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 11 | 25.92 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 11 | 25.92 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 11 | 25.92 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 11 | 25.92 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 11 | 25.92 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 11 | 25.92 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 11 | 25.92 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 11 | 25.92 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 11 | 25.92 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 11 | 25.92 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 11 | 25.92 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 11 | 25.92 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 17 | 25.9 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 17 | 25.9 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 17 | 25.9 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 17 | 25.9 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 17 | 25.9 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 17 | 25.9 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 17 | 25.9 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 17 | 25.9 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 17 | 25.9 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 17 | 25.9 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 17 | 25.9 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 17 | 25.9 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 17 | 25.9 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 17 | 25.9 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 17 | 25.9 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 17 | 25.9 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 17 | 25.9 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 17 | 25.9 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 10 | 25.87 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 19 | 25.86 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 19 | 25.86 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 19 | 25.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 19 | 25.86 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 19 | 25.86 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 19 | 25.86 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 1 | 25.85 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 17 | 25.83 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 14 | 25.83 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 19 | 25.81 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 14 | 25.78 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 1 | 25.78 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 11 | 25.76 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 7 | 25.76 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 3 | 25.71 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 3 | 25.69 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 7 | 25.67 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 6 | 25.65 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 6 | 25.65 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 6 | 25.65 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 19 | 25.65 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 19 | 25.65 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 19 | 25.65 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 19 | 25.65 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 19 | 25.65 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 19 | 25.65 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 19 | 25.65 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 19 | 25.65 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 19 | 25.65 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 19 | 25.65 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 19 | 25.65 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 19 | 25.65 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 19 | 25.65 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 19 | 25.65 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 19 | 25.65 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 19 | 25.65 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 19 | 25.65 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 19 | 25.65 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 19 | 25.62 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 19 | 25.62 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 19 | 25.62 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 14 | 25.58 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 10 | 25.57 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 6 | 25.57 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 15 | 25.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 15 | 25.57 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 15 | 25.57 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 17 | 25.57 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 17 | 25.57 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 17 | 25.57 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 14 | 25.57 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 14 | 25.57 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 14 | 25.57 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 14 | 25.57 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 14 | 25.57 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 14 | 25.57 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 14 | 25.57 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 14 | 25.57 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 14 | 25.57 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 14 | 25.57 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 14 | 25.57 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 14 | 25.57 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 14 | 25.57 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 14 | 25.57 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 14 | 25.57 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 14 | 25.57 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 14 | 25.57 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 14 | 25.57 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 15 | 25.55 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 10 | 25.55 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 10 | 25.55 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 10 | 25.55 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 15 | 25.55 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 15 | 25.55 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 15 | 25.55 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 15 | 25.55 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 15 | 25.55 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 15 | 25.55 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 15 | 25.55 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 15 | 25.55 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 15 | 25.55 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 14 | 25.53 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 6 | 25.53 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 1 | 25.5 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 1 | 25.5 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 1 | 25.5 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 15 | 25.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 15 | 25.5 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 15 | 25.5 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 15 | 25.49 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 15 | 25.49 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 6 | 25.47 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 3 | 25.46 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 15 | 25.45 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 17 | 25.45 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 17 | 25.45 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 17 | 25.45 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 17 | 25.44 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 19 | 25.43 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 19 | 25.43 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 19 | 25.43 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 19 | 25.43 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 19 | 25.43 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 19 | 25.43 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 19 | 25.43 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 19 | 25.43 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 19 | 25.43 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 19 | 25.43 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 19 | 25.43 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 19 | 25.43 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 19 | 25.43 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 19 | 25.43 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 19 | 25.43 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 19 | 25.43 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 19 | 25.43 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 19 | 25.43 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 17 | 25.42 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 10 | 25.41 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 13 | 25.4 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 3 | 25.4 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 3 | 25.39 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 14 | 25.38 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 19 | 25.37 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 19 | 25.37 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 19 | 25.37 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 3 | 25.37 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 3 | 25.37 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 3 | 25.37 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 3 | 25.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 3 | 25.37 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 3 | 25.37 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 3 | 25.37 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 3 | 25.37 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 3 | 25.37 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 19 | 25.37 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 19 | 25.37 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 19 | 25.37 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 3 | 25.37 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 3 | 25.37 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 3 | 25.37 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 3 | 25.37 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 3 | 25.37 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 3 | 25.37 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 3 | 25.37 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 3 | 25.37 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 3 | 25.37 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 15 | 25.35 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 15 | 25.35 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 15 | 25.35 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 10 | 25.35 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 10 | 25.35 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 10 | 25.35 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 6 | 25.31 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 6 | 25.31 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 6 | 25.31 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 14 | 25.31 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 14 | 25.31 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 14 | 25.31 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 14 | 25.31 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 14 | 25.31 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 14 | 25.31 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 14 | 25.31 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 14 | 25.31 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 14 | 25.31 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 17 | 25.3 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 1 | 25.3 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 6 | 25.3 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 6 | 25.3 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 6 | 25.3 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 6 | 25.3 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 6 | 25.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 6 | 25.3 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 6 | 25.3 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 6 | 25.3 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 6 | 25.3 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 6 | 25.3 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 6 | 25.3 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 6 | 25.3 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 6 | 25.3 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 6 | 25.3 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 6 | 25.3 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 6 | 25.3 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 6 | 25.3 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 6 | 25.3 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 10 | 25.29 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 14 | 25.29 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 11 | 25.29 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 11 | 25.29 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 11 | 25.29 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 11 | 25.28 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 11 | 25.28 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 6 | 25.26 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 6 | 25.26 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 6 | 25.26 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 3 | 25.25 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 6 | 25.25 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 6 | 25.25 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 6 | 25.25 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 10 | 25.23 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 10 | 25.23 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 15 | 25.23 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 15 | 25.23 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 15 | 25.23 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 15 | 25.23 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 15 | 25.23 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 15 | 25.23 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 15 | 25.23 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 15 | 25.23 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 15 | 25.23 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 3 | 25.21 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 3 | 25.21 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 3 | 25.21 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 7 | 25.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 10 | 25.18 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 3 | 25.18 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 3 | 25.18 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 3 | 25.18 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 14 | 25.17 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 17 | 25.17 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 12 | 25.14 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 3 | 25.13 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 16 | 25.11 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 19 | 25.1 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 14 | 25.1 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 14 | 25.1 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 14 | 25.1 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 14 | 25.1 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 14 | 25.1 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 14 | 25.1 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 14 | 25.1 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 14 | 25.1 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 14 | 25.1 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 14 | 25.1 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 14 | 25.1 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 14 | 25.1 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 14 | 25.1 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 14 | 25.1 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 14 | 25.1 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 14 | 25.1 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 14 | 25.1 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 14 | 25.1 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 1 | 25.09 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 1 | 25.09 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 10 | 25.09 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 3 | 25.07 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 6 | 25.05 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 11 | 25.04 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 17 | 25.02 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 6 | 24.99 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 10 | 24.99 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 10 | 24.97 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 7 | 24.95 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 1 | 24.94 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 15 | 24.92 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 6 | 24.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 19 | 24.9 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 19 | 24.9 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 19 | 24.9 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 14 | 24.88 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 7 | 24.88 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 14 | 24.88 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 15 | 24.87 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 14 | 24.87 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 14 | 24.87 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 14 | 24.87 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 3 | 24.84 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 3 | 24.83 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 3 | 24.83 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 6 | 24.78 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 10 | 24.78 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 14 | 24.78 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 14 | 24.78 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 14 | 24.78 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 11 | 24.77 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 11 | 24.77 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 11 | 24.77 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 11 | 24.77 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 11 | 24.77 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 11 | 24.77 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 11 | 24.75 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 4 | 24.75 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 14 | 24.74 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 7 | 24.74 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 16 | 24.74 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 6 | 24.74 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 6 | 24.74 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 6 | 24.74 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 14 | 24.74 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 14 | 24.74 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 14 | 24.74 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 6 | 24.73 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 10 | 24.72 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 19 | 24.72 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 10 | 24.71 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 10 | 24.71 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 10 | 24.71 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 10 | 24.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 10 | 24.71 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 10 | 24.71 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 10 | 24.71 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 10 | 24.71 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 10 | 24.71 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 10 | 24.71 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 10 | 24.71 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 10 | 24.71 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 10 | 24.71 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 10 | 24.71 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 10 | 24.71 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 10 | 24.71 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 10 | 24.71 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 10 | 24.71 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 3 | 24.7 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 17 | 24.7 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 7 | 24.65 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 7 | 24.65 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 1 | 24.64 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 17 | 24.64 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 14 | 24.62 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 10 | 24.62 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 10 | 24.62 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 10 | 24.62 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 15 | 24.62 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 15 | 24.62 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 15 | 24.62 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 15 | 24.62 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 15 | 24.62 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 15 | 24.62 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 15 | 24.62 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 15 | 24.62 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 15 | 24.62 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 6 | 24.6 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 8 | 24.6 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 17 | 24.6 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 17 | 24.6 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 17 | 24.6 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 1 | 24.59 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 11 | 24.59 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 15 | 24.58 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 6 | 24.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 15 | 24.57 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 10 | 24.57 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 14 | 24.56 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 14 | 24.56 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 14 | 24.56 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 19 | 24.56 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 19 | 24.56 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 19 | 24.56 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 14 | 24.55 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 3 | 24.55 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 15 | 24.54 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 15 | 24.54 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 15 | 24.54 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 15 | 24.54 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 15 | 24.54 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 15 | 24.54 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 15 | 24.54 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 15 | 24.54 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 15 | 24.54 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 3 | 24.53 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 3 | 24.53 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 3 | 24.53 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 10 | 24.52 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 10 | 24.52 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 10 | 24.52 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 10 | 24.52 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 10 | 24.52 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 10 | 24.52 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 10 | 24.52 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 10 | 24.52 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 10 | 24.52 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 10 | 24.52 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 10 | 24.52 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 10 | 24.52 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 10 | 24.52 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 10 | 24.52 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 10 | 24.52 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 10 | 24.52 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 10 | 24.52 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 10 | 24.52 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 1 | 24.51 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 17 | 24.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 17 | 24.49 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 17 | 24.49 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 10 | 24.48 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 11 | 24.48 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 11 | 24.48 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 11 | 24.48 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 11 | 24.48 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 11 | 24.48 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 11 | 24.48 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 11 | 24.48 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 11 | 24.48 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 11 | 24.48 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 15 | 24.47 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 15 | 24.47 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 3 | 24.46 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 6 | 24.45 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 7 | 24.43 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 14 | 24.43 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 17 | 24.42 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 6 | 24.41 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 6 | 24.41 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 10 | 24.41 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 1 | 24.39 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 14 | 24.39 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 14 | 24.39 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 14 | 24.39 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 19 | 24.39 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 19 | 24.39 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 19 | 24.39 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 19 | 24.39 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 19 | 24.39 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 19 | 24.39 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 1 | 24.37 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 1 | 24.37 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 1 | 24.37 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 1 | 24.37 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 1 | 24.37 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 1 | 24.37 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 1 | 24.37 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 1 | 24.37 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 1 | 24.37 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 14 | 24.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 10 | 24.35 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 17 | 24.35 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 1 | 24.35 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 11 | 24.35 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 11 | 24.35 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 11 | 24.35 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 11 | 24.35 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 11 | 24.35 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 11 | 24.35 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 11 | 24.35 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 11 | 24.35 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 11 | 24.35 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 15 | 24.34 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 15 | 24.34 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 15 | 24.34 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 15 | 24.34 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 15 | 24.34 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 15 | 24.34 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 15 | 24.34 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 15 | 24.34 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 15 | 24.34 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 15 | 24.33 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 15 | 24.32 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 3 | 24.31 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 3 | 24.31 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 3 | 24.31 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 11 | 24.29 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 10 | 24.29 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 7 | 24.28 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 14 | 24.28 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 17 | 24.28 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 17 | 24.28 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 17 | 24.28 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 3 | 24.26 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 3 | 24.26 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 3 | 24.26 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 3 | 24.26 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 3 | 24.26 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 3 | 24.26 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 3 | 24.26 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 3 | 24.26 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 3 | 24.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 3 | 24.26 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 3 | 24.26 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 3 | 24.26 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 3 | 24.26 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 3 | 24.26 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 3 | 24.26 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 3 | 24.26 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 3 | 24.26 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 3 | 24.26 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 6 | 24.25 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 11 | 24.21 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 19 | 24.21 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 6 | 24.2 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 11 | 24.2 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 11 | 24.2 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 11 | 24.2 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 13 | 24.19 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 19 | 24.18 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 3 | 24.16 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 6 | 24.15 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 11 | 24.13 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 6 | 24.13 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 1 | 24.13 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 1 | 24.13 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 1 | 24.13 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 1 | 24.13 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 1 | 24.13 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 1 | 24.13 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 1 | 24.13 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 1 | 24.13 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 1 | 24.13 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 10 | 24.12 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 11 | 24.12 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 6 | 24.12 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 8 | 24.12 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 6 | 24.1 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 10 | 24.09 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 10 | 24.08 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 3 | 24.07 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 3 | 24.07 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 17 | 24.06 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 17 | 24.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 1 | 24.06 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 1 | 24.06 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 1 | 24.06 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 10 | 24.05 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 10 | 24.05 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 10 | 24.05 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 10 | 24.05 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 10 | 24.05 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 10 | 24.05 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 10 | 24.05 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 10 | 24.05 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 10 | 24.05 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 10 | 24.05 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 10 | 24.05 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 10 | 24.05 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 10 | 24.05 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 10 | 24.05 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 10 | 24.05 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 10 | 24.05 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 10 | 24.05 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 10 | 24.05 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 10 | 24.05 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 10 | 24.05 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 10 | 24.05 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 14 | 24.03 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 14 | 24.03 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 11 | 24.03 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 11 | 24.03 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 11 | 24.03 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 11 | 24.03 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 11 | 24.03 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 11 | 24.03 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 11 | 24.03 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 11 | 24.03 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 11 | 24.03 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 10 | 24.01 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 3 | 24.01 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 3 | 24.01 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 3 | 24.01 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 3 | 24.01 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 3 | 24.01 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 3 | 24.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 3 | 24.01 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 3 | 24.01 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 3 | 24.01 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 9 | 24.0 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 1 | 24.0 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 1 | 24.0 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 1 | 24.0 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 6 | 23.99 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 7 | 23.98 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 7 | 23.98 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 7 | 23.98 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 7 | 23.97 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 11 | 23.97 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 3 | 23.96 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 17 | 23.95 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 17 | 23.95 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 17 | 23.95 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 17 | 23.95 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 17 | 23.95 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 17 | 23.95 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 17 | 23.95 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 17 | 23.95 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 17 | 23.95 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 14 | 23.93 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 14 | 23.93 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 17 | 23.92 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 7 | 23.9 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 14 | 23.89 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 14 | 23.89 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 14 | 23.89 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 14 | 23.89 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 14 | 23.89 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 14 | 23.89 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 14 | 23.89 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 14 | 23.89 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 14 | 23.89 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 3 | 23.88 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 3 | 23.88 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 3 | 23.88 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 3 | 23.88 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 3 | 23.88 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 3 | 23.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 3 | 23.88 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 3 | 23.88 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 3 | 23.88 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 3 | 23.88 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 3 | 23.88 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 3 | 23.88 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 3 | 23.88 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 3 | 23.88 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 3 | 23.88 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 3 | 23.88 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 3 | 23.88 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 3 | 23.88 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 19 | 23.86 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 19 | 23.86 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 19 | 23.86 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 19 | 23.86 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 19 | 23.86 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 19 | 23.86 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 19 | 23.86 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 19 | 23.86 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 19 | 23.86 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 10 | 23.85 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 1 | 23.84 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 15 | 23.83 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 10 | 23.83 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 10 | 23.83 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 10 | 23.83 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 10 | 23.82 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 17 | 23.81 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 1 | 23.81 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 11 | 23.81 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 6 | 23.81 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 6 | 23.81 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 6 | 23.81 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 14 | 23.8 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 3 | 23.8 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 3 | 23.8 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 3 | 23.8 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 3 | 23.8 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 3 | 23.8 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 3 | 23.8 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 3 | 23.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 3 | 23.8 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 3 | 23.8 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 1 | 23.76 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 1 | 23.76 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 14 | 23.76 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 10 | 23.75 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 13 | 23.74 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 7 | 23.74 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 7 | 23.74 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 17 | 23.73 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 15 | 23.73 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 19 | 23.71 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 19 | 23.71 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 19 | 23.7 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 9 | 23.7 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 15 | 23.7 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 15 | 23.7 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 15 | 23.7 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 12 | 23.67 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 15 | 23.67 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 15 | 23.67 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 15 | 23.67 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 15 | 23.67 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 15 | 23.67 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 15 | 23.67 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 15 | 23.67 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 15 | 23.67 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 15 | 23.67 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 11 | 23.66 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 17 | 23.66 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 17 | 23.66 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 17 | 23.66 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 17 | 23.66 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 17 | 23.66 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 17 | 23.66 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 17 | 23.66 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 17 | 23.66 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 17 | 23.66 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 17 | 23.66 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 17 | 23.66 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 17 | 23.66 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 17 | 23.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 17 | 23.66 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 17 | 23.66 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 17 | 23.66 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 17 | 23.66 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 17 | 23.66 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 14 | 23.65 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 18 | 23.65 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 9 | 23.64 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 11 | 23.64 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 11 | 23.64 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 11 | 23.64 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 11 | 23.64 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 11 | 23.64 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 11 | 23.64 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 11 | 23.64 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 11 | 23.64 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 11 | 23.64 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 11 | 23.64 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 11 | 23.64 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 11 | 23.64 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 11 | 23.64 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 11 | 23.64 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 11 | 23.64 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 11 | 23.64 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 11 | 23.64 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 11 | 23.64 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 7 | 23.63 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 14 | 23.62 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 14 | 23.62 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 14 | 23.62 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 14 | 23.62 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 14 | 23.62 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 14 | 23.62 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 14 | 23.62 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 14 | 23.62 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 14 | 23.62 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 7 | 23.6 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 17 | 23.6 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 3 | 23.6 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 11 | 23.6 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 11 | 23.6 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 11 | 23.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 10 | 23.59 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 15 | 23.59 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 11 | 23.57 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 14 | 23.57 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 14 | 23.57 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 14 | 23.57 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 14 | 23.57 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 14 | 23.57 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 14 | 23.57 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 14 | 23.57 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 14 | 23.57 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 14 | 23.57 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 19 | 23.56 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 10 | 23.56 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 15 | 23.55 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 15 | 23.55 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 15 | 23.55 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 19 | 23.55 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 19 | 23.55 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 19 | 23.55 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 12 | 23.54 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 10 | 23.54 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 10 | 23.54 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 10 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 19 | 23.54 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 19 | 23.54 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 3 | 23.51 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 6 | 23.5 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 15 | 23.5 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 15 | 23.5 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 15 | 23.5 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 6 | 23.49 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 6 | 23.49 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 6 | 23.49 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 6 | 23.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 6 | 23.49 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 6 | 23.49 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 6 | 23.49 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 6 | 23.49 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 6 | 23.49 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 6 | 23.49 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 6 | 23.49 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 6 | 23.49 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 6 | 23.49 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 6 | 23.49 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 6 | 23.49 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 6 | 23.49 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 6 | 23.49 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 6 | 23.49 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 3 | 23.48 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 19 | 23.48 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 15 | 23.48 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 17 | 23.48 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 3 | 23.48 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 3 | 23.48 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 3 | 23.48 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 3 | 23.48 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 3 | 23.48 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 3 | 23.48 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 3 | 23.48 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 3 | 23.48 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 3 | 23.48 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 8 | 23.47 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 8 | 23.47 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 17 | 23.47 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 17 | 23.47 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 17 | 23.47 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 17 | 23.47 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 17 | 23.47 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 17 | 23.47 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 17 | 23.47 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 17 | 23.47 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 17 | 23.47 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 17 | 23.47 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 17 | 23.47 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 17 | 23.47 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 17 | 23.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 17 | 23.47 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 17 | 23.47 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 17 | 23.47 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 17 | 23.47 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 17 | 23.47 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 11 | 23.46 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 6 | 23.43 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 6 | 23.43 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 3 | 23.43 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 1 | 23.43 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 7 | 23.42 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 7 | 23.4 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 6 | 23.39 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 5 | 23.38 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 10 | 23.37 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 14 | 23.37 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 14 | 23.37 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 19 | 23.37 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 19 | 23.37 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 19 | 23.37 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 19 | 23.37 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 19 | 23.37 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 19 | 23.37 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 19 | 23.37 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 19 | 23.37 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 19 | 23.37 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 19 | 23.37 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 19 | 23.37 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 19 | 23.37 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 19 | 23.37 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 19 | 23.37 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 19 | 23.37 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 19 | 23.37 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 19 | 23.37 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 19 | 23.37 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 17 | 23.36 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 15 | 23.35 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 15 | 23.35 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 6 | 23.35 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 6 | 23.35 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 6 | 23.35 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 6 | 23.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 6 | 23.35 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 6 | 23.35 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 6 | 23.35 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 6 | 23.35 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 6 | 23.35 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 11 | 23.33 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 3 | 23.31 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 6 | 23.31 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 6 | 23.31 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 6 | 23.31 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 6 | 23.31 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 6 | 23.31 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 6 | 23.31 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 6 | 23.31 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 6 | 23.31 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 6 | 23.31 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 6 | 23.31 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 6 | 23.31 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 6 | 23.31 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 6 | 23.31 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 6 | 23.31 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 6 | 23.31 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 6 | 23.31 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 6 | 23.31 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 6 | 23.31 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 1 | 23.3 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 11 | 23.28 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 17 | 23.28 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 17 | 23.28 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 17 | 23.28 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 17 | 23.28 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 17 | 23.28 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 17 | 23.28 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 17 | 23.28 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 17 | 23.28 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 17 | 23.28 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 1 | 23.27 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 19 | 23.27 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 16 | 23.27 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 14 | 23.26 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 10 | 23.25 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 6 | 23.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 6 | 23.24 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 6 | 23.24 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 1 | 23.23 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 11 | 23.22 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 15 | 23.2 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 15 | 23.2 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 15 | 23.2 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 15 | 23.2 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 15 | 23.2 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 15 | 23.2 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 15 | 23.2 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 15 | 23.2 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 15 | 23.2 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 11 | 23.19 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 7 | 23.19 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 2 | 23.19 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 9 | 23.19 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 15 | 23.18 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 3 | 23.17 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 3 | 23.16 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 17 | 23.15 |
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 14 | 23.15 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 14 | 23.15 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 14 | 23.15 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 3 | 23.14 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 6 | 23.14 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 6 | 23.14 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 6 | 23.14 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 6 | 23.14 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 6 | 23.14 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 6 | 23.14 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 6 | 23.14 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 6 | 23.14 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 6 | 23.14 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 6 | 23.14 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 6 | 23.14 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 6 | 23.14 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 6 | 23.14 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 6 | 23.14 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 6 | 23.14 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 6 | 23.14 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 6 | 23.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 6 | 23.14 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 1 | 23.08 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 17 | 23.07 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 17 | 23.07 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 3 | 23.06 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 11 | 23.06 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 11 | 23.06 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 11 | 23.06 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 11 | 23.06 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 11 | 23.06 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 11 | 23.06 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 11 | 23.06 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 11 | 23.06 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 11 | 23.06 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 6 | 23.05 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 19 | 23.05 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 3 | 23.05 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 3 | 23.05 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 3 | 23.05 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 11 | 23.03 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 3 | 23.03 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 3 | 23.03 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 16 | 23.02 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 10 | 23.01 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 10 | 23.01 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 11 | 23.01 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 10 | 23.01 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 8 | 23.0 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 19 | 22.99 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 19 | 22.99 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 10 | 22.97 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 14 | 22.97 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 11 | 22.97 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 3 | 22.95 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 14 | 22.95 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 14 | 22.95 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 14 | 22.95 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 14 | 22.95 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 14 | 22.95 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 14 | 22.95 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 14 | 22.95 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 14 | 22.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 14 | 22.95 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 10 | 22.95 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 10 | 22.95 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 10 | 22.95 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 10 | 22.95 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 10 | 22.95 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 10 | 22.95 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 10 | 22.95 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 10 | 22.95 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 10 | 22.95 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 10 | 22.94 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 11 | 22.93 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 17 | 22.93 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 17 | 22.9 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 3 | 22.9 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 3 | 22.9 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 3 | 22.9 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 3 | 22.9 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 19 | 22.9 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 19 | 22.9 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 19 | 22.9 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 19 | 22.9 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 19 | 22.9 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 19 | 22.9 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 19 | 22.9 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 19 | 22.9 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 19 | 22.9 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 17 | 22.89 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 15 | 22.89 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 2 | 22.88 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 4 | 22.88 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 19 | 22.87 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 14 | 22.87 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 19 | 22.85 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 3 | 22.84 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 1 | 22.83 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 1 | 22.78 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 6 | 22.77 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 6 | 22.77 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 16 | 22.77 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 7 | 22.76 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 7 | 22.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 3 | 22.76 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 19 | 22.76 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 19 | 22.76 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 19 | 22.76 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 10 | 22.76 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 10 | 22.76 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 10 | 22.76 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 10 | 22.76 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 10 | 22.76 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 10 | 22.76 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 10 | 22.76 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 10 | 22.76 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 10 | 22.76 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 14 | 22.73 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 14 | 22.73 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 13 | 22.72 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 8 | 22.71 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 16 | 22.71 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 11 | 22.71 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 1 | 22.71 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 1 | 22.71 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 1 | 22.71 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 1 | 22.71 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 1 | 22.71 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 1 | 22.71 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 1 | 22.71 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 1 | 22.71 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 1 | 22.71 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 7 | 22.7 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 17 | 22.7 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 5 | 22.7 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 15 | 22.7 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 15 | 22.7 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 15 | 22.7 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 15 | 22.7 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 15 | 22.7 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 15 | 22.7 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 15 | 22.7 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 15 | 22.7 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 15 | 22.7 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 7 | 22.68 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 6 | 22.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 6 | 22.68 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 6 | 22.68 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 6 | 22.68 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 6 | 22.68 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 6 | 22.68 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 6 | 22.68 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 6 | 22.68 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 6 | 22.68 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 3 | 22.67 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 10 | 22.67 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 11 | 22.66 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 6 | 22.65 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 19 | 22.64 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 19 | 22.64 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 15 | 22.64 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 3 | 22.63 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 10 | 22.63 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 10 | 22.63 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 10 | 22.63 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 10 | 22.63 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 10 | 22.63 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 10 | 22.63 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 10 | 22.63 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 10 | 22.63 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 10 | 22.63 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 10 | 22.62 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 2 | 22.62 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 11 | 22.61 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 7 | 22.59 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 7 | 22.59 |
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 15 | 22.59 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 15 | 22.59 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 15 | 22.59 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 17 | 22.59 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 17 | 22.59 |
| (1,7263) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 17 | 22.59 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 3 | 22.59 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 3 | 22.59 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 3 | 22.59 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 3 | 22.59 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 3 | 22.59 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 3 | 22.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 3 | 22.59 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 3 | 22.59 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 3 | 22.59 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 17 | 22.58 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 17 | 22.58 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 6 | 22.58 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 11 | 22.58 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 11 | 22.58 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 11 | 22.58 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 11 | 22.58 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 11 | 22.58 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 11 | 22.58 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 11 | 22.58 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 11 | 22.58 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 11 | 22.58 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 11 | 22.58 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 11 | 22.58 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 11 | 22.58 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 11 | 22.58 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 11 | 22.58 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 11 | 22.58 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 11 | 22.58 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 11 | 22.58 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 11 | 22.58 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 3 | 22.57 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 3 | 22.57 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 3 | 22.57 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 1 | 22.55 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 12 | 22.52 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 1 | 22.52 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 1 | 22.52 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 14 | 22.51 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 2 | 22.51 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 19 | 22.51 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 6 | 22.51 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 11 | 22.51 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 11 | 22.51 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 11 | 22.51 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 11 | 22.51 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 15 | 22.49 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 11 | 22.49 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 11 | 22.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 11 | 22.49 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 6 | 22.48 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 4 | 22.48 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 1 | 22.46 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 7 | 22.46 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 17 | 22.45 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 1 | 22.44 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 11 | 22.43 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 14 | 22.43 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 20 | 22.41 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 10 | 22.4 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 14 | 22.4 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 7 | 22.39 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 19 | 22.39 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 6 | 22.39 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 13 | 22.37 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 6 | 22.36 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 3 | 22.35 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 3 | 22.35 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 3 | 22.35 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 3 | 22.35 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 3 | 22.35 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 3 | 22.35 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 3 | 22.35 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 3 | 22.35 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 3 | 22.35 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 6 | 22.34 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 6 | 22.34 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 6 | 22.34 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 19 | 22.33 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 7 | 22.33 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 10 | 22.33 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 10 | 22.33 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 10 | 22.33 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 10 | 22.33 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 10 | 22.33 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 10 | 22.33 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 10 | 22.33 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 10 | 22.33 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 10 | 22.33 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 10 | 22.33 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 10 | 22.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 10 | 22.33 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 10 | 22.33 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 10 | 22.33 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 10 | 22.33 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 10 | 22.33 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 10 | 22.33 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 10 | 22.33 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 6 | 22.32 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 3 | 22.31 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 3 | 22.31 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 3 | 22.31 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 3 | 22.31 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 3 | 22.31 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 3 | 22.31 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 3 | 22.31 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 3 | 22.31 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 3 | 22.31 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 15 | 22.29 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 15 | 22.29 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 6 | 22.29 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 3 | 22.28 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 17 | 22.28 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 16 | 22.26 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 1 | 22.25 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 3 | 22.25 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 3 | 22.25 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 10 | 22.25 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 8 | 22.25 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 19 | 22.24 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 15 | 22.23 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 15 | 22.23 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 2 | 22.21 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 7 | 22.21 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 14 | 22.21 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 7 | 22.19 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 15 | 22.17 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 6 | 22.16 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 17 | 22.15 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 17 | 22.15 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 17 | 22.15 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 17 | 22.15 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 17 | 22.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 17 | 22.15 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 17 | 22.15 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 17 | 22.15 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 17 | 22.15 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 17 | 22.15 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 17 | 22.15 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 17 | 22.15 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 17 | 22.15 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 17 | 22.15 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 17 | 22.15 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 17 | 22.15 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 17 | 22.15 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 17 | 22.15 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 17 | 22.13 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 18 | 22.12 |
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 11 | 22.12 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 11 | 22.12 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 11 | 22.12 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 19 | 22.12 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 19 | 22.12 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 19 | 22.12 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 19 | 22.12 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 19 | 22.12 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 19 | 22.12 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 19 | 22.12 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 19 | 22.12 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 19 | 22.12 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 19 | 22.12 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 19 | 22.12 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 19 | 22.12 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 19 | 22.12 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 19 | 22.12 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 19 | 22.12 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 19 | 22.12 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 19 | 22.12 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 19 | 22.12 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 1 | 22.11 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 11 | 22.11 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 11 | 22.11 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 11 | 22.11 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 11 | 22.11 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 11 | 22.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 11 | 22.11 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 11 | 22.11 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 11 | 22.11 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 11 | 22.11 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 19 | 22.11 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 19 | 22.11 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 19 | 22.11 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 11 | 22.1 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 4 | 22.09 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 20 | 22.09 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 10 | 22.09 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 10 | 22.09 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 10 | 22.09 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 10 | 22.09 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 10 | 22.09 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 10 | 22.09 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 10 | 22.09 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 10 | 22.09 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 10 | 22.09 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 17 | 22.09 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 17 | 22.09 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 17 | 22.09 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 17 | 22.09 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 17 | 22.09 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 17 | 22.09 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 17 | 22.09 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 17 | 22.09 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 17 | 22.09 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 17 | 22.08 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 11 | 22.07 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 11 | 22.07 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 11 | 22.07 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 4 | 22.06 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 6 | 22.06 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 10 | 22.06 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 14 | 22.04 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 17 | 22.03 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 10 | 22.02 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 14 | 22.02 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 14 | 22.02 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 14 | 22.02 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 1 | 22.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 15 | 22.0 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 1 | 22.0 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 20 | 21.99 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 11 | 21.98 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 9 | 21.95 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 15 | 21.95 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 15 | 21.95 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 15 | 21.95 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 15 | 21.95 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 15 | 21.95 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 1 | 21.95 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 17 | 21.94 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 17 | 21.94 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 17 | 21.94 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 17 | 21.94 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 17 | 21.94 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 17 | 21.94 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 17 | 21.94 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 17 | 21.94 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 17 | 21.94 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 13 | 21.93 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 17 | 21.92 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 19 | 21.92 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 11 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 6 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 6 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 6 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 6 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 6 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 6 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 6 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 6 | 21.92 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 6 | 21.92 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 11 | 21.91 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 18 | 21.89 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 10 | 21.89 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 10 | 21.89 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 10 | 21.89 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 19 | 21.86 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 19 | 21.86 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 7 | 21.84 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 11 | 21.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 19 | 21.84 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 19 | 21.84 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 19 | 21.84 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 19 | 21.84 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 19 | 21.84 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 19 | 21.84 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 19 | 21.84 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 19 | 21.84 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 19 | 21.84 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 17 | 21.82 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 10 | 21.81 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 11 | 21.81 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 11 | 21.81 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 5 | 21.81 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 11 | 21.8 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 2 | 21.79 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 3 | 21.78 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 20 | 21.78 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 15 | 21.78 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 6 | 21.78 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 6 | 21.78 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 6 | 21.78 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 6 | 21.78 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 6 | 21.78 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 6 | 21.78 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 6 | 21.78 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 6 | 21.78 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 6 | 21.78 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 17 | 21.77 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 17 | 21.77 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 17 | 21.77 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 17 | 21.77 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 17 | 21.77 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 17 | 21.77 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 17 | 21.77 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 17 | 21.77 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 17 | 21.77 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 10 | 21.76 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 10 | 21.76 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 10 | 21.76 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 16 | 21.75 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 17 | 21.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 15 | 21.73 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 17 | 21.73 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 17 | 21.73 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 17 | 21.73 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 14 | 21.73 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 14 | 21.73 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 14 | 21.73 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 14 | 21.73 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 14 | 21.73 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 14 | 21.73 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 14 | 21.73 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 14 | 21.73 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 14 | 21.73 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 14 | 21.72 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 17 | 21.72 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 7 | 21.71 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 6 | 21.7 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 8 | 21.7 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 11 | 21.7 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 11 | 21.7 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 11 | 21.7 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 7 | 21.69 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 17 | 21.69 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 11 | 21.67 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 14 | 21.67 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 9 | 21.67 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 1 | 21.64 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 13 | 21.64 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 3 | 21.64 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 3 | 21.64 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 3 | 21.64 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 3 | 21.64 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 3 | 21.64 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 3 | 21.64 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 3 | 21.64 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 3 | 21.64 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 3 | 21.64 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 15 | 21.62 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 6 | 21.6 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 6 | 21.6 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 6 | 21.6 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 6 | 21.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 6 | 21.6 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 6 | 21.6 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 6 | 21.6 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 6 | 21.6 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 6 | 21.6 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 12 | 21.59 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 4 | 21.58 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 1 | 21.58 |
| (3,757) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 19 | 21.57 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 6 | 21.55 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 11 | 21.54 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 18 | 21.54 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 8 | 21.53 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 19 | 21.52 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 2 | 21.51 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 10 | 21.51 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 9 | 21.5 |
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 3 | 21.5 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 3 | 21.5 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 3 | 21.5 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 14 | 21.48 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 19 | 21.48 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 19 | 21.48 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 19 | 21.48 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 19 | 21.48 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 19 | 21.48 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 19 | 21.48 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 19 | 21.48 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 19 | 21.48 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 19 | 21.48 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 17 | 21.47 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 15 | 21.47 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 1 | 21.45 |
| (1,7267) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 19 | 21.42 |
| (1,7267) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 19 | 21.42 |
| (1,7267) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 19 | 21.42 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 19 | 21.4 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 12 | 21.39 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 12 | 21.38 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 3 | 21.32 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 2 | 21.32 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 7 | 21.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 1 | 21.31 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 10 | 21.3 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 10 | 21.3 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 10 | 21.3 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 10 | 21.3 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 10 | 21.3 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 10 | 21.3 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 10 | 21.3 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 10 | 21.3 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 10 | 21.3 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 15 | 21.29 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 1 | 21.29 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 15 | 21.29 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 15 | 21.29 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 15 | 21.29 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 11 | 21.29 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 11 | 21.29 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 11 | 21.29 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 19 | 21.27 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 19 | 21.27 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 19 | 21.27 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 6 | 21.26 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 17 | 21.25 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 11 | 21.25 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 11 | 21.25 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 3 | 21.25 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 19 | 21.24 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 3 | 21.24 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 3 | 21.24 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 11 | 21.23 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 19 | 21.22 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 11 | 21.22 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 11 | 21.22 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 6 | 21.22 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 6 | 21.22 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 6 | 21.22 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 15 | 21.21 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 15 | 21.2 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 3 | 21.2 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 1 | 21.18 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 15 | 21.18 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 12 | 21.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 15 | 21.13 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 14 | 21.12 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 1 | 21.1 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 6 | 21.09 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 11 | 21.09 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 11 | 21.09 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 15 | 21.08 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 4 | 21.08 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 1 | 21.07 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 2 | 21.05 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 15 | 21.05 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 4 | 21.04 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 17 | 21.01 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 5 | 21.01 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 4 | 21.0 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 7 | 20.98 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 3 | 20.98 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 19 | 20.97 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 19 | 20.97 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 19 | 20.97 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 19 | 20.96 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 19 | 20.96 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 20 | 20.96 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 2 | 20.94 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 1 | 20.94 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 3 | 20.94 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 3 | 20.94 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 3 | 20.94 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 17 | 20.92 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 6 | 20.92 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 10 | 20.92 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 10 | 20.92 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 3 | 20.9 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 14 | 20.9 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 14 | 20.9 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 14 | 20.9 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 17 | 20.9 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 17 | 20.9 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 17 | 20.9 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 17 | 20.9 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 17 | 20.9 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 17 | 20.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 15 | 20.88 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 14 | 20.87 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 3 | 20.87 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 7 | 20.87 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 15 | 20.86 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 11 | 20.86 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 11 | 20.86 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 14 | 20.84 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 11 | 20.84 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 7 | 20.84 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 19 | 20.83 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 17 | 20.83 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 7 | 20.83 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 8 | 20.82 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 2 | 20.82 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 17 | 20.81 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 20 | 20.81 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 15 | 20.8 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 4 | 20.8 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 10 | 20.8 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 10 | 20.8 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 10 | 20.8 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 10 | 20.8 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 10 | 20.8 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 10 | 20.8 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 10 | 20.8 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 10 | 20.8 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 10 | 20.8 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 16 | 20.79 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 6 | 20.78 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 11 | 20.77 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 19 | 20.76 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 3 | 20.74 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 4 | 20.74 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 19 | 20.74 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 11 | 20.73 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 16 | 20.71 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 7 | 20.71 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 15 | 20.69 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 18 | 20.69 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 13 | 20.68 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 12 | 20.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 10 | 20.67 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 9 | 20.65 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 7 | 20.63 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 11 | 20.63 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 11 | 20.63 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 11 | 20.63 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 11 | 20.63 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 11 | 20.63 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 11 | 20.63 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 11 | 20.63 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 11 | 20.63 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 11 | 20.63 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 1 | 20.62 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 18 | 20.61 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 6 | 20.6 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 11 | 20.59 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 3 | 20.58 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 7 | 20.58 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 19 | 20.57 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 3 | 20.56 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 20 | 20.56 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 16 | 20.56 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 5 | 20.55 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 19 | 20.55 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 18 | 20.55 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 15 | 20.53 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 10 | 20.52 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 14 | 20.51 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 3 | 20.51 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 3 | 20.51 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 3 | 20.51 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 3 | 20.51 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 3 | 20.51 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 3 | 20.51 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 3 | 20.51 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 3 | 20.51 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 3 | 20.51 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 19 | 20.5 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 14 | 20.49 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 14 | 20.49 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 17 | 20.49 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 11 | 20.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 11 | 20.49 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 11 | 20.49 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 11 | 20.48 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 3 | 20.46 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 1 | 20.46 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 1 | 20.46 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 1 | 20.46 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 1 | 20.46 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 15 | 20.45 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 19 | 20.45 |
| (4,126) | 1:90:A:ASN:CB | 1:29:A:THR:H | 19 | 20.45 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 19 | 20.45 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 19 | 20.45 |
| (1,7269) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 19 | 20.45 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 9 | 20.42 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 6 | 20.42 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 6 | 20.42 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 6 | 20.42 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 13 | 20.41 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 6 | 20.4 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 14 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 6 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 6 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 6 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 6 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 6 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 6 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 6 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 6 | 20.39 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 6 | 20.39 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 4 | 20.38 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 15 | 20.38 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 5 | 20.36 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 8 | 20.35 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 11 | 20.35 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 10 | 20.34 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 10 | 20.34 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 3 | 20.33 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 1 | 20.33 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 15 | 20.31 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 13 | 20.31 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 6 | 20.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 10 | 20.28 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 11 | 20.27 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 11 | 20.27 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 11 | 20.27 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 11 | 20.27 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 11 | 20.27 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 11 | 20.27 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 11 | 20.27 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 11 | 20.27 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 11 | 20.27 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 7 | 20.26 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 18 | 20.26 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 10 | 20.25 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 10 | 20.25 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 19 | 20.25 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 1 | 20.25 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 11 | 20.25 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 13 | 20.25 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 17 | 20.24 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 15 | 20.24 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 15 | 20.23 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 15 | 20.23 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 4 | 20.23 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 6 | 20.22 |
| (3,146) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 6 | 20.22 |
| (3,146) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 6 | 20.22 |
| (3,146) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 6 | 20.22 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 17 | 20.21 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 14 | 20.21 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 7 | 20.21 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 1 | 20.2 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 1 | 20.2 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 11 | 20.19 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 1 | 20.19 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 17 | 20.17 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 19 | 20.17 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 19 | 20.17 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 19 | 20.17 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 19 | 20.17 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 19 | 20.17 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 19 | 20.17 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 19 | 20.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 19 | 20.17 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 19 | 20.17 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 10 | 20.16 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 17 | 20.16 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 10 | 20.15 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 19 | 20.15 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 10 | 20.15 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 10 | 20.15 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 10 | 20.15 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 19 | 20.14 |
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 10 | 20.14 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 10 | 20.14 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 10 | 20.14 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 6 | 20.13 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 14 | 20.12 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 2 | 20.12 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 15 | 20.11 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 19 | 20.11 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 19 | 20.11 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 19 | 20.11 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 19 | 20.11 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 17 | 20.1 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 17 | 20.1 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 17 | 20.1 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 17 | 20.1 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 17 | 20.1 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 17 | 20.1 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 17 | 20.1 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 17 | 20.1 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 17 | 20.1 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 16 | 20.09 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 7 | 20.09 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 3 | 20.07 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 12 | 20.07 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 10 | 20.07 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 5 | 20.06 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 5 | 20.06 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 17 | 20.05 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 17 | 20.05 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 3 | 20.05 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 11 | 20.05 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 14 | 20.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 19 | 20.04 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 19 | 20.04 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 19 | 20.04 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 16 | 20.02 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 15 | 20.02 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 10 | 20.01 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 19 | 20.0 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 19 | 20.0 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 19 | 20.0 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 19 | 20.0 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 19 | 20.0 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 19 | 20.0 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 19 | 20.0 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 19 | 20.0 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 19 | 20.0 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 6 | 20.0 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 16 | 19.96 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 11 | 19.96 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 11 | 19.96 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 11 | 19.96 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 11 | 19.96 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 11 | 19.96 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 11 | 19.96 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 11 | 19.96 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 11 | 19.96 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 11 | 19.96 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 13 | 19.95 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 16 | 19.95 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 6 | 19.95 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 6 | 19.94 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 3 | 19.94 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 6 | 19.94 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 6 | 19.94 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 17 | 19.92 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 8 | 19.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 5 | 19.91 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 8 | 19.91 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 7 | 19.91 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 7 | 19.91 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 15 | 19.9 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 6 | 19.9 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 5 | 19.9 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 17 | 19.9 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 17 | 19.9 |
| (3,754) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 17 | 19.9 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 7 | 19.89 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 7 | 19.89 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 6 | 19.89 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 8 | 19.88 |
| (4,71) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 18 | 19.88 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 10 | 19.88 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 10 | 19.88 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 10 | 19.88 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 10 | 19.88 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 10 | 19.88 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 10 | 19.88 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 10 | 19.88 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 10 | 19.88 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 10 | 19.88 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 14 | 19.87 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 12 | 19.86 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 9 | 19.86 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 1 | 19.86 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 1 | 19.86 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 11 | 19.85 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 16 | 19.84 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 15 | 19.84 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 2 | 19.84 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 8 | 19.83 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 10 | 19.82 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 10 | 19.82 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 6 | 19.82 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 15 | 19.8 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 3 | 19.8 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 6 | 19.79 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 3 | 19.79 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 3 | 19.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 3 | 19.79 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 6 | 19.78 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 5 | 19.78 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 17 | 19.78 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 15 | 19.77 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 6 | 19.77 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 11 | 19.76 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 1 | 19.75 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 2 | 19.75 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 15 | 19.73 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 20 | 19.73 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 19 | 19.73 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 1 | 19.73 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 11 | 19.73 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 8 | 19.71 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 20 | 19.7 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 9 | 19.68 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 10 | 19.67 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 7 | 19.64 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 15 | 19.64 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 12 | 19.63 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 13 | 19.6 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 1 | 19.59 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 7 | 19.59 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 1 | 19.59 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 17 | 19.58 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 11 | 19.57 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 1 | 19.57 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 6 | 19.56 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 1 | 19.56 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 3 | 19.56 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 10 | 19.55 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 7 | 19.55 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 7 | 19.55 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 2 | 19.54 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 12 | 19.54 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 16 | 19.53 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 19 | 19.52 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 19 | 19.52 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 8 | 19.5 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 3 | 19.5 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 4 | 19.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 19 | 19.5 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 19 | 19.5 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 19 | 19.5 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 19 | 19.5 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 19 | 19.5 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 19 | 19.5 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 19 | 19.5 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 19 | 19.5 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 19 | 19.5 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 19 | 19.47 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 10 | 19.47 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 3 | 19.45 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 18 | 19.45 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 9 | 19.44 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 11 | 19.43 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 15 | 19.41 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 11 | 19.41 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 10 | 19.41 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 19 | 19.4 |
| (3,794) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 19 | 19.4 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 17 | 19.4 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 17 | 19.4 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 17 | 19.4 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 17 | 19.4 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 17 | 19.4 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 17 | 19.4 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 17 | 19.4 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 17 | 19.4 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 17 | 19.4 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 11 | 19.38 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 11 | 19.38 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 11 | 19.38 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 11 | 19.38 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 15 | 19.37 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 17 | 19.36 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 17 | 19.36 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 3 | 19.35 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 15 | 19.33 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 19 | 19.33 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 11 | 19.32 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 15 | 19.29 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 6 | 19.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 17 | 19.28 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 11 | 19.28 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 12 | 19.27 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 18 | 19.25 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 7 | 19.24 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 7 | 19.24 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 5 | 19.24 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 19 | 19.23 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 19 | 19.22 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 19 | 19.22 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 7 | 19.22 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 20 | 19.2 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 19 | 19.2 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 11 | 19.19 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 1 | 19.18 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 14 | 19.18 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 14 | 19.18 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 9 | 19.18 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 7 | 19.17 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 7 | 19.17 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 15 | 19.16 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 15 | 19.16 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 9 | 19.15 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 3 | 19.13 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 7 | 19.13 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 11 | 19.12 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 10 | 19.11 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 12 | 19.11 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 8 | 19.11 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 19 | 19.11 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 6 | 19.11 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 6 | 19.11 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 5 | 19.11 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 13 | 19.09 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 10 | 19.08 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 10 | 19.08 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 10 | 19.08 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 10 | 19.08 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 7 | 19.07 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 6 | 19.07 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 8 | 19.07 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 7 | 19.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 1 | 19.05 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 9 | 19.05 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 16 | 19.04 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 14 | 19.03 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 7 | 19.02 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 20 | 19.02 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 11 | 19.0 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 17 | 19.0 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 10 | 19.0 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 11 | 19.0 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 11 | 19.0 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 11 | 19.0 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 20 | 18.99 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 4 | 18.98 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 15 | 18.97 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 13 | 18.97 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 6 | 18.97 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 6 | 18.97 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 6 | 18.97 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 6 | 18.97 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 6 | 18.97 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 6 | 18.97 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 6 | 18.97 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 6 | 18.97 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 6 | 18.97 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 3 | 18.96 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 3 | 18.96 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 3 | 18.96 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 10 | 18.96 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 10 | 18.96 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 10 | 18.96 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 10 | 18.96 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 10 | 18.96 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 10 | 18.96 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 10 | 18.96 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 10 | 18.96 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 10 | 18.96 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 14 | 18.95 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 9 | 18.92 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 15 | 18.92 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 6 | 18.91 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 6 | 18.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 1 | 18.91 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 1 | 18.9 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 1 | 18.9 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 19 | 18.89 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 11 | 18.88 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 13 | 18.86 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 15 | 18.84 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 3 | 18.84 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 3 | 18.84 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 12 | 18.82 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 4 | 18.82 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 10 | 18.81 |
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 6 | 18.81 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 6 | 18.81 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 6 | 18.81 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 10 | 18.8 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 9 | 18.79 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 5 | 18.76 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 12 | 18.75 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 7 | 18.75 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 3 | 18.74 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 3 | 18.74 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 6 | 18.74 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 18.73 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 19 | 18.72 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 3 | 18.7 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 14 | 18.68 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 16 | 18.68 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 7 | 18.66 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 11 | 18.65 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 15 | 18.65 |
| (3,753) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 19 | 18.65 |
| (3,753) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 19 | 18.65 |
| (3,753) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 19 | 18.65 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 20 | 18.62 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 3 | 18.62 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 19 | 18.6 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 1 | 18.58 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 18 | 18.58 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 17 | 18.57 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 2 | 18.56 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 9 | 18.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 15 | 18.56 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 3 | 18.55 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 11 | 18.55 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 7 | 18.55 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 14 | 18.55 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 10 | 18.54 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 15 | 18.54 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 4 | 18.54 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 10 | 18.53 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 19 | 18.53 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 15 | 18.52 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 4 | 18.52 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 13 | 18.49 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 4 | 18.49 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 11 | 18.48 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 4 | 18.48 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 3 | 18.48 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 1 | 18.47 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 10 | 18.46 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 17 | 18.46 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 19 | 18.46 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 14 | 18.46 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 9 | 18.45 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 9 | 18.44 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 17 | 18.43 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 2 | 18.43 |
| (4,287) | 1:98:A:SER:CB | 1:11:A:TRP:H | 19 | 18.42 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 19 | 18.41 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 4 | 18.4 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 6 | 18.39 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 15 | 18.39 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 4 | 18.36 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 17 | 18.36 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 17 | 18.33 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 1 | 18.33 |
| (4,232) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 1 | 18.33 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 15 | 18.3 |
| (4,291) | 1:98:A:SER:CB | 1:14:A:ARG:H | 19 | 18.3 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 5 | 18.3 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 11 | 18.3 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 16 | 18.27 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 12 | 18.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 14 | 18.26 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 13 | 18.25 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 10 | 18.24 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 5 | 18.24 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 13 | 18.23 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 7 | 18.23 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 8 | 18.22 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 16 | 18.22 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 2 | 18.22 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 14 | 18.21 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 10 | 18.2 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 19 | 18.2 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 16 | 18.2 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 17 | 18.19 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 2 | 18.18 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 9 | 18.18 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 19 | 18.18 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 6 | 18.18 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 16 | 18.16 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 17 | 18.15 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 2 | 18.15 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 7 | 18.14 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 8 | 18.14 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 3 | 18.13 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 18.13 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 4 | 18.12 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 2 | 18.11 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 6 | 18.11 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 19 | 18.11 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 7 | 18.11 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 8 | 18.11 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 10 | 18.1 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 10 | 18.1 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 10 | 18.1 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 10 | 18.1 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 15 | 18.09 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 3 | 18.06 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 8 | 18.06 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 19 | 18.05 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 16 | 18.05 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 11 | 18.04 |
| (4,124) | 1:90:A:ASN:CB | 1:27:A:HIS:H | 19 | 18.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 11 | 18.03 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 9 | 18.03 |
| (3,752) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 17 | 18.03 |
| (3,752) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 17 | 18.03 |
| (3,752) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 17 | 18.03 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 10 | 18.02 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 15 | 18.02 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 6 | 18.02 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 6 | 18.02 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 6 | 18.02 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 6 | 18.02 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 19 | 18.01 |
| (4,270) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 19 | 18.01 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 17 | 18.01 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 15 | 18.0 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 7 | 18.0 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 17 | 17.98 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 17 | 17.98 |
| (1,7257) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 17 | 17.98 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 17 | 17.98 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 17 | 17.98 |
| (1,7257) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 17 | 17.98 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 17 | 17.98 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 17 | 17.98 |
| (1,7257) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 17 | 17.98 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 13 | 17.97 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 16 | 17.97 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 15 | 17.96 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 11 | 17.95 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 11 | 17.94 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 17.92 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 12 | 17.9 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 2 | 17.89 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 12 | 17.88 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 17 | 17.88 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 10 | 17.87 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 11 | 17.87 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 19 | 17.86 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 7 | 17.86 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 8 | 17.85 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 14 | 17.84 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 7 | 17.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 14 | 17.83 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 11 | 17.82 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 19 | 17.82 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 10 | 17.82 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 20 | 17.82 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 20 | 17.82 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 9 | 17.81 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 1 | 17.8 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 14 | 17.78 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 4 | 17.78 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 5 | 17.77 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 19 | 17.76 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 17 | 17.76 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 17 | 17.76 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 8 | 17.75 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 10 | 17.75 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 16 | 17.75 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 13 | 17.74 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 13 | 17.74 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 6 | 17.73 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 2 | 17.73 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 4 | 17.71 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 5 | 17.71 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 12 | 17.7 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 20 | 17.69 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 7 | 17.69 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 14 | 17.68 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 17 | 17.68 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 13 | 17.68 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 12 | 17.66 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 7 | 17.66 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 17 | 17.66 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 8 | 17.66 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 8 | 17.66 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 19 | 17.65 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 11 | 17.63 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 3 | 17.63 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 2 | 17.63 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 16 | 17.63 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 17 | 17.63 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 11 | 17.62 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 4 | 17.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 13 | 17.62 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 14 | 17.61 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 8 | 17.61 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 7 | 17.6 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 13 | 17.6 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 4 | 17.59 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 20 | 17.59 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 12 | 17.58 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 3 | 17.56 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 3 | 17.56 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 3 | 17.56 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 3 | 17.55 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 17 | 17.55 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 15 | 17.55 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 15 | 17.55 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 14 | 17.54 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 15 | 17.54 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 10 | 17.52 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 9 | 17.52 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 15 | 17.51 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 10 | 17.5 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 10 | 17.5 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 10 | 17.5 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 7 | 17.49 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 14 | 17.49 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 6 | 17.49 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 5 | 17.48 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 3 | 17.47 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 3 | 17.47 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 10 | 17.46 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 1 | 17.46 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 9 | 17.45 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 9 | 17.45 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 16 | 17.45 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 16 | 17.44 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 13 | 17.43 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 3 | 17.43 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 19 | 17.42 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 16 | 17.42 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 6 | 17.42 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 6 | 17.42 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 8 | 17.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 19 | 17.41 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 19 | 17.41 |
| (3,755) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 19 | 17.41 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 18 | 17.39 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 18 | 17.38 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 16 | 17.37 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 7 | 17.36 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 11 | 17.36 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 6 | 17.35 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 4 | 17.34 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 19 | 17.32 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 15 | 17.32 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 17.32 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 6 | 17.31 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 15 | 17.3 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 19 | 17.29 |
| (4,309) | 1:98:A:SER:CB | 1:35:A:GLU:H | 19 | 17.29 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 9 | 17.29 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 17 | 17.27 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 2 | 17.27 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 7 | 17.25 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 10 | 17.25 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 12 | 17.24 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 14 | 17.24 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 15 | 17.23 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 11 | 17.23 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 13 | 17.23 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 1 | 17.22 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 20 | 17.22 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 19 | 17.21 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 5 | 17.21 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 17 | 17.2 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 13 | 17.19 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 11 | 17.18 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 18 | 17.17 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 16 | 17.17 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 9 | 17.17 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 12 | 17.16 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 8 | 17.16 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 20 | 17.16 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 1 | 17.15 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 17 | 17.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 12 | 17.15 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 10 | 17.14 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 6 | 17.12 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 5 | 17.12 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 4 | 17.11 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 1 | 17.1 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 11 | 17.1 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 11 | 17.08 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 2 | 17.07 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 10 | 17.06 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 16 | 17.06 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 4 | 17.06 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 4 | 17.06 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 6 | 17.05 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 11 | 17.05 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 15 | 17.05 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 11 | 17.04 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 12 | 17.04 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 4 | 17.04 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 10 | 17.03 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 13 | 17.03 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 17 | 17.03 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 5 | 17.02 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 20 | 17.02 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 9 | 17.01 |
| (4,273) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 19 | 17.01 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 2 | 17.01 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 6 | 17.01 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 7 | 17.01 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 1 | 17.01 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 6 | 17.0 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 12 | 16.99 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 9 | 16.99 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 6 | 16.98 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 19 | 16.98 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 3 | 16.98 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 1 | 16.97 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 10 | 16.97 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 4 | 16.95 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 5 | 16.95 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 15 | 16.95 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 16 | 16.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 3 | 16.91 |
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 8 | 16.91 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 12 | 16.9 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 4 | 16.9 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 15 | 16.89 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 15 | 16.89 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 19 | 16.88 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 16 | 16.88 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 12 | 16.88 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 8 | 16.87 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 13 | 16.87 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 12 | 16.83 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 7 | 16.82 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 9 | 16.81 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 6 | 16.81 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 3 | 16.78 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 13 | 16.78 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 13 | 16.78 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 18 | 16.78 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 3 | 16.77 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 16 | 16.77 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 8 | 16.76 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 14 | 16.75 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 17 | 16.75 |
| (4,122) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 19 | 16.75 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 6 | 16.75 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 17 | 16.75 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 2 | 16.74 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 15 | 16.74 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 11 | 16.73 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 19 | 16.73 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 3 | 16.72 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 11 | 16.72 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 14 | 16.72 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 16 | 16.71 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 6 | 16.71 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 16 | 16.71 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 18 | 16.7 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 3 | 16.7 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 15 | 16.69 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 7 | 16.68 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 18 | 16.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 7 | 16.68 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 4 | 16.67 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 10 | 16.66 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 16 | 16.66 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 6 | 16.66 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 4 | 16.65 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 18 | 16.65 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 18 | 16.65 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 4 | 16.64 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 9 | 16.63 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 19 | 16.63 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 3 | 16.62 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 1 | 16.61 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 11 | 16.6 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 10 | 16.59 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 17 | 16.58 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 18 | 16.58 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 14 | 16.58 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 15 | 16.58 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 8 | 16.57 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 2 | 16.56 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 6 | 16.56 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 12 | 16.55 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 20 | 16.55 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 3 | 16.54 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 9 | 16.54 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 2 | 16.53 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 12 | 16.52 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 8 | 16.52 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 1 | 16.52 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 1 | 16.52 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 18 | 16.52 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 10 | 16.51 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 7 | 16.51 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 9 | 16.51 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 14 | 16.51 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 19 | 16.5 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 10 | 16.49 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 10 | 16.49 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 12 | 16.45 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 2 | 16.44 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 18 | 16.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 11 | 16.41 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 11 | 16.41 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 8 | 16.41 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 8 | 16.4 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 5 | 16.39 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 8 | 16.38 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 12 | 16.37 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 2 | 16.37 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 5 | 16.37 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 3 | 16.36 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 6 | 16.35 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 9 | 16.34 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 12 | 16.33 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 16 | 16.32 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 20 | 16.31 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 11 | 16.31 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 15 | 16.31 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 11 | 16.3 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 16.3 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 16.3 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 16.3 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 16.3 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 11 | 16.29 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 15 | 16.29 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 12 | 16.29 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 17 | 16.28 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 19 | 16.26 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 6 | 16.26 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 11 | 16.25 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 11 | 16.25 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 15 | 16.22 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 19 | 16.21 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 20 | 16.2 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 17 | 16.18 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 17 | 16.18 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 2 | 16.17 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 2 | 16.17 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 7 | 16.17 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 16 | 16.16 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 19 | 16.16 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 14 | 16.15 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 11 | 16.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 18 | 16.12 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 14 | 16.12 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 2 | 16.12 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 6 | 16.12 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 20 | 16.11 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 20 | 16.1 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 13 | 16.09 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 9 | 16.09 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 7 | 16.09 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 14 | 16.09 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 18 | 16.08 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 19 | 16.08 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 2 | 16.08 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 2 | 16.08 |
| (4,70) | 1:15:A:MET:CB | 1:129:A:GLN:H | 18 | 16.07 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 4 | 16.07 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 1 | 16.06 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 8 | 16.06 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 6 | 16.06 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 13 | 16.06 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 16 | 16.05 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 8 | 16.05 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 15 | 16.05 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 10 | 16.04 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 15 | 16.03 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 8 | 16.02 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 1 | 16.02 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 7 | 16.02 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 7 | 16.02 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 5 | 16.01 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 17 | 16.01 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 17 | 16.01 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 17 | 16.01 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 17 | 16.01 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 6 | 16.01 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 5 | 16.0 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 20 | 16.0 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 8 | 16.0 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 3 | 15.99 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 10 | 15.98 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 4 | 15.97 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 12 | 15.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 2 | 15.96 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 14 | 15.96 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 8 | 15.96 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 14 | 15.95 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 15 | 15.94 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 4 | 15.94 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 5 | 15.94 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 8 | 15.94 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 20 | 15.93 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 12 | 15.92 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 4 | 15.91 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 7 | 15.91 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 13 | 15.91 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 14 | 15.91 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 1 | 15.9 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 16 | 15.9 |
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 9 | 15.9 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 4 | 15.89 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 3 | 15.89 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 15 | 15.89 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 11 | 15.88 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 19 | 15.88 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 9 | 15.88 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 12 | 15.87 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 8 | 15.87 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 3 | 15.86 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 11 | 15.84 |
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 13 | 15.83 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 15 | 15.83 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 9 | 15.82 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 3 | 15.82 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 3 | 15.82 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 3 | 15.82 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 2 | 15.81 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 6 | 15.8 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 3 | 15.8 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 3 | 15.8 |
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 16 | 15.8 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 15 | 15.79 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 13 | 15.79 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 13 | 15.78 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 13 | 15.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 11 | 15.78 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 13 | 15.78 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 16 | 15.77 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 6 | 15.77 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 6 | 15.77 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 16 | 15.76 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 10 | 15.76 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 15 | 15.76 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 3 | 15.76 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 15 | 15.75 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 9 | 15.74 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 3 | 15.73 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 10 | 15.73 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 7 | 15.73 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 8 | 15.72 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 1 | 15.72 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 18 | 15.72 |
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 2 | 15.71 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 8 | 15.71 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 17 | 15.7 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 17 | 15.7 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 1 | 15.7 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 15.7 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 15.7 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 3 | 15.68 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 19 | 15.67 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 7 | 15.66 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 12 | 15.66 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 9 | 15.65 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 19 | 15.65 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 3 | 15.65 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 19 | 15.64 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 1 | 15.64 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 13 | 15.63 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 7 | 15.63 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 10 | 15.63 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 10 | 15.63 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 16 | 15.63 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 5 | 15.6 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 8 | 15.6 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 9 | 15.6 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 15 | 15.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 4 | 15.59 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 6 | 15.58 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 12 | 15.57 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 6 | 15.57 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 5 | 15.56 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 16 | 15.56 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 6 | 15.56 |
| (4,298) | 1:98:A:SER:CB | 1:26:A:ASN:H | 19 | 15.55 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 19 | 15.55 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 19 | 15.55 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 16 | 15.55 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 5 | 15.55 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 13 | 15.54 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 12 | 15.54 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 12 | 15.54 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 5 | 15.53 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 6 | 15.53 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 6 | 15.52 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 6 | 15.52 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 8 | 15.51 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 17 | 15.51 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 18 | 15.51 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 1 | 15.51 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 18 | 15.51 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 5 | 15.5 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 17 | 15.5 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 4 | 15.5 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 16 | 15.49 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 15 | 15.48 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 11 | 15.47 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 18 | 15.46 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 17 | 15.45 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 11 | 15.45 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 11 | 15.45 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 3 | 15.45 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 9 | 15.45 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 3 | 15.42 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 13 | 15.42 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 13 | 15.42 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 17 | 15.41 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 17 | 15.41 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 17 | 15.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 3 | 15.39 |
| (4,244) | 1:15:A:MET:CB | 1:129:A:GLN:HE21 | 18 | 15.38 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 7 | 15.38 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 20 | 15.38 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 9 | 15.37 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 8 | 15.37 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 20 | 15.37 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 3 | 15.37 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 3 | 15.37 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 3 | 15.37 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 3 | 15.37 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 3 | 15.37 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 3 | 15.37 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 3 | 15.37 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 3 | 15.37 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 3 | 15.37 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 3 | 15.37 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 3 | 15.37 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 3 | 15.37 |
| (4,271) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 19 | 15.36 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 4 | 15.36 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 3 | 15.32 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 10 | 15.32 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 17 | 15.32 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 6 | 15.32 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 6 | 15.31 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 17 | 15.31 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 13 | 15.31 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 14 | 15.31 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 12 | 15.31 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 10 | 15.3 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 1 | 15.29 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 5 | 15.28 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 7 | 15.28 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 17 | 15.28 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 2 | 15.28 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 3 | 15.27 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 3 | 15.27 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 5 | 15.26 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 19 | 15.26 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 7 | 15.25 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 20 | 15.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 7 | 15.24 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 20 | 15.24 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 2 | 15.24 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 5 | 15.23 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 14 | 15.22 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 5 | 15.22 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 6 | 15.22 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 14 | 15.22 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 14 | 15.22 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 14 | 15.22 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 14 | 15.22 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 15 | 15.21 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 13 | 15.2 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 10 | 15.2 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 16 | 15.2 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 19 | 15.19 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 19 | 15.19 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 10 | 15.19 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 3 | 15.19 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 1 | 15.18 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 1 | 15.18 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 16 | 15.17 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 8 | 15.17 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 20 | 15.16 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 17 | 15.15 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 10 | 15.14 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 15 | 15.14 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 16 | 15.13 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 18 | 15.13 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 12 | 15.13 |
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 12 | 15.12 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 13 | 15.11 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 11 | 15.11 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 7 | 15.11 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 6 | 15.11 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 6 | 15.11 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 6 | 15.11 |
| (4,73) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 4 | 15.1 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 18 | 15.1 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 2 | 15.08 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 2 | 15.08 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 16 | 15.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 19 | 15.08 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 16 | 15.07 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 20 | 15.07 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 5 | 15.06 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 9 | 15.06 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 15 | 15.06 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 19 | 15.06 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 10 | 15.06 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 3 | 15.05 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 19 | 15.05 |
| (4,272) | 1:90:A:ASN:CB | 1:29:A:THR:H | 19 | 15.05 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 1 | 15.05 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 1 | 15.05 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 2 | 15.04 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 16 | 15.03 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 16 | 15.02 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 9 | 15.02 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 16 | 15.02 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 18 | 15.02 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 10 | 15.02 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 3 | 15.02 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 7 | 15.01 |
| (4,310) | 1:98:A:SER:CB | 1:36:A:ARG:H | 15 | 15.01 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 14 | 15.01 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 2 | 15.01 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 10 | 15.01 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 13 | 15.0 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 11 | 14.99 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 5 | 14.99 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 14 | 14.98 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 17 | 14.98 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 6 | 14.97 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 16 | 14.97 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 18 | 14.97 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 12 | 14.97 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 8 | 14.96 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 10 | 14.96 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 8 | 14.95 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 13 | 14.95 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 10 | 14.95 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 11 | 14.95 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 19 | 14.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 1 | 14.91 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 12 | 14.91 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 15 | 14.91 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 6 | 14.9 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 3 | 14.9 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 3 | 14.9 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 11 | 14.9 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 17 | 14.9 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 17 | 14.9 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 17 | 14.9 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 3 | 14.89 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 20 | 14.88 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 3 | 14.88 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 12 | 14.88 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 5 | 14.88 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 19 | 14.88 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 19 | 14.88 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 20 | 14.87 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 14 | 14.86 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 14 | 14.86 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 1 | 14.86 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 7 | 14.84 |
| (4,305) | 1:98:A:SER:CB | 1:33:A:GLN:H | 19 | 14.83 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 1 | 14.83 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 11 | 14.82 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 4 | 14.82 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 10 | 14.82 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 15 | 14.81 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 15 | 14.81 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 8 | 14.8 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 20 | 14.8 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 8 | 14.79 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 14 | 14.79 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 14 | 14.79 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 11 | 14.78 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 11 | 14.78 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 14 | 14.78 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 8 | 14.78 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 19 | 14.77 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 18 | 14.77 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 17 | 14.77 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 17 | 14.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 5 | 14.76 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 4 | 14.76 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 12 | 14.76 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 2 | 14.74 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 17 | 14.73 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 19 | 14.72 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 8 | 14.72 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 3 | 14.72 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 9 | 14.72 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 3 | 14.7 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 20 | 14.7 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 7 | 14.7 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 13 | 14.68 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 12 | 14.68 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 12 | 14.68 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 11 | 14.67 |
| (4,304) | 1:98:A:SER:CB | 1:32:A:SER:H | 19 | 14.67 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 9 | 14.67 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 15 | 14.67 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 6 | 14.66 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 9 | 14.65 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 11 | 14.65 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 10 | 14.65 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 3 | 14.64 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 7 | 14.64 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 9 | 14.63 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 4 | 14.63 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 8 | 14.63 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 4 | 14.62 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 14 | 14.62 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 14 | 14.62 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 7 | 14.62 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 12 | 14.62 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 3 | 14.61 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 9 | 14.61 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 12 | 14.61 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 7 | 14.61 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 9 | 14.6 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 8 | 14.6 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 20 | 14.59 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 14 | 14.59 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 13 | 14.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 16 | 14.57 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 8 | 14.56 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 16 | 14.56 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 16 | 14.56 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 3 | 14.56 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 3 | 14.56 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 3 | 14.56 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 16 | 14.56 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 16 | 14.56 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 13 | 14.55 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 3 | 14.55 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 3 | 14.55 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 12 | 14.53 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 14 | 14.52 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 4 | 14.52 |
| (4,288) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 19 | 14.51 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 3 | 14.51 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 11 | 14.5 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 12 | 14.49 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 7 | 14.49 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 2 | 14.49 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 1 | 14.48 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 5 | 14.47 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 7 | 14.46 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 1 | 14.46 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 11 | 14.46 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 11 | 14.46 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 1 | 14.46 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 4 | 14.45 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 9 | 14.45 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 14 | 14.44 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 19 | 14.44 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 15 | 14.43 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 7 | 14.43 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 15 | 14.42 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 3 | 14.42 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 9 | 14.4 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 9 | 14.4 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 10 | 14.4 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 15 | 14.39 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 3 | 14.39 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 11 | 14.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 19 | 14.39 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 16 | 14.38 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 6 | 14.38 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 15 | 14.37 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 4 | 14.37 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 5 | 14.37 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 4 | 14.36 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 1 | 14.36 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 12 | 14.35 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 1 | 14.35 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 15 | 14.35 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 2 | 14.35 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 10 | 14.35 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 12 | 14.34 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 20 | 14.34 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 12 | 14.34 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 12 | 14.34 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 11 | 14.33 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 14 | 14.33 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 10 | 14.33 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 17 | 14.32 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 20 | 14.32 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 10 | 14.32 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 4 | 14.31 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 7 | 14.31 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 5 | 14.3 |
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 20 | 14.3 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 13 | 14.29 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 9 | 14.28 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 5 | 14.27 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 18 | 14.27 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 18 | 14.27 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 14 | 14.27 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 4 | 14.26 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 5 | 14.26 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 14 | 14.26 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 13 | 14.26 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 15 | 14.25 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 9 | 14.24 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 17 | 14.24 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 17 | 14.24 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 19 | 14.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 11 | 14.22 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 20 | 14.22 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 8 | 14.22 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 12 | 14.22 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 10 | 14.21 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 18 | 14.21 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 2 | 14.2 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 9 | 14.19 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 4 | 14.18 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 8 | 14.18 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 20 | 14.18 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 9 | 14.18 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 9 | 14.18 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 1 | 14.17 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 2 | 14.17 |
| (4,299) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 19 | 14.16 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 11 | 14.16 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 16 | 14.15 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 19 | 14.14 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 7 | 14.14 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 7 | 14.14 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 6 | 14.14 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 17 | 14.14 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 10 | 14.14 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 10 | 14.14 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 11 | 14.13 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 5 | 14.12 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 5 | 14.12 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 18 | 14.1 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 18 | 14.1 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 9 | 14.08 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 18 | 14.08 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 9 | 14.08 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 20 | 14.07 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 12 | 14.07 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 7 | 14.06 |
| (4,72) | 1:15:A:MET:CB | 1:130:A:MET:H | 18 | 14.06 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 4 | 14.06 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 4 | 14.05 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 4 | 14.04 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 13 | 14.03 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 5 | 14.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 18 | 14.02 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 7 | 14.01 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 6 | 14.01 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 9 | 14.01 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 16 | 14.0 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 17 | 14.0 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 13 | 14.0 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 10 | 14.0 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 20 | 13.99 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 12 | 13.99 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 14 | 13.99 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 18 | 13.98 |
| (4,235) | 1:15:A:MET:CB | 1:98:A:SER:H | 14 | 13.98 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 8 | 13.98 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 3 | 13.98 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 3 | 13.98 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 3 | 13.98 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 3 | 13.97 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 14 | 13.97 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 7 | 13.97 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 2 | 13.97 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 19 | 13.96 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 14 | 13.96 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 14 | 13.96 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 16 | 13.96 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 16 | 13.96 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 19 | 13.95 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 3 | 13.95 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 3 | 13.95 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 3 | 13.95 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 13 | 13.94 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 16 | 13.94 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 12 | 13.94 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 9 | 13.93 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 9 | 13.93 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 7 | 13.93 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 11 | 13.92 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 6 | 13.92 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 13 | 13.92 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 15 | 13.92 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 14 | 13.91 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 10 | 13.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 1 | 13.91 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 2 | 13.91 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 17 | 13.91 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 5 | 13.9 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 18 | 13.9 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 13 | 13.89 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 13 | 13.89 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 3 | 13.89 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 3 | 13.89 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 3 | 13.89 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 3 | 13.89 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 1 | 13.89 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 2 | 13.88 |
| (4,301) | 1:98:A:SER:CB | 1:29:A:THR:H | 19 | 13.88 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 18 | 13.88 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 10 | 13.88 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 9 | 13.87 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 20 | 13.86 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 8 | 13.86 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 9 | 13.85 |
| (4,262) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 7 | 13.84 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 4 | 13.82 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 10 | 13.82 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 10 | 13.82 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 3 | 13.82 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 9 | 13.81 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 2 | 13.8 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 3 | 13.8 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 4 | 13.8 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 5 | 13.8 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 15 | 13.8 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 1 | 13.79 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 15 | 13.78 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 15 | 13.78 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 5 | 13.78 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 8 | 13.78 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 7 | 13.78 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 2 | 13.77 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 11 | 13.77 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 11 | 13.77 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 8 | 13.76 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 7 | 13.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 14 | 13.75 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 19 | 13.75 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 10 | 13.74 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 12 | 13.74 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 4 | 13.73 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 3 | 13.72 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 7 | 13.71 |
| (4,128) | 1:90:A:ASN:CB | 1:31:A:ALA:H | 19 | 13.71 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 2 | 13.71 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 2 | 13.71 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 10 | 13.71 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 11 | 13.7 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 14 | 13.7 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 19 | 13.7 |
| (4,296) | 1:98:A:SER:CB | 1:23:A:TYR:H | 19 | 13.69 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 7 | 13.68 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 19 | 13.67 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 3 | 13.67 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 16 | 13.66 |
| (4,274) | 1:90:A:ASN:CB | 1:33:A:GLN:H | 11 | 13.66 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 10 | 13.66 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 16 | 13.65 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 12 | 13.64 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 12 | 13.64 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 16 | 13.63 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 17 | 13.63 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 8 | 13.62 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 15 | 13.61 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 6 | 13.6 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 4 | 13.6 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 3 | 13.59 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 7 | 13.59 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 17 | 13.59 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 2 | 13.59 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 6 | 13.59 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 6 | 13.59 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 9 | 13.56 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 18 | 13.53 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 17 | 13.53 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 2 | 13.52 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 19 | 13.52 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 3 | 13.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 16 | 13.52 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 16 | 13.52 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 20 | 13.52 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 20 | 13.51 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 19 | 13.51 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 19 | 13.51 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 1 | 13.51 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 6 | 13.51 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 6 | 13.51 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 6 | 13.51 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 6 | 13.51 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 6 | 13.51 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 6 | 13.51 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 6 | 13.51 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 6 | 13.51 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 6 | 13.51 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 6 | 13.51 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 6 | 13.51 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 6 | 13.51 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 13 | 13.5 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 14 | 13.5 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 18 | 13.49 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 11 | 13.49 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 4 | 13.49 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 4 | 13.49 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 1 | 13.48 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 1 | 13.48 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 16 | 13.48 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 1 | 13.48 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 19 | 13.47 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 7 | 13.47 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 6 | 13.46 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 6 | 13.46 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 6 | 13.46 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 6 | 13.46 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 6 | 13.46 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 6 | 13.46 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 6 | 13.46 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 6 | 13.46 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 15 | 13.44 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 11 | 13.44 |
| (4,297) | 1:98:A:SER:CB | 1:25:A:PHE:H | 19 | 13.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 18 | 13.42 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 5 | 13.39 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 13 | 13.39 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 6 | 13.39 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 18 | 13.39 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 12 | 13.38 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 14 | 13.38 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 16 | 13.38 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 16 | 13.38 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 8 | 13.38 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 7 | 13.37 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 7 | 13.37 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 12 | 13.36 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 19 | 13.35 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 8 | 13.35 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 3 | 13.34 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 16 | 13.34 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 5 | 13.34 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 4 | 13.34 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 1 | 13.34 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 1 | 13.34 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 1 | 13.34 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 14 | 13.34 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 12 | 13.33 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 7 | 13.33 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 15 | 13.33 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 18 | 13.33 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 17 | 13.33 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 7 | 13.32 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 19 | 13.32 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 13 | 13.32 |
| (4,303) | 1:98:A:SER:CB | 1:31:A:ALA:H | 19 | 13.31 |
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 15 | 13.31 |
| (4,264) | 1:90:A:ASN:CB | 1:16:A:SER:H | 15 | 13.31 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 14 | 13.31 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 10 | 13.3 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 5 | 13.3 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 13 | 13.3 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 14 | 13.3 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 14 | 13.29 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 3 | 13.29 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 3 | 13.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 17 | 13.28 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 7 | 13.26 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 1 | 13.26 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 5 | 13.25 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 4 | 13.24 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 14 | 13.24 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 3 | 13.24 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 14 | 13.24 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 4 | 13.23 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 4 | 13.23 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 19 | 13.22 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 2 | 13.22 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 20 | 13.22 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 17 | 13.22 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 17 | 13.22 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 9 | 13.22 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 17 | 13.22 |
| (4,307) | 1:98:A:SER:CB | 1:34:A:TRP:H | 19 | 13.2 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 1 | 13.2 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 5 | 13.19 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 6 | 13.19 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 19 | 13.19 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 9 | 13.19 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 4 | 13.19 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 6 | 13.19 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 12 | 13.18 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 18 | 13.18 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 19 | 13.18 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 5 | 13.16 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 12 | 13.16 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 18 | 13.15 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 5 | 13.15 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 15 | 13.14 |
| (4,168) | 1:98:A:SER:CB | 1:33:A:GLN:HE22 | 15 | 13.14 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 11 | 13.14 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 12 | 13.13 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 2 | 13.13 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 15 | 13.11 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 18 | 13.11 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 13 | 13.11 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 16 | 13.11 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 2 | 13.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 4 | 13.1 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 17 | 13.1 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 8 | 13.1 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 2 | 13.09 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 2 | 13.09 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 7 | 13.09 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 15 | 13.08 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 6 | 13.08 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 8 | 13.07 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 6 | 13.07 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 11 | 13.06 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 17 | 13.06 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 17 | 13.06 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 17 | 13.06 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 17 | 13.06 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 17 | 13.06 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 17 | 13.06 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 17 | 13.06 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 17 | 13.06 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 17 | 13.06 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 17 | 13.06 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 17 | 13.06 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 17 | 13.06 |
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 20 | 13.05 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 9 | 13.05 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 19 | 13.05 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 19 | 13.05 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 9 | 13.04 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 20 | 13.03 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 12 | 13.03 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 3 | 13.03 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 5 | 13.02 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 10 | 13.02 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 19 | 13.01 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 17 | 13.0 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 9 | 12.99 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 14 | 12.99 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 7 | 12.99 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 17 | 12.98 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 17 | 12.97 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 7 | 12.97 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 2 | 12.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,268) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 11 | 12.95 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 20 | 12.95 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 13 | 12.94 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 19 | 12.93 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 4 | 12.93 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 10 | 12.92 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 3 | 12.92 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 11 | 12.91 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 16 | 12.9 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 14 | 12.89 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 3 | 12.88 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 2 | 12.88 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 7 | 12.88 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 14 | 12.88 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 20 | 12.88 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 18 | 12.88 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 1 | 12.87 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 15 | 12.87 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 8 | 12.87 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 19 | 12.87 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 11 | 12.86 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 7 | 12.86 |
| (4,69) | 1:15:A:MET:CB | 1:128:A:GLY:H | 20 | 12.85 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 13 | 12.85 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 18 | 12.85 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 7 | 12.85 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 12 | 12.84 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 8 | 12.84 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 17 | 12.84 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 12 | 12.83 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 17 | 12.83 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 3 | 12.83 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 3 | 12.83 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 3 | 12.82 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 13 | 12.82 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 14 | 12.82 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 9 | 12.82 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 3 | 12.82 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 10 | 12.82 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 10 | 12.82 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 19 | 12.81 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 8 | 12.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 15 | 12.81 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 15 | 12.81 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 15 | 12.81 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 15 | 12.81 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 15 | 12.81 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 15 | 12.81 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 15 | 12.81 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 15 | 12.81 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 8 | 12.8 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 1 | 12.79 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 6 | 12.78 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 15 | 12.77 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 16 | 12.77 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 6 | 12.77 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 6 | 12.77 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 6 | 12.77 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 6 | 12.77 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 12 | 12.75 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 6 | 12.74 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 20 | 12.74 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 16 | 12.74 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 6 | 12.74 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 6 | 12.74 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 9 | 12.73 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 19 | 12.72 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 16 | 12.71 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 3 | 12.68 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 11 | 12.68 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 12 | 12.67 |
| (4,295) | 1:98:A:SER:CB | 1:22:A:VAL:H | 14 | 12.66 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 9 | 12.66 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 10 | 12.66 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 1 | 12.65 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 1 | 12.65 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 13 | 12.65 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 6 | 12.65 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 6 | 12.65 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 6 | 12.65 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 14 | 12.65 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 20 | 12.64 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 7 | 12.63 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 9 | 12.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,321) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 18 | 12.62 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 1 | 12.62 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 9 | 12.62 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 20 | 12.62 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 20 | 12.62 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 10 | 12.61 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 18 | 12.61 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 4 | 12.59 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 12 | 12.59 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 12 | 12.59 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 17 | 12.59 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 3 | 12.58 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 17 | 12.58 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 7 | 12.57 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 15 | 12.57 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 9 | 12.57 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 11 | 12.57 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 20 | 12.55 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 3 | 12.55 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 8 | 12.53 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 6 | 12.53 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 20 | 12.53 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 20 | 12.53 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 9 | 12.52 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 13 | 12.52 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 13 | 12.52 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 16 | 12.51 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 19 | 12.51 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 13 | 12.51 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 17 | 12.51 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 9 | 12.51 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 16 | 12.51 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 10 | 12.51 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 2 | 12.51 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 2 | 12.51 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 18 | 12.49 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 8 | 12.49 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 6 | 12.49 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 19 | 12.49 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 19 | 12.48 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 1 | 12.48 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 17 | 12.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 19 | 12.48 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 11 | 12.47 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 18 | 12.47 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 15 | 12.47 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 15 | 12.47 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 8 | 12.46 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 19 | 12.46 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 5 | 12.46 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 14 | 12.46 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 20 | 12.46 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 4 | 12.45 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 12 | 12.45 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 11 | 12.44 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 3 | 12.44 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 10 | 12.44 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 15 | 12.43 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 18 | 12.42 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 18 | 12.42 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 10 | 12.42 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 5 | 12.41 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 17 | 12.41 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 3 | 12.41 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 3 | 12.41 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 3 | 12.41 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 3 | 12.41 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 3 | 12.41 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 3 | 12.41 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 13 | 12.4 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 11 | 12.4 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 12 | 12.4 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 1 | 12.4 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 8 | 12.4 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 8 | 12.4 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 5 | 12.39 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 18 | 12.39 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 12 | 12.39 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 17 | 12.38 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 19 | 12.38 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 5 | 12.38 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 3 | 12.36 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 10 | 12.35 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 10 | 12.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 10 | 12.35 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 4 | 12.35 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 9 | 12.35 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 1 | 12.35 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 19 | 12.35 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 1 | 12.35 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 15 | 12.34 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 1 | 12.34 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 15 | 12.34 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 14 | 12.34 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 9 | 12.34 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 8 | 12.33 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 8 | 12.33 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 4 | 12.32 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 13 | 12.31 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 4 | 12.31 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 14 | 12.3 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 15 | 12.29 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 4 | 12.29 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 7 | 12.29 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 2 | 12.29 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 9 | 12.28 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 18 | 12.27 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 18 | 12.27 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 11 | 12.26 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 12 | 12.25 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 2 | 12.25 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 16 | 12.24 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 16 | 12.24 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 11 | 12.24 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 11 | 12.23 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 20 | 12.22 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 6 | 12.22 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 6 | 12.22 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 6 | 12.22 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 5 | 12.21 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 6 | 12.21 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 20 | 12.21 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 1 | 12.2 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 5 | 12.2 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 10 | 12.19 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 5 | 12.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 19 | 12.18 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 15 | 12.18 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 10 | 12.17 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 7 | 12.17 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 16 | 12.16 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 8 | 12.16 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 18 | 12.15 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 4 | 12.15 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 3 | 12.15 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 17 | 12.15 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 15 | 12.14 |
| (4,260) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 15 | 12.14 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 14 | 12.14 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 19 | 12.13 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 19 | 12.13 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 18 | 12.13 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 18 | 12.13 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 3 | 12.12 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 9 | 12.12 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 14 | 12.12 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 10 | 12.12 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 10 | 12.12 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 15 | 12.12 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 15 | 12.12 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 15 | 12.12 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 15 | 12.12 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 6 | 12.11 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 6 | 12.11 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 6 | 12.11 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 8 | 12.1 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 7 | 12.1 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 5 | 12.1 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 5 | 12.1 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 5 | 12.09 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 7 | 12.08 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 19 | 12.08 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 7 | 12.07 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 2 | 12.06 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 2 | 12.06 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 15 | 12.05 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 15 | 12.04 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 12 | 12.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 8 | 12.03 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 8 | 12.03 |
| (4,294) | 1:98:A:SER:CB | 1:21:A:ARG:H | 14 | 12.01 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 4 | 12.0 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 7 | 12.0 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 8 | 11.99 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 6 | 11.99 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 17 | 11.99 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 9 | 11.99 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 12 | 11.99 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 12 | 11.99 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 12 | 11.99 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 12 | 11.99 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 12 | 11.99 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 12 | 11.99 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 12 | 11.99 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 12 | 11.99 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 12 | 11.98 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 13 | 11.98 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 13 | 11.98 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 17 | 11.96 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 20 | 11.96 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 19 | 11.95 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 7 | 11.95 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 18 | 11.95 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 18 | 11.95 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 19 | 11.95 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 19 | 11.93 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 18 | 11.93 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 16 | 11.93 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 7 | 11.93 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 14 | 11.92 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 14 | 11.92 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 5 | 11.92 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 14 | 11.91 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 6 | 11.91 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 2 | 11.91 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 18 | 11.9 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 11 | 11.9 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 13 | 11.9 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 17 | 11.9 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 17 | 11.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 17 | 11.9 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 17 | 11.9 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 18 | 11.88 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 5 | 11.87 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 5 | 11.87 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 1 | 11.87 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 9 | 11.86 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 7 | 11.86 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 2 | 11.86 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 1 | 11.86 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 16 | 11.85 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 16 | 11.85 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 18 | 11.85 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 1 | 11.83 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 2 | 11.83 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 7 | 11.82 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 5 | 11.82 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 18 | 11.82 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 1 | 11.82 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 13 | 11.82 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 4 | 11.81 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 6 | 11.81 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 10 | 11.81 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 16 | 11.81 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 2 | 11.8 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 3 | 11.8 |
| (4,263) | 1:90:A:ASN:CB | 1:15:A:MET:H | 11 | 11.8 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 8 | 11.8 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 14 | 11.8 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 4 | 11.79 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 16 | 11.78 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 13 | 11.77 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 16 | 11.77 |
| (4,66) | 1:15:A:MET:CB | 1:125:A:PHE:H | 20 | 11.77 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 15 | 11.77 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 1 | 11.77 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 1 | 11.77 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 1 | 11.77 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 1 | 11.77 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 1 | 11.77 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 1 | 11.77 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 1 | 11.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 1 | 11.77 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 1 | 11.77 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 1 | 11.77 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 1 | 11.77 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 1 | 11.77 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 14 | 11.76 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 10 | 11.76 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 3 | 11.76 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 2 | 11.76 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 2 | 11.76 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 18 | 11.75 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 7 | 11.75 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 15 | 11.73 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 19 | 11.72 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 3 | 11.72 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 7 | 11.71 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 8 | 11.71 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 7 | 11.71 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 7 | 11.69 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 20 | 11.69 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 5 | 11.69 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 8 | 11.69 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 12 | 11.69 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 19 | 11.68 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 10 | 11.68 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 8 | 11.68 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 8 | 11.68 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 8 | 11.68 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 8 | 11.68 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 14 | 11.68 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 14 | 11.68 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 13 | 11.67 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 6 | 11.67 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 3 | 11.67 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 15 | 11.66 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 20 | 11.66 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 5 | 11.65 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 17 | 11.65 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 20 | 11.64 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 16 | 11.64 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 16 | 11.64 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 10 | 11.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 10 | 11.64 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 10 | 11.64 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 10 | 11.64 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 10 | 11.64 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 10 | 11.64 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 10 | 11.64 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 10 | 11.64 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 8 | 11.63 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 16 | 11.63 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 17 | 11.62 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 14 | 11.62 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 14 | 11.62 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 18 | 11.61 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 13 | 11.61 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 8 | 11.61 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 4 | 11.6 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 1 | 11.59 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 8 | 11.59 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 19 | 11.59 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 10 | 11.59 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 10 | 11.59 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 10 | 11.59 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 10 | 11.58 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 19 | 11.57 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 10 | 11.56 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 9 | 11.56 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 8 | 11.55 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 5 | 11.55 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 7 | 11.53 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 5 | 11.53 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 5 | 11.53 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 5 | 11.53 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 1 | 11.52 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 17 | 11.52 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 12 | 11.51 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 19 | 11.5 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 15 | 11.5 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 17 | 11.49 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 17 | 11.49 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 6 | 11.49 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 6 | 11.49 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 6 | 11.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 6 | 11.49 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 5 | 11.47 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 6 | 11.47 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 17 | 11.46 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 13 | 11.46 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 9 | 11.45 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 20 | 11.45 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 5 | 11.45 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 4 | 11.45 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 5 | 11.44 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 17 | 11.44 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 17 | 11.44 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 17 | 11.44 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 18 | 11.43 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 15 | 11.42 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 15 | 11.42 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 1 | 11.42 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 7 | 11.42 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 7 | 11.42 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 13 | 11.41 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 10 | 11.41 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 9 | 11.4 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 4 | 11.4 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 9 | 11.39 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 2 | 11.39 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 15 | 11.39 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 14 | 11.38 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 17 | 11.38 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 17 | 11.38 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 6 | 11.37 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 11 | 11.37 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 10 | 11.37 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 12 | 11.36 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 7 | 11.36 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 14 | 11.36 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 20 | 11.36 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 6 | 11.35 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 8 | 11.35 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 7 | 11.35 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 3 | 11.34 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 10 | 11.34 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 1 | 11.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 12 | 11.33 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 12 | 11.33 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 11 | 11.32 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 16 | 11.32 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 16 | 11.32 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 15 | 11.32 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 12 | 11.32 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 15 | 11.32 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 18 | 11.31 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 1 | 11.31 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 18 | 11.3 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 20 | 11.3 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 12 | 11.3 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 12 | 11.3 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 12 | 11.3 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 12 | 11.3 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 12 | 11.3 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 12 | 11.3 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 12 | 11.3 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 12 | 11.29 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 10 | 11.29 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 15 | 11.27 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 16 | 11.27 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 16 | 11.26 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 3 | 11.26 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 18 | 11.26 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 18 | 11.26 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 18 | 11.26 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 12 | 11.24 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 17 | 11.24 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 17 | 11.24 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 19 | 11.23 |
| (4,267) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 11 | 11.22 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 12 | 11.22 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 11 | 11.22 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 1 | 11.22 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 1 | 11.22 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 1 | 11.22 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 1 | 11.22 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 1 | 11.22 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 1 | 11.22 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 1 | 11.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 1 | 11.22 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 4 | 11.2 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 5 | 11.2 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 10 | 11.2 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 10 | 11.2 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 7 | 11.2 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 2 | 11.19 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 20 | 11.19 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 19 | 11.19 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 16 | 11.18 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 18 | 11.18 |
| (4,231) | 1:15:A:MET:CB | 1:94:A:GLN:H | 14 | 11.17 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 11 | 11.17 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 5 | 11.17 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 2 | 11.17 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 2 | 11.17 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 2 | 11.17 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 2 | 11.17 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 19 | 11.16 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 16 | 11.15 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 18 | 11.15 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 7 | 11.15 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 13 | 11.14 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 14 | 11.14 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 2 | 11.14 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 16 | 11.14 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 15 | 11.14 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 5 | 11.14 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 9 | 11.13 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 9 | 11.13 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 18 | 11.13 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 18 | 11.13 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 16 | 11.13 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 16 | 11.13 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 1 | 11.13 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 17 | 11.13 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 17 | 11.13 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 19 | 11.12 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 18 | 11.11 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 10 | 11.11 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 1 | 11.11 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 1 | 11.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 1 | 11.11 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 19 | 11.1 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 19 | 11.1 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 18 | 11.1 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 16 | 11.1 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 16 | 11.1 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 13 | 11.09 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 19 | 11.09 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 19 | 11.09 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 19 | 11.09 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 19 | 11.09 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 5 | 11.09 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 19 | 11.09 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 19 | 11.09 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 19 | 11.09 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 19 | 11.09 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 5 | 11.09 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 7 | 11.08 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 20 | 11.08 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 6 | 11.08 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 6 | 11.08 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 10 | 11.08 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 1 | 11.07 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 14 | 11.07 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 17 | 11.06 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 17 | 11.06 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 11 | 11.05 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 13 | 11.05 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 13 | 11.05 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 11 | 11.05 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 11 | 11.05 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 16 | 11.04 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 2 | 11.04 |
| (4,312) | 1:98:A:SER:CB | 1:39:A:GLY:H | 15 | 11.03 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 7 | 11.03 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 13 | 11.03 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 11 | 11.03 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 11 | 11.03 |
| (4,40) | 1:15:A:MET:CB | 1:93:A:ILE:H | 14 | 11.02 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 20 | 11.02 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 20 | 11.02 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 1 | 11.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 1 | 11.0 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 5 | 11.0 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 5 | 11.0 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 5 | 11.0 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 5 | 11.0 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 5 | 11.0 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 9 | 10.99 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 1 | 10.99 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 2 | 10.98 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 18 | 10.97 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 15 | 10.97 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 15 | 10.97 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 19 | 10.96 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 19 | 10.96 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 16 | 10.96 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 16 | 10.96 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 20 | 10.96 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 1 | 10.96 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 1 | 10.96 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 17 | 10.96 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 7 | 10.95 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 14 | 10.95 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 12 | 10.95 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 19 | 10.95 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 19 | 10.95 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 10 | 10.95 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 10 | 10.95 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 10 | 10.95 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 10 | 10.95 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 2 | 10.94 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 18 | 10.94 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 18 | 10.94 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 18 | 10.94 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 15 | 10.93 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 17 | 10.93 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 17 | 10.93 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 13 | 10.92 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 16 | 10.92 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 1 | 10.92 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 8 | 10.91 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 5 | 10.91 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 13 | 10.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 7 | 10.91 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 1 | 10.91 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 7 | 10.91 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 12 | 10.9 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 14 | 10.9 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 14 | 10.9 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 2 | 10.89 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 19 | 10.89 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 15 | 10.89 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 18 | 10.88 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 8 | 10.88 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 9 | 10.88 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 9 | 10.88 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 14 | 10.87 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 3 | 10.86 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 8 | 10.86 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 13 | 10.86 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 6 | 10.85 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 19 | 10.85 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 15 | 10.85 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 15 | 10.85 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 15 | 10.85 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 15 | 10.85 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 15 | 10.85 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 15 | 10.85 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 3 | 10.84 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 3 | 10.84 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 16 | 10.84 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 16 | 10.84 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 15 | 10.83 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 1 | 10.83 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 17 | 10.83 |
| (4,230) | 1:15:A:MET:CB | 1:91:A:GLY:H | 1 | 10.82 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 13 | 10.82 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 12 | 10.82 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 20 | 10.82 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 7 | 10.82 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 7 | 10.82 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 7 | 10.82 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 7 | 10.82 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 7 | 10.82 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 7 | 10.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 7 | 10.82 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 7 | 10.82 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 4 | 10.81 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 4 | 10.81 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 18 | 10.81 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 16 | 10.81 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 18 | 10.81 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 14 | 10.8 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 14 | 10.8 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 14 | 10.8 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 14 | 10.8 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 14 | 10.8 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 14 | 10.8 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 14 | 10.8 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 14 | 10.8 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 17 | 10.79 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 1 | 10.79 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 1 | 10.79 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 1 | 10.78 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 3 | 10.78 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 14 | 10.77 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 4 | 10.77 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 3 | 10.75 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 3 | 10.75 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 14 | 10.75 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 14 | 10.75 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 4 | 10.74 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 4 | 10.74 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 4 | 10.74 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 4 | 10.74 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 14 | 10.74 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 12 | 10.74 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 8 | 10.73 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 7 | 10.73 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 7 | 10.73 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 7 | 10.73 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 17 | 10.73 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 17 | 10.73 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 16 | 10.72 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 8 | 10.72 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 8 | 10.72 |
| (4,6) | 1:15:A:MET:CB | 1:50:A:GLY:H | 17 | 10.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 1 | 10.72 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 1 | 10.72 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 10 | 10.72 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 10 | 10.71 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 11 | 10.71 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 10 | 10.71 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 19 | 10.7 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 10 | 10.69 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 10 | 10.69 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 12 | 10.68 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 15 | 10.68 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 2 | 10.68 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 4 | 10.68 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 5 | 10.68 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 10 | 10.68 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 10 | 10.68 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 11 | 10.67 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 13 | 10.67 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 5 | 10.67 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 5 | 10.67 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 20 | 10.66 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 4 | 10.66 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 4 | 10.66 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 13 | 10.65 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 15 | 10.65 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 17 | 10.65 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 2 | 10.65 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 4 | 10.65 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 4 | 10.65 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 4 | 10.65 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 13 | 10.65 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 4 | 10.65 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 4 | 10.65 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 4 | 10.65 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 11 | 10.64 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 11 | 10.64 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 12 | 10.64 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 12 | 10.64 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 12 | 10.64 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 12 | 10.64 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 15 | 10.64 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 15 | 10.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 7 | 10.64 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 7 | 10.64 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 17 | 10.64 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 6 | 10.64 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 8 | 10.63 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 13 | 10.63 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 7 | 10.63 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 15 | 10.63 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 7 | 10.63 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 18 | 10.62 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 9 | 10.62 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 12 | 10.62 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 18 | 10.61 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 15 | 10.61 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 2 | 10.61 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 4 | 10.61 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 10 | 10.61 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 19 | 10.6 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 8 | 10.6 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 19 | 10.59 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 18 | 10.59 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 18 | 10.59 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 18 | 10.59 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 18 | 10.59 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 10 | 10.59 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 10 | 10.59 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 7 | 10.59 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 13 | 10.58 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 14 | 10.58 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 14 | 10.58 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 15 | 10.57 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 6 | 10.57 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 13 | 10.57 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 2 | 10.57 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 11 | 10.57 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 11 | 10.57 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 12 | 10.56 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 3 | 10.55 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 3 | 10.55 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 3 | 10.55 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 3 | 10.55 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 1 | 10.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 6 | 10.55 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 6 | 10.55 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 6 | 10.55 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 6 | 10.55 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 6 | 10.55 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 6 | 10.55 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 3 | 10.55 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 3 | 10.55 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 3 | 10.55 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 3 | 10.55 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 16 | 10.54 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 20 | 10.54 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 4 | 10.54 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 9 | 10.53 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 17 | 10.53 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 1 | 10.53 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 1 | 10.53 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 1 | 10.53 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 1 | 10.53 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 17 | 10.53 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 7 | 10.53 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 11 | 10.51 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 9 | 10.51 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 12 | 10.51 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 13 | 10.5 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 9 | 10.5 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 9 | 10.5 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 9 | 10.5 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 12 | 10.49 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 13 | 10.49 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 13 | 10.49 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 15 | 10.48 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 17 | 10.48 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 6 | 10.48 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 18 | 10.47 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 18 | 10.47 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 18 | 10.47 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 18 | 10.47 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 18 | 10.47 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 18 | 10.47 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 9 | 10.46 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 9 | 10.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 17 | 10.46 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 5 | 10.45 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 15 | 10.45 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 20 | 10.45 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 20 | 10.45 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 1 | 10.45 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 1 | 10.45 |
| (4,127) | 1:90:A:ASN:CB | 1:30:A:ASN:HD21 | 19 | 10.44 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 16 | 10.44 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 18 | 10.44 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 2 | 10.44 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 2 | 10.44 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 2 | 10.44 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 2 | 10.44 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 3 | 10.43 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 13 | 10.43 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 8 | 10.42 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 17 | 10.42 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 7 | 10.42 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 7 | 10.42 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 13 | 10.42 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 13 | 10.42 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 13 | 10.42 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 6 | 10.42 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 6 | 10.42 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 6 | 10.42 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 8 | 10.42 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 8 | 10.42 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 11 | 10.41 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 16 | 10.41 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 17 | 10.41 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 1 | 10.41 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 6 | 10.41 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 6 | 10.41 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 6 | 10.41 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 2 | 10.4 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 5 | 10.4 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 16 | 10.4 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 11 | 10.4 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 15 | 10.4 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 9 | 10.4 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 19 | 10.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 19 | 10.4 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 19 | 10.4 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 19 | 10.4 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 2 | 10.39 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 6 | 10.39 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 6 | 10.39 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 6 | 10.39 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 6 | 10.39 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 16 | 10.38 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 20 | 10.38 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 12 | 10.38 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 5 | 10.38 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 7 | 10.37 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 1 | 10.37 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 17 | 10.37 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 9 | 10.37 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 14 | 10.37 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 18 | 10.37 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 8 | 10.37 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 18 | 10.37 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 11 | 10.36 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 6 | 10.36 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 8 | 10.36 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 16 | 10.36 |
| (4,245) | 1:15:A:MET:CB | 1:131:A:GLN:HE21 | 4 | 10.35 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 1 | 10.35 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 6 | 10.35 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 20 | 10.35 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 20 | 10.35 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 13 | 10.34 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 2 | 10.34 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 1 | 10.34 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 1 | 10.34 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 1 | 10.34 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 16 | 10.34 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 4 | 10.34 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 20 | 10.33 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 20 | 10.33 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 6 | 10.33 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 6 | 10.33 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 12 | 10.33 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 8 | 10.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 8 | 10.33 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 9 | 10.33 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 6 | 10.32 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 19 | 10.32 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 13 | 10.31 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 6 | 10.31 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 11 | 10.31 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 7 | 10.31 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 16 | 10.31 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 8 | 10.31 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 4 | 10.3 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 4 | 10.3 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 7 | 10.29 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 13 | 10.29 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 5 | 10.29 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 12 | 10.28 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 3 | 10.28 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 3 | 10.28 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 3 | 10.28 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 3 | 10.28 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 3 | 10.28 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 3 | 10.28 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 10 | 10.27 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 7 | 10.27 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 5 | 10.25 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 14 | 10.25 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 12 | 10.25 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 8 | 10.25 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 14 | 10.25 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 8 | 10.25 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 8 | 10.25 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 14 | 10.25 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 17 | 10.25 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 17 | 10.25 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 17 | 10.25 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 6 | 10.24 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 1 | 10.24 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 1 | 10.24 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 20 | 10.23 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 8 | 10.23 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 8 | 10.23 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 8 | 10.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 8 | 10.23 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 10 | 10.22 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 10 | 10.22 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 10 | 10.22 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 10 | 10.22 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 10 | 10.22 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 10 | 10.22 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 6 | 10.22 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 6 | 10.22 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 6 | 10.22 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 18 | 10.21 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 3 | 10.21 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 3 | 10.21 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 3 | 10.21 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 14 | 10.21 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 14 | 10.21 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 14 | 10.21 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 9 | 10.2 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 6 | 10.2 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 6 | 10.2 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 19 | 10.2 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 19 | 10.2 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 19 | 10.2 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 12 | 10.19 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 16 | 10.18 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 13 | 10.18 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 11 | 10.18 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 11 | 10.18 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 10 | 10.18 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 10 | 10.18 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 10 | 10.18 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 10 | 10.18 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 10 | 10.18 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 10 | 10.18 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 12 | 10.18 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 1 | 10.18 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 10 | 10.18 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 10 | 10.18 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 10 | 10.18 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 10 | 10.18 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 10 | 10.18 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 10 | 10.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 19 | 10.17 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 8 | 10.17 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 3 | 10.16 |
| (4,243) | 1:15:A:MET:CB | 1:126:A:SER:H | 20 | 10.16 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 4 | 10.16 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 12 | 10.16 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 5 | 10.16 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 7 | 10.16 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 7 | 10.16 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 7 | 10.16 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 7 | 10.16 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 1 | 10.16 |
| (4,269) | 1:90:A:ASN:CB | 1:25:A:PHE:H | 19 | 10.15 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 20 | 10.15 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 9 | 10.15 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 9 | 10.15 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 9 | 10.15 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 9 | 10.15 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 18 | 10.15 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 13 | 10.15 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 9 | 10.15 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 18 | 10.15 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 13 | 10.15 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 1 | 10.14 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 1 | 10.14 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 8 | 10.14 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 8 | 10.14 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 8 | 10.14 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 7 | 10.14 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 18 | 10.14 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 8 | 10.14 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 8 | 10.14 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 8 | 10.14 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 2 | 10.13 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 2 | 10.13 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 12 | 10.13 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 12 | 10.13 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 12 | 10.13 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 7 | 10.13 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 7 | 10.13 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 7 | 10.13 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 7 | 10.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 1 | 10.13 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 3 | 10.12 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 7 | 10.12 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 18 | 10.12 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 1 | 10.12 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 1 | 10.12 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 1 | 10.12 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 14 | 10.12 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 1 | 10.12 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 1 | 10.12 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 1 | 10.12 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 14 | 10.12 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 9 | 10.11 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 20 | 10.11 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 7 | 10.11 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 3 | 10.11 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 3 | 10.11 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 3 | 10.11 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 14 | 10.11 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 14 | 10.11 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 14 | 10.11 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 14 | 10.11 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 9 | 10.1 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 3 | 10.1 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 4 | 10.1 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 13 | 10.1 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 17 | 10.1 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 17 | 10.1 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 17 | 10.1 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 17 | 10.1 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 17 | 10.1 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 17 | 10.1 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 7 | 10.1 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 9 | 10.09 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 1 | 10.09 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 18 | 10.09 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 11 | 10.09 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 12 | 10.08 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 12 | 10.08 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 1 | 10.08 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 1 | 10.08 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 1 | 10.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 18 | 10.07 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 10.07 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 11 | 10.06 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 3 | 10.06 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 11 | 10.06 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 11 | 10.06 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 9 | 10.05 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 7 | 10.05 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 12 | 10.05 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 9 | 10.05 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 9 | 10.05 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 19 | 10.04 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 7 | 10.04 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 16 | 10.04 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 13 | 10.04 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 1 | 10.03 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 12 | 10.03 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 4 | 10.02 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 1 | 10.02 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 1 | 10.02 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 10 | 10.02 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 16 | 10.02 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 14 | 10.01 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 14 | 10.01 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 7 | 10.0 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 2 | 10.0 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 2 | 10.0 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 15 | 10.0 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 15 | 10.0 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 15 | 10.0 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 5 | 10.0 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 5 | 10.0 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 9 | 10.0 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 9 | 10.0 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 7 | 9.99 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 4 | 9.99 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 4 | 9.99 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 4 | 9.99 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 17 | 9.98 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 17 | 9.98 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 17 | 9.98 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 17 | 9.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 12 | 9.98 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 17 | 9.98 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 17 | 9.98 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 17 | 9.98 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 17 | 9.98 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 18 | 9.97 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 15 | 9.97 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 11 | 9.97 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 6 | 9.97 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 7 | 9.96 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 20 | 9.96 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 16 | 9.95 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 16 | 9.95 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 16 | 9.95 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 16 | 9.95 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 16 | 9.95 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 16 | 9.95 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 16 | 9.95 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 16 | 9.95 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 15 | 9.94 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 11 | 9.94 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 14 | 9.94 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 14 | 9.94 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 20 | 9.94 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 19 | 9.94 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 6 | 9.93 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 6 | 9.93 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 13 | 9.93 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 6 | 9.93 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 14 | 9.92 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 18 | 9.92 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 14 | 9.92 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 18 | 9.92 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 7 | 9.91 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 20 | 9.91 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 6 | 9.91 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 6 | 9.91 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 11 | 9.91 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 11 | 9.91 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 11 | 9.91 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 18 | 9.91 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 18 | 9.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 18 | 9.91 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 14 | 9.91 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 4 | 9.91 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 14 | 9.91 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 4 | 9.91 |
| (4,308) | 1:98:A:SER:CB | 1:34:A:TRP:HE1 | 19 | 9.9 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 14 | 9.9 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 18 | 9.9 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 17 | 9.9 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 12 | 9.9 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 12 | 9.9 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 12 | 9.9 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 12 | 9.9 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 9.9 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 9.9 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 9.9 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 19 | 9.89 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 19 | 9.89 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 5 | 9.89 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 5 | 9.89 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 5 | 9.89 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 5 | 9.89 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 2 | 9.89 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 16 | 9.89 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 16 | 9.89 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 17 | 9.89 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 17 | 9.89 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 4 | 9.88 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 15 | 9.88 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 14 | 9.88 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 14 | 9.88 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 14 | 9.88 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 12 | 9.88 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 7 | 9.88 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 10 | 9.87 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 7 | 9.87 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 18 | 9.87 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 15 | 9.87 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 20 | 9.87 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 18 | 9.87 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 16 | 9.87 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 15 | 9.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 13 | 9.86 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 1 | 9.86 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 3 | 9.86 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 3 | 9.86 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 3 | 9.86 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 3 | 9.86 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 9 | 9.85 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 14 | 9.85 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 14 | 9.85 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 14 | 9.85 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 15 | 9.85 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 15 | 9.85 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 5 | 9.84 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 6 | 9.84 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 6 | 9.84 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 18 | 9.84 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 18 | 9.84 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 1 | 9.84 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 1 | 9.84 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 14 | 9.83 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 3 | 9.83 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 7 | 9.82 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 7 | 9.82 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 12 | 9.82 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 12 | 9.82 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 4 | 9.81 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 14 | 9.81 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 12 | 9.81 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 12 | 9.81 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 12 | 9.81 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 12 | 9.81 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 12 | 9.81 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 12 | 9.81 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 19 | 9.81 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 19 | 9.81 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 10 | 9.81 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 10 | 9.81 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 10 | 9.81 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 18 | 9.81 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 13 | 9.81 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 12 | 9.81 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 12 | 9.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 12 | 9.81 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 12 | 9.81 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 12 | 9.81 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 12 | 9.81 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 8 | 9.8 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 7 | 9.8 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 18 | 9.8 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 16 | 9.8 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 16 | 9.8 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 16 | 9.8 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 1 | 9.8 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 6 | 9.8 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 6 | 9.8 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 6 | 9.8 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 1 | 9.8 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 15 | 9.79 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 20 | 9.79 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 20 | 9.79 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 20 | 9.79 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 20 | 9.79 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 4 | 9.79 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 4 | 9.79 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 4 | 9.79 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 9 | 9.79 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 4 | 9.79 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 4 | 9.79 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 4 | 9.79 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 9 | 9.79 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 14 | 9.78 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 20 | 9.78 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 3 | 9.78 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 3 | 9.78 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 1 | 9.78 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 19 | 9.78 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 19 | 9.78 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 11 | 9.78 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 11 | 9.78 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 19 | 9.78 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 18 | 9.77 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 18 | 9.77 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 19 | 9.77 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 19 | 9.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 13 | 9.77 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 14 | 9.77 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 7 | 9.76 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 3 | 9.76 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 3 | 9.76 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 15 | 9.76 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 18 | 9.76 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 15 | 9.76 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 13 | 9.76 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 8 | 9.75 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 17 | 9.75 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 8 | 9.75 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 9 | 9.75 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 9 | 9.75 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 10 | 9.75 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 5 | 9.75 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 10 | 9.75 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 13 | 9.75 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 17 | 9.75 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 17 | 9.75 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 17 | 9.75 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 1 | 9.75 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 2 | 9.75 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 2 | 9.75 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 2 | 9.75 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 9.75 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 9.75 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 9.75 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 2 | 9.74 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 3 | 9.74 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 3 | 9.74 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 3 | 9.74 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 14 | 9.74 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 14 | 9.74 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 14 | 9.74 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 9 | 9.74 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 7 | 9.74 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 7 | 9.73 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 9 | 9.73 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 12 | 9.73 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 17 | 9.73 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 20 | 9.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 17 | 9.73 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 20 | 9.73 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 7 | 9.72 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 4 | 9.72 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 12 | 9.72 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 17 | 9.72 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 17 | 9.72 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 13 | 9.72 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 13 | 9.72 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 18 | 9.72 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 3 | 9.72 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 3 | 9.72 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 18 | 9.71 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 8 | 9.71 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 15 | 9.71 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 18 | 9.71 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 16 | 9.71 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 18 | 9.71 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 13 | 9.71 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 13 | 9.71 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 3 | 9.7 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 2 | 9.7 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 2 | 9.7 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 2 | 9.7 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 7 | 9.7 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 16 | 9.7 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 16 | 9.7 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 4 | 9.7 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 13 | 9.7 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 13 | 9.7 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 13 | 9.7 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 10 | 9.7 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 4 | 9.7 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 13 | 9.7 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 13 | 9.7 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 13 | 9.7 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 14 | 9.69 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 11 | 9.69 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 11 | 9.69 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 4 | 9.69 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 20 | 9.69 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 20 | 9.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 20 | 9.69 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 6 | 9.69 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 6 | 9.69 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 6 | 9.69 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 20 | 9.68 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 20 | 9.68 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 4 | 9.68 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 4 | 9.68 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 1 | 9.68 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 1 | 9.68 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 4 | 9.68 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 19 | 9.68 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 15 | 9.67 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 2 | 9.67 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 9 | 9.67 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 5 | 9.67 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 16 | 9.67 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 4 | 9.67 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 1 | 9.67 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 19 | 9.67 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 4 | 9.67 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 4 | 9.67 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 13 | 9.66 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 8 | 9.66 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 2 | 9.66 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 6 | 9.66 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 6 | 9.66 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 17 | 9.66 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 12 | 9.65 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 12 | 9.65 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 10 | 9.65 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 10 | 9.65 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 10 | 9.65 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 10 | 9.65 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 4 | 9.65 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 4 | 9.65 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 13 | 9.65 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 15 | 9.64 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 10 | 9.64 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 10 | 9.64 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 10 | 9.64 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 10 | 9.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 10 | 9.64 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 6 | 9.64 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 9 | 9.64 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 1 | 9.63 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 8 | 9.63 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 18 | 9.63 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 7 | 9.63 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 15 | 9.63 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 4 | 9.62 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 5 | 9.62 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 10 | 9.62 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 8 | 9.62 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 3 | 9.62 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 14 | 9.62 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 14 | 9.62 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 12 | 9.62 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 12 | 9.62 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 11 | 9.62 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 11 | 9.62 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 11 | 9.62 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 14 | 9.61 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 8 | 9.61 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 2 | 9.61 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 3 | 9.61 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 7 | 9.61 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 7 | 9.61 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 7 | 9.61 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 12 | 9.61 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 12 | 9.61 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 12 | 9.61 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 14 | 9.61 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 19 | 9.61 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 19 | 9.61 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 15 | 9.6 |
| (4,275) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 15 | 9.6 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 20 | 9.6 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 14 | 9.6 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 8 | 9.6 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 8 | 9.6 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 18 | 9.59 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 19 | 9.59 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 7 | 9.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 7 | 9.59 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 7 | 9.59 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 8 | 9.58 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 20 | 9.58 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 18 | 9.58 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 4 | 9.58 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 4 | 9.58 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 3 | 9.58 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 4 | 9.58 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 4 | 9.58 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 4 | 9.58 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 4 | 9.58 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 12 | 9.58 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 4 | 9.58 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 4 | 9.58 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 4 | 9.58 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 5 | 9.58 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 5 | 9.58 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 5 | 9.58 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 20 | 9.57 |
| (4,76) | 1:15:A:MET:CB | 1:135:A:GLU:H | 18 | 9.57 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 20 | 9.57 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 1 | 9.57 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 20 | 9.57 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 18 | 9.56 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 13 | 9.56 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 13 | 9.56 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 13 | 9.56 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 17 | 9.56 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 9 | 9.56 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 9 | 9.56 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 16 | 9.56 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 8 | 9.56 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 19 | 9.56 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 8 | 9.56 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 8 | 9.56 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 8 | 9.56 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 7 | 9.55 |
| (4,311) | 1:98:A:SER:CB | 1:38:A:SER:H | 15 | 9.54 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 4 | 9.54 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 4 | 9.54 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 5 | 9.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 5 | 9.54 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 5 | 9.54 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 5 | 9.54 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 8 | 9.54 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 8 | 9.54 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 8 | 9.54 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 12 | 9.54 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 12 | 9.54 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 7 | 9.54 |
| (4,233) | 1:15:A:MET:CB | 1:96:A:ILE:H | 14 | 9.53 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 11 | 9.53 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 8 | 9.53 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 8 | 9.53 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 8 | 9.53 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 8 | 9.53 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 13 | 9.53 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 5 | 9.53 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 4 | 9.53 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 6 | 9.53 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 15 | 9.53 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 10 | 9.52 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 3 | 9.52 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 3 | 9.52 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 3 | 9.52 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 3 | 9.52 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 10 | 9.52 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 10 | 9.52 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 10 | 9.52 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 10 | 9.52 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 5 | 9.52 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 10 | 9.52 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 10 | 9.52 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 10 | 9.52 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 1 | 9.51 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 7 | 9.51 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 4 | 9.51 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 19 | 9.51 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 11 | 9.51 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 6 | 9.51 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 14 | 9.51 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 14 | 9.51 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 14 | 9.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 14 | 9.51 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 13 | 9.51 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 13 | 9.51 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 7 | 9.51 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 13 | 9.51 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 13 | 9.51 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 13 | 9.51 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 3 | 9.51 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 13 | 9.51 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 13 | 9.51 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 13 | 9.51 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 17 | 9.51 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 8 | 9.5 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 13 | 9.5 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 4 | 9.5 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 4 | 9.5 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 4 | 9.5 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 2 | 9.5 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 2 | 9.5 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 11 | 9.5 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 5 | 9.5 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 2 | 9.5 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 2 | 9.5 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 5 | 9.49 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 6 | 9.49 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 20 | 9.49 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 7 | 9.49 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 18 | 9.49 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 3 | 9.49 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 19 | 9.49 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 7 | 9.48 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 11 | 9.48 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 14 | 9.48 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 7 | 9.48 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 18 | 9.48 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 18 | 9.48 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 18 | 9.48 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 18 | 9.48 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 15 | 9.47 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 20 | 9.47 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 7 | 9.47 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 12 | 9.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 10 | 9.47 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 3 | 9.46 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 9 | 9.46 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 9 | 9.46 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 19 | 9.46 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 19 | 9.46 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 19 | 9.46 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 19 | 9.46 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 13 | 9.46 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 19 | 9.46 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 19 | 9.45 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 4 | 9.45 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 2 | 9.45 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 2 | 9.45 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 6 | 9.45 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 6 | 9.45 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 6 | 9.45 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 6 | 9.45 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 5 | 9.45 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 5 | 9.45 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 13 | 9.45 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 13 | 9.45 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 13 | 9.45 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 11 | 9.45 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 11 | 9.45 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 2 | 9.45 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 18 | 9.45 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 11 | 9.45 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 11 | 9.45 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 5 | 9.44 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 3 | 9.44 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 14 | 9.44 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 13 | 9.43 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 13 | 9.43 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 13 | 9.43 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 13 | 9.43 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 7 | 9.43 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 7 | 9.43 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 7 | 9.43 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 7 | 9.43 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 14 | 9.43 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 14 | 9.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 2 | 9.42 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 12 | 9.42 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 16 | 9.42 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 16 | 9.42 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 16 | 9.42 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 16 | 9.42 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 16 | 9.42 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 16 | 9.42 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 12 | 9.42 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 17 | 9.41 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 8 | 9.41 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 7 | 9.41 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 7 | 9.41 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 7 | 9.41 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 6 | 9.41 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 20 | 9.41 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 15 | 9.41 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 16 | 9.41 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 7 | 9.41 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 7 | 9.41 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 6 | 9.41 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 20 | 9.41 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 15 | 9.41 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 16 | 9.41 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 7 | 9.41 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 7 | 9.41 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 19 | 9.41 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 19 | 9.41 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 19 | 9.41 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 9 | 9.4 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 11 | 9.4 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 12 | 9.4 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 12 | 9.4 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 17 | 9.4 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 17 | 9.4 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 4 | 9.4 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 4 | 9.4 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 12 | 9.4 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 17 | 9.4 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 17 | 9.4 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 4 | 9.4 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 4 | 9.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 4 | 9.4 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 1 | 9.4 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 14 | 9.39 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 16 | 9.38 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 20 | 9.38 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 20 | 9.38 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 16 | 9.38 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 4 | 9.38 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 20 | 9.38 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 8 | 9.38 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 18 | 9.38 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 4 | 9.38 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 4 | 9.38 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 15 | 9.38 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 15 | 9.38 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 15 | 9.38 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 12 | 9.37 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 20 | 9.37 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 20 | 9.37 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 20 | 9.37 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 8 | 9.37 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 18 | 9.37 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 14 | 9.37 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 20 | 9.37 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 20 | 9.37 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 20 | 9.37 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 8 | 9.37 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 15 | 9.36 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 14 | 9.36 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 4 | 9.36 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 6 | 9.36 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 6 | 9.36 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 11 | 9.36 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 1 | 9.36 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 2 | 9.36 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 11 | 9.35 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 17 | 9.35 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 17 | 9.35 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 6 | 9.35 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 16 | 9.34 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 4 | 9.34 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 9 | 9.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 2 | 9.34 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 6 | 9.34 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 2 | 9.34 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 8 | 9.33 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 7 | 9.33 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 4 | 9.33 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 4 | 9.33 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 4 | 9.33 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 4 | 9.33 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 16 | 9.33 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 3 | 9.33 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 3 | 9.33 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 3 | 9.33 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 4 | 9.32 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 13 | 9.32 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 4 | 9.32 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 4 | 9.32 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 9 | 9.32 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 16 | 9.32 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 16 | 9.32 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 12 | 9.32 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 2 | 9.31 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 2 | 9.31 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 2 | 9.31 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 11 | 9.31 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 4 | 9.31 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 11 | 9.3 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 20 | 9.3 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 20 | 9.3 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 20 | 9.3 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 20 | 9.3 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 18 | 9.29 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 18 | 9.29 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 15 | 9.29 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 15 | 9.29 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 15 | 9.29 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 18 | 9.29 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 18 | 9.29 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 17 | 9.29 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 17 | 9.29 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 17 | 9.29 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 17 | 9.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 15 | 9.29 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 15 | 9.29 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 15 | 9.29 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 16 | 9.28 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 16 | 9.28 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 1 | 9.28 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 1 | 9.28 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 1 | 9.28 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 16 | 9.28 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 16 | 9.28 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 16 | 9.28 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 16 | 9.27 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 16 | 9.27 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 16 | 9.27 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 16 | 9.27 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 2 | 9.27 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 2 | 9.27 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 2 | 9.27 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 9 | 9.27 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 9 | 9.27 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 9 | 9.27 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 1 | 9.27 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 9 | 9.27 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 9 | 9.27 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 9 | 9.27 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 1 | 9.27 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 10 | 9.26 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 2 | 9.26 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 7 | 9.26 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 13 | 9.26 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 13 | 9.26 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 18 | 9.26 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 18 | 9.26 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 20 | 9.26 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 17 | 9.26 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 17 | 9.26 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 13 | 9.26 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 13 | 9.26 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 13 | 9.26 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 12 | 9.26 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 12 | 9.26 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 12 | 9.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 2 | 9.25 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 17 | 9.25 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 17 | 9.25 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 17 | 9.25 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 17 | 9.25 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 5 | 9.25 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 5 | 9.25 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 18 | 9.25 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 18 | 9.25 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 18 | 9.25 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 9 | 9.25 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 9 | 9.25 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 9 | 9.25 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 9 | 9.25 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 9 | 9.25 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 9 | 9.25 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 17 | 9.25 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 17 | 9.25 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 17 | 9.25 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 17 | 9.25 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 13 | 9.25 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 13 | 9.25 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 9.25 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 9.25 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 9 | 9.25 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 9 | 9.25 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 9 | 9.25 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 9 | 9.25 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 9 | 9.25 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 9 | 9.25 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 2 | 9.24 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 8 | 9.24 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 16 | 9.24 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 16 | 9.24 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 16 | 9.24 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 16 | 9.24 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 9 | 9.24 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 9 | 9.24 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 9 | 9.24 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 9 | 9.24 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 9 | 9.24 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 9 | 9.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 20 | 9.24 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 20 | 9.24 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 9 | 9.24 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 9 | 9.24 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 20 | 9.24 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 13 | 9.24 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 13 | 9.24 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 13 | 9.24 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 17 | 9.24 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 17 | 9.24 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 17 | 9.24 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 16 | 9.24 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 16 | 9.24 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 16 | 9.24 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 16 | 9.24 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 16 | 9.24 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 9 | 9.24 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 9 | 9.24 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 9 | 9.24 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 9 | 9.24 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 8 | 9.24 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 9 | 9.24 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 9 | 9.24 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 9 | 9.24 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 9 | 9.24 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 7 | 9.24 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 7 | 9.23 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 7 | 9.23 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 7 | 9.23 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 4 | 9.23 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 18 | 9.23 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 2 | 9.22 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 18 | 9.22 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 9 | 9.22 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 9 | 9.22 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 9 | 9.22 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 9 | 9.22 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 9 | 9.22 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 20 | 9.22 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 20 | 9.22 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 15 | 9.22 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 8 | 9.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 15 | 9.21 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 18 | 9.21 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 5 | 9.21 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 20 | 9.21 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 20 | 9.21 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 20 | 9.21 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 17 | 9.21 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 2 | 9.2 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 1 | 9.2 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 1 | 9.2 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 1 | 9.2 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 1 | 9.2 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 4 | 9.2 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 4 | 9.2 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 4 | 9.2 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 4 | 9.2 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 16 | 9.2 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 2 | 9.19 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 7 | 9.19 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 10 | 9.19 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 13 | 9.19 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 11 | 9.19 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 5 | 9.19 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 16 | 9.19 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 2 | 9.19 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 13 | 9.19 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 7 | 9.19 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 7 | 9.19 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 7 | 9.19 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 6 | 9.19 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 7 | 9.19 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 7 | 9.19 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 6 | 9.19 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 9 | 9.19 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 9 | 9.19 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 9 | 9.19 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 14 | 9.18 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 1 | 9.18 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 14 | 9.18 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 12 | 9.18 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 9 | 9.18 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 10 | 9.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 12 | 9.18 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 2 | 9.18 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 2 | 9.18 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 5 | 9.18 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 14 | 9.17 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 17 | 9.17 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 20 | 9.17 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 11 | 9.17 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 11 | 9.17 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 5 | 9.17 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 5 | 9.17 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 5 | 9.17 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 11 | 9.17 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 11 | 9.17 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 11 | 9.17 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 6 | 9.17 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 11 | 9.17 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 11 | 9.17 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 11 | 9.17 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 13 | 9.16 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 13 | 9.16 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 13 | 9.16 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 1 | 9.16 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 14 | 9.16 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 4 | 9.16 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 4 | 9.16 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 4 | 9.16 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 8 | 9.16 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 8 | 9.16 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 2 | 9.15 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 14 | 9.15 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 16 | 9.15 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 16 | 9.15 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 18 | 9.15 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 18 | 9.15 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 18 | 9.15 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 18 | 9.15 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 7 | 9.15 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 7 | 9.15 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 16 | 9.15 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 16 | 9.15 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 9 | 9.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 9 | 9.15 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 10 | 9.15 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 10 | 9.15 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 10 | 9.15 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 9 | 9.15 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 9 | 9.15 |
| (4,194) | 1:131:A:GLN:CB | 1:23:A:TYR:H | 18 | 9.14 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 2 | 9.14 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 16 | 9.14 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 6 | 9.14 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 6 | 9.14 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 6 | 9.14 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 16 | 9.14 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 5 | 9.13 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 15 | 9.13 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 6 | 9.13 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 11 | 9.13 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 8 | 9.12 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 7 | 9.12 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 13 | 9.12 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 13 | 9.12 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 16 | 9.12 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 12 | 9.12 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 9 | 9.12 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 18 | 9.12 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 6 | 9.12 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 6 | 9.12 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 5 | 9.12 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 18 | 9.12 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 11 | 9.11 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 11 | 9.11 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 19 | 9.11 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 18 | 9.11 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 11 | 9.11 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 5 | 9.11 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 5 | 9.11 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 5 | 9.11 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 11 | 9.11 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 15 | 9.11 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 20 | 9.11 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 15 | 9.1 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 15 | 9.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 16 | 9.1 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 16 | 9.1 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 13 | 9.1 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 13 | 9.1 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 19 | 9.1 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 19 | 9.1 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 19 | 9.1 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 20 | 9.1 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 17 | 9.1 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 17 | 9.1 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 19 | 9.09 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 17 | 9.09 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 17 | 9.09 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 17 | 9.09 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 17 | 9.09 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 1 | 9.09 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 1 | 9.09 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 1 | 9.09 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 1 | 9.09 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 1 | 9.09 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 9 | 9.09 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 9 | 9.09 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 9 | 9.09 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 7 | 9.09 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 15 | 9.09 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 9 | 9.09 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 12 | 9.09 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 12 | 9.09 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 12 | 9.09 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 15 | 9.09 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 7 | 9.08 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 19 | 9.08 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 19 | 9.08 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 6 | 9.08 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 6 | 9.08 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 6 | 9.08 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 6 | 9.08 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 6 | 9.08 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 6 | 9.08 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 12 | 9.08 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 12 | 9.08 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 11 | 9.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 11 | 9.08 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 14 | 9.08 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 5 | 9.08 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 5 | 9.08 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 5 | 9.08 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 8 | 9.08 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 5 | 9.08 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 5 | 9.08 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 5 | 9.08 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 1 | 9.07 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 10 | 9.07 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 10 | 9.07 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 9 | 9.07 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 17 | 9.07 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 17 | 9.07 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 17 | 9.07 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 9 | 9.07 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 17 | 9.07 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 17 | 9.07 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 17 | 9.07 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 9 | 9.06 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 13 | 9.06 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 10 | 9.06 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 11 | 9.06 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 11 | 9.06 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 11 | 9.06 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 11 | 9.06 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 3 | 9.05 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 18 | 9.05 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 18 | 9.05 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 18 | 9.05 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 18 | 9.05 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 20 | 9.05 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 20 | 9.05 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 1 | 9.05 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 10 | 9.05 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 10 | 9.05 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 10 | 9.05 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 2 | 9.05 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 1 | 9.05 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 10 | 9.05 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 10 | 9.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 10 | 9.05 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 13 | 9.05 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 16 | 9.04 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 17 | 9.04 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 15 | 9.04 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 13 | 9.04 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 12 | 9.04 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 1 | 9.04 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 1 | 9.04 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 1 | 9.04 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 13 | 9.04 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 13 | 9.04 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 14 | 9.04 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 15 | 9.03 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 16 | 9.03 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 16 | 9.03 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 16 | 9.03 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 3 | 9.03 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 3 | 9.03 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 2 | 9.03 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 19 | 9.03 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 19 | 9.03 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 19 | 9.03 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 1 | 9.03 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 1 | 9.03 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 1 | 9.03 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 5 | 9.02 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 5 | 9.02 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 20 | 9.02 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 13 | 9.02 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 7 | 9.02 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 7 | 9.02 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 10 | 9.02 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 7 | 9.02 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 7 | 9.02 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 7 | 9.02 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 7 | 9.02 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 7 | 9.02 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 6 | 9.02 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 18 | 9.01 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 5 | 9.01 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 3 | 9.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 3 | 9.01 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 3 | 9.01 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 3 | 9.01 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 12 | 9.01 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 12 | 9.01 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 12 | 9.01 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 13 | 9.01 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 13 | 9.01 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 13 | 9.01 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 13 | 9.01 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 13 | 9.01 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 13 | 9.01 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 13 | 9.01 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 13 | 9.01 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 13 | 9.01 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 20 | 9.01 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 20 | 9.01 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 17 | 9.01 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 17 | 9.01 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 17 | 9.01 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 10 | 9.01 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 1 | 9.01 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 13 | 9.01 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 8 | 9.01 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 9.01 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 12 | 9.01 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 13 | 9.01 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 13 | 9.01 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 13 | 9.01 |
| (4,266) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 14 | 9.0 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 8 | 9.0 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 20 | 9.0 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 20 | 9.0 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 20 | 9.0 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 20 | 9.0 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 13 | 9.0 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 18 | 9.0 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 18 | 9.0 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 18 | 9.0 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 10 | 9.0 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 8 | 9.0 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 13 | 9.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 13 | 9.0 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 16 | 9.0 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 16 | 9.0 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 16 | 9.0 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 13 | 8.99 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 2 | 8.99 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 2 | 8.99 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 3 | 8.99 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 1 | 8.99 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 5 | 8.99 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 14 | 8.99 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 14 | 8.99 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 18 | 8.99 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 18 | 8.99 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 3 | 8.99 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 11 | 8.98 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 5 | 8.98 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 14 | 8.98 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 14 | 8.98 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 4 | 8.98 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 4 | 8.98 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 4 | 8.98 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 10 | 8.98 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 10 | 8.98 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 9 | 8.98 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 14 | 8.98 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 14 | 8.98 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 8 | 8.97 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 10 | 8.97 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 14 | 8.97 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 14 | 8.97 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 2 | 8.97 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 2 | 8.97 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 9 | 8.97 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 9 | 8.97 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 9 | 8.97 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 10 | 8.97 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 19 | 8.97 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 19 | 8.97 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 2 | 8.97 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 2 | 8.97 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 10 | 8.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 19 | 8.97 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 19 | 8.97 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 18 | 8.96 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 5 | 8.96 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 16 | 8.96 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 16 | 8.96 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 11 | 8.96 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 9 | 8.96 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 9 | 8.96 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 9 | 8.96 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 6 | 8.96 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 6 | 8.96 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 15 | 8.96 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 15 | 8.96 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 15 | 8.96 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 15 | 8.96 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 15 | 8.96 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 15 | 8.96 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 9 | 8.96 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 1 | 8.96 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 15 | 8.96 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 15 | 8.96 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 15 | 8.96 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 15 | 8.96 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 15 | 8.96 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 15 | 8.96 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 20 | 8.95 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 11 | 8.95 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 11 | 8.95 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 9 | 8.95 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 13 | 8.95 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 18 | 8.95 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 18 | 8.95 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 18 | 8.94 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 18 | 8.94 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 16 | 8.94 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 16 | 8.94 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 11 | 8.94 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 11 | 8.94 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 11 | 8.94 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 9 | 8.94 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 13 | 8.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 13 | 8.94 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 13 | 8.94 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 20 | 8.94 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 4 | 8.94 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 20 | 8.94 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 15 | 8.94 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 15 | 8.94 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 15 | 8.94 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 20 | 8.93 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 20 | 8.93 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 16 | 8.93 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 20 | 8.93 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 18 | 8.93 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 12 | 8.93 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 19 | 8.93 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 19 | 8.93 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 6 | 8.93 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 6 | 8.93 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 6 | 8.93 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 20 | 8.93 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 18 | 8.93 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 8 | 8.93 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 12 | 8.93 |
| (1,590) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 18 | 8.93 |
| (1,590) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 18 | 8.93 |
| (1,590) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 18 | 8.93 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 19 | 8.92 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 20 | 8.92 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 3 | 8.92 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 3 | 8.92 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 10 | 8.92 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 10 | 8.92 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 17 | 8.92 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 5 | 8.92 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 5 | 8.92 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 3 | 8.92 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 3 | 8.92 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 15 | 8.92 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 15 | 8.92 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 5 | 8.92 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 5 | 8.92 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 10 | 8.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 16 | 8.91 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 7 | 8.91 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 7 | 8.91 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 1 | 8.91 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 1 | 8.91 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 1 | 8.91 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 9 | 8.91 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 15 | 8.91 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 15 | 8.91 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 9 | 8.91 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 9 | 8.91 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 9 | 8.91 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 4 | 8.91 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 4 | 8.91 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 4 | 8.91 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 8.91 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 15 | 8.91 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 15 | 8.91 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 17 | 8.9 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 19 | 8.9 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 20 | 8.9 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 16 | 8.9 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 19 | 8.9 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 16 | 8.9 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 2 | 8.9 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 6 | 8.9 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 16 | 8.9 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 16 | 8.9 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 6 | 8.9 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 6 | 8.9 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 6 | 8.9 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 6 | 8.9 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 6 | 8.9 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 6 | 8.9 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 6 | 8.9 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 12 | 8.9 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 4 | 8.9 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 16 | 8.9 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 16 | 8.9 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 6 | 8.9 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 6 | 8.9 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 6 | 8.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 6 | 8.9 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 6 | 8.9 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 6 | 8.9 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 18 | 8.9 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 18 | 8.9 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 11 | 8.9 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 11 | 8.9 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 4 | 8.9 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 5 | 8.89 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 3 | 8.89 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 6 | 8.89 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 3 | 8.89 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 2 | 8.89 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 17 | 8.89 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 17 | 8.89 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 17 | 8.89 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 17 | 8.89 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 17 | 8.89 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 17 | 8.89 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 16 | 8.89 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 16 | 8.89 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 16 | 8.89 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 9 | 8.89 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 9 | 8.89 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 9 | 8.89 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 17 | 8.89 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 17 | 8.89 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 17 | 8.89 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 17 | 8.89 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 17 | 8.89 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 17 | 8.89 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 7 | 8.89 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 17 | 8.89 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 18 | 8.88 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 3 | 8.88 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 20 | 8.88 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 10 | 8.88 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 1 | 8.88 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 20 | 8.88 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 10 | 8.88 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 6 | 8.87 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 16 | 8.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 14 | 8.87 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 14 | 8.87 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 14 | 8.87 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 14 | 8.87 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 14 | 8.87 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 14 | 8.87 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 16 | 8.87 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 16 | 8.87 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 20 | 8.87 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 20 | 8.87 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 8 | 8.87 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 8 | 8.87 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 8 | 8.87 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 1 | 8.87 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 1 | 8.87 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 1 | 8.87 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 19 | 8.87 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 19 | 8.87 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 19 | 8.87 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 1 | 8.87 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 12 | 8.87 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 14 | 8.87 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 14 | 8.87 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 14 | 8.87 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 14 | 8.87 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 14 | 8.87 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 14 | 8.87 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 16 | 8.87 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 16 | 8.87 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 4 | 8.87 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 7 | 8.87 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 7 | 8.87 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 8.87 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 8.87 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 8.87 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 15 | 8.87 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 19 | 8.87 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 19 | 8.87 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 19 | 8.87 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 1 | 8.87 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 9 | 8.86 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 10 | 8.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 17 | 8.86 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 20 | 8.86 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 13 | 8.86 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 13 | 8.86 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 13 | 8.86 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 13 | 8.86 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 6 | 8.86 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 6 | 8.86 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 6 | 8.86 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 6 | 8.86 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 6 | 8.86 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 6 | 8.86 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 3 | 8.86 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 3 | 8.86 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 3 | 8.86 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 13 | 8.86 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 13 | 8.86 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 13 | 8.86 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 13 | 8.86 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 18 | 8.86 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 13 | 8.86 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 15 | 8.86 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 15 | 8.86 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 15 | 8.86 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 8 | 8.85 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 7 | 8.85 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 7 | 8.85 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 18 | 8.85 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 16 | 8.85 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 16 | 8.85 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 16 | 8.85 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 16 | 8.85 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 10 | 8.85 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 12 | 8.85 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 12 | 8.85 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 12 | 8.85 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 16 | 8.85 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 7 | 8.85 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 4 | 8.85 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 14 | 8.84 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 8 | 8.84 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 7 | 8.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 7 | 8.84 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 7 | 8.84 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 14 | 8.84 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 6 | 8.84 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 6 | 8.84 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 6 | 8.84 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 1 | 8.84 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 3 | 8.84 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 19 | 8.83 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 17 | 8.83 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 8 | 8.83 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 4 | 8.83 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 4 | 8.83 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 4 | 8.83 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 19 | 8.83 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 19 | 8.83 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 7 | 8.83 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 8.83 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 8.83 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 8.83 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 18 | 8.83 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 5 | 8.82 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 9 | 8.82 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 3 | 8.82 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 19 | 8.82 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 19 | 8.82 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 19 | 8.82 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 19 | 8.82 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 7 | 8.82 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 7 | 8.82 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 2 | 8.82 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 2 | 8.82 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 13 | 8.82 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 19 | 8.82 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 19 | 8.82 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 19 | 8.82 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 19 | 8.82 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 7 | 8.82 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 7 | 8.82 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 7 | 8.82 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 12 | 8.82 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 13 | 8.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 12 | 8.82 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 18 | 8.81 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 8 | 8.81 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 8 | 8.81 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 8 | 8.81 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 8 | 8.81 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 4 | 8.81 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 4 | 8.81 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 4 | 8.81 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 13 | 8.81 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 13 | 8.81 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 13 | 8.81 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 3 | 8.81 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 3 | 8.81 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 3 | 8.81 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 11 | 8.81 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 11 | 8.81 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 11 | 8.81 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 20 | 8.81 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 20 | 8.81 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 20 | 8.81 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 8 | 8.81 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 8 | 8.81 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 8 | 8.81 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 8 | 8.81 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 1 | 8.81 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 1 | 8.81 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 1 | 8.81 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 1 | 8.81 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 1 | 8.81 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 1 | 8.81 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 1 | 8.81 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 3 | 8.81 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 3 | 8.81 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 3 | 8.81 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 11 | 8.81 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 11 | 8.81 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 11 | 8.81 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 5 | 8.81 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 20 | 8.81 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 20 | 8.81 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 20 | 8.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 4 | 8.8 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 17 | 8.8 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 1 | 8.8 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 10 | 8.8 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 10 | 8.8 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 1 | 8.8 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 1 | 8.8 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 16 | 8.8 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 16 | 8.8 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 16 | 8.8 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 16 | 8.8 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 16 | 8.8 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 17 | 8.8 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 17 | 8.8 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 9 | 8.8 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 15 | 8.8 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 10 | 8.8 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 10 | 8.8 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 1 | 8.8 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 1 | 8.8 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 4 | 8.8 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 5 | 8.8 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 5 | 8.8 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 5 | 8.8 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 17 | 8.8 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 17 | 8.8 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 15 | 8.8 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 7 | 8.8 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 5 | 8.79 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 5 | 8.79 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 8 | 8.79 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 8 | 8.79 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 7 | 8.79 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 7 | 8.79 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 7 | 8.79 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 20 | 8.79 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 2 | 8.79 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 2 | 8.79 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 2 | 8.79 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 11 | 8.79 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 11 | 8.79 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 11 | 8.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 12 | 8.78 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 19 | 8.78 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 18 | 8.78 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 10 | 8.78 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 10 | 8.78 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 10 | 8.78 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 10 | 8.78 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 20 | 8.78 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 9 | 8.78 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 15 | 8.77 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 16 | 8.77 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 4 | 8.77 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 16 | 8.77 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 16 | 8.77 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 2 | 8.77 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 2 | 8.77 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 16 | 8.77 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 11 | 8.77 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 20 | 8.77 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 2 | 8.77 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 17 | 8.77 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 15 | 8.77 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 4 | 8.77 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 20 | 8.77 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 12 | 8.76 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 12 | 8.76 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 1 | 8.76 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 1 | 8.76 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 19 | 8.76 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 19 | 8.76 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 19 | 8.76 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 19 | 8.76 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 19 | 8.76 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 19 | 8.76 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 12 | 8.76 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 12 | 8.76 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 14 | 8.76 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 16 | 8.76 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 10 | 8.76 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 10 | 8.76 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 11 | 8.76 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 5 | 8.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 14 | 8.76 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 16 | 8.76 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 9 | 8.76 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 18 | 8.75 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 9 | 8.75 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 16 | 8.75 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 16 | 8.75 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 2 | 8.75 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 2 | 8.75 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 2 | 8.75 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 20 | 8.75 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 20 | 8.75 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 3 | 8.75 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 3 | 8.75 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 5 | 8.75 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 5 | 8.75 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 5 | 8.75 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 6 | 8.75 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 9 | 8.75 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 7 | 8.75 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 7 | 8.75 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 7 | 8.75 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 9 | 8.75 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 4 | 8.75 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 4 | 8.75 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 4 | 8.75 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 5 | 8.75 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 5 | 8.75 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 5 | 8.75 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 10 | 8.74 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 10 | 8.74 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 11 | 8.74 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 16 | 8.73 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 6 | 8.73 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 6 | 8.73 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 12 | 8.73 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 14 | 8.73 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 14 | 8.73 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 14 | 8.73 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 6 | 8.73 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 14 | 8.73 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 14 | 8.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 6 | 8.73 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 6 | 8.73 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 17 | 8.73 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 8 | 8.73 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 14 | 8.73 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 14 | 8.73 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 14 | 8.73 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 6 | 8.73 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 14 | 8.73 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 14 | 8.73 |
| (4,103) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 5 | 8.72 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 3 | 8.72 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 3 | 8.72 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 3 | 8.72 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 3 | 8.72 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 3 | 8.72 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 3 | 8.72 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 13 | 8.72 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 13 | 8.72 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 13 | 8.72 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 13 | 8.72 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 9 | 8.72 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 4 | 8.72 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 4 | 8.72 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 4 | 8.72 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 18 | 8.72 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 14 | 8.72 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 14 | 8.72 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 14 | 8.72 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 11 | 8.72 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 11 | 8.72 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 11 | 8.72 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 4 | 8.72 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 4 | 8.72 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 4 | 8.72 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 18 | 8.72 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 7 | 8.71 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 15 | 8.71 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 8 | 8.71 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 3 | 8.71 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 11 | 8.71 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 14 | 8.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 10 | 8.71 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 10 | 8.71 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 10 | 8.71 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 20 | 8.71 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 1 | 8.71 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 3 | 8.71 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 1 | 8.71 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 10 | 8.71 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 1 | 8.71 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 1 | 8.71 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 1 | 8.71 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 20 | 8.71 |
| (4,306) | 1:98:A:SER:CB | 1:33:A:GLN:HE21 | 11 | 8.7 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 5 | 8.7 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 3 | 8.7 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 3 | 8.7 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 18 | 8.7 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 12 | 8.7 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 12 | 8.7 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 12 | 8.7 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 12 | 8.7 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 12 | 8.7 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 12 | 8.7 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 4 | 8.7 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 18 | 8.7 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 16 | 8.7 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 13 | 8.7 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 13 | 8.7 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 13 | 8.7 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 5 | 8.7 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 5 | 8.7 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 17 | 8.7 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 12 | 8.7 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 12 | 8.7 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 12 | 8.7 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 16 | 8.69 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 4 | 8.69 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 18 | 8.69 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 18 | 8.69 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 18 | 8.69 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 18 | 8.69 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 3 | 8.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 10 | 8.69 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 16 | 8.69 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 16 | 8.69 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 4 | 8.69 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 4 | 8.69 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 4 | 8.69 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 4 | 8.69 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 4 | 8.69 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 4 | 8.69 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 5 | 8.69 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 5 | 8.69 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 7 | 8.69 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 7 | 8.69 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 7 | 8.69 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 11 | 8.69 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 11 | 8.69 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 11 | 8.69 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 4 | 8.69 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 4 | 8.69 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 9 | 8.69 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 19 | 8.69 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 19 | 8.69 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 17 | 8.69 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 6 | 8.69 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 7 | 8.69 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 7 | 8.69 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 7 | 8.69 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 16 | 8.68 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 5 | 8.68 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 6 | 8.68 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 6 | 8.68 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 19 | 8.68 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 19 | 8.68 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 19 | 8.68 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 18 | 8.68 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 18 | 8.68 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 4 | 8.68 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 4 | 8.68 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 18 | 8.68 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 6 | 8.68 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 6 | 8.68 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 4 | 8.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 4 | 8.68 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 18 | 8.68 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 5 | 8.68 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 13 | 8.67 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 13 | 8.67 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 2 | 8.67 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 2 | 8.67 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 6 | 8.67 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 6 | 8.67 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 18 | 8.67 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 7 | 8.67 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 17 | 8.67 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 16 | 8.67 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 15 | 8.66 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 15 | 8.66 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 6 | 8.66 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 6 | 8.66 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 19 | 8.66 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 19 | 8.66 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 20 | 8.66 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 2 | 8.66 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 20 | 8.66 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 12 | 8.66 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 12 | 8.66 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 2 | 8.66 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 14 | 8.65 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 7 | 8.65 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 12 | 8.65 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 12 | 8.65 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 12 | 8.65 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 12 | 8.65 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 1 | 8.65 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 1 | 8.65 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 18 | 8.65 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 14 | 8.65 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 1 | 8.65 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 15 | 8.65 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 15 | 8.65 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 10 | 8.65 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 10 | 8.65 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 10 | 8.65 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 8 | 8.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 2 | 8.65 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 10 | 8.65 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 10 | 8.65 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 10 | 8.65 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 2 | 8.65 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 10 | 8.65 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 10 | 8.65 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 10 | 8.65 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 2 | 8.64 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 2 | 8.64 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 18 | 8.64 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 18 | 8.64 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 18 | 8.64 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 18 | 8.64 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 17 | 8.64 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 17 | 8.64 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 2 | 8.64 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 2 | 8.64 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 2 | 8.64 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 16 | 8.64 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 16 | 8.64 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 16 | 8.64 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 9 | 8.64 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 7 | 8.64 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 7 | 8.64 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 1 | 8.64 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 15 | 8.64 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 15 | 8.64 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 15 | 8.64 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 16 | 8.64 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 16 | 8.64 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 16 | 8.64 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 12 | 8.63 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 5 | 8.63 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 4 | 8.63 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 7 | 8.63 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 7 | 8.63 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 18 | 8.63 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 18 | 8.63 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 13 | 8.63 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 13 | 8.63 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 7 | 8.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 13 | 8.63 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 13 | 8.63 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 13 | 8.63 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 13 | 8.63 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 13 | 8.63 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 13 | 8.63 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 13 | 8.63 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 13 | 8.63 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 13 | 8.63 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 4 | 8.63 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 11 | 8.63 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 15 | 8.63 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 15 | 8.63 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 15 | 8.63 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 13 | 8.63 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 13 | 8.63 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 13 | 8.63 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 13 | 8.63 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 13 | 8.63 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 13 | 8.63 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 13 | 8.63 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 13 | 8.63 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 13 | 8.63 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 1 | 8.62 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 2 | 8.62 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 4 | 8.62 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 16 | 8.62 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 16 | 8.62 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 16 | 8.62 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 19 | 8.62 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 19 | 8.62 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 3 | 8.62 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 3 | 8.62 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 18 | 8.62 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 18 | 8.62 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 18 | 8.62 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 10 | 8.62 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 10 | 8.62 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 2 | 8.62 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 2 | 8.62 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 13 | 8.62 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 13 | 8.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 13 | 8.62 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 6 | 8.62 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 6 | 8.62 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 8.62 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 8.62 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 8.62 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 8 | 8.62 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 8 | 8.62 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 8 | 8.62 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 5 | 8.62 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 19 | 8.62 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 19 | 8.62 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 4 | 8.61 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 4 | 8.61 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 4 | 8.61 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 4 | 8.61 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 4 | 8.61 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 4 | 8.61 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 4 | 8.61 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 3 | 8.61 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 3 | 8.61 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 12 | 8.61 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 12 | 8.61 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 7 | 8.61 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 7 | 8.61 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 4 | 8.61 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 11 | 8.61 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 11 | 8.61 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 10 | 8.61 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 16 | 8.61 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 16 | 8.61 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 16 | 8.61 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 6 | 8.61 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 5 | 8.61 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 5 | 8.61 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 5 | 8.61 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 4 | 8.61 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 4 | 8.61 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 4 | 8.61 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 4 | 8.61 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 4 | 8.61 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 4 | 8.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 10 | 8.61 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 1 | 8.61 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 16 | 8.61 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 16 | 8.61 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 16 | 8.61 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 18 | 8.6 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 9 | 8.6 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 3 | 8.6 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 3 | 8.6 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 3 | 8.6 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 3 | 8.6 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 12 | 8.6 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 12 | 8.6 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 14 | 8.6 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 14 | 8.6 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 14 | 8.6 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 14 | 8.6 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 7 | 8.6 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 7 | 8.6 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 7 | 8.6 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 7 | 8.6 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 7 | 8.6 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 2 | 8.6 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 2 | 8.6 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 2 | 8.6 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 7 | 8.6 |
| (4,228) | 1:15:A:MET:CB | 1:90:A:ASN:H | 1 | 8.59 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 15 | 8.59 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 15 | 8.59 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 1 | 8.59 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 1 | 8.59 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 19 | 8.59 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 7 | 8.59 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 7 | 8.59 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 7 | 8.59 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 7 | 8.59 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 14 | 8.59 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 18 | 8.59 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 9 | 8.59 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 9 | 8.59 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 19 | 8.59 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 10 | 8.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 10 | 8.59 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 10 | 8.59 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 14 | 8.59 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 18 | 8.59 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 7 | 8.59 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 11 | 8.58 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 7 | 8.58 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 7 | 8.58 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 14 | 8.58 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 14 | 8.58 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 17 | 8.58 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 17 | 8.58 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 8 | 8.58 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 8 | 8.58 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 4 | 8.58 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 10 | 8.58 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 10 | 8.58 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 10 | 8.58 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 14 | 8.58 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 14 | 8.58 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 4 | 8.58 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 8 | 8.58 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 8 | 8.57 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 2 | 8.57 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 9 | 8.57 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 6 | 8.57 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 6 | 8.57 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 6 | 8.57 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 6 | 8.57 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 15 | 8.57 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 3 | 8.57 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 14 | 8.57 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 18 | 8.57 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 6 | 8.57 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 6 | 8.57 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 16 | 8.57 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 13 | 8.57 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 17 | 8.56 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 1 | 8.56 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 2 | 8.56 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 10 | 8.56 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 17 | 8.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 17 | 8.56 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 17 | 8.56 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 2 | 8.56 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 8 | 8.56 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 2 | 8.56 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 17 | 8.56 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 17 | 8.56 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 17 | 8.56 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 9 | 8.56 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 9 | 8.55 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 8.55 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 8.55 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 5 | 8.55 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 5 | 8.55 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 6 | 8.55 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 20 | 8.55 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 20 | 8.55 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 20 | 8.55 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 20 | 8.55 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 7 | 8.55 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 7 | 8.55 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 7 | 8.55 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 7 | 8.55 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 7 | 8.55 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 8.55 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 8.55 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 5 | 8.55 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 5 | 8.55 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 10 | 8.55 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 10 | 8.55 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 20 | 8.55 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 11 | 8.54 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 11 | 8.54 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 13 | 8.54 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 3 | 8.54 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 3 | 8.54 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 3 | 8.54 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 7 | 8.54 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 7 | 8.54 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 15 | 8.54 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 9 | 8.54 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 9 | 8.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 14 | 8.54 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 13 | 8.54 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 11 | 8.53 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 19 | 8.53 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 13 | 8.53 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 13 | 8.53 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 13 | 8.53 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 6 | 8.53 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 6 | 8.53 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 18 | 8.53 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 18 | 8.53 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 18 | 8.53 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 10 | 8.53 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 8 | 8.53 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 6 | 8.53 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 6 | 8.53 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 6 | 8.53 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 12 | 8.53 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 12 | 8.53 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 12 | 8.53 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 12 | 8.53 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 12 | 8.53 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 12 | 8.53 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 4 | 8.53 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 4 | 8.53 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 4 | 8.53 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 8.53 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 8.53 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 8.53 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 16 | 8.53 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 8 | 8.53 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 6 | 8.53 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 6 | 8.53 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 6 | 8.53 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 12 | 8.53 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 12 | 8.53 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 12 | 8.53 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 12 | 8.53 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 12 | 8.53 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 12 | 8.53 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 16 | 8.53 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 13 | 8.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 18 | 8.53 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 18 | 8.53 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 18 | 8.53 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 18 | 8.52 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 4 | 8.52 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 20 | 8.52 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 4 | 8.52 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 4 | 8.52 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 6 | 8.52 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 6 | 8.52 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 6 | 8.52 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 6 | 8.52 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 11 | 8.52 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 11 | 8.52 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 11 | 8.52 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 6 | 8.52 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 12 | 8.52 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 12 | 8.52 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 12 | 8.52 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 3 | 8.52 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 10 | 8.52 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 20 | 8.52 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 20 | 8.52 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 2 | 8.52 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 2 | 8.52 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 17 | 8.52 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 1 | 8.52 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 20 | 8.52 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 1 | 8.52 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 20 | 8.52 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 18 | 8.52 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 3 | 8.51 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 7 | 8.51 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 9 | 8.51 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 8 | 8.51 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 8 | 8.51 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 1 | 8.51 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 18 | 8.51 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 18 | 8.51 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 18 | 8.51 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 6 | 8.51 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 1 | 8.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 7 | 8.51 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 7 | 8.51 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 9 | 8.51 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 7 | 8.5 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 6 | 8.5 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 6 | 8.5 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 4 | 8.5 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 4 | 8.5 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 16 | 8.5 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 16 | 8.5 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 8 | 8.5 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 8 | 8.5 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 8 | 8.5 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 5 | 8.5 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 19 | 8.5 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 19 | 8.5 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 19 | 8.5 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 19 | 8.5 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 19 | 8.5 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 19 | 8.5 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 7 | 8.5 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 7 | 8.5 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 9 | 8.5 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 9 | 8.5 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 9 | 8.5 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 4 | 8.5 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 4 | 8.5 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 4 | 8.5 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 4 | 8.5 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 19 | 8.5 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 19 | 8.5 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 19 | 8.5 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 19 | 8.5 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 19 | 8.5 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 19 | 8.5 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 7 | 8.5 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 7 | 8.5 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 20 | 8.49 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 16 | 8.49 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 7 | 8.49 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 7 | 8.49 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 7 | 8.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 7 | 8.49 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 9 | 8.49 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 9 | 8.49 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 20 | 8.49 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 8.49 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 16 | 8.49 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 20 | 8.49 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 20 | 8.49 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 20 | 8.49 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 7 | 8.49 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 7 | 8.49 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 7 | 8.49 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 16 | 8.49 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 16 | 8.49 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 16 | 8.49 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 16 | 8.49 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 16 | 8.49 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 16 | 8.49 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 4 | 8.49 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 4 | 8.49 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 4 | 8.49 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 8.49 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 6 | 8.49 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 6 | 8.49 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 6 | 8.49 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 20 | 8.49 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 8.49 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 16 | 8.49 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 16 | 8.49 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 16 | 8.49 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 16 | 8.49 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 16 | 8.49 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 16 | 8.49 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 6 | 8.49 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 6 | 8.49 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 6 | 8.48 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 10 | 8.48 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 10 | 8.48 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 18 | 8.48 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 18 | 8.48 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 12 | 8.48 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 12 | 8.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 12 | 8.48 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 12 | 8.48 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 10 | 8.48 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 18 | 8.48 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 18 | 8.48 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 18 | 8.48 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 19 | 8.48 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 18 | 8.48 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 18 | 8.48 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 12 | 8.48 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 12 | 8.48 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 12 | 8.48 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 12 | 8.48 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 9 | 8.48 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 10 | 8.48 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 5 | 8.48 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 12 | 8.47 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 12 | 8.47 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 20 | 8.47 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 2 | 8.47 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 10 | 8.47 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 16 | 8.47 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 16 | 8.47 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 10 | 8.47 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 10 | 8.47 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 12 | 8.47 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 5 | 8.47 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 5 | 8.47 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 5 | 8.47 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 5 | 8.47 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 5 | 8.47 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 5 | 8.47 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 7 | 8.47 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 19 | 8.47 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 5 | 8.47 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 5 | 8.47 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 5 | 8.47 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 7 | 8.47 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 13 | 8.47 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 13 | 8.47 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 13 | 8.47 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 17 | 8.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 4 | 8.46 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 13 | 8.46 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 19 | 8.46 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 19 | 8.46 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 2 | 8.46 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 2 | 8.46 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 2 | 8.46 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 2 | 8.46 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 13 | 8.46 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 13 | 8.46 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 19 | 8.46 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 19 | 8.46 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 13 | 8.46 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 8 | 8.46 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 19 | 8.46 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 19 | 8.46 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 19 | 8.46 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 5 | 8.46 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 4 | 8.46 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 2 | 8.46 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 8.46 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 8.46 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 8.46 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 15 | 8.46 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 19 | 8.46 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 19 | 8.46 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 19 | 8.46 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 5 | 8.46 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 4 | 8.46 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 8 | 8.46 |
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 12 | 8.45 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 11 | 8.45 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 4 | 8.45 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 9 | 8.45 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 9 | 8.45 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 19 | 8.45 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 19 | 8.45 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 19 | 8.45 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 19 | 8.45 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 19 | 8.45 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 19 | 8.45 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 10 | 8.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 10 | 8.45 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 13 | 8.45 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 13 | 8.45 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 12 | 8.45 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 12 | 8.45 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 10 | 8.45 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 10 | 8.45 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 7 | 8.45 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 4 | 8.45 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 17 | 8.45 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 12 | 8.45 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 12 | 8.45 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 5 | 8.45 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 4 | 8.45 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 17 | 8.45 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 12 | 8.45 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 12 | 8.45 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 13 | 8.44 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 2 | 8.44 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 12 | 8.44 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 20 | 8.44 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 16 | 8.44 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 11 | 8.44 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 11 | 8.44 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 7 | 8.44 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 7 | 8.44 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 19 | 8.44 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 19 | 8.44 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 12 | 8.44 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 12 | 8.44 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 16 | 8.44 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 16 | 8.44 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 5 | 8.44 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 7 | 8.44 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 10 | 8.44 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 9 | 8.44 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 9 | 8.44 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 9 | 8.44 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 19 | 8.44 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 19 | 8.44 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 11 | 8.44 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 12 | 8.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 12 | 8.44 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 8.44 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 2 | 8.44 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 2 | 8.44 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 2 | 8.44 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 7 | 8.44 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 10 | 8.44 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 9 | 8.44 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 9 | 8.44 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 9 | 8.44 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 7 | 8.43 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 12 | 8.43 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 13 | 8.43 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 13 | 8.43 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 13 | 8.43 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 13 | 8.43 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 5 | 8.43 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 20 | 8.43 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 20 | 8.43 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 3 | 8.43 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 11 | 8.43 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 13 | 8.43 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 14 | 8.43 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 4 | 8.43 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 4 | 8.43 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 4 | 8.43 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 18 | 8.43 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 18 | 8.43 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 18 | 8.43 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 13 | 8.43 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 13 | 8.43 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 13 | 8.43 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 13 | 8.43 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 8.43 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 6 | 8.43 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 5 | 8.42 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 11 | 8.42 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 11 | 8.42 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 14 | 8.42 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 14 | 8.42 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 6 | 8.42 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 16 | 8.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 16 | 8.42 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 16 | 8.42 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 18 | 8.42 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 11 | 8.42 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 18 | 8.42 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 18 | 8.42 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 5 | 8.42 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 11 | 8.42 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 18 | 8.42 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 18 | 8.42 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 5 | 8.42 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 17 | 8.41 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 19 | 8.41 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 18 | 8.41 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 10 | 8.41 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 7 | 8.41 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 8 | 8.41 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 8 | 8.41 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 8 | 8.41 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 16 | 8.41 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 16 | 8.41 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 10 | 8.41 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 10 | 8.41 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 10 | 8.41 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 6 | 8.41 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 6 | 8.41 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 9 | 8.41 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 9 | 8.41 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 9 | 8.41 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 18 | 8.41 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 6 | 8.41 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 6 | 8.41 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 15 | 8.4 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 10 | 8.4 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 10 | 8.4 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 14 | 8.4 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 14 | 8.4 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 14 | 8.4 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 14 | 8.4 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 9 | 8.4 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 9 | 8.4 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 1 | 8.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 1 | 8.4 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 15 | 8.4 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 17 | 8.4 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 7 | 8.4 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 3 | 8.4 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 3 | 8.4 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 11 | 8.4 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 5 | 8.4 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 11 | 8.4 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 15 | 8.4 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 13 | 8.4 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 3 | 8.4 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 3 | 8.4 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 8.4 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 5 | 8.4 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 16 | 8.4 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 18 | 8.4 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 14 | 8.39 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 6 | 8.39 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 8 | 8.39 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 5 | 8.39 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 8 | 8.39 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 15 | 8.39 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 7 | 8.39 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 13 | 8.39 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 15 | 8.39 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 15 | 8.39 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 15 | 8.39 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 9 | 8.39 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 11 | 8.39 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 17 | 8.39 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 8 | 8.39 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 8.39 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 8 | 8.38 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 19 | 8.38 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 19 | 8.38 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 18 | 8.38 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 6 | 8.38 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 14 | 8.38 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 14 | 8.38 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 19 | 8.38 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 19 | 8.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 13 | 8.38 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 16 | 8.38 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 20 | 8.38 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 20 | 8.38 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 5 | 8.38 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 5 | 8.38 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 14 | 8.38 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 14 | 8.38 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 19 | 8.38 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 19 | 8.38 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 18 | 8.38 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 5 | 8.38 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 5 | 8.38 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 12 | 8.38 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 8 | 8.37 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 20 | 8.37 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 1 | 8.37 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 17 | 8.37 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 17 | 8.37 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 13 | 8.37 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 13 | 8.37 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 20 | 8.37 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 20 | 8.37 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 20 | 8.37 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 20 | 8.37 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 15 | 8.37 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 15 | 8.37 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 16 | 8.37 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 16 | 8.37 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 16 | 8.37 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 19 | 8.37 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 19 | 8.37 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 19 | 8.37 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 17 | 8.37 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 7 | 8.37 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 13 | 8.37 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 13 | 8.37 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 8.37 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 4 | 8.37 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 14 | 8.37 |
| (4,241) | 1:15:A:MET:CB | 1:122:A:LEU:H | 20 | 8.36 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 5 | 8.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 8 | 8.36 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 19 | 8.36 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 19 | 8.36 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 19 | 8.36 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 19 | 8.36 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 11 | 8.36 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 11 | 8.36 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 14 | 8.36 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 1 | 8.36 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 10 | 8.36 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 14 | 8.36 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 14 | 8.36 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 1 | 8.36 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 14 | 8.36 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 14 | 8.36 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 14 | 8.36 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 6 | 8.36 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 6 | 8.36 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 11 | 8.36 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 4 | 8.36 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 14 | 8.36 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 14 | 8.36 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 14 | 8.36 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 6 | 8.36 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 6 | 8.36 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 6 | 8.36 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 13 | 8.36 |
| (4,140) | 1:90:A:ASN:CB | 1:48:A:GLY:H | 16 | 8.35 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 8 | 8.35 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 8 | 8.35 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 19 | 8.35 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 15 | 8.35 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 15 | 8.35 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 15 | 8.35 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 15 | 8.35 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 15 | 8.35 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 15 | 8.35 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 16 | 8.35 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 20 | 8.34 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 20 | 8.34 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 10 | 8.34 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 10 | 8.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 10 | 8.34 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 10 | 8.34 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 5 | 8.34 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 5 | 8.34 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 13 | 8.34 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 13 | 8.34 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 13 | 8.34 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 6 | 8.34 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 15 | 8.34 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 14 | 8.34 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 16 | 8.34 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 16 | 8.34 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 14 | 8.34 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 16 | 8.34 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 16 | 8.34 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 6 | 8.34 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 12 | 8.34 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 12 | 8.34 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 12 | 8.34 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 14 | 8.34 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 16 | 8.34 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 16 | 8.34 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 10 | 8.33 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 3 | 8.33 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 13 | 8.33 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 10 | 8.33 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 13 | 8.33 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 13 | 8.33 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 13 | 8.33 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 11 | 8.33 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 11 | 8.33 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 19 | 8.33 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 12 | 8.33 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 12 | 8.33 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 12 | 8.33 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 3 | 8.33 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 3 | 8.33 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 16 | 8.33 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 12 | 8.33 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 12 | 8.33 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 12 | 8.33 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 3 | 8.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 3 | 8.33 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 19 | 8.33 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 3 | 8.32 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 9 | 8.32 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 12 | 8.32 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 14 | 8.32 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 4 | 8.32 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 4 | 8.32 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 4 | 8.32 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 10 | 8.32 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 10 | 8.32 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 10 | 8.32 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 10 | 8.32 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 13 | 8.32 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 13 | 8.32 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 13 | 8.32 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 13 | 8.32 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 13 | 8.32 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 13 | 8.32 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 4 | 8.32 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 16 | 8.32 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 16 | 8.32 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 16 | 8.32 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 14 | 8.32 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 8.32 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 8.32 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 8.32 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 2 | 8.32 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 5 | 8.31 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 12 | 8.31 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 2 | 8.31 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 2 | 8.31 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 2 | 8.31 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 2 | 8.31 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 5 | 8.31 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 5 | 8.31 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 5 | 8.31 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 5 | 8.31 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 13 | 8.31 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 13 | 8.31 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 13 | 8.31 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 13 | 8.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 13 | 8.31 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 13 | 8.31 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 1 | 8.31 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 1 | 8.31 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 1 | 8.31 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 1 | 8.31 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 9 | 8.31 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 9 | 8.31 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 9 | 8.31 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 18 | 8.31 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 18 | 8.31 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 1 | 8.31 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 1 | 8.31 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 1 | 8.31 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 1 | 8.31 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 1 | 8.31 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 1 | 8.31 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 1 | 8.31 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 11 | 8.31 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 11 | 8.31 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 11 | 8.31 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 1 | 8.31 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 1 | 8.31 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 1 | 8.31 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 1 | 8.31 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 8 | 8.31 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 8 | 8.31 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 19 | 8.3 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 12 | 8.3 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 12 | 8.3 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 1 | 8.3 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 1 | 8.3 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 20 | 8.3 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 20 | 8.3 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 1 | 8.3 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 1 | 8.3 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 1 | 8.3 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 3 | 8.3 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 3 | 8.3 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 3 | 8.3 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 5 | 8.3 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 5 | 8.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 5 | 8.3 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 14 | 8.3 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 13 | 8.3 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 13 | 8.3 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 5 | 8.3 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 12 | 8.3 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 12 | 8.3 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 12 | 8.3 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 2 | 8.3 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 2 | 8.3 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 6 | 8.29 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 6 | 8.29 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 6 | 8.29 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 6 | 8.29 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 20 | 8.29 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 16 | 8.29 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 16 | 8.29 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 16 | 8.29 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 20 | 8.29 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 20 | 8.29 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 20 | 8.29 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 19 | 8.29 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 18 | 8.29 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 3 | 8.29 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 8.29 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 8.29 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 8.29 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 18 | 8.29 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 18 | 8.29 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 18 | 8.29 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 20 | 8.29 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 20 | 8.29 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 20 | 8.29 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 19 | 8.29 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 19 | 8.28 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 6 | 8.28 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 12 | 8.28 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 1 | 8.28 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 1 | 8.28 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 1 | 8.28 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 1 | 8.28 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 11 | 8.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 11 | 8.28 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 11 | 8.28 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 14 | 8.28 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 14 | 8.28 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 14 | 8.28 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 18 | 8.28 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 1 | 8.28 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 2 | 8.28 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 2 | 8.28 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 2 | 8.28 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 18 | 8.28 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 1 | 8.28 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 8.28 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 8.28 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 8.28 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 6 | 8.28 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 14 | 8.28 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 14 | 8.28 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 14 | 8.28 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 7 | 8.27 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 2 | 8.27 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 2 | 8.27 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 4 | 8.27 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 8 | 8.27 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 8 | 8.27 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 8 | 8.27 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 8 | 8.27 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 6 | 8.27 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 6 | 8.27 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 10 | 8.27 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 10 | 8.27 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 19 | 8.27 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 19 | 8.27 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 20 | 8.27 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 2 | 8.27 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 2 | 8.27 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 13 | 8.27 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 13 | 8.27 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 13 | 8.27 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 16 | 8.27 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 16 | 8.27 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 16 | 8.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 12 | 8.27 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 2 | 8.27 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 8 | 8.27 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 8 | 8.27 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 8 | 8.27 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 18 | 8.27 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 10 | 8.27 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 2 | 8.27 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 2 | 8.27 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 10 | 8.27 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 10 | 8.27 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 10 | 8.27 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 9 | 8.26 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 6 | 8.26 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 11 | 8.26 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 11 | 8.26 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 11 | 8.26 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 11 | 8.26 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 14 | 8.26 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 14 | 8.26 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 3 | 8.26 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 3 | 8.26 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 3 | 8.26 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 20 | 8.26 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 20 | 8.26 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 20 | 8.26 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 10 | 8.26 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 10 | 8.26 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 10 | 8.26 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 3 | 8.26 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 5 | 8.26 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 9 | 8.26 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 9 | 8.26 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 9 | 8.26 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 11 | 8.26 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 11 | 8.26 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 11 | 8.26 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 11 | 8.26 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 12 | 8.26 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 12 | 8.26 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 12 | 8.26 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 18 | 8.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 18 | 8.26 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 18 | 8.26 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 12 | 8.26 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 9 | 8.25 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 6 | 8.25 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 7 | 8.25 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 7 | 8.25 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 17 | 8.25 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 17 | 8.25 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 6 | 8.25 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 6 | 8.25 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 7 | 8.25 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 20 | 8.25 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 16 | 8.25 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 16 | 8.25 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 16 | 8.25 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 5 | 8.25 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 5 | 8.25 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 4 | 8.25 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 1 | 8.25 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 1 | 8.25 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 1 | 8.25 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 1 | 8.25 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 18 | 8.25 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 18 | 8.25 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 18 | 8.25 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 6 | 8.25 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 2 | 8.25 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 17 | 8.25 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 17 | 8.25 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 9 | 8.25 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 1 | 8.25 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 1 | 8.25 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 1 | 8.25 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 1 | 8.25 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 18 | 8.25 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 18 | 8.25 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 18 | 8.25 |
| (4,278) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 15 | 8.24 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 14 | 8.24 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 11 | 8.24 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 19 | 8.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 19 | 8.24 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 10 | 8.24 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 10 | 8.24 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 1 | 8.24 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 1 | 8.24 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 8 | 8.24 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 8 | 8.24 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 20 | 8.24 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 20 | 8.24 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 20 | 8.24 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 10 | 8.24 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 3 | 8.24 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 3 | 8.24 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 2 | 8.24 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 2 | 8.24 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 2 | 8.24 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 10 | 8.24 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 10 | 8.24 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 16 | 8.24 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 16 | 8.24 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 1 | 8.24 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 1 | 8.24 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 8 | 8.24 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 8 | 8.24 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 13 | 8.24 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 8 | 8.24 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 3 | 8.24 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 3 | 8.24 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 2 | 8.24 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 2 | 8.24 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 2 | 8.24 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 2 | 8.24 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 16 | 8.23 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 12 | 8.23 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 3 | 8.23 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 3 | 8.23 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 17 | 8.23 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 4 | 8.23 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 7 | 8.23 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 7 | 8.23 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 7 | 8.23 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 7 | 8.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 7 | 8.23 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 7 | 8.23 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 7 | 8.23 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 7 | 8.23 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 7 | 8.23 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 16 | 8.23 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 15 | 8.23 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 15 | 8.23 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 15 | 8.23 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 1 | 8.23 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 1 | 8.23 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 3 | 8.23 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 3 | 8.23 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 18 | 8.23 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 7 | 8.23 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 8.23 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 1 | 8.23 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 11 | 8.23 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 11 | 8.23 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 11 | 8.23 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 1 | 8.23 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 14 | 8.22 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 13 | 8.22 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 20 | 8.22 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 20 | 8.22 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 1 | 8.22 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 1 | 8.22 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 1 | 8.22 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 1 | 8.22 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 17 | 8.22 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 17 | 8.22 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 3 | 8.22 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 3 | 8.22 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 2 | 8.22 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 2 | 8.22 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 2 | 8.22 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 4 | 8.22 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 4 | 8.22 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 9 | 8.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 10 | 8.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 10 | 8.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 10 | 8.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 15 | 8.22 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 3 | 8.22 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 20 | 8.22 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 20 | 8.22 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 20 | 8.22 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 2 | 8.22 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 4 | 8.21 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 12 | 8.21 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 16 | 8.21 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 8.21 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 8.21 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 8.21 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 8.21 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 8.21 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 8.21 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 13 | 8.21 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 13 | 8.21 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 15 | 8.21 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 15 | 8.21 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 16 | 8.21 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 16 | 8.21 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 13 | 8.21 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 13 | 8.21 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 13 | 8.21 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 15 | 8.21 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 15 | 8.21 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 1 | 8.21 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 17 | 8.21 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 19 | 8.21 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 19 | 8.21 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 8.21 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 8.21 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 8.21 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 8.21 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 8.21 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 8.21 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 15 | 8.21 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 15 | 8.21 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 13 | 8.21 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 13 | 8.21 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 13 | 8.21 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 19 | 8.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 19 | 8.21 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 7 | 8.2 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 7 | 8.2 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 14 | 8.2 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 19 | 8.2 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 19 | 8.2 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 19 | 8.2 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 19 | 8.2 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 3 | 8.2 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 3 | 8.2 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 18 | 8.2 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 18 | 8.2 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 10 | 8.2 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 6 | 8.2 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 6 | 8.2 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 17 | 8.2 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 13 | 8.2 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 6 | 8.2 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 6 | 8.2 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 6 | 8.2 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 4 | 8.2 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 16 | 8.2 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 16 | 8.2 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 16 | 8.2 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 7 | 8.2 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 3 | 8.2 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 3 | 8.2 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 9 | 8.2 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 5 | 8.2 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 5 | 8.2 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 5 | 8.2 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 4 | 8.2 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 17 | 8.19 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 17 | 8.19 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 19 | 8.19 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 19 | 8.19 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 4 | 8.19 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 4 | 8.19 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 11 | 8.19 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 19 | 8.19 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 19 | 8.19 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 10 | 8.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 10 | 8.19 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 10 | 8.19 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 4 | 8.19 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 13 | 8.19 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 13 | 8.19 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 13 | 8.19 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 4 | 8.19 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 4 | 8.19 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 8.19 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 8.19 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 8.19 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 8 | 8.19 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 8.19 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 8.19 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 8.19 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 13 | 8.19 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 13 | 8.19 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 13 | 8.19 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 8 | 8.18 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 17 | 8.18 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 16 | 8.18 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 13 | 8.18 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 13 | 8.18 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 2 | 8.18 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 2 | 8.18 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 2 | 8.18 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 2 | 8.18 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 2 | 8.18 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 2 | 8.18 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 9 | 8.18 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 9 | 8.18 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 19 | 8.18 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 19 | 8.18 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 10 | 8.18 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 10 | 8.18 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 19 | 8.18 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 19 | 8.18 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 18 | 8.18 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 18 | 8.18 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 18 | 8.18 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 6 | 8.18 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 6 | 8.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 6 | 8.18 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 1 | 8.18 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 1 | 8.18 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 1 | 8.18 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 14 | 8.18 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 5 | 8.18 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 15 | 8.18 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 15 | 8.18 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 15 | 8.18 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 2 | 8.18 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 2 | 8.18 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 2 | 8.18 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 2 | 8.18 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 2 | 8.18 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 2 | 8.18 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 19 | 8.18 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 19 | 8.18 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 8 | 8.18 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 5 | 8.18 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 5 | 8.17 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 8 | 8.17 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 18 | 8.17 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 6 | 8.17 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 9 | 8.17 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 17 | 8.17 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 14 | 8.17 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 9 | 8.17 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 9 | 8.17 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 9 | 8.17 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 2 | 8.17 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 9 | 8.17 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 9 | 8.17 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 9 | 8.17 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 13 | 8.17 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 4 | 8.17 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 17 | 8.16 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 17 | 8.16 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 5 | 8.16 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 5 | 8.16 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 4 | 8.16 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 4 | 8.16 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 16 | 8.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 16 | 8.16 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 15 | 8.16 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 15 | 8.16 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 6 | 8.16 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 6 | 8.16 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 6 | 8.16 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 6 | 8.16 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 1 | 8.16 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 1 | 8.16 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 1 | 8.16 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 8 | 8.16 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 8 | 8.16 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 20 | 8.16 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 7 | 8.16 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 18 | 8.16 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 15 | 8.16 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 15 | 8.16 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 1 | 8.16 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 1 | 8.16 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 1 | 8.16 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 6 | 8.16 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 6 | 8.16 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 6 | 8.16 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 13 | 8.16 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 9 | 8.16 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 15 | 8.16 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 15 | 8.16 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 1 | 8.16 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 13 | 8.16 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 20 | 8.16 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 16 | 8.16 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 7 | 8.16 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 18 | 8.16 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 15 | 8.16 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 15 | 8.16 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 8.16 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 8.16 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 8.16 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 9 | 8.15 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 3 | 8.15 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 3 | 8.15 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 18 | 8.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 18 | 8.15 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 19 | 8.15 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 19 | 8.15 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 19 | 8.15 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 19 | 8.15 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 11 | 8.15 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 11 | 8.15 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 11 | 8.15 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 11 | 8.15 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 11 | 8.15 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 11 | 8.15 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 8 | 8.15 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 8 | 8.15 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 16 | 8.15 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 16 | 8.15 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 17 | 8.15 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 17 | 8.15 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 6 | 8.15 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 6 | 8.15 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 6 | 8.15 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 4 | 8.15 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 4 | 8.15 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 4 | 8.15 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 14 | 8.15 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 4 | 8.15 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 9 | 8.15 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 9 | 8.15 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 9 | 8.15 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 6 | 8.15 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 3 | 8.15 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 3 | 8.15 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 3 | 8.15 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 11 | 8.15 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 11 | 8.15 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 11 | 8.15 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 11 | 8.15 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 11 | 8.15 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 11 | 8.15 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 1 | 8.15 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 1 | 8.15 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 1 | 8.15 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 9 | 8.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 4 | 8.15 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 18 | 8.15 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 16 | 8.15 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 14 | 8.15 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 8.15 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 4 | 8.15 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 8.15 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 8.15 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 8.15 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 4 | 8.15 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 9 | 8.15 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 9 | 8.15 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 9 | 8.15 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 4 | 8.14 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE21 | 15 | 8.14 |
| (4,129) | 1:90:A:ASN:CB | 1:33:A:GLN:HE22 | 15 | 8.14 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 4 | 8.14 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 12 | 8.14 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 4 | 8.14 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 7 | 8.14 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 10 | 8.14 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 10 | 8.14 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 10 | 8.14 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 10 | 8.14 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 13 | 8.14 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 13 | 8.14 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 13 | 8.14 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 13 | 8.14 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 14 | 8.14 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 14 | 8.14 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 18 | 8.14 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 18 | 8.14 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 18 | 8.14 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 4 | 8.14 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 4 | 8.14 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 4 | 8.14 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 20 | 8.14 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 20 | 8.14 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 20 | 8.14 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 4 | 8.14 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 4 | 8.14 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 4 | 8.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 1 | 8.14 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 1 | 8.14 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 7 | 8.14 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 7 | 8.14 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 9 | 8.14 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 9 | 8.14 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 9 | 8.14 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 3 | 8.14 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 3 | 8.14 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 3 | 8.14 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 1 | 8.14 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 1 | 8.14 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 1 | 8.14 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 9 | 8.14 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 11 | 8.14 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 11 | 8.14 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 9 | 8.14 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 9 | 8.14 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 18 | 8.14 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 9 | 8.14 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 3 | 8.14 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 3 | 8.14 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 3 | 8.14 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 3 | 8.13 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 15 | 8.13 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 9 | 8.13 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 9 | 8.13 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 8 | 8.13 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 8 | 8.13 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 15 | 8.13 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 15 | 8.13 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 4 | 8.13 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 18 | 8.13 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 5 | 8.13 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 5 | 8.13 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 7 | 8.13 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 18 | 8.13 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 4 | 8.13 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 4 | 8.13 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 4 | 8.13 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 15 | 8.13 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 15 | 8.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 15 | 8.13 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 18 | 8.12 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 16 | 8.12 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 12 | 8.12 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 11 | 8.12 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 11 | 8.12 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 11 | 8.12 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 11 | 8.12 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 11 | 8.12 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 11 | 8.12 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 7 | 8.12 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 7 | 8.12 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 7 | 8.12 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 7 | 8.12 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 3 | 8.12 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 20 | 8.12 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 20 | 8.12 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 20 | 8.12 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 15 | 8.12 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 19 | 8.12 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 1 | 8.12 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 1 | 8.12 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 13 | 8.12 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 13 | 8.12 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 13 | 8.12 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 13 | 8.12 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 13 | 8.12 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 13 | 8.12 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 14 | 8.12 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 4 | 8.12 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 4 | 8.12 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 4 | 8.12 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 10 | 8.12 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 10 | 8.12 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 14 | 8.12 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 15 | 8.12 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 11 | 8.12 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 11 | 8.12 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 11 | 8.12 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 13 | 8.12 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 13 | 8.12 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 13 | 8.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 13 | 8.12 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 13 | 8.12 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 13 | 8.12 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 14 | 8.12 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 4 | 8.12 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 4 | 8.12 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 4 | 8.12 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 5 | 8.11 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 5 | 8.11 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 12 | 8.11 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 12 | 8.11 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 7 | 8.11 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 7 | 8.11 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 7 | 8.11 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 7 | 8.11 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 7 | 8.11 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 7 | 8.11 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 2 | 8.11 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 2 | 8.11 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 2 | 8.11 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 2 | 8.11 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 2 | 8.11 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 2 | 8.11 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 14 | 8.11 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 14 | 8.11 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 20 | 8.11 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 20 | 8.11 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 20 | 8.11 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 20 | 8.11 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 18 | 8.11 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 18 | 8.11 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 18 | 8.11 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 15 | 8.11 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 17 | 8.11 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 17 | 8.11 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 18 | 8.11 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 18 | 8.11 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 9 | 8.11 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 7 | 8.11 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 7 | 8.11 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 7 | 8.11 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 7 | 8.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 7 | 8.11 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 7 | 8.11 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 9 | 8.11 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 16 | 8.11 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 16 | 8.11 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 17 | 8.11 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 17 | 8.11 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 9 | 8.11 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 10 | 8.1 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 7 | 8.1 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 14 | 8.1 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 9 | 8.1 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 9 | 8.1 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 9 | 8.1 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 4 | 8.1 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 4 | 8.1 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 4 | 8.1 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 3 | 8.1 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 19 | 8.1 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 13 | 8.1 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 13 | 8.1 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 7 | 8.1 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 19 | 8.1 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 19 | 8.1 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 19 | 8.1 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 19 | 8.1 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 19 | 8.1 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 19 | 8.1 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 19 | 8.1 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 20 | 8.1 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 20 | 8.1 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 20 | 8.1 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 1 | 8.1 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 1 | 8.1 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 1 | 8.1 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 7 | 8.1 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 7 | 8.1 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 7 | 8.1 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 3 | 8.1 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 19 | 8.1 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 16 | 8.1 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 16 | 8.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 16 | 8.1 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 10 | 8.1 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 15 | 8.1 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 19 | 8.1 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 19 | 8.1 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 19 | 8.1 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 19 | 8.1 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 19 | 8.1 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 19 | 8.1 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 12 | 8.09 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 17 | 8.09 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 17 | 8.09 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 16 | 8.09 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 18 | 8.09 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 18 | 8.09 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 13 | 8.09 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 13 | 8.09 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 10 | 8.09 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 10 | 8.09 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 15 | 8.09 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 14 | 8.09 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 14 | 8.09 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 4 | 8.09 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 8.09 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 8.09 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 8.09 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 17 | 8.09 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 17 | 8.09 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 1 | 8.09 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 10 | 8.09 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 10 | 8.09 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 4 | 8.09 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 14 | 8.09 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 14 | 8.09 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 3 | 8.09 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 3 | 8.09 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 3 | 8.09 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 14 | 8.09 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 8.09 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 15 | 8.09 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 15 | 8.09 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 15 | 8.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 4 | 8.09 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 3 | 8.09 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 3 | 8.09 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 19 | 8.08 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 8 | 8.08 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 3 | 8.08 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 11 | 8.08 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 11 | 8.08 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 16 | 8.08 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 16 | 8.08 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 16 | 8.08 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 16 | 8.08 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 13 | 8.08 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 13 | 8.08 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 1 | 8.08 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 8 | 8.08 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 8 | 8.08 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 12 | 8.08 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 12 | 8.08 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 12 | 8.08 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 2 | 8.08 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 2 | 8.08 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 2 | 8.08 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 5 | 8.08 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 18 | 8.08 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 8.08 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 11 | 8.08 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 11 | 8.08 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 17 | 8.08 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 19 | 8.08 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 9 | 8.08 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 9 | 8.08 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 9 | 8.08 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 2 | 8.08 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 2 | 8.08 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 2 | 8.08 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 10 | 8.08 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 8 | 8.08 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 8 | 8.08 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 8 | 8.08 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 12 | 8.07 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 18 | 8.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 7 | 8.07 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 4 | 8.07 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 4 | 8.07 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 11 | 8.07 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 11 | 8.07 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 4 | 8.07 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 4 | 8.07 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 16 | 8.07 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 16 | 8.07 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 16 | 8.07 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 16 | 8.07 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 3 | 8.07 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 3 | 8.07 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 13 | 8.07 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 13 | 8.07 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 10 | 8.07 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 10 | 8.07 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 10 | 8.07 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 7 | 8.07 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 7 | 8.07 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 7 | 8.07 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 2 | 8.07 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 14 | 8.07 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 14 | 8.07 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 16 | 8.07 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 15 | 8.07 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 1 | 8.07 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 1 | 8.07 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 9 | 8.07 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 4 | 8.07 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 4 | 8.07 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 4 | 8.07 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 16 | 8.07 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 13 | 8.07 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 13 | 8.07 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 13 | 8.07 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 7 | 8.07 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 16 | 8.07 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 15 | 8.07 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 8.07 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 8.07 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 8.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 7 | 8.06 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 3 | 8.06 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 2 | 8.06 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 18 | 8.06 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 4 | 8.06 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 5 | 8.06 |
| (4,32) | 1:15:A:MET:CB | 1:83:A:GLU:H | 18 | 8.06 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 19 | 8.06 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 14 | 8.06 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 14 | 8.06 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 8.06 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 8.06 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 8.06 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 8.06 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 8.06 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 8.06 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 12 | 8.06 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 12 | 8.06 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 18 | 8.06 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 18 | 8.06 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 19 | 8.06 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 19 | 8.06 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 19 | 8.06 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 19 | 8.06 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 4 | 8.06 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 4 | 8.06 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 11 | 8.06 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 11 | 8.06 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 1 | 8.06 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 1 | 8.06 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 9 | 8.06 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 9 | 8.06 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 9 | 8.06 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 9 | 8.06 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 9 | 8.06 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 9 | 8.06 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 13 | 8.06 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 13 | 8.06 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 18 | 8.06 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 12 | 8.06 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 12 | 8.06 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 12 | 8.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 5 | 8.06 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 13 | 8.06 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 13 | 8.06 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 13 | 8.06 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 17 | 8.06 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 17 | 8.06 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 1 | 8.06 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 8.06 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 8.06 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 8.06 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 8.06 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 8.06 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 8.06 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 12 | 8.06 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 12 | 8.06 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 19 | 8.06 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 19 | 8.06 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 19 | 8.06 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 19 | 8.06 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 5 | 8.06 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 10 | 8.05 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 15 | 8.05 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 15 | 8.05 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 16 | 8.05 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 16 | 8.05 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 15 | 8.05 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 8 | 8.05 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 17 | 8.05 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 2 | 8.05 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 2 | 8.05 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 8 | 8.05 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 8 | 8.05 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 8 | 8.05 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 11 | 8.05 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 19 | 8.05 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 14 | 8.05 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 14 | 8.05 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 3 | 8.05 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 3 | 8.05 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 3 | 8.05 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 8.05 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 17 | 8.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 14 | 8.05 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 14 | 8.05 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 12 | 8.05 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 20 | 8.04 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 10 | 8.04 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 12 | 8.04 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 12 | 8.04 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 12 | 8.04 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 12 | 8.04 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 9 | 8.04 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 9 | 8.04 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 6 | 8.04 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 6 | 8.04 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 6 | 8.04 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 6 | 8.04 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 7 | 8.04 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 7 | 8.04 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 19 | 8.04 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 19 | 8.04 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 20 | 8.04 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 20 | 8.04 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 20 | 8.04 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 20 | 8.04 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 20 | 8.04 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 20 | 8.04 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 20 | 8.04 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 20 | 8.04 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 20 | 8.04 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 7 | 8.04 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 7 | 8.04 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 7 | 8.04 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 8 | 8.04 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 7 | 8.04 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 12 | 8.04 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 13 | 8.04 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 13 | 8.04 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 13 | 8.04 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 6 | 8.04 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 6 | 8.04 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 12 | 8.04 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 12 | 8.04 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 12 | 8.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 12 | 8.04 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 19 | 8.04 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 13 | 8.04 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 13 | 8.04 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 7 | 8.04 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 7 | 8.04 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 12 | 8.04 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 14 | 8.03 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 8 | 8.03 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 6 | 8.03 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 15 | 8.03 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 15 | 8.03 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 11 | 8.03 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 11 | 8.03 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 7 | 8.03 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 7 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 8 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 8 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 8 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 8 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 8 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 8 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 10 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 10 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 10 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 10 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 10 | 8.03 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 10 | 8.03 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 7 | 8.03 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 7 | 8.03 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 20 | 8.03 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 20 | 8.03 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 7 | 8.03 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 7 | 8.03 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 1 | 8.03 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 1 | 8.03 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 1 | 8.03 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 1 | 8.03 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 16 | 8.03 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 5 | 8.03 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 20 | 8.03 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 20 | 8.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 20 | 8.03 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 4 | 8.03 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 4 | 8.03 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 4 | 8.03 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 1 | 8.03 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 15 | 8.03 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 11 | 8.03 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 7 | 8.03 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 9 | 8.03 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 1 | 8.03 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 1 | 8.03 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 10 | 8.03 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 10 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 8 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 8 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 8 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 8 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 8 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 8 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 10 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 10 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 10 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 10 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 10 | 8.03 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 10 | 8.03 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 11 | 8.03 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 11 | 8.03 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 11 | 8.03 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 11 | 8.03 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 7 | 8.03 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 7 | 8.03 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 10 | 8.03 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 1 | 8.03 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 15 | 8.03 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 11 | 8.03 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 17 | 8.03 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 12 | 8.02 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 12 | 8.02 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 17 | 8.02 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 20 | 8.02 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 20 | 8.02 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 20 | 8.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 20 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 5 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 5 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 5 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 5 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 5 | 8.02 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 5 | 8.02 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 13 | 8.02 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 13 | 8.02 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 13 | 8.02 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 13 | 8.02 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 3 | 8.02 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 3 | 8.02 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 3 | 8.02 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 3 | 8.02 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 3 | 8.02 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 3 | 8.02 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 10 | 8.02 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 10 | 8.02 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 10 | 8.02 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 10 | 8.02 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 1 | 8.02 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 16 | 8.02 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 7 | 8.02 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 7 | 8.02 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 7 | 8.02 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 11 | 8.02 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 7 | 8.02 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 17 | 8.02 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 20 | 8.02 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 12 | 8.02 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 18 | 8.02 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 18 | 8.02 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 18 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 5 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 5 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 5 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 5 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 5 | 8.02 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 5 | 8.02 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 4 | 8.02 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 3 | 8.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 8 | 8.02 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 20 | 8.02 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 1 | 8.02 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 1 | 8.02 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 18 | 8.01 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 10 | 8.01 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 10 | 8.01 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 10 | 8.01 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 10 | 8.01 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 17 | 8.01 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 17 | 8.01 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 18 | 8.01 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 18 | 8.01 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 8 | 8.01 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 8 | 8.01 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 8 | 8.01 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 10 | 8.01 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 14 | 8.01 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 14 | 8.01 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 14 | 8.01 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 7 | 8.01 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 14 | 8.01 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 12 | 8.01 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 12 | 8.01 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 12 | 8.01 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 9 | 8.01 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 9 | 8.01 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 8.01 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 8.01 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 8.01 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 1 | 8.01 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 13 | 8.01 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 9 | 8.01 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 17 | 8.01 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 14 | 8.01 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 16 | 8.01 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 17 | 8.01 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 9 | 8.01 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 1 | 8.01 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 15 | 8.01 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 8.01 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 8.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 8.01 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 7 | 8.01 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 2 | 8.0 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 4 | 8.0 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 13 | 8.0 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 9 | 8.0 |
| (4,143) | 1:98:A:SER:CB | 1:2:A:ALA:H | 4 | 8.0 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 12 | 8.0 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 2 | 8.0 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 6 | 8.0 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 19 | 8.0 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 19 | 8.0 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 15 | 8.0 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 15 | 8.0 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 15 | 8.0 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 15 | 8.0 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 19 | 8.0 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 19 | 8.0 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 19 | 8.0 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 19 | 8.0 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 11 | 8.0 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 11 | 8.0 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 11 | 8.0 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 8.0 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 8.0 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 9 | 8.0 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 2 | 8.0 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 15 | 8.0 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 4 | 8.0 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 4 | 8.0 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 4 | 8.0 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 11 | 8.0 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 15 | 8.0 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 15 | 8.0 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 6 | 8.0 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 6 | 8.0 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 6 | 8.0 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 7 | 7.99 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 19 | 7.99 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 8 | 7.99 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 14 | 7.99 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 14 | 7.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 4 | 7.99 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 4 | 7.99 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 12 | 7.99 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 12 | 7.99 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 13 | 7.99 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 19 | 7.99 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 14 | 7.99 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 14 | 7.99 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 14 | 7.99 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 4 | 7.99 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 15 | 7.99 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 19 | 7.99 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 19 | 7.99 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 19 | 7.99 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 12 | 7.99 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 15 | 7.99 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 18 | 7.99 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 15 | 7.99 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 4 | 7.99 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 4 | 7.99 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 4 | 7.99 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 20 | 7.99 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 15 | 7.99 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 19 | 7.99 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 8 | 7.99 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 12 | 7.99 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 15 | 7.99 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 18 | 7.99 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 15 | 7.99 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 14 | 7.99 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 2 | 7.98 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 6 | 7.98 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 17 | 7.98 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 13 | 7.98 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 13 | 7.98 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 16 | 7.98 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 16 | 7.98 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 16 | 7.98 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 16 | 7.98 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 7 | 7.98 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 7 | 7.98 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 13 | 7.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 8 | 7.98 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 8 | 7.98 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 9 | 7.98 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 7 | 7.98 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 18 | 7.98 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 9 | 7.98 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 9 | 7.98 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 20 | 7.98 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 20 | 7.98 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 5 | 7.98 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 5 | 7.98 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 5 | 7.98 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 17 | 7.98 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 13 | 7.98 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 13 | 7.98 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 2 | 7.98 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 16 | 7.98 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 9 | 7.98 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 9 | 7.98 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 20 | 7.98 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 20 | 7.98 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 9 | 7.98 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 4 | 7.98 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 4 | 7.98 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 4 | 7.98 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 20 | 7.97 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 2 | 7.97 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 2 | 7.97 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 2 | 7.97 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 2 | 7.97 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 10 | 7.97 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 10 | 7.97 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 6 | 7.97 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 6 | 7.97 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 19 | 7.97 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 20 | 7.97 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 20 | 7.97 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 4 | 7.97 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 9 | 7.97 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 14 | 7.97 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 14 | 7.97 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 14 | 7.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 5 | 7.97 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 5 | 7.97 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 5 | 7.97 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 11 | 7.97 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 8 | 7.97 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 9 | 7.97 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 14 | 7.97 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 14 | 7.97 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 14 | 7.97 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 15 | 7.97 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 10 | 7.97 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 16 | 7.97 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 5 | 7.96 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 18 | 7.96 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 19 | 7.96 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 13 | 7.96 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 9 | 7.96 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 9 | 7.96 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 1 | 7.96 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 1 | 7.96 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 4 | 7.96 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 17 | 7.96 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 1 | 7.96 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 1 | 7.96 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 1 | 7.96 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 1 | 7.96 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 1 | 7.96 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 1 | 7.96 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 1 | 7.96 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 1 | 7.96 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 1 | 7.96 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 16 | 7.96 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 10 | 7.96 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 10 | 7.96 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 8 | 7.96 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 8 | 7.96 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 4 | 7.96 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 4 | 7.96 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 4 | 7.96 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 10 | 7.96 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 19 | 7.96 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 15 | 7.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 15 | 7.96 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 15 | 7.96 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 8 | 7.96 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 8 | 7.96 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 9 | 7.96 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 9 | 7.96 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 16 | 7.96 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 16 | 7.96 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 16 | 7.96 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 2 | 7.96 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 4 | 7.96 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 4 | 7.96 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 4 | 7.96 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 7.96 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 7.96 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 7.96 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 2 | 7.96 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 10 | 7.96 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 19 | 7.96 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 16 | 7.95 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 19 | 7.95 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 19 | 7.95 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 16 | 7.95 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 8 | 7.95 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 8 | 7.95 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 16 | 7.95 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 16 | 7.95 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 16 | 7.95 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 16 | 7.95 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 16 | 7.95 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 16 | 7.95 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 20 | 7.95 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 20 | 7.95 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 20 | 7.95 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 20 | 7.95 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 20 | 7.95 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 2 | 7.95 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 6 | 7.95 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 6 | 7.95 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 11 | 7.95 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 11 | 7.95 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 11 | 7.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 2 | 7.95 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 3 | 7.95 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 3 | 7.95 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 3 | 7.95 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 3 | 7.95 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 7.95 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 19 | 7.95 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 19 | 7.95 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 16 | 7.95 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 10 | 7.95 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 13 | 7.95 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 11 | 7.95 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 11 | 7.95 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 11 | 7.95 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 13 | 7.95 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 7 | 7.95 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 2 | 7.95 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 2 | 7.94 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 2 | 7.94 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 1 | 7.94 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 1 | 7.94 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 12 | 7.94 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 12 | 7.94 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 12 | 7.94 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 12 | 7.94 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 6 | 7.94 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 8 | 7.94 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 12 | 7.94 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 19 | 7.94 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 19 | 7.94 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 19 | 7.94 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 18 | 7.94 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 4 | 7.94 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 15 | 7.94 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 15 | 7.94 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 15 | 7.94 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 5 | 7.94 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 5 | 7.94 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 5 | 7.94 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 6 | 7.94 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 10 | 7.94 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 10 | 7.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 10 | 7.94 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 4 | 7.94 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 15 | 7.94 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 15 | 7.94 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 15 | 7.94 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 5 | 7.94 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 5 | 7.94 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 5 | 7.94 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 11 | 7.93 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 6 | 7.93 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 6 | 7.93 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 16 | 7.93 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 16 | 7.93 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 2 | 7.93 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 2 | 7.93 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 5 | 7.93 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 5 | 7.93 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 5 | 7.93 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 5 | 7.93 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 7 | 7.93 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 7 | 7.93 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 7 | 7.93 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 14 | 7.93 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 3 | 7.93 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 3 | 7.93 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 16 | 7.93 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 7 | 7.93 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 7 | 7.93 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 9 | 7.93 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 9 | 7.93 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 15 | 7.93 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 6 | 7.93 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 4 | 7.93 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 3 | 7.93 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 6 | 7.93 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 14 | 7.93 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 16 | 7.93 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 9 | 7.93 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 9 | 7.93 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 9 | 7.93 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 12 | 7.93 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 12 | 7.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 11 | 7.93 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 15 | 7.93 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 6 | 7.93 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 8 | 7.93 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 8 | 7.93 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 8 | 7.93 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 9 | 7.93 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 9 | 7.93 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 9 | 7.93 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 12 | 7.93 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 12 | 7.93 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 19 | 7.92 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 11 | 7.92 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 16 | 7.92 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 5 | 7.92 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 16 | 7.92 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 16 | 7.92 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 16 | 7.92 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 16 | 7.92 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 2 | 7.92 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 2 | 7.92 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 7 | 7.92 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 7 | 7.92 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 18 | 7.92 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 18 | 7.92 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 12 | 7.92 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 1 | 7.92 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 16 | 7.92 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 16 | 7.92 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 16 | 7.92 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 10 | 7.92 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 4 | 7.92 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 11 | 7.92 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 15 | 7.92 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 1 | 7.92 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 20 | 7.92 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 20 | 7.92 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 20 | 7.92 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 2 | 7.92 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 2 | 7.92 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 2 | 7.92 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 15 | 7.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 3 | 7.92 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 19 | 7.92 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 1 | 7.92 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 7.92 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 7.92 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 7.92 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 20 | 7.92 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 20 | 7.92 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 20 | 7.92 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 2 | 7.92 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 2 | 7.92 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 2 | 7.92 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 14 | 7.92 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 14 | 7.92 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 14 | 7.92 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 13 | 7.91 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 13 | 7.91 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 17 | 7.91 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 17 | 7.91 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 4 | 7.91 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 8 | 7.91 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 8 | 7.91 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 8 | 7.91 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 20 | 7.91 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 13 | 7.91 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 17 | 7.91 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 17 | 7.91 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 17 | 7.91 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 13 | 7.91 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 13 | 7.91 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 13 | 7.91 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 12 | 7.91 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 18 | 7.91 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 8 | 7.91 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 7 | 7.91 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 7 | 7.91 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 7 | 7.91 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 10 | 7.91 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 13 | 7.91 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 13 | 7.91 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 13 | 7.91 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 13 | 7.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 13 | 7.91 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 7 | 7.91 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 8 | 7.91 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 12 | 7.91 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 19 | 7.91 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 18 | 7.91 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 8 | 7.91 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 4 | 7.9 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 9 | 7.9 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 6 | 7.9 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 10 | 7.9 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 10 | 7.9 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 10 | 7.9 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 10 | 7.9 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 10 | 7.9 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 10 | 7.9 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 17 | 7.9 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 17 | 7.9 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 5 | 7.9 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 5 | 7.9 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 10 | 7.9 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 10 | 7.9 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 10 | 7.9 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 8 | 7.9 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 8 | 7.9 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 8 | 7.9 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 12 | 7.9 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 12 | 7.9 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 1 | 7.9 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 1 | 7.9 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 13 | 7.9 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 13 | 7.9 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 13 | 7.9 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 16 | 7.9 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 16 | 7.9 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 16 | 7.9 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 16 | 7.9 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 16 | 7.9 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 16 | 7.9 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 13 | 7.9 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 13 | 7.9 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 13 | 7.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 13 | 7.9 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 13 | 7.9 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 13 | 7.9 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 13 | 7.9 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 13 | 7.9 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 13 | 7.9 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 13 | 7.9 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 13 | 7.9 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 13 | 7.9 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 12 | 7.9 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 9 | 7.9 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 5 | 7.9 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 9 | 7.9 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 5 | 7.9 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 5 | 7.9 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 6 | 7.9 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 1 | 7.9 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 1 | 7.9 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 19 | 7.9 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 19 | 7.9 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 13 | 7.9 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 13 | 7.9 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 13 | 7.9 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 16 | 7.9 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 16 | 7.9 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 16 | 7.9 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 19 | 7.9 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 16 | 7.9 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 16 | 7.9 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 16 | 7.9 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 2 | 7.89 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 20 | 7.89 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 20 | 7.89 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 20 | 7.89 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 20 | 7.89 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 12 | 7.89 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 12 | 7.89 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 3 | 7.89 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 3 | 7.89 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 12 | 7.89 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 12 | 7.89 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 12 | 7.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 12 | 7.89 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 11 | 7.89 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 11 | 7.89 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 12 | 7.89 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 12 | 7.89 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 13 | 7.89 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 13 | 7.89 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 13 | 7.89 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 4 | 7.89 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 2 | 7.89 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 20 | 7.89 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 7 | 7.89 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 7 | 7.89 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 11 | 7.89 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 2 | 7.89 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 12 | 7.89 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 18 | 7.89 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 15 | 7.89 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 15 | 7.89 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 2 | 7.89 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 8 | 7.89 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 13 | 7.89 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 13 | 7.89 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 13 | 7.89 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 13 | 7.89 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 16 | 7.89 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 16 | 7.89 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 16 | 7.89 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 6 | 7.89 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 6 | 7.89 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 6 | 7.89 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 16 | 7.89 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 17 | 7.89 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 17 | 7.89 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 17 | 7.89 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 11 | 7.89 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 8 | 7.89 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 13 | 7.89 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 13 | 7.89 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 13 | 7.89 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 11 | 7.88 |
| (4,90) | 1:15:A:MET:CB | 1:151:A:PHE:H | 5 | 7.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 8 | 7.88 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 8 | 7.88 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 15 | 7.88 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 15 | 7.88 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 15 | 7.88 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 15 | 7.88 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 14 | 7.88 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 14 | 7.88 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 14 | 7.88 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 14 | 7.88 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 12 | 7.88 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 12 | 7.88 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 7 | 7.88 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 7 | 7.88 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 6 | 7.88 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 6 | 7.88 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 2 | 7.88 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 2 | 7.88 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 2 | 7.88 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 2 | 7.88 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 2 | 7.88 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 2 | 7.88 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 15 | 7.88 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 5 | 7.88 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 13 | 7.88 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 5 | 7.88 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 5 | 7.88 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 5 | 7.88 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 2 | 7.88 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 2 | 7.88 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 17 | 7.88 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 17 | 7.88 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 12 | 7.88 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 12 | 7.88 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 12 | 7.88 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 4 | 7.88 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 4 | 7.88 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 7 | 7.88 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 3 | 7.88 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 3 | 7.88 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 3 | 7.88 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 13 | 7.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 13 | 7.88 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 8 | 7.88 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 8 | 7.88 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 11 | 7.88 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 7 | 7.88 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 1 | 7.88 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 3 | 7.88 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 3 | 7.88 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 3 | 7.88 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 3 | 7.88 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 19 | 7.88 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 15 | 7.88 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 4 | 7.88 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 1 | 7.87 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 15 | 7.87 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 12 | 7.87 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 12 | 7.87 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 1 | 7.87 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 1 | 7.87 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 2 | 7.87 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 2 | 7.87 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 14 | 7.87 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 14 | 7.87 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 3 | 7.87 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 3 | 7.87 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 2 | 7.87 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 8 | 7.87 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 8 | 7.87 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 8 | 7.87 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 15 | 7.87 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 15 | 7.87 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 19 | 7.87 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 19 | 7.87 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 19 | 7.87 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 20 | 7.87 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 9 | 7.87 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 9 | 7.87 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 9 | 7.87 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 7 | 7.87 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 11 | 7.87 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 11 | 7.87 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 11 | 7.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 3 | 7.87 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 3 | 7.87 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 18 | 7.87 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 18 | 7.87 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 18 | 7.87 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 8 | 7.87 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 8 | 7.87 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 8 | 7.87 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 4 | 7.87 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 4 | 7.87 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 4 | 7.87 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 17 | 7.87 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 1 | 7.87 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 1 | 7.87 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 2 | 7.87 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 2 | 7.87 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 14 | 7.87 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 3 | 7.87 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 3 | 7.87 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 18 | 7.87 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 18 | 7.87 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 18 | 7.87 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 9 | 7.87 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 8 | 7.87 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 15 | 7.86 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 20 | 7.86 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 3 | 7.86 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 3 | 7.86 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 10 | 7.86 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 10 | 7.86 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 11 | 7.86 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 11 | 7.86 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 14 | 7.86 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 14 | 7.86 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 18 | 7.86 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 18 | 7.86 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 10 | 7.86 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 10 | 7.86 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 10 | 7.86 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 8 | 7.86 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 4 | 7.86 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 4 | 7.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 14 | 7.86 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 4 | 7.86 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 4 | 7.86 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 4 | 7.86 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 16 | 7.86 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 16 | 7.86 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 20 | 7.86 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 7 | 7.86 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 7 | 7.86 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 20 | 7.86 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 4 | 7.86 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 4 | 7.86 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 5 | 7.86 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 5 | 7.86 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 7 | 7.86 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 7 | 7.86 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 7 | 7.86 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 5 | 7.86 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 7 | 7.86 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 7 | 7.86 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 20 | 7.86 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 3 | 7.86 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 4 | 7.86 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 4 | 7.86 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 5 | 7.86 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 5 | 7.86 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 18 | 7.85 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 8 | 7.85 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 13 | 7.85 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 5 | 7.85 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 20 | 7.85 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 20 | 7.85 |
| (4,137) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 12 | 7.85 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 8 | 7.85 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 2 | 7.85 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 2 | 7.85 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 2 | 7.85 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 2 | 7.85 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 17 | 7.85 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 17 | 7.85 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 17 | 7.85 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 17 | 7.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 20 | 7.85 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 20 | 7.85 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 5 | 7.85 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 5 | 7.85 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 5 | 7.85 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 5 | 7.85 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 5 | 7.85 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 5 | 7.85 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 6 | 7.85 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 4 | 7.85 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 4 | 7.85 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 4 | 7.85 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 5 | 7.85 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 5 | 7.85 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 12 | 7.85 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 12 | 7.85 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 12 | 7.85 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 19 | 7.85 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 14 | 7.85 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 4 | 7.85 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 4 | 7.85 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 4 | 7.85 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 17 | 7.85 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 15 | 7.85 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 15 | 7.85 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 15 | 7.85 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 15 | 7.85 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 15 | 7.85 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 15 | 7.85 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 15 | 7.85 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 15 | 7.85 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 15 | 7.85 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 2 | 7.85 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 2 | 7.85 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 2 | 7.85 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 2 | 7.85 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 19 | 7.85 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 17 | 7.85 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 17 | 7.85 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 12 | 7.85 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 13 | 7.85 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 8 | 7.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 11 | 7.85 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 14 | 7.85 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 4 | 7.85 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 4 | 7.85 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 4 | 7.85 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 11 | 7.85 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 17 | 7.85 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 16 | 7.85 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 6 | 7.84 |
| (4,188) | 1:131:A:GLN:CB | 1:14:A:ARG:H | 18 | 7.84 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 12 | 7.84 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 9 | 7.84 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 12 | 7.84 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 6 | 7.84 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 6 | 7.84 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 9 | 7.84 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 9 | 7.84 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 9 | 7.84 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 9 | 7.84 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 9 | 7.84 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 9 | 7.84 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 6 | 7.84 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 6 | 7.84 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 6 | 7.84 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 6 | 7.84 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 6 | 7.84 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 6 | 7.84 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 1 | 7.84 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 1 | 7.84 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 6 | 7.84 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 6 | 7.84 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 16 | 7.84 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 16 | 7.84 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 10 | 7.84 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 8 | 7.84 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 14 | 7.84 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 6 | 7.84 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 6 | 7.84 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 4 | 7.84 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 9 | 7.84 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 9 | 7.84 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 9 | 7.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 9 | 7.84 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 9 | 7.84 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 9 | 7.84 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 12 | 7.84 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 7.84 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 9 | 7.83 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 13 | 7.83 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 13 | 7.83 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 13 | 7.83 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 13 | 7.83 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 13 | 7.83 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 13 | 7.83 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 6 | 7.83 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 6 | 7.83 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 1 | 7.83 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 1 | 7.83 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 1 | 7.83 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 1 | 7.83 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 14 | 7.83 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 14 | 7.83 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 14 | 7.83 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 14 | 7.83 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 4 | 7.83 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 4 | 7.83 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 5 | 7.83 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 18 | 7.83 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 18 | 7.83 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 18 | 7.83 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 7 | 7.83 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 7 | 7.83 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 12 | 7.83 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 17 | 7.83 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 17 | 7.83 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 11 | 7.83 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 11 | 7.83 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 11 | 7.83 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 11 | 7.83 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 1 | 7.83 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 1 | 7.83 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 16 | 7.83 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 16 | 7.83 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 19 | 7.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 19 | 7.83 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 8 | 7.83 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 4 | 7.83 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 18 | 7.83 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 6 | 7.83 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 6 | 7.83 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 16 | 7.83 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 16 | 7.83 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 16 | 7.83 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 2 | 7.83 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 2 | 7.83 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 2 | 7.83 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 2 | 7.83 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 4 | 7.83 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 2 | 7.82 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 9 | 7.82 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 5 | 7.82 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 5 | 7.82 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 19 | 7.82 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 19 | 7.82 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 19 | 7.82 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 19 | 7.82 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 19 | 7.82 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 19 | 7.82 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 5 | 7.82 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 5 | 7.82 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 2 | 7.82 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 2 | 7.82 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 7 | 7.82 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 15 | 7.82 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 13 | 7.82 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 13 | 7.82 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 13 | 7.82 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 2 | 7.82 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 20 | 7.82 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 20 | 7.82 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 7 | 7.82 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 8 | 7.82 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 5 | 7.82 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 5 | 7.82 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 5 | 7.82 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 19 | 7.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 19 | 7.82 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 19 | 7.82 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 19 | 7.82 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 19 | 7.82 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 19 | 7.82 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 7.82 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 6 | 7.82 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 7 | 7.82 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 10 | 7.82 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 15 | 7.82 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 18 | 7.82 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 8 | 7.82 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 3 | 7.81 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 3 | 7.81 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 18 | 7.81 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 18 | 7.81 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 18 | 7.81 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 18 | 7.81 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 18 | 7.81 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 18 | 7.81 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 14 | 7.81 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 14 | 7.81 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 2 | 7.81 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 2 | 7.81 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 15 | 7.81 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 15 | 7.81 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 12 | 7.81 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 12 | 7.81 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 9 | 7.81 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 9 | 7.81 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 9 | 7.81 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 16 | 7.81 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 16 | 7.81 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 16 | 7.81 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 9 | 7.81 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 9 | 7.81 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 9 | 7.81 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 9 | 7.81 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 9 | 7.81 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 9 | 7.81 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 15 | 7.81 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 15 | 7.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 15 | 7.81 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 9 | 7.81 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 9 | 7.81 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 9 | 7.81 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 13 | 7.81 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 11 | 7.81 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 11 | 7.81 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 11 | 7.81 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 3 | 7.81 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 10 | 7.81 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 3 | 7.81 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 3 | 7.81 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 14 | 7.81 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 14 | 7.81 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 11 | 7.81 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 11 | 7.81 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 11 | 7.81 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 11 | 7.81 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 13 | 7.8 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 13 | 7.8 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 13 | 7.8 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 13 | 7.8 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 9 | 7.8 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 9 | 7.8 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 4 | 7.8 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 4 | 7.8 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 8 | 7.8 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 8 | 7.8 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 8 | 7.8 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 8 | 7.8 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 7 | 7.8 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 7 | 7.8 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 7 | 7.8 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 7 | 7.8 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 4 | 7.8 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 13 | 7.8 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 13 | 7.8 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 15 | 7.8 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 15 | 7.8 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 15 | 7.8 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 15 | 7.8 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 15 | 7.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 15 | 7.8 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 16 | 7.8 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 16 | 7.8 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 16 | 7.8 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 16 | 7.8 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 16 | 7.8 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 9 | 7.8 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 4 | 7.8 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 4 | 7.8 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 4 | 7.8 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 4 | 7.8 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 4 | 7.8 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 4 | 7.8 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 1 | 7.8 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 11 | 7.8 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 4 | 7.8 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 4 | 7.8 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 4 | 7.8 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 11 | 7.8 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 11 | 7.8 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 11 | 7.8 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 4 | 7.8 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 4 | 7.8 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 18 | 7.8 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 18 | 7.8 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 18 | 7.8 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 10 | 7.8 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 10 | 7.8 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 10 | 7.8 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 3 | 7.8 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 3 | 7.8 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 9 | 7.8 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 9 | 7.8 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 9 | 7.8 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 9 | 7.8 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 9 | 7.8 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 7 | 7.8 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 7 | 7.8 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 7 | 7.8 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 7 | 7.8 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 11 | 7.8 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 11 | 7.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 11 | 7.8 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 11 | 7.8 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 4 | 7.8 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 4 | 7.8 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 18 | 7.8 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 18 | 7.8 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 18 | 7.8 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 16 | 7.8 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 16 | 7.8 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 10 | 7.8 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 10 | 7.8 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 10 | 7.8 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 3 | 7.8 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 3 | 7.8 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 9 | 7.8 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 9 | 7.8 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 4 | 7.79 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 5 | 7.79 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 5 | 7.79 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 5 | 7.79 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 5 | 7.79 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 5 | 7.79 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 5 | 7.79 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 11 | 7.79 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 11 | 7.79 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 11 | 7.79 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 11 | 7.79 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 11 | 7.79 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 11 | 7.79 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 8 | 7.79 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 8 | 7.79 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 8 | 7.79 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 8 | 7.79 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 5 | 7.79 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 5 | 7.79 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 5 | 7.79 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 5 | 7.79 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 5 | 7.79 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 5 | 7.79 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 11 | 7.79 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 11 | 7.79 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 11 | 7.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 11 | 7.79 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 11 | 7.79 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 11 | 7.79 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 11 | 7.79 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 11 | 7.79 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 11 | 7.79 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 11 | 7.79 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 17 | 7.79 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 9 | 7.79 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 11 | 7.79 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 11 | 7.79 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 11 | 7.79 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 9 | 7.79 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 9 | 7.79 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 5 | 7.79 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 5 | 7.79 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 5 | 7.79 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 5 | 7.79 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 5 | 7.79 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 5 | 7.79 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 11 | 7.79 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 11 | 7.79 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 8 | 7.79 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 8 | 7.79 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 8 | 7.79 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 8 | 7.79 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 5 | 7.79 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 5 | 7.79 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 5 | 7.79 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 5 | 7.79 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 5 | 7.79 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 5 | 7.79 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 1 | 7.79 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 1 | 7.79 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 1 | 7.79 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 7.79 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 7.79 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 7.79 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 10 | 7.79 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 11 | 7.79 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 1 | 7.79 |
| (4,119) | 1:90:A:ASN:CB | 1:22:A:VAL:H | 11 | 7.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 12 | 7.78 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 18 | 7.78 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 7.78 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 7.78 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 7.78 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 7.78 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 7.78 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 7.78 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 1 | 7.78 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 1 | 7.78 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 7 | 7.78 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 7 | 7.78 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 13 | 7.78 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 13 | 7.78 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 11 | 7.78 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 11 | 7.78 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 11 | 7.78 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 11 | 7.78 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 11 | 7.78 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 11 | 7.78 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 8 | 7.78 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 8 | 7.78 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 8 | 7.78 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 6 | 7.78 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 14 | 7.78 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 15 | 7.78 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 15 | 7.78 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 15 | 7.78 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 15 | 7.78 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 11 | 7.78 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 11 | 7.78 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 11 | 7.78 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 16 | 7.78 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 16 | 7.78 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 16 | 7.78 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 8 | 7.78 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 8 | 7.78 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 8 | 7.78 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 13 | 7.78 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 13 | 7.78 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 13 | 7.78 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 7.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 7.78 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 7.78 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 7.78 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 7.78 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 7.78 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 11 | 7.78 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 11 | 7.78 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 12 | 7.78 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 18 | 7.78 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 18 | 7.78 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 18 | 7.78 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 8 | 7.78 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 16 | 7.78 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 16 | 7.78 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 16 | 7.78 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 8 | 7.78 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 8 | 7.78 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 8 | 7.78 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 10 | 7.77 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 13 | 7.77 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 12 | 7.77 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 12 | 7.77 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 12 | 7.77 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 12 | 7.77 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 12 | 7.77 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 12 | 7.77 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 12 | 7.77 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 12 | 7.77 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 4 | 7.77 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 4 | 7.77 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 11 | 7.77 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 15 | 7.77 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 2 | 7.77 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 2 | 7.77 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 5 | 7.77 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 17 | 7.77 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 16 | 7.77 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 12 | 7.77 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 12 | 7.77 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 12 | 7.77 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 12 | 7.77 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 12 | 7.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 12 | 7.77 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 4 | 7.77 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 4 | 7.77 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 3 | 7.77 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 5 | 7.77 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 13 | 7.77 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 17 | 7.77 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 18 | 7.76 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 9 | 7.76 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 4 | 7.76 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 2 | 7.76 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 9 | 7.76 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 9 | 7.76 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 17 | 7.76 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 17 | 7.76 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 20 | 7.76 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 15 | 7.76 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 20 | 7.76 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 1 | 7.76 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 1 | 7.76 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 1 | 7.76 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 18 | 7.76 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 18 | 7.76 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 12 | 7.76 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 19 | 7.76 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 19 | 7.76 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 19 | 7.76 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 17 | 7.76 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 5 | 7.76 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 1 | 7.76 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 11 | 7.76 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 7 | 7.76 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 6 | 7.76 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 6 | 7.76 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 17 | 7.76 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 17 | 7.76 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 17 | 7.76 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 17 | 7.76 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 17 | 7.76 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 17 | 7.76 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 17 | 7.76 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 17 | 7.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 17 | 7.76 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 15 | 7.76 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 15 | 7.76 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 15 | 7.76 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 20 | 7.76 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 14 | 7.76 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 17 | 7.76 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 1 | 7.76 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 1 | 7.76 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 1 | 7.76 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 2 | 7.76 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 11 | 7.76 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 10 | 7.76 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 10 | 7.76 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 10 | 7.76 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 7 | 7.76 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 6 | 7.76 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 6 | 7.76 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 12 | 7.76 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 12 | 7.76 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 12 | 7.76 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 19 | 7.75 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 7 | 7.75 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 7 | 7.75 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 12 | 7.75 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 5 | 7.75 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 5 | 7.75 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 15 | 7.75 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 19 | 7.75 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 3 | 7.75 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 3 | 7.75 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 3 | 7.75 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 3 | 7.75 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 3 | 7.75 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 3 | 7.75 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 3 | 7.75 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 3 | 7.75 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 3 | 7.75 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 1 | 7.75 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 6 | 7.75 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 6 | 7.75 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 6 | 7.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 11 | 7.75 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 15 | 7.75 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 15 | 7.75 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 18 | 7.75 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 18 | 7.75 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 18 | 7.75 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 2 | 7.75 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 2 | 7.75 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 2 | 7.75 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 9 | 7.75 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 7 | 7.75 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 7 | 7.75 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 10 | 7.75 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 10 | 7.75 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 10 | 7.75 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 6 | 7.75 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 1 | 7.75 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 19 | 7.75 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 19 | 7.75 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 19 | 7.75 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 19 | 7.75 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 19 | 7.75 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 19 | 7.75 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 18 | 7.75 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 18 | 7.75 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 18 | 7.75 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 2 | 7.75 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 2 | 7.75 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 2 | 7.75 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 8 | 7.74 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 4 | 7.74 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 4 | 7.74 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 9 | 7.74 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 9 | 7.74 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 4 | 7.74 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 4 | 7.74 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 6 | 7.74 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 6 | 7.74 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 14 | 7.74 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 14 | 7.74 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 14 | 7.74 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 12 | 7.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 12 | 7.74 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 8 | 7.74 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 3 | 7.74 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 3 | 7.74 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 13 | 7.74 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 13 | 7.74 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 13 | 7.74 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 14 | 7.74 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 8 | 7.74 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 1 | 7.74 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 16 | 7.74 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 8 | 7.74 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 8 | 7.74 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 8 | 7.74 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 11 | 7.74 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 11 | 7.74 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 11 | 7.74 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 11 | 7.74 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 11 | 7.74 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 11 | 7.74 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 16 | 7.74 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 8 | 7.74 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 8 | 7.74 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 8 | 7.74 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 9 | 7.74 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 9 | 7.74 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 9 | 7.74 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 6 | 7.74 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 14 | 7.74 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 16 | 7.74 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 17 | 7.74 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 8 | 7.74 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 8 | 7.74 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 8 | 7.74 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 9 | 7.74 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 9 | 7.74 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 9 | 7.74 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 18 | 7.73 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 18 | 7.73 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 20 | 7.73 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 20 | 7.73 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 20 | 7.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 20 | 7.73 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 20 | 7.73 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 20 | 7.73 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 11 | 7.73 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 7.73 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 20 | 7.73 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 20 | 7.73 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 20 | 7.73 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 9 | 7.73 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 20 | 7.73 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 20 | 7.73 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 20 | 7.73 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 19 | 7.73 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 4 | 7.73 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 4 | 7.73 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 13 | 7.73 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 4 | 7.73 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 2 | 7.73 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 8 | 7.73 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 18 | 7.73 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 14 | 7.73 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 14 | 7.73 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 14 | 7.73 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 14 | 7.73 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 1 | 7.73 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 17 | 7.73 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 12 | 7.73 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 18 | 7.73 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 18 | 7.73 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 18 | 7.73 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 1 | 7.73 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 1 | 7.73 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 1 | 7.73 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 14 | 7.73 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 14 | 7.73 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 14 | 7.73 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 14 | 7.73 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 14 | 7.73 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 14 | 7.73 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 14 | 7.73 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 2 | 7.73 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 11 | 7.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 18 | 7.72 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 18 | 7.72 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 18 | 7.72 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 18 | 7.72 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 17 | 7.72 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 17 | 7.72 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 17 | 7.72 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 17 | 7.72 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 20 | 7.72 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 20 | 7.72 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 10 | 7.72 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 10 | 7.72 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 15 | 7.72 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 15 | 7.72 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 16 | 7.72 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 16 | 7.72 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 16 | 7.72 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 3 | 7.72 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 3 | 7.72 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 13 | 7.72 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 13 | 7.72 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 13 | 7.72 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 17 | 7.72 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 3 | 7.72 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 3 | 7.72 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 3 | 7.72 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 1 | 7.72 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 1 | 7.72 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 7 | 7.72 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 7 | 7.72 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 7 | 7.72 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 10 | 7.72 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 10 | 7.72 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 10 | 7.72 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 10 | 7.72 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 10 | 7.72 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 10 | 7.72 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 10 | 7.72 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 10 | 7.72 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 10 | 7.72 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 16 | 7.72 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 3 | 7.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 8 | 7.72 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 8 | 7.72 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 8 | 7.72 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 8 | 7.72 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 12 | 7.72 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 12 | 7.72 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 12 | 7.72 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 12 | 7.72 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 1 | 7.72 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 1 | 7.72 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 7.72 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 7.72 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 7.72 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 8 | 7.72 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 13 | 7.72 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 7 | 7.72 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 7 | 7.72 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 7 | 7.72 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 8 | 7.71 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 19 | 7.71 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 19 | 7.71 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 2 | 7.71 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 10 | 7.71 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 10 | 7.71 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 10 | 7.71 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 10 | 7.71 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 4 | 7.71 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 4 | 7.71 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 18 | 7.71 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 18 | 7.71 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 18 | 7.71 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 18 | 7.71 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 18 | 7.71 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 18 | 7.71 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 12 | 7.71 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 12 | 7.71 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 5 | 7.71 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 5 | 7.71 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 6 | 7.71 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 6 | 7.71 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 6 | 7.71 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 10 | 7.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 10 | 7.71 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 10 | 7.71 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 3 | 7.71 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 3 | 7.71 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 2 | 7.71 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 2 | 7.71 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 2 | 7.71 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 9 | 7.71 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 9 | 7.71 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 10 | 7.71 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 5 | 7.71 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 19 | 7.71 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 12 | 7.71 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 12 | 7.71 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 12 | 7.71 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 5 | 7.71 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 5 | 7.71 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 5 | 7.71 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 17 | 7.71 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 17 | 7.71 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 17 | 7.71 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 5 | 7.71 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 5 | 7.71 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 5 | 7.71 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 10 | 7.71 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 10 | 7.71 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 10 | 7.71 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 10 | 7.71 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 8 | 7.71 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 8 | 7.71 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 8 | 7.71 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 6 | 7.71 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 6 | 7.71 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 6 | 7.71 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 9 | 7.71 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 9 | 7.71 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 9 | 7.71 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 17 | 7.71 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 17 | 7.71 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 17 | 7.71 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 7 | 7.71 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 17 | 7.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 12 | 7.71 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 12 | 7.71 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 12 | 7.71 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 5 | 7.71 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 5 | 7.71 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 5 | 7.71 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 9 | 7.71 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 9 | 7.71 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 17 | 7.71 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 17 | 7.71 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 17 | 7.71 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 4 | 7.7 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 19 | 7.7 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 18 | 7.7 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 18 | 7.7 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 14 | 7.7 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 14 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 15 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 15 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 15 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 15 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 15 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 15 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 16 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 16 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 16 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 16 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 16 | 7.7 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 16 | 7.7 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 14 | 7.7 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 14 | 7.7 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 6 | 7.7 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 6 | 7.7 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 8 | 7.7 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 8 | 7.7 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 14 | 7.7 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 14 | 7.7 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 7 | 7.7 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 7 | 7.7 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 4 | 7.7 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 4 | 7.7 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 16 | 7.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 16 | 7.7 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 16 | 7.7 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 16 | 7.7 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 16 | 7.7 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 9 | 7.7 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 9 | 7.7 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 9 | 7.7 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 14 | 7.7 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 14 | 7.7 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 14 | 7.7 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 11 | 7.7 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 11 | 7.7 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 11 | 7.7 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 19 | 7.7 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 19 | 7.7 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 10 | 7.7 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 20 | 7.7 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 9 | 7.7 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 9 | 7.7 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 9 | 7.7 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 9 | 7.7 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 9 | 7.7 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 9 | 7.7 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 18 | 7.7 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 18 | 7.7 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 14 | 7.7 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 14 | 7.7 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 18 | 7.7 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 18 | 7.7 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 18 | 7.7 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 7 | 7.7 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 7 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 15 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 15 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 15 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 15 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 15 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 15 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 16 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 16 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 16 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 16 | 7.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 16 | 7.7 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 16 | 7.7 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 16 | 7.7 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 7.7 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 7.7 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 7 | 7.7 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 7 | 7.7 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 11 | 7.7 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 11 | 7.7 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 11 | 7.7 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 19 | 7.7 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 19 | 7.7 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 10 | 7.7 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 20 | 7.7 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 3 | 7.7 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 9 | 7.7 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 9 | 7.7 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 9 | 7.7 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 9 | 7.7 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 9 | 7.7 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 9 | 7.7 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 13 | 7.69 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 9 | 7.69 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 9 | 7.69 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 3 | 7.69 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 6 | 7.69 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 6 | 7.69 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 6 | 7.69 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 6 | 7.69 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 8 | 7.69 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 8 | 7.69 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 8 | 7.69 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 8 | 7.69 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 6 | 7.69 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 6 | 7.69 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 6 | 7.69 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 19 | 7.69 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 19 | 7.69 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 19 | 7.69 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 12 | 7.69 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 9 | 7.69 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 9 | 7.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 7 | 7.69 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 7 | 7.69 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 7 | 7.69 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 7 | 7.69 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 16 | 7.69 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 17 | 7.69 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 17 | 7.69 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 17 | 7.69 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 17 | 7.69 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 17 | 7.69 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 17 | 7.69 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 19 | 7.69 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 6 | 7.69 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 1 | 7.69 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 14 | 7.69 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 11 | 7.69 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 11 | 7.69 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 7.69 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 19 | 7.69 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 9 | 7.69 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 14 | 7.69 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 6 | 7.69 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 6 | 7.69 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 6 | 7.69 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 6 | 7.69 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 3 | 7.69 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 11 | 7.69 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 11 | 7.69 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 3 | 7.68 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 3 | 7.68 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 3 | 7.68 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 3 | 7.68 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 3 | 7.68 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 3 | 7.68 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 13 | 7.68 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 13 | 7.68 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 13 | 7.68 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 13 | 7.68 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 13 | 7.68 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 13 | 7.68 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 6 | 7.68 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 6 | 7.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 4 | 7.68 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 4 | 7.68 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 16 | 7.68 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 16 | 7.68 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 12 | 7.68 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 1 | 7.68 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 8 | 7.68 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 8 | 7.68 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 3 | 7.68 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 9 | 7.68 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 5 | 7.68 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 9 | 7.68 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 13 | 7.68 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 13 | 7.68 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 13 | 7.68 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 8 | 7.68 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 8 | 7.68 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 12 | 7.68 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 4 | 7.68 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 4 | 7.68 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 4 | 7.68 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 4 | 7.68 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 4 | 7.68 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 4 | 7.68 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 1 | 7.68 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 1 | 7.68 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 1 | 7.68 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 12 | 7.68 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 12 | 7.68 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 12 | 7.68 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 12 | 7.68 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 12 | 7.68 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 17 | 7.68 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 17 | 7.68 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 13 | 7.68 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 13 | 7.68 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 13 | 7.68 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 13 | 7.68 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 13 | 7.68 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 13 | 7.68 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 9 | 7.68 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 17 | 7.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 17 | 7.68 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 7.68 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 5 | 7.68 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 5 | 7.68 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 4 | 7.68 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 4 | 7.68 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 4 | 7.68 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 4 | 7.68 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 4 | 7.68 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 4 | 7.68 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 15 | 7.68 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 12 | 7.68 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 7.68 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 7.68 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 7.68 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 1 | 7.68 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 1 | 7.68 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 1 | 7.68 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 12 | 7.68 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 12 | 7.68 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 5 | 7.67 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 20 | 7.67 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 10 | 7.67 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 10 | 7.67 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 2 | 7.67 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 2 | 7.67 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 2 | 7.67 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 2 | 7.67 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 1 | 7.67 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 1 | 7.67 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 19 | 7.67 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 19 | 7.67 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 12 | 7.67 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 12 | 7.67 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 4 | 7.67 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 4 | 7.67 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 4 | 7.67 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 4 | 7.67 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 4 | 7.67 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 4 | 7.67 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 4 | 7.67 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 4 | 7.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 18 | 7.67 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 18 | 7.67 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 2 | 7.67 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 2 | 7.67 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 2 | 7.67 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 13 | 7.67 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 9 | 7.67 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 9 | 7.67 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 9 | 7.67 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 20 | 7.67 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 20 | 7.67 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 20 | 7.67 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 8 | 7.67 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 8 | 7.67 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 8 | 7.67 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 15 | 7.67 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 15 | 7.67 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 15 | 7.67 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 15 | 7.67 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 15 | 7.67 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 15 | 7.67 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 13 | 7.67 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 13 | 7.67 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 13 | 7.67 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 8 | 7.67 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 6 | 7.67 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 12 | 7.67 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 12 | 7.67 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 12 | 7.67 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 12 | 7.67 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 12 | 7.67 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 12 | 7.67 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 14 | 7.67 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 14 | 7.67 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 14 | 7.67 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 8 | 7.67 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 13 | 7.67 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 13 | 7.67 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 13 | 7.67 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 13 | 7.67 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 13 | 7.67 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 13 | 7.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 9 | 7.67 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 9 | 7.67 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 9 | 7.67 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 20 | 7.67 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 20 | 7.67 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 19 | 7.67 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 19 | 7.67 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 16 | 7.67 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 1 | 7.67 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 1 | 7.67 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 15 | 7.67 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 9 | 7.67 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 9 | 7.67 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 9 | 7.67 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 4 | 7.67 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 4 | 7.67 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 4 | 7.67 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 4 | 7.67 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 4 | 7.67 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 4 | 7.67 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 4 | 7.67 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 6 | 7.67 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 6 | 7.67 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 6 | 7.67 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 7 | 7.67 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 7 | 7.67 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 7 | 7.67 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 14 | 7.67 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 14 | 7.67 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 14 | 7.67 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 14 | 7.67 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 18 | 7.67 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 11 | 7.67 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 8 | 7.67 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 7.67 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 7 | 7.66 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 12 | 7.66 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 7.66 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 7.66 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 3 | 7.66 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 3 | 7.66 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 3 | 7.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 3 | 7.66 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 3 | 7.66 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 3 | 7.66 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 19 | 7.66 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 19 | 7.66 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 16 | 7.66 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 16 | 7.66 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 9 | 7.66 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 9 | 7.66 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 9 | 7.66 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 9 | 7.66 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 15 | 7.66 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 15 | 7.66 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 9 | 7.66 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 9 | 7.66 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 9 | 7.66 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 9 | 7.66 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 17 | 7.66 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 17 | 7.66 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 17 | 7.66 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 17 | 7.66 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 6 | 7.66 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 6 | 7.66 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 6 | 7.66 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 7 | 7.66 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 1 | 7.66 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 1 | 7.66 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 12 | 7.66 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 12 | 7.66 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 10 | 7.66 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 10 | 7.66 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 10 | 7.66 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 14 | 7.66 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 14 | 7.66 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 1 | 7.66 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 1 | 7.66 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 1 | 7.66 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 3 | 7.66 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 3 | 7.66 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 3 | 7.66 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 18 | 7.66 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 18 | 7.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 18 | 7.66 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 16 | 7.66 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 3 | 7.66 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 3 | 7.66 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 3 | 7.66 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 3 | 7.66 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 3 | 7.66 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 3 | 7.66 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 14 | 7.66 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 7 | 7.66 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 2 | 7.66 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 2 | 7.66 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 2 | 7.66 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 10 | 7.66 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 10 | 7.66 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 10 | 7.66 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 14 | 7.66 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 14 | 7.66 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 1 | 7.66 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 1 | 7.66 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 1 | 7.66 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 4 | 7.66 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 4 | 7.66 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 4 | 7.66 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 3 | 7.66 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 3 | 7.66 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 3 | 7.66 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 16 | 7.65 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 12 | 7.65 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 16 | 7.65 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 18 | 7.65 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 10 | 7.65 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 10 | 7.65 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 11 | 7.65 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 11 | 7.65 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 11 | 7.65 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 11 | 7.65 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 11 | 7.65 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 11 | 7.65 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 11 | 7.65 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 11 | 7.65 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 20 | 7.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 20 | 7.65 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 18 | 7.65 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 18 | 7.65 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 18 | 7.65 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 13 | 7.65 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 20 | 7.65 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 9 | 7.65 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 18 | 7.65 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 18 | 7.65 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 18 | 7.65 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 17 | 7.65 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 2 | 7.65 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 2 | 7.65 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 2 | 7.65 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 18 | 7.65 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 18 | 7.65 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 18 | 7.65 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 10 | 7.65 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 10 | 7.65 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 13 | 7.65 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 19 | 7.65 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 19 | 7.65 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 6 | 7.64 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 20 | 7.64 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 5 | 7.64 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 17 | 7.64 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 17 | 7.64 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 7 | 7.64 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 7 | 7.64 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 7 | 7.64 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 7 | 7.64 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 1 | 7.64 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 1 | 7.64 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 5 | 7.64 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 5 | 7.64 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 5 | 7.64 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 5 | 7.64 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 5 | 7.64 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 5 | 7.64 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 1 | 7.64 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 1 | 7.64 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 20 | 7.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 20 | 7.64 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 20 | 7.64 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 20 | 7.64 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 15 | 7.64 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 15 | 7.64 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 15 | 7.64 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 9 | 7.64 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 17 | 7.64 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 19 | 7.64 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 19 | 7.64 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 11 | 7.64 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 11 | 7.64 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 11 | 7.64 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 19 | 7.64 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 19 | 7.64 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 19 | 7.64 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 18 | 7.64 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 14 | 7.64 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 14 | 7.64 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 14 | 7.64 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 7 | 7.64 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 7 | 7.64 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 7 | 7.64 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 7 | 7.64 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 7 | 7.64 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 7 | 7.64 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 18 | 7.64 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 19 | 7.64 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 19 | 7.64 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 19 | 7.64 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 13 | 7.64 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 13 | 7.64 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 6 | 7.64 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 6 | 7.64 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 6 | 7.64 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 19 | 7.64 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 19 | 7.64 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 19 | 7.64 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 8 | 7.64 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 13 | 7.64 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 6 | 7.64 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 11 | 7.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 7 | 7.64 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 7 | 7.64 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 7 | 7.64 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 7 | 7.64 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 3 | 7.64 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 3 | 7.64 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 14 | 7.64 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 19 | 7.64 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 19 | 7.64 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 15 | 7.64 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 2 | 7.64 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 7.64 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 7.64 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 7.64 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 18 | 7.64 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 19 | 7.64 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 19 | 7.64 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 19 | 7.64 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 17 | 7.64 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 13 | 7.64 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 13 | 7.64 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 17 | 7.64 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 7.64 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 4 | 7.63 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 13 | 7.63 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 4 | 7.63 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 16 | 7.63 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 16 | 7.63 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 5 | 7.63 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 5 | 7.63 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 18 | 7.63 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 1 | 7.63 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 1 | 7.63 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 1 | 7.63 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 5 | 7.63 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 17 | 7.63 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 18 | 7.63 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 18 | 7.63 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 18 | 7.63 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 18 | 7.63 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 18 | 7.63 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 18 | 7.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 18 | 7.63 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 18 | 7.63 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 18 | 7.63 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 18 | 7.63 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 18 | 7.63 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 18 | 7.63 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 14 | 7.63 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 14 | 7.63 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 20 | 7.63 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 18 | 7.63 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 18 | 7.63 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 18 | 7.63 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 17 | 7.63 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 17 | 7.63 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 17 | 7.63 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 6 | 7.63 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 6 | 7.63 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 6 | 7.63 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 3 | 7.63 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 3 | 7.63 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 3 | 7.63 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 13 | 7.63 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 13 | 7.63 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 13 | 7.63 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 9 | 7.63 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 13 | 7.63 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 1 | 7.63 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 5 | 7.63 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 1 | 7.63 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 16 | 7.63 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 17 | 7.63 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 2 | 7.63 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 17 | 7.63 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 17 | 7.63 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 17 | 7.63 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 6 | 7.63 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 6 | 7.63 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 6 | 7.63 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 3 | 7.63 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 3 | 7.63 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 3 | 7.63 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 8 | 7.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 13 | 7.63 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 13 | 7.63 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 13 | 7.63 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 5 | 7.62 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 9 | 7.62 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 6 | 7.62 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 6 | 7.62 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 6 | 7.62 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 6 | 7.62 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 13 | 7.62 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 13 | 7.62 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 18 | 7.62 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 18 | 7.62 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 19 | 7.62 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 19 | 7.62 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 19 | 7.62 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 19 | 7.62 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 17 | 7.62 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 17 | 7.62 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 9 | 7.62 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 9 | 7.62 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 9 | 7.62 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 2 | 7.62 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 2 | 7.62 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 2 | 7.62 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 5 | 7.62 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 18 | 7.62 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 9 | 7.62 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 9 | 7.62 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 9 | 7.62 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 9 | 7.62 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 9 | 7.62 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 9 | 7.62 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 16 | 7.62 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 11 | 7.62 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 1 | 7.62 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 16 | 7.62 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 17 | 7.62 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 8 | 7.62 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 18 | 7.62 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 11 | 7.62 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 1 | 7.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 1 | 7.62 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 1 | 7.62 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 10 | 7.62 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 16 | 7.62 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 16 | 7.62 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 12 | 7.62 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 12 | 7.62 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 7 | 7.62 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 7 | 7.62 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 7 | 7.62 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 12 | 7.62 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 6 | 7.62 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 6 | 7.62 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 6 | 7.62 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 6 | 7.62 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 2 | 7.62 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 3 | 7.62 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 3 | 7.62 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 3 | 7.62 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 15 | 7.62 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 15 | 7.62 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 15 | 7.62 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 17 | 7.62 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 13 | 7.62 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 13 | 7.62 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 18 | 7.62 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 17 | 7.62 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 17 | 7.62 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 7 | 7.62 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 7 | 7.62 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 7 | 7.62 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 12 | 7.62 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 16 | 7.61 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 8 | 7.61 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 8 | 7.61 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 5 | 7.61 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 5 | 7.61 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 5 | 7.61 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 5 | 7.61 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 18 | 7.61 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 13 | 7.61 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 15 | 7.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 15 | 7.61 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 8 | 7.61 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 8 | 7.61 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 8 | 7.61 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 4 | 7.61 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 10 | 7.61 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 6 | 7.61 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 6 | 7.61 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 11 | 7.61 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 7 | 7.61 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 12 | 7.61 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 1 | 7.61 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 1 | 7.61 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 1 | 7.61 |
| (1,4142) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 18 | 7.61 |
| (1,4142) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 18 | 7.61 |
| (1,4142) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 18 | 7.61 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 5 | 7.61 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 5 | 7.61 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 5 | 7.61 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 8 | 7.61 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 5 | 7.61 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 5 | 7.61 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 5 | 7.61 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 5 | 7.61 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 8 | 7.61 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 3 | 7.61 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 7 | 7.61 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 12 | 7.61 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 14 | 7.61 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 1 | 7.61 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 1 | 7.61 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 1 | 7.61 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 3 | 7.6 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 15 | 7.6 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 19 | 7.6 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 19 | 7.6 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 13 | 7.6 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 16 | 7.6 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 5 | 7.6 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 5 | 7.6 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 9 | 7.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 9 | 7.6 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 9 | 7.6 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 9 | 7.6 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 13 | 7.6 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 13 | 7.6 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 13 | 7.6 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 13 | 7.6 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 19 | 7.6 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 19 | 7.6 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 19 | 7.6 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 19 | 7.6 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 19 | 7.6 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 19 | 7.6 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 7 | 7.6 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 7 | 7.6 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 9 | 7.6 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 9 | 7.6 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 9 | 7.6 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 8 | 7.6 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 8 | 7.6 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 9 | 7.6 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 9 | 7.6 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 17 | 7.6 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 17 | 7.6 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 17 | 7.6 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 4 | 7.6 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 7 | 7.6 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 11 | 7.6 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 8 | 7.6 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 20 | 7.6 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 20 | 7.6 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 20 | 7.6 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 1 | 7.6 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 16 | 7.6 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 16 | 7.6 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 9 | 7.6 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 9 | 7.6 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 9 | 7.6 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 7 | 7.6 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 12 | 7.6 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 14 | 7.6 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 9 | 7.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 16 | 7.6 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 9 | 7.6 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 20 | 7.6 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 20 | 7.6 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 20 | 7.6 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 1 | 7.6 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 13 | 7.6 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 13 | 7.6 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 13 | 7.6 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 5 | 7.6 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 1 | 7.6 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 1 | 7.6 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 1 | 7.6 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 16 | 7.6 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 16 | 7.6 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 13 | 7.59 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 13 | 7.59 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 18 | 7.59 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 17 | 7.59 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 17 | 7.59 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 20 | 7.59 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 20 | 7.59 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 4 | 7.59 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 4 | 7.59 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 2 | 7.59 |
| (1,8380) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 2 | 7.59 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 9 | 7.59 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 2 | 7.59 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 2 | 7.59 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 2 | 7.59 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 18 | 7.59 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 18 | 7.59 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 14 | 7.59 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 17 | 7.59 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 17 | 7.59 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 17 | 7.59 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 15 | 7.59 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 5 | 7.59 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 5 | 7.59 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 5 | 7.59 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 2 | 7.59 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 2 | 7.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 2 | 7.59 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 8 | 7.59 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 16 | 7.59 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 16 | 7.59 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 16 | 7.59 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 20 | 7.59 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 20 | 7.59 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 3 | 7.59 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 9 | 7.59 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 16 | 7.59 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 14 | 7.59 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 5 | 7.59 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 6 | 7.59 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 8 | 7.59 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 12 | 7.59 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 12 | 7.59 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 12 | 7.59 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 13 | 7.59 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 5 | 7.59 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 5 | 7.59 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 5 | 7.59 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 2 | 7.59 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 2 | 7.59 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 2 | 7.59 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 8 | 7.59 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 16 | 7.59 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 16 | 7.59 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 16 | 7.59 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 20 | 7.59 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 20 | 7.59 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 9 | 7.59 |
| (4,328) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 20 | 7.58 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 9 | 7.58 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 6 | 7.58 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 8 | 7.58 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 8 | 7.58 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 1 | 7.58 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 1 | 7.58 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 18 | 7.58 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 18 | 7.58 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 10 | 7.58 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 10 | 7.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 19 | 7.58 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 19 | 7.58 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 16 | 7.58 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 16 | 7.58 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 16 | 7.58 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 4 | 7.58 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 4 | 7.58 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 4 | 7.58 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 19 | 7.58 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 11 | 7.58 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 19 | 7.58 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 10 | 7.58 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 10 | 7.58 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 4 | 7.58 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 4 | 7.58 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 4 | 7.58 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 4 | 7.58 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 4 | 7.58 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 4 | 7.58 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 20 | 7.58 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 20 | 7.58 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 20 | 7.58 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 10 | 7.58 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 10 | 7.58 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 10 | 7.58 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 4 | 7.58 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 4 | 7.58 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 4 | 7.58 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 2 | 7.58 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 2 | 7.58 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 2 | 7.58 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 4 | 7.58 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 4 | 7.58 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 4 | 7.58 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 7 | 7.57 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 4 | 7.57 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 3 | 7.57 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 17 | 7.57 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 17 | 7.57 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 17 | 7.57 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 17 | 7.57 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 14 | 7.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 14 | 7.57 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 14 | 7.57 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 14 | 7.57 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 20 | 7.57 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 20 | 7.57 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 20 | 7.57 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 17 | 7.57 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 20 | 7.57 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 14 | 7.57 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 14 | 7.57 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 1 | 7.57 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 11 | 7.57 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 11 | 7.57 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 11 | 7.57 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 6 | 7.57 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 6 | 7.57 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 12 | 7.57 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 12 | 7.57 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 16 | 7.57 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 19 | 7.57 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 17 | 7.57 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 17 | 7.57 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 17 | 7.57 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 16 | 7.57 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 15 | 7.57 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 15 | 7.57 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 13 | 7.57 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 20 | 7.57 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 20 | 7.57 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 20 | 7.57 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 4 | 7.57 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 4 | 7.57 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 4 | 7.57 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 13 | 7.57 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 13 | 7.57 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 13 | 7.57 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 13 | 7.57 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 13 | 7.57 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 13 | 7.57 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 11 | 7.57 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 8 | 7.57 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 8 | 7.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 8 | 7.57 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 14 | 7.57 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 9 | 7.57 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 9 | 7.57 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 9 | 7.57 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 4 | 7.57 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 15 | 7.57 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 15 | 7.57 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 3 | 7.57 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 4 | 7.57 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 13 | 7.57 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 7.57 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 7.57 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 20 | 7.57 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 20 | 7.57 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 20 | 7.57 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 4 | 7.57 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 4 | 7.57 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 4 | 7.57 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 13 | 7.57 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 13 | 7.57 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 13 | 7.57 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 13 | 7.57 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 13 | 7.57 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 13 | 7.57 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 14 | 7.56 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 14 | 7.56 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 14 | 7.56 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 6 | 7.56 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 6 | 7.56 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 6 | 7.56 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 2 | 7.56 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 4 | 7.56 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 9 | 7.56 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 9 | 7.56 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 16 | 7.56 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 16 | 7.56 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 16 | 7.56 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 16 | 7.56 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 16 | 7.56 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 16 | 7.56 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 3 | 7.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 3 | 7.56 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 3 | 7.56 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 4 | 7.56 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 4 | 7.56 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 4 | 7.56 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 20 | 7.56 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 13 | 7.56 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 13 | 7.56 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 18 | 7.56 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 2 | 7.56 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 9 | 7.56 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 1 | 7.56 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 9 | 7.56 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 9 | 7.56 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 9 | 7.56 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 7 | 7.56 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 4 | 7.56 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 13 | 7.56 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 13 | 7.56 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 13 | 7.56 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 10 | 7.56 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 10 | 7.56 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 10 | 7.56 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 7 | 7.56 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 17 | 7.56 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 17 | 7.56 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 19 | 7.56 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 19 | 7.56 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 19 | 7.56 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 7.56 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 2 | 7.56 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 18 | 7.56 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 9 | 7.56 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 2 | 7.56 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 9 | 7.56 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 17 | 7.56 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 19 | 7.56 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 19 | 7.56 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 1 | 7.56 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 5 | 7.56 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 15 | 7.55 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 19 | 7.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 19 | 7.55 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 1 | 7.55 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 1 | 7.55 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 9 | 7.55 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 9 | 7.55 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 10 | 7.55 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 10 | 7.55 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 10 | 7.55 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 10 | 7.55 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 5 | 7.55 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 5 | 7.55 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 5 | 7.55 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 5 | 7.55 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 12 | 7.55 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 12 | 7.55 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 12 | 7.55 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 13 | 7.55 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 13 | 7.55 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 13 | 7.55 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 3 | 7.55 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 3 | 7.55 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 3 | 7.55 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 19 | 7.55 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 9 | 7.55 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 9 | 7.55 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 9 | 7.55 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 15 | 7.55 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 15 | 7.55 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 15 | 7.55 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 5 | 7.55 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 18 | 7.55 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 15 | 7.55 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 13 | 7.55 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 13 | 7.55 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 13 | 7.55 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 4 | 7.55 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 4 | 7.55 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 8 | 7.55 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 8 | 7.55 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 6 | 7.55 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 7 | 7.55 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 10 | 7.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 6 | 7.55 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 1 | 7.55 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 1 | 7.55 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 1 | 7.55 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 1 | 7.55 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 13 | 7.55 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 10 | 7.55 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 10 | 7.55 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 14 | 7.55 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 14 | 7.55 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 7.55 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 15 | 7.55 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 7.55 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 7.55 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 7.55 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 13 | 7.55 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 13 | 7.55 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 13 | 7.55 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 4 | 7.55 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 4 | 7.55 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 8 | 7.55 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 8 | 7.55 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 20 | 7.54 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 3 | 7.54 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 1 | 7.54 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 15 | 7.54 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 17 | 7.54 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 7 | 7.54 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 7 | 7.54 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 7 | 7.54 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 7 | 7.54 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 11 | 7.54 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 11 | 7.54 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 11 | 7.54 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 11 | 7.54 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 15 | 7.54 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 15 | 7.54 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 15 | 7.54 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 15 | 7.54 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 15 | 7.54 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 15 | 7.54 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 20 | 7.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 20 | 7.54 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 20 | 7.54 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 4 | 7.54 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 4 | 7.54 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 4 | 7.54 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 4 | 7.54 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 4 | 7.54 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 4 | 7.54 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 16 | 7.54 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 16 | 7.54 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 2 | 7.54 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 2 | 7.54 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 2 | 7.54 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 19 | 7.54 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 19 | 7.54 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 19 | 7.54 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 1 | 7.54 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 8 | 7.54 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 7 | 7.54 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 8 | 7.54 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 1 | 7.54 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 1 | 7.54 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 1 | 7.54 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 18 | 7.54 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 10 | 7.54 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 14 | 7.54 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 14 | 7.54 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 14 | 7.54 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 15 | 7.54 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 20 | 7.54 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 13 | 7.54 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 13 | 7.54 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 13 | 7.54 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 14 | 7.54 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 14 | 7.54 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 14 | 7.54 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 19 | 7.54 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 10 | 7.54 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 15 | 7.54 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 15 | 7.54 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 15 | 7.54 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 15 | 7.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 15 | 7.54 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 15 | 7.54 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 10 | 7.54 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 14 | 7.54 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 14 | 7.54 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 14 | 7.54 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 15 | 7.54 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 20 | 7.54 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 16 | 7.53 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 18 | 7.53 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 18 | 7.53 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 16 | 7.53 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 16 | 7.53 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 16 | 7.53 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 16 | 7.53 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 6 | 7.53 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 6 | 7.53 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 4 | 7.53 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 4 | 7.53 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 1 | 7.53 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 1 | 7.53 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 1 | 7.53 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 1 | 7.53 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 13 | 7.53 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 13 | 7.53 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 13 | 7.53 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 13 | 7.53 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 13 | 7.53 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 13 | 7.53 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 16 | 7.53 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 10 | 7.53 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 10 | 7.53 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 10 | 7.53 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 19 | 7.53 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 19 | 7.53 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 19 | 7.53 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 12 | 7.53 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 12 | 7.53 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 8 | 7.53 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 13 | 7.53 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 13 | 7.53 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 13 | 7.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 11 | 7.53 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 11 | 7.53 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 11 | 7.53 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 12 | 7.53 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 4 | 7.53 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 4 | 7.53 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 4 | 7.53 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 2 | 7.53 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 5 | 7.53 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 16 | 7.53 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 16 | 7.53 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 5 | 7.53 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 19 | 7.53 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 19 | 7.53 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 19 | 7.53 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 15 | 7.53 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 15 | 7.53 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 15 | 7.53 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 7.53 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 13 | 7.53 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 13 | 7.53 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 13 | 7.53 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 11 | 7.53 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 2 | 7.53 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 2 | 7.53 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 2 | 7.53 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 18 | 7.53 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 11 | 7.53 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 6 | 7.53 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 6 | 7.53 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 10 | 7.53 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 13 | 7.53 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 13 | 7.53 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 13 | 7.53 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 13 | 7.53 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 13 | 7.53 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 13 | 7.53 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 5 | 7.53 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 16 | 7.53 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 16 | 7.53 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 5 | 7.53 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 17 | 7.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 17 | 7.53 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 19 | 7.53 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 19 | 7.53 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 19 | 7.53 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 18 | 7.53 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 19 | 7.52 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 8 | 7.52 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 3 | 7.52 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 4 | 7.52 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 4 | 7.52 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 12 | 7.52 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 12 | 7.52 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 12 | 7.52 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 12 | 7.52 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 15 | 7.52 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 15 | 7.52 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 15 | 7.52 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 15 | 7.52 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 10 | 7.52 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 10 | 7.52 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 1 | 7.52 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 1 | 7.52 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 6 | 7.52 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 6 | 7.52 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 6 | 7.52 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 6 | 7.52 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 6 | 7.52 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 6 | 7.52 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 12 | 7.52 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 12 | 7.52 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 12 | 7.52 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 12 | 7.52 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 11 | 7.52 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 11 | 7.52 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 11 | 7.52 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 10 | 7.52 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 11 | 7.52 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 17 | 7.52 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 1 | 7.52 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 8 | 7.52 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 8 | 7.52 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 8 | 7.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 20 | 7.52 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 20 | 7.52 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 20 | 7.52 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 1 | 7.52 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 1 | 7.52 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 4 | 7.52 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 10 | 7.52 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 5 | 7.52 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 5 | 7.52 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 5 | 7.52 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 13 | 7.52 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 13 | 7.52 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 13 | 7.52 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 9 | 7.52 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 9 | 7.52 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 9 | 7.52 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 16 | 7.52 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 16 | 7.52 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 16 | 7.52 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 6 | 7.52 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 11 | 7.52 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 8 | 7.52 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 18 | 7.52 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 17 | 7.52 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 17 | 7.52 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 2 | 7.52 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 2 | 7.52 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 2 | 7.52 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 9 | 7.52 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 9 | 7.52 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 9 | 7.52 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 9 | 7.52 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 4 | 7.52 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 4 | 7.52 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 1 | 7.52 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 5 | 7.52 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 4 | 7.52 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 6 | 7.52 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 6 | 7.52 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 6 | 7.52 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 6 | 7.52 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 6 | 7.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 6 | 7.52 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 6 | 7.52 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 16 | 7.52 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 14 | 7.52 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 14 | 7.52 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 14 | 7.52 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 11 | 7.52 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 18 | 7.52 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 1 | 7.52 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 5 | 7.52 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 18 | 7.52 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 17 | 7.52 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 17 | 7.52 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 10 | 7.52 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 10 | 7.52 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 10 | 7.52 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 4 | 7.51 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 13 | 7.51 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 13 | 7.51 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 2 | 7.51 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 1 | 7.51 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 19 | 7.51 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 9 | 7.51 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 9 | 7.51 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 9 | 7.51 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 9 | 7.51 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 9 | 7.51 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 9 | 7.51 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 15 | 7.51 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 15 | 7.51 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 17 | 7.51 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 17 | 7.51 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 9 | 7.51 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 9 | 7.51 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 8 | 7.51 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 8 | 7.51 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 15 | 7.51 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 15 | 7.51 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 1 | 7.51 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 1 | 7.51 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 1 | 7.51 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 1 | 7.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 5 | 7.51 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 5 | 7.51 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 5 | 7.51 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 5 | 7.51 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 9 | 7.51 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 9 | 7.51 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 15 | 7.51 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 15 | 7.51 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 15 | 7.51 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 15 | 7.51 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 2 | 7.51 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 2 | 7.51 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 2 | 7.51 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 12 | 7.51 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 12 | 7.51 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 18 | 7.51 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 18 | 7.51 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 18 | 7.51 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 17 | 7.51 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 17 | 7.51 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 17 | 7.51 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 2 | 7.51 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 2 | 7.51 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 9 | 7.51 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 12 | 7.51 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 12 | 7.51 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 9 | 7.51 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 5 | 7.51 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 5 | 7.51 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 5 | 7.51 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 5 | 7.51 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 8 | 7.51 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 9 | 7.51 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 9 | 7.51 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 9 | 7.51 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 9 | 7.51 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 9 | 7.51 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 9 | 7.51 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 9 | 7.51 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 9 | 7.51 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 3 | 7.51 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 3 | 7.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 3 | 7.51 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 18 | 7.51 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 6 | 7.51 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 7.51 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 2 | 7.51 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 2 | 7.51 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 5 | 7.51 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 5 | 7.51 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 8 | 7.51 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 8 | 7.51 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 8 | 7.51 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 9 | 7.5 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 9 | 7.5 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 9 | 7.5 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 9 | 7.5 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 13 | 7.5 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 13 | 7.5 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 19 | 7.5 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 19 | 7.5 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 19 | 7.5 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 19 | 7.5 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 3 | 7.5 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 3 | 7.5 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 5 | 7.5 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 5 | 7.5 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 5 | 7.5 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 19 | 7.5 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 19 | 7.5 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 19 | 7.5 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 2 | 7.5 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 2 | 7.5 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 2 | 7.5 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 15 | 7.5 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 18 | 7.5 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 3 | 7.5 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 1 | 7.5 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 8 | 7.5 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 19 | 7.5 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 16 | 7.5 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 16 | 7.5 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 16 | 7.5 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 13 | 7.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 15 | 7.5 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 15 | 7.5 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 15 | 7.5 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 16 | 7.5 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 1 | 7.5 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 14 | 7.5 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 17 | 7.5 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 17 | 7.5 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 5 | 7.5 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 17 | 7.5 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 14 | 7.5 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 14 | 7.5 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 13 | 7.5 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 2 | 7.5 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 17 | 7.5 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 17 | 7.5 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 12 | 7.5 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 12 | 7.5 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 12 | 7.5 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 1 | 7.49 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 15 | 7.49 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 5 | 7.49 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 18 | 7.49 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 5 | 7.49 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 18 | 7.49 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 8 | 7.49 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 9 | 7.49 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 13 | 7.49 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 13 | 7.49 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 7.49 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 7.49 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 8 | 7.49 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 8 | 7.49 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 8 | 7.49 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 8 | 7.49 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 8 | 7.49 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 8 | 7.49 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 14 | 7.49 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 14 | 7.49 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 9 | 7.49 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 9 | 7.49 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 9 | 7.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 20 | 7.49 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 20 | 7.49 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 20 | 7.49 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 6 | 7.49 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 10 | 7.49 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 10 | 7.49 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 8 | 7.49 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 7 | 7.49 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 14 | 7.49 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 5 | 7.49 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 7 | 7.49 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 15 | 7.49 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 16 | 7.49 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 16 | 7.49 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 1 | 7.49 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 7 | 7.49 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 19 | 7.49 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 19 | 7.49 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 1 | 7.49 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 1 | 7.49 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 1 | 7.49 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 1 | 7.49 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 12 | 7.49 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 9 | 7.49 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 9 | 7.49 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 13 | 7.49 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 13 | 7.49 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 9 | 7.49 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 3 | 7.49 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 17 | 7.49 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 17 | 7.49 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 1 | 7.49 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 13 | 7.49 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 13 | 7.49 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 13 | 7.49 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 12 | 7.49 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 15 | 7.49 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 15 | 7.49 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 15 | 7.49 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 9 | 7.49 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 9 | 7.49 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 4 | 7.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 10 | 7.48 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 15 | 7.48 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 9 | 7.48 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 14 | 7.48 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 14 | 7.48 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 20 | 7.48 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 7.48 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 19 | 7.48 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 19 | 7.48 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 19 | 7.48 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 19 | 7.48 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 19 | 7.48 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 19 | 7.48 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 12 | 7.48 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 12 | 7.48 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 12 | 7.48 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 12 | 7.48 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 9 | 7.48 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 9 | 7.48 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 9 | 7.48 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 1 | 7.48 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 1 | 7.48 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 5 | 7.48 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 5 | 7.48 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 6 | 7.48 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 17 | 7.48 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 3 | 7.48 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 3 | 7.48 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 12 | 7.48 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 5 | 7.48 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 14 | 7.48 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 4 | 7.48 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 14 | 7.48 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 14 | 7.48 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 1 | 7.48 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 1 | 7.48 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 16 | 7.48 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 16 | 7.48 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 16 | 7.48 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 14 | 7.48 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 10 | 7.48 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 10 | 7.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 10 | 7.48 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 12 | 7.48 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 17 | 7.48 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 17 | 7.48 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 17 | 7.48 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 17 | 7.48 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 18 | 7.48 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 20 | 7.48 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 7.48 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 19 | 7.48 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 19 | 7.48 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 19 | 7.48 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 19 | 7.48 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 19 | 7.48 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 19 | 7.48 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 6 | 7.48 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 6 | 7.48 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 6 | 7.48 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 17 | 7.48 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 1 | 7.48 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 1 | 7.48 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 16 | 7.48 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 16 | 7.48 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 16 | 7.48 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 14 | 7.48 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 13 | 7.47 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 13 | 7.47 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 10 | 7.47 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 5 | 7.47 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 5 | 7.47 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 5 | 7.47 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 5 | 7.47 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 2 | 7.47 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 2 | 7.47 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 2 | 7.47 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 2 | 7.47 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 2 | 7.47 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 2 | 7.47 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 2 | 7.47 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 9 | 7.47 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 16 | 7.47 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 16 | 7.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 17 | 7.47 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 17 | 7.47 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 17 | 7.47 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 17 | 7.47 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 17 | 7.47 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 17 | 7.47 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 7 | 7.47 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 7 | 7.47 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 15 | 7.47 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 15 | 7.47 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 19 | 7.47 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 19 | 7.47 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 19 | 7.47 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 19 | 7.47 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 19 | 7.47 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 19 | 7.47 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 10 | 7.47 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 10 | 7.47 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 12 | 7.47 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 12 | 7.47 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 3 | 7.47 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 3 | 7.47 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 16 | 7.47 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 17 | 7.47 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 17 | 7.47 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 17 | 7.47 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 17 | 7.47 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 17 | 7.47 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 17 | 7.47 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 5 | 7.47 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 5 | 7.47 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 14 | 7.47 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 16 | 7.47 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 16 | 7.47 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 16 | 7.47 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 16 | 7.47 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 5 | 7.47 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 5 | 7.47 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 5 | 7.47 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 5 | 7.47 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 17 | 7.47 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 17 | 7.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 1 | 7.47 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 18 | 7.47 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 12 | 7.47 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 12 | 7.47 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 16 | 7.47 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 5 | 7.47 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 7.47 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 17 | 7.47 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 17 | 7.47 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 17 | 7.47 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 17 | 7.47 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 17 | 7.47 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 17 | 7.47 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 18 | 7.47 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 18 | 7.47 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 5 | 7.47 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 5 | 7.47 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 6 | 7.47 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 13 | 7.46 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 15 | 7.46 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 15 | 7.46 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 15 | 7.46 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 15 | 7.46 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 15 | 7.46 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 15 | 7.46 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 15 | 7.46 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 15 | 7.46 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 12 | 7.46 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 12 | 7.46 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 14 | 7.46 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 14 | 7.46 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 16 | 7.46 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 16 | 7.46 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 4 | 7.46 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 4 | 7.46 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 4 | 7.46 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 4 | 7.46 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 11 | 7.46 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 11 | 7.46 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 11 | 7.46 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 7 | 7.46 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 14 | 7.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 4 | 7.46 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 2 | 7.46 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 17 | 7.46 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 17 | 7.46 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 16 | 7.46 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 16 | 7.46 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 16 | 7.46 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 7 | 7.46 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 18 | 7.46 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 11 | 7.46 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 11 | 7.46 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 11 | 7.46 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 20 | 7.46 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 12 | 7.46 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 12 | 7.46 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 2 | 7.46 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 2 | 7.46 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 2 | 7.46 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 16 | 7.46 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 4 | 7.46 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 17 | 7.46 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 17 | 7.46 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 5 | 7.46 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 6 | 7.46 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 5 | 7.46 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 5 | 7.46 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 5 | 7.46 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 5 | 7.46 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 5 | 7.46 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 5 | 7.46 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 15 | 7.46 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 15 | 7.46 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 15 | 7.46 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 15 | 7.46 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 18 | 7.46 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 18 | 7.46 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 6 | 7.46 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 2 | 7.46 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 16 | 7.46 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 17 | 7.46 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 17 | 7.46 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 15 | 7.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 7 | 7.46 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 11 | 7.46 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 5 | 7.46 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 19 | 7.46 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 6 | 7.46 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 5 | 7.46 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 5 | 7.46 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 5 | 7.46 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 5 | 7.46 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 5 | 7.46 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 5 | 7.46 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 11 | 7.45 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 16 | 7.45 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 12 | 7.45 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 2 | 7.45 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 2 | 7.45 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 2 | 7.45 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 2 | 7.45 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 2 | 7.45 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 2 | 7.45 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 9 | 7.45 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 9 | 7.45 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 6 | 7.45 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 6 | 7.45 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 3 | 7.45 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 3 | 7.45 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 5 | 7.45 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 5 | 7.45 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 16 | 7.45 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 16 | 7.45 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 16 | 7.45 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 16 | 7.45 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 16 | 7.45 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 16 | 7.45 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 13 | 7.45 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 13 | 7.45 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 12 | 7.45 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 12 | 7.45 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 12 | 7.45 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 19 | 7.45 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 16 | 7.45 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 16 | 7.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 16 | 7.45 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 14 | 7.45 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 14 | 7.45 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 14 | 7.45 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 12 | 7.45 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 4 | 7.45 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 4 | 7.45 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 4 | 7.45 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 20 | 7.45 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 20 | 7.45 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 20 | 7.45 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 1 | 7.45 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 1 | 7.45 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 1 | 7.45 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 3 | 7.45 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 3 | 7.45 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 3 | 7.45 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 13 | 7.45 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 13 | 7.45 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 12 | 7.45 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 12 | 7.45 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 12 | 7.45 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 12 | 7.45 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 12 | 7.45 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 12 | 7.45 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 20 | 7.45 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 20 | 7.45 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 20 | 7.45 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 12 | 7.45 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 10 | 7.45 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 10 | 7.45 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 10 | 7.45 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 2 | 7.45 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 2 | 7.45 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 2 | 7.45 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 2 | 7.45 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 2 | 7.45 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 2 | 7.45 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 9 | 7.45 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 9 | 7.45 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 4 | 7.45 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 4 | 7.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 4 | 7.45 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 6 | 7.45 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 6 | 7.45 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 16 | 7.45 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 16 | 7.45 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 16 | 7.45 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 16 | 7.45 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 16 | 7.45 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 16 | 7.45 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 13 | 7.45 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 13 | 7.45 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 1 | 7.45 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 1 | 7.45 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 1 | 7.45 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 3 | 7.45 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 3 | 7.45 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 3 | 7.45 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 18 | 7.45 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 13 | 7.45 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 13 | 7.45 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 3 | 7.45 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 5 | 7.45 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 11 | 7.45 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 12 | 7.45 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 12 | 7.45 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 12 | 7.45 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 12 | 7.45 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 12 | 7.45 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 12 | 7.45 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 13 | 7.44 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 13 | 7.44 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 3 | 7.44 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 3 | 7.44 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 3 | 7.44 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 3 | 7.44 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 8 | 7.44 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 8 | 7.44 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 8 | 7.44 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 8 | 7.44 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 8 | 7.44 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 8 | 7.44 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 15 | 7.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 15 | 7.44 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 15 | 7.44 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 15 | 7.44 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 15 | 7.44 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 15 | 7.44 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 15 | 7.44 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 15 | 7.44 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 15 | 7.44 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 15 | 7.44 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 18 | 7.44 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 18 | 7.44 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 15 | 7.44 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 15 | 7.44 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 15 | 7.44 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 12 | 7.44 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 12 | 7.44 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 12 | 7.44 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 20 | 7.44 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 13 | 7.44 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 13 | 7.44 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 13 | 7.44 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 3 | 7.44 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 12 | 7.44 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 12 | 7.44 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 12 | 7.44 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 14 | 7.44 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 14 | 7.44 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 8 | 7.44 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 4 | 7.44 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 18 | 7.44 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 18 | 7.44 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 20 | 7.44 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 5 | 7.44 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 1 | 7.44 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 16 | 7.44 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 11 | 7.44 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 11 | 7.44 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 15 | 7.44 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 15 | 7.44 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 15 | 7.44 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 15 | 7.44 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 15 | 7.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 15 | 7.44 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 18 | 7.44 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 18 | 7.44 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 1 | 7.44 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 20 | 7.44 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 5 | 7.44 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 1 | 7.44 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 16 | 7.44 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 12 | 7.44 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 12 | 7.44 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 19 | 7.43 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 17 | 7.43 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 10 | 7.43 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 18 | 7.43 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 18 | 7.43 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 18 | 7.43 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 18 | 7.43 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 2 | 7.43 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 18 | 7.43 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 18 | 7.43 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 18 | 7.43 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 4 | 7.43 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 4 | 7.43 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 4 | 7.43 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 10 | 7.43 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 10 | 7.43 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 10 | 7.43 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 10 | 7.43 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 10 | 7.43 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 10 | 7.43 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 2 | 7.43 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 2 | 7.43 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 2 | 7.43 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 6 | 7.43 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 6 | 7.43 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 6 | 7.43 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 17 | 7.43 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 17 | 7.43 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 17 | 7.43 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 6 | 7.43 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 17 | 7.43 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 1 | 7.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 1 | 7.43 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 1 | 7.43 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 15 | 7.43 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 15 | 7.43 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 15 | 7.43 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 7 | 7.43 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 7 | 7.43 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 7 | 7.43 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 8 | 7.43 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 8 | 7.43 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 16 | 7.43 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 16 | 7.43 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 16 | 7.43 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 4 | 7.43 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 4 | 7.43 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 4 | 7.43 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 4 | 7.43 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 4 | 7.43 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 4 | 7.43 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 5 | 7.43 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 7.43 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 7.43 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 7.43 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 7 | 7.43 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 7 | 7.43 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 18 | 7.43 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 18 | 7.43 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 18 | 7.43 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 4 | 7.43 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 11 | 7.43 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 1 | 7.43 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 1 | 7.43 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 1 | 7.43 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 15 | 7.43 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 15 | 7.43 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 15 | 7.43 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 7 | 7.43 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 7 | 7.43 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 7 | 7.43 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 7.43 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 7.43 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 7.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 8 | 7.43 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 8 | 7.43 |
| (4,149) | 1:98:A:SER:CB | 1:10:A:GLY:H | 9 | 7.42 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 13 | 7.42 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 13 | 7.42 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 13 | 7.42 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 13 | 7.42 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 13 | 7.42 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 13 | 7.42 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 13 | 7.42 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 20 | 7.42 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 20 | 7.42 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 11 | 7.42 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 11 | 7.42 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 1 | 7.42 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 1 | 7.42 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 1 | 7.42 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 1 | 7.42 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 13 | 7.42 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 2 | 7.42 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 2 | 7.42 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 4 | 7.42 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 4 | 7.42 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 4 | 7.42 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 4 | 7.42 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 4 | 7.42 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 4 | 7.42 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 7 | 7.42 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 4 | 7.42 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 4 | 7.42 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 4 | 7.42 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 9 | 7.42 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 9 | 7.42 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 9 | 7.42 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 15 | 7.42 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 5 | 7.42 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 14 | 7.42 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 2 | 7.42 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 2 | 7.42 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 2 | 7.42 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 16 | 7.42 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 15 | 7.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 15 | 7.42 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 15 | 7.42 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 15 | 7.42 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 15 | 7.42 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 15 | 7.42 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 5 | 7.42 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 6 | 7.42 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 15 | 7.42 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 2 | 7.42 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 2 | 7.42 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 2 | 7.42 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 11 | 7.42 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 1 | 7.42 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 1 | 7.42 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 13 | 7.42 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 13 | 7.42 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 13 | 7.42 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 2 | 7.42 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 2 | 7.42 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 2 | 7.42 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 13 | 7.42 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 13 | 7.42 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 13 | 7.42 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 13 | 7.42 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 13 | 7.42 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 13 | 7.42 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 3 | 7.42 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 9 | 7.42 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 7.42 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 18 | 7.42 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 6 | 7.42 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 19 | 7.42 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 19 | 7.42 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 4 | 7.42 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 7 | 7.42 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 13 | 7.42 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 13 | 7.42 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 13 | 7.42 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 13 | 7.42 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 2 | 7.42 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 2 | 7.42 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 2 | 7.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 11 | 7.42 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 1 | 7.42 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 1 | 7.42 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 7 | 7.42 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 8 | 7.41 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 12 | 7.41 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 12 | 7.41 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 5 | 7.41 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 5 | 7.41 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 5 | 7.41 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 5 | 7.41 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 5 | 7.41 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 5 | 7.41 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 4 | 7.41 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 4 | 7.41 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 7 | 7.41 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 7 | 7.41 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 5 | 7.41 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 5 | 7.41 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 5 | 7.41 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 4 | 7.41 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 4 | 7.41 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 4 | 7.41 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 18 | 7.41 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 18 | 7.41 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 18 | 7.41 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 2 | 7.41 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 2 | 7.41 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 2 | 7.41 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 9 | 7.41 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 9 | 7.41 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 9 | 7.41 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 12 | 7.41 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 12 | 7.41 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 12 | 7.41 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 16 | 7.41 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 16 | 7.41 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 16 | 7.41 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 9 | 7.41 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 4 | 7.41 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 10 | 7.41 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 10 | 7.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 10 | 7.41 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 4 | 7.41 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 4 | 7.41 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 4 | 7.41 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 4 | 7.41 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 4 | 7.41 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 4 | 7.41 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 19 | 7.41 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 19 | 7.41 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 15 | 7.41 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 15 | 7.41 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 17 | 7.41 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 12 | 7.41 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 12 | 7.41 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 12 | 7.41 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 12 | 7.41 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 12 | 7.41 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 12 | 7.41 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 12 | 7.41 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 12 | 7.41 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 12 | 7.41 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 1 | 7.41 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 20 | 7.41 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 7.41 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 7.41 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 7.41 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 1 | 7.41 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 12 | 7.41 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 12 | 7.41 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 8 | 7.41 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 3 | 7.41 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 3 | 7.41 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 3 | 7.41 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 3 | 7.41 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 19 | 7.41 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 19 | 7.41 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 15 | 7.41 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 15 | 7.41 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 17 | 7.41 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 12 | 7.41 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 12 | 7.41 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 12 | 7.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 12 | 7.41 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 12 | 7.41 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 12 | 7.41 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 12 | 7.41 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 12 | 7.41 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 12 | 7.41 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 1 | 7.41 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 11 | 7.41 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 7 | 7.41 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 7 | 7.41 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 7 | 7.41 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 17 | 7.41 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 17 | 7.41 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 17 | 7.41 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 17 | 7.4 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 17 | 7.4 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 17 | 7.4 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 17 | 7.4 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 3 | 7.4 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 3 | 7.4 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 13 | 7.4 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 13 | 7.4 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 13 | 7.4 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 3 | 7.4 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 3 | 7.4 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 3 | 7.4 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 6 | 7.4 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 7 | 7.4 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 7 | 7.4 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 10 | 7.4 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 10 | 7.4 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 10 | 7.4 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 18 | 7.4 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 18 | 7.4 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 18 | 7.4 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 10 | 7.4 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 10 | 7.4 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 10 | 7.4 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 10 | 7.4 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 10 | 7.4 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 10 | 7.4 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 20 | 7.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 20 | 7.4 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 20 | 7.4 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 6 | 7.4 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 8 | 7.4 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 8 | 7.4 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 15 | 7.4 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 13 | 7.4 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 17 | 7.4 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 17 | 7.4 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 17 | 7.4 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 17 | 7.4 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 17 | 7.4 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 17 | 7.4 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 12 | 7.4 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 12 | 7.4 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 12 | 7.4 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 3 | 7.4 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 11 | 7.4 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 6 | 7.4 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 6 | 7.4 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 6 | 7.4 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 6 | 7.4 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 6 | 7.4 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 6 | 7.4 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 6 | 7.4 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 6 | 7.4 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 6 | 7.4 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 8 | 7.4 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 19 | 7.4 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 8 | 7.4 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 3 | 7.4 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 3 | 7.4 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 2 | 7.4 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 16 | 7.4 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 16 | 7.4 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 16 | 7.4 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 20 | 7.4 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 20 | 7.4 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 20 | 7.4 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 6 | 7.4 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 8 | 7.4 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 8 | 7.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 15 | 7.4 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 13 | 7.4 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 17 | 7.4 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 17 | 7.4 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 17 | 7.4 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 17 | 7.4 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 17 | 7.4 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 17 | 7.4 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 12 | 7.4 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 12 | 7.4 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 12 | 7.4 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 3 | 7.4 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 11 | 7.4 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 2 | 7.39 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 13 | 7.39 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 16 | 7.39 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 16 | 7.39 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 9 | 7.39 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 9 | 7.39 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 3 | 7.39 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 3 | 7.39 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 10 | 7.39 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 10 | 7.39 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 10 | 7.39 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 10 | 7.39 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 12 | 7.39 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 12 | 7.39 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 12 | 7.39 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 20 | 7.39 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 8 | 7.39 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 8 | 7.39 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 8 | 7.39 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 14 | 7.39 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 11 | 7.39 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 11 | 7.39 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 11 | 7.39 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 11 | 7.39 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 11 | 7.39 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 11 | 7.39 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 16 | 7.39 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 3 | 7.39 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 3 | 7.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 14 | 7.39 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 3 | 7.39 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 10 | 7.39 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 16 | 7.39 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 3 | 7.39 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 3 | 7.39 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 3 | 7.39 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 16 | 7.39 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 16 | 7.39 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 9 | 7.39 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 9 | 7.39 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 4 | 7.39 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 16 | 7.39 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 11 | 7.39 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 17 | 7.39 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 3 | 7.39 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 10 | 7.39 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 18 | 7.39 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 7 | 7.38 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 7 | 7.38 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 8 | 7.38 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 8 | 7.38 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 13 | 7.38 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 13 | 7.38 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 7 | 7.38 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 7 | 7.38 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 1 | 7.38 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 1 | 7.38 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 1 | 7.38 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 1 | 7.38 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 10 | 7.38 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 10 | 7.38 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 9 | 7.38 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 9 | 7.38 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 9 | 7.38 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 6 | 7.38 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 6 | 7.38 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 6 | 7.38 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 15 | 7.38 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 4 | 7.38 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 17 | 7.38 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 17 | 7.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 11 | 7.38 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 7 | 7.38 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 17 | 7.38 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 17 | 7.38 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 17 | 7.38 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 15 | 7.38 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 15 | 7.38 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 15 | 7.38 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 11 | 7.38 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 11 | 7.38 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 11 | 7.38 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 2 | 7.38 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 19 | 7.38 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 19 | 7.38 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 19 | 7.38 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 16 | 7.38 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 16 | 7.38 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 14 | 7.38 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 6 | 7.38 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 13 | 7.38 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 4 | 7.38 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 4 | 7.38 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 18 | 7.38 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 18 | 7.38 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 18 | 7.38 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 7.38 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 7.38 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 7.38 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 6 | 7.38 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 6 | 7.38 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 6 | 7.38 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 17 | 7.38 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 16 | 7.38 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 7 | 7.38 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 10 | 7.38 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 10 | 7.38 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 10 | 7.38 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 11 | 7.38 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 11 | 7.38 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 11 | 7.38 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 18 | 7.38 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 18 | 7.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 18 | 7.38 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 13 | 7.38 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 4 | 7.38 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 4 | 7.38 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 7.38 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 7.38 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 7.38 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 8 | 7.38 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 18 | 7.38 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 18 | 7.38 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 18 | 7.38 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 8 | 7.37 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 9 | 7.37 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 9 | 7.37 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 9 | 7.37 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 9 | 7.37 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 14 | 7.37 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 14 | 7.37 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 5 | 7.37 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 5 | 7.37 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 6 | 7.37 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 6 | 7.37 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 15 | 7.37 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 15 | 7.37 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 10 | 7.37 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 10 | 7.37 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 16 | 7.37 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 16 | 7.37 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 16 | 7.37 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 1 | 7.37 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 1 | 7.37 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 1 | 7.37 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 8 | 7.37 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 9 | 7.37 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 20 | 7.37 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 20 | 7.37 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 20 | 7.37 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 17 | 7.37 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 17 | 7.37 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 17 | 7.37 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 17 | 7.37 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 17 | 7.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 17 | 7.37 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 17 | 7.37 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 17 | 7.37 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 17 | 7.37 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 6 | 7.37 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 6 | 7.37 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 6 | 7.37 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 20 | 7.37 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 1 | 7.37 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 1 | 7.37 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 11 | 7.37 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 11 | 7.37 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 4 | 7.37 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 1 | 7.37 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 1 | 7.37 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 1 | 7.37 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 15 | 7.37 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 15 | 7.37 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 15 | 7.37 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 8 | 7.37 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 8 | 7.37 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 1 | 7.37 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 2 | 7.37 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 2 | 7.37 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 2 | 7.37 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 8 | 7.37 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 8 | 7.37 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 8 | 7.37 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 7 | 7.37 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 7 | 7.37 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 7 | 7.37 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 7 | 7.37 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 7 | 7.37 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 7 | 7.37 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 7 | 7.37 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 7 | 7.37 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 7 | 7.37 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 8 | 7.37 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 2 | 7.37 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 2 | 7.37 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 11 | 7.37 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 13 | 7.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 13 | 7.37 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 19 | 7.37 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 19 | 7.37 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 19 | 7.37 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 11 | 7.37 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 5 | 7.37 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 11 | 7.37 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 12 | 7.37 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 12 | 7.37 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 12 | 7.37 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 11 | 7.37 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 11 | 7.37 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 4 | 7.37 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 1 | 7.37 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 1 | 7.37 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 1 | 7.37 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 15 | 7.37 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 15 | 7.37 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 15 | 7.37 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 8 | 7.37 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 8 | 7.37 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 1 | 7.37 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 2 | 7.37 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 2 | 7.37 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 2 | 7.37 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 18 | 7.36 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 18 | 7.36 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 8 | 7.36 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 3 | 7.36 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 13 | 7.36 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 13 | 7.36 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 3 | 7.36 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 3 | 7.36 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 10 | 7.36 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 10 | 7.36 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 6 | 7.36 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 6 | 7.36 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 13 | 7.36 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 13 | 7.36 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 13 | 7.36 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 13 | 7.36 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 15 | 7.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 15 | 7.36 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 15 | 7.36 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 15 | 7.36 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 1 | 7.36 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 1 | 7.36 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 1 | 7.36 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 19 | 7.36 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 5 | 7.36 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 9 | 7.36 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 9 | 7.36 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 9 | 7.36 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 10 | 7.36 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 10 | 7.36 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 10 | 7.36 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 7 | 7.36 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 15 | 7.36 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 15 | 7.36 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 15 | 7.36 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 11 | 7.36 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 15 | 7.36 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 1 | 7.36 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 1 | 7.36 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 1 | 7.36 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 18 | 7.36 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 19 | 7.36 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 19 | 7.36 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 13 | 7.36 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 13 | 7.36 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 9 | 7.36 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 9 | 7.36 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 15 | 7.36 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 4 | 7.36 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 13 | 7.36 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 13 | 7.36 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 13 | 7.36 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 13 | 7.36 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 10 | 7.36 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 15 | 7.36 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 15 | 7.36 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 15 | 7.36 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 15 | 7.36 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 15 | 7.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 11 | 7.36 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 5 | 7.36 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 5 | 7.36 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 1 | 7.36 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 1 | 7.36 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 1 | 7.36 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 18 | 7.36 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 19 | 7.36 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 19 | 7.36 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 13 | 7.36 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 2 | 7.36 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 2 | 7.35 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 10 | 7.35 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 3 | 7.35 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 3 | 7.35 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 3 | 7.35 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 14 | 7.35 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 14 | 7.35 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 14 | 7.35 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 14 | 7.35 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 14 | 7.35 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 14 | 7.35 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 9 | 7.35 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 9 | 7.35 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 10 | 7.35 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 5 | 7.35 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 5 | 7.35 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 1 | 7.35 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 15 | 7.35 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 15 | 7.35 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 15 | 7.35 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 8 | 7.35 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 8 | 7.35 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 8 | 7.35 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 8 | 7.35 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 5 | 7.35 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 5 | 7.35 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 5 | 7.35 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 5 | 7.35 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 5 | 7.35 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 5 | 7.35 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 11 | 7.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 20 | 7.35 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 20 | 7.35 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 20 | 7.35 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 6 | 7.35 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 7 | 7.35 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 20 | 7.35 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 11 | 7.35 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 11 | 7.35 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 11 | 7.35 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 3 | 7.35 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 2 | 7.35 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 12 | 7.35 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 12 | 7.35 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 12 | 7.35 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 8 | 7.35 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 10 | 7.35 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 14 | 7.35 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 14 | 7.35 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 14 | 7.35 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 14 | 7.35 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 14 | 7.35 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 14 | 7.35 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 6 | 7.35 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 6 | 7.35 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 11 | 7.35 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 11 | 7.35 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 3 | 7.35 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 14 | 7.35 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 2 | 7.35 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 12 | 7.35 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 12 | 7.35 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 12 | 7.35 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 7.35 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 7.35 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 7.35 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 10 | 7.34 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 15 | 7.34 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 5 | 7.34 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 8 | 7.34 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 6 | 7.34 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 6 | 7.34 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 6 | 7.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 6 | 7.34 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 19 | 7.34 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 19 | 7.34 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 1 | 7.34 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 1 | 7.34 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 1 | 7.34 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 1 | 7.34 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 12 | 7.34 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 12 | 7.34 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 12 | 7.34 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 19 | 7.34 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 19 | 7.34 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 19 | 7.34 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 14 | 7.34 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 14 | 7.34 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 14 | 7.34 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 17 | 7.34 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 17 | 7.34 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 17 | 7.34 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 15 | 7.34 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 13 | 7.34 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 13 | 7.34 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 12 | 7.34 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 12 | 7.34 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 12 | 7.34 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 9 | 7.34 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 9 | 7.34 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 9 | 7.34 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 10 | 7.34 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 3 | 7.34 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 1 | 7.34 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 1 | 7.34 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 12 | 7.34 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 2 | 7.34 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 13 | 7.34 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 4 | 7.34 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 4 | 7.34 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 4 | 7.34 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 7 | 7.34 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 12 | 7.34 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 9 | 7.34 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 17 | 7.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 17 | 7.34 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 17 | 7.34 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 7.34 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 7.34 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 1 | 7.34 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 7.34 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 7.34 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 7.34 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 9 | 7.34 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 9 | 7.34 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 1 | 7.34 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 17 | 7.34 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 12 | 7.34 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 2 | 7.34 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 2 | 7.34 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 10 | 7.34 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 5 | 7.34 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 18 | 7.33 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 12 | 7.33 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 12 | 7.33 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 13 | 7.33 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 13 | 7.33 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 19 | 7.33 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 19 | 7.33 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 1 | 7.33 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 1 | 7.33 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 8 | 7.33 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 8 | 7.33 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 7 | 7.33 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 7 | 7.33 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 4 | 7.33 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 12 | 7.33 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 9 | 7.33 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 9 | 7.33 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 9 | 7.33 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 9 | 7.33 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 9 | 7.33 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 9 | 7.33 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 19 | 7.33 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 6 | 7.33 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 6 | 7.33 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 20 | 7.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 13 | 7.33 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 7.33 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 7.33 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 7.33 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 11 | 7.33 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 7 | 7.33 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 19 | 7.33 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 6 | 7.33 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 9 | 7.33 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 11 | 7.33 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 5 | 7.33 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 6 | 7.33 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 6 | 7.33 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 20 | 7.33 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 18 | 7.33 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 13 | 7.32 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 16 | 7.32 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 11 | 7.32 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 6 | 7.32 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 6 | 7.32 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 6 | 7.32 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 6 | 7.32 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 5 | 7.32 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 5 | 7.32 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 6 | 7.32 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 6 | 7.32 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 6 | 7.32 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 6 | 7.32 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 6 | 7.32 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 6 | 7.32 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 3 | 7.32 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 3 | 7.32 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 4 | 7.32 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 4 | 7.32 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 8 | 7.32 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 8 | 7.32 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 19 | 7.32 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 19 | 7.32 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 16 | 7.32 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 16 | 7.32 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 16 | 7.32 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 16 | 7.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 16 | 7.32 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 16 | 7.32 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 9 | 7.32 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 9 | 7.32 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 7 | 7.32 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 7 | 7.32 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 7 | 7.32 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 7 | 7.32 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 6 | 7.32 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 6 | 7.32 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 6 | 7.32 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 13 | 7.32 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 3 | 7.32 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 3 | 7.32 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 3 | 7.32 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 7 | 7.32 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 4 | 7.32 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 4 | 7.32 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 4 | 7.32 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 7 | 7.32 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 1 | 7.32 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 13 | 7.32 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 17 | 7.32 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 17 | 7.32 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 9 | 7.32 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 9 | 7.32 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 9 | 7.32 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 9 | 7.32 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 9 | 7.32 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 9 | 7.32 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 19 | 7.32 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 8 | 7.32 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 13 | 7.32 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 13 | 7.32 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 13 | 7.32 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 9 | 7.32 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 3 | 7.32 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 5 | 7.32 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 5 | 7.32 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 10 | 7.32 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 6 | 7.32 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 6 | 7.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 6 | 7.32 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 6 | 7.32 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 6 | 7.32 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 6 | 7.32 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 19 | 7.32 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 1 | 7.32 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 1 | 7.32 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 2 | 7.32 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 17 | 7.32 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 17 | 7.32 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 9 | 7.32 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 9 | 7.32 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 9 | 7.32 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 9 | 7.32 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 9 | 7.32 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 9 | 7.32 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 4 | 7.32 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 4 | 7.32 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 4 | 7.32 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 19 | 7.32 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 8 | 7.32 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 7 | 7.31 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 12 | 7.31 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 15 | 7.31 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 15 | 7.31 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 1 | 7.31 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 1 | 7.31 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 2 | 7.31 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 2 | 7.31 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 1 | 7.31 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 1 | 7.31 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 1 | 7.31 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 1 | 7.31 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 1 | 7.31 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 1 | 7.31 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 18 | 7.31 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 18 | 7.31 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 5 | 7.31 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 5 | 7.31 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 4 | 7.31 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 4 | 7.31 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 14 | 7.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 14 | 7.31 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 20 | 7.31 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 20 | 7.31 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 20 | 7.31 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 10 | 7.31 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 10 | 7.31 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 10 | 7.31 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 18 | 7.31 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 18 | 7.31 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 18 | 7.31 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 6 | 7.31 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 6 | 7.31 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 20 | 7.31 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 13 | 7.31 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 13 | 7.31 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 13 | 7.31 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 2 | 7.31 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 2 | 7.31 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 2 | 7.31 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 5 | 7.31 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 5 | 7.31 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 5 | 7.31 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 10 | 7.31 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 10 | 7.31 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 4 | 7.31 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 4 | 7.31 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 4 | 7.31 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 10 | 7.31 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 10 | 7.31 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 10 | 7.31 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 15 | 7.31 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 2 | 7.31 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 13 | 7.31 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 13 | 7.31 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 13 | 7.31 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 6 | 7.31 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 6 | 7.31 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 18 | 7.31 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 18 | 7.31 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 12 | 7.31 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 12 | 7.31 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 12 | 7.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 12 | 7.31 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 4 | 7.31 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 4 | 7.31 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 20 | 7.31 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 20 | 7.31 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 1 | 7.31 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 15 | 7.31 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 15 | 7.31 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 15 | 7.31 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 1 | 7.31 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 1 | 7.31 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 2 | 7.31 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 2 | 7.31 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 1 | 7.31 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 1 | 7.31 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 1 | 7.31 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 1 | 7.31 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 1 | 7.31 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 1 | 7.31 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 18 | 7.31 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 18 | 7.31 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 1 | 7.31 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 1 | 7.31 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 1 | 7.31 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 12 | 7.31 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 12 | 7.31 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 12 | 7.31 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 12 | 7.31 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 8 | 7.31 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 8 | 7.31 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 4 | 7.31 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 4 | 7.31 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 20 | 7.3 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 20 | 7.3 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 20 | 7.3 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 20 | 7.3 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 17 | 7.3 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 17 | 7.3 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 17 | 7.3 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 17 | 7.3 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 17 | 7.3 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 17 | 7.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 11 | 7.3 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 11 | 7.3 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 11 | 7.3 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 11 | 7.3 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 11 | 7.3 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 11 | 7.3 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 11 | 7.3 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 11 | 7.3 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 11 | 7.3 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 9 | 7.3 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 12 | 7.3 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 12 | 7.3 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 12 | 7.3 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 15 | 7.3 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 14 | 7.3 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 14 | 7.3 |
| (1,8001) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 14 | 7.3 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 1 | 7.3 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 1 | 7.3 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 1 | 7.3 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 7 | 7.3 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 7 | 7.3 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 7 | 7.3 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 7 | 7.3 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 7 | 7.3 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 7 | 7.3 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 7 | 7.3 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 7 | 7.3 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 7 | 7.3 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 19 | 7.3 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 19 | 7.3 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 20 | 7.3 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 20 | 7.3 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 20 | 7.3 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 4 | 7.3 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 4 | 7.3 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 14 | 7.3 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 1 | 7.3 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 12 | 7.3 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 12 | 7.3 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 12 | 7.3 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 15 | 7.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 16 | 7.3 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 16 | 7.3 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 4 | 7.3 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 4 | 7.3 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 4 | 7.3 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 4 | 7.3 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 4 | 7.3 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 4 | 7.3 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 18 | 7.3 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 18 | 7.3 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 18 | 7.3 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 20 | 7.3 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 20 | 7.3 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 20 | 7.3 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 16 | 7.3 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 16 | 7.3 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 16 | 7.3 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 10 | 7.3 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 13 | 7.3 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 11 | 7.3 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 11 | 7.3 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 11 | 7.3 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 3 | 7.3 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 12 | 7.3 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 11 | 7.3 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 11 | 7.3 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 11 | 7.3 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 11 | 7.3 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 11 | 7.3 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 11 | 7.3 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 6 | 7.3 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 4 | 7.3 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 15 | 7.3 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 15 | 7.3 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 4 | 7.3 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 4 | 7.3 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 16 | 7.3 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 4 | 7.3 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 14 | 7.3 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 18 | 7.3 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 18 | 7.3 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 18 | 7.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 1 | 7.3 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 1 | 7.3 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 1 | 7.3 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 2 | 7.3 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 2 | 7.3 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 2 | 7.3 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 14 | 7.3 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 14 | 7.3 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 1 | 7.3 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 12 | 7.3 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 12 | 7.3 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 12 | 7.3 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 15 | 7.3 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 16 | 7.3 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 16 | 7.3 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 4 | 7.3 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 4 | 7.3 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 4 | 7.3 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 4 | 7.3 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 4 | 7.3 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 4 | 7.3 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 4 | 7.3 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 13 | 7.29 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 20 | 7.29 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 13 | 7.29 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 13 | 7.29 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 3 | 7.29 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 3 | 7.29 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 3 | 7.29 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 3 | 7.29 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 11 | 7.29 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 11 | 7.29 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 8 | 7.29 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 8 | 7.29 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 9 | 7.29 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 9 | 7.29 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 15 | 7.29 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 15 | 7.29 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 8 | 7.29 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 8 | 7.29 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 8 | 7.29 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 8 | 7.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 8 | 7.29 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 9 | 7.29 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 9 | 7.29 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 3 | 7.29 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 9 | 7.29 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 9 | 7.29 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 9 | 7.29 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 3 | 7.29 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 5 | 7.29 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 5 | 7.29 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 7 | 7.29 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 7 | 7.29 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 7 | 7.29 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 15 | 7.29 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 8 | 7.29 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 9 | 7.29 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 9 | 7.29 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 9 | 7.29 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 20 | 7.29 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 20 | 7.29 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 20 | 7.29 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 14 | 7.29 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 18 | 7.29 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 17 | 7.29 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 17 | 7.29 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 9 | 7.29 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 9 | 7.29 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 9 | 7.29 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 20 | 7.29 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 18 | 7.29 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 16 | 7.29 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 16 | 7.29 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 16 | 7.29 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 6 | 7.29 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 19 | 7.29 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 19 | 7.29 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 19 | 7.29 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 8 | 7.29 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 8 | 7.29 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 7.29 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 3 | 7.29 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 3 | 7.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 3 | 7.29 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 17 | 7.29 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 17 | 7.29 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 12 | 7.29 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 9 | 7.29 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 9 | 7.29 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 9 | 7.29 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 19 | 7.29 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 20 | 7.29 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 18 | 7.29 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 1 | 7.28 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 12 | 7.28 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 11 | 7.28 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 18 | 7.28 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 20 | 7.28 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 1 | 7.28 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 1 | 7.28 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 4 | 7.28 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 4 | 7.28 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 4 | 7.28 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 4 | 7.28 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 4 | 7.28 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 4 | 7.28 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 8 | 7.28 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 8 | 7.28 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 3 | 7.28 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 3 | 7.28 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 3 | 7.28 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 3 | 7.28 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 10 | 7.28 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 10 | 7.28 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 4 | 7.28 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 4 | 7.28 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 8 | 7.28 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 8 | 7.28 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 5 | 7.28 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 5 | 7.28 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 5 | 7.28 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 10 | 7.28 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 20 | 7.28 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 8 | 7.28 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 2 | 7.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 2 | 7.28 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 2 | 7.28 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 6 | 7.28 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 6 | 7.28 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 7 | 7.28 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 7 | 7.28 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 7 | 7.28 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 1 | 7.28 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 1 | 7.28 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 1 | 7.28 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 19 | 7.28 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 19 | 7.28 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 19 | 7.28 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 17 | 7.28 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 17 | 7.28 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 17 | 7.28 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 13 | 7.28 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 14 | 7.28 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 11 | 7.28 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 18 | 7.28 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 6 | 7.28 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 6 | 7.28 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 6 | 7.28 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 6 | 7.28 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 6 | 7.28 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 6 | 7.28 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 6 | 7.28 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 8 | 7.28 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 8 | 7.28 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 18 | 7.28 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 18 | 7.28 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 18 | 7.28 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 12 | 7.28 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 6 | 7.28 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 6 | 7.28 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 6 | 7.28 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 14 | 7.28 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 17 | 7.28 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 6 | 7.28 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 6 | 7.28 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 6 | 7.28 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 8 | 7.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 12 | 7.27 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 16 | 7.27 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 4 | 7.27 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 12 | 7.27 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 18 | 7.27 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 1 | 7.27 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 1 | 7.27 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 1 | 7.27 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 1 | 7.27 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 1 | 7.27 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 1 | 7.27 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 12 | 7.27 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 12 | 7.27 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 12 | 7.27 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 12 | 7.27 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 14 | 7.27 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 14 | 7.27 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 15 | 7.27 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 15 | 7.27 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 3 | 7.27 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 3 | 7.27 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 20 | 7.27 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 20 | 7.27 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 20 | 7.27 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 20 | 7.27 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 20 | 7.27 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 20 | 7.27 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 15 | 7.27 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 15 | 7.27 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 14 | 7.27 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 14 | 7.27 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 14 | 7.27 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 8 | 7.27 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 8 | 7.27 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 8 | 7.27 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 8 | 7.27 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 8 | 7.27 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 8 | 7.27 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 8 | 7.27 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 8 | 7.27 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 8 | 7.27 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 8 | 7.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 8 | 7.27 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 8 | 7.27 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 8 | 7.27 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 17 | 7.27 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 4 | 7.27 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 19 | 7.27 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 19 | 7.27 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 19 | 7.27 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 1 | 7.27 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 1 | 7.27 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 1 | 7.27 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 9 | 7.27 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 9 | 7.27 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 9 | 7.27 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 2 | 7.27 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 10 | 7.27 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 10 | 7.27 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 10 | 7.27 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 3 | 7.27 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 3 | 7.27 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 3 | 7.27 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 19 | 7.27 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 19 | 7.27 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 19 | 7.27 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 19 | 7.27 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 19 | 7.27 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 7 | 7.27 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 15 | 7.27 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 15 | 7.27 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 3 | 7.27 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 3 | 7.27 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 15 | 7.27 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 15 | 7.27 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 8 | 7.27 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 8 | 7.27 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 8 | 7.27 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 11 | 7.27 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 11 | 7.27 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 7 | 7.27 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 4 | 7.27 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 4 | 7.27 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 18 | 7.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 15 | 7.26 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 20 | 7.26 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 1 | 7.26 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 1 | 7.26 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 6 | 7.26 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 6 | 7.26 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 7 | 7.26 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 7 | 7.26 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 6 | 7.26 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 6 | 7.26 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 5 | 7.26 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 5 | 7.26 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 5 | 7.26 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 19 | 7.26 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 19 | 7.26 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 19 | 7.26 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 13 | 7.26 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 13 | 7.26 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 13 | 7.26 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 9 | 7.26 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 9 | 7.26 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 9 | 7.26 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 4 | 7.26 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 4 | 7.26 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 4 | 7.26 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 12 | 7.26 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 13 | 7.26 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 13 | 7.26 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 13 | 7.26 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 14 | 7.26 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 14 | 7.26 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 14 | 7.26 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 13 | 7.26 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 13 | 7.26 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 13 | 7.26 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 19 | 7.26 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 19 | 7.26 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 19 | 7.26 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 19 | 7.26 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 19 | 7.26 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 19 | 7.26 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 18 | 7.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 12 | 7.26 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 12 | 7.26 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 12 | 7.26 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 14 | 7.26 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 14 | 7.26 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 13 | 7.26 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 13 | 7.26 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 13 | 7.26 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 17 | 7.26 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 17 | 7.26 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 17 | 7.26 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 16 | 7.26 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 16 | 7.26 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 16 | 7.26 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 7 | 7.26 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 7 | 7.26 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 7.26 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 4 | 7.26 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 3 | 7.26 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 13 | 7.26 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 7.26 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 7.26 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 18 | 7.26 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 1 | 7.26 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 1 | 7.26 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 1 | 7.26 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 12 | 7.26 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 12 | 7.26 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 12 | 7.26 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 11 | 7.26 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 14 | 7.26 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 14 | 7.26 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 18 | 7.26 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 8 | 7.26 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 15 | 7.25 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 4 | 7.25 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 4 | 7.25 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 1 | 7.25 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 1 | 7.25 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 18 | 7.25 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 18 | 7.25 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 18 | 7.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 18 | 7.25 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 18 | 7.25 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 18 | 7.25 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 3 | 7.25 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 3 | 7.25 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 16 | 7.25 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 1 | 7.25 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 1 | 7.25 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 1 | 7.25 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 2 | 7.25 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 11 | 7.25 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 11 | 7.25 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 10 | 7.25 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 9 | 7.25 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 9 | 7.25 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 1 | 7.25 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 1 | 7.25 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 1 | 7.25 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 1 | 7.25 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 1 | 7.25 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 1 | 7.25 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 20 | 7.25 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 20 | 7.25 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 13 | 7.25 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 18 | 7.25 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 18 | 7.25 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 18 | 7.25 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 4 | 7.25 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 15 | 7.25 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 5 | 7.25 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 6 | 7.25 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 6 | 7.25 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 6 | 7.25 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 8 | 7.25 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 8 | 7.25 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 8 | 7.25 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 2 | 7.25 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 2 | 7.25 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 2 | 7.25 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 4 | 7.25 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 4 | 7.25 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 4 | 7.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 12 | 7.25 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 12 | 7.25 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 13 | 7.25 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 13 | 7.25 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 12 | 7.25 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 12 | 7.25 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 10 | 7.25 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 4 | 7.25 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 2 | 7.25 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 3 | 7.25 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 3 | 7.25 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 20 | 7.25 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 20 | 7.25 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 13 | 7.25 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 14 | 7.25 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 18 | 7.25 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 18 | 7.25 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 18 | 7.25 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 9 | 7.25 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 9 | 7.25 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 9 | 7.25 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 4 | 7.25 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 15 | 7.25 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 1 | 7.24 |
| (4,26) | 1:15:A:MET:CB | 1:77:A:LYS:H | 19 | 7.24 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 19 | 7.24 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 19 | 7.24 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 19 | 7.24 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 19 | 7.24 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 8 | 7.24 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 8 | 7.24 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 8 | 7.24 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 8 | 7.24 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 13 | 7.24 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 13 | 7.24 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 7 | 7.24 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 7 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 9 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 9 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 9 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 9 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 9 | 7.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 9 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 20 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 20 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 20 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 7.24 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 7.24 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 5 | 7.24 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 5 | 7.24 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 12 | 7.24 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 12 | 7.24 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 13 | 7.24 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 13 | 7.24 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 13 | 7.24 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 5 | 7.24 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 5 | 7.24 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 5 | 7.24 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 8 | 7.24 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 8 | 7.24 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 8 | 7.24 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 1 | 7.24 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 13 | 7.24 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 11 | 7.24 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 11 | 7.24 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 12 | 7.24 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 10 | 7.24 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 11 | 7.24 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 11 | 7.24 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 8 | 7.24 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 8 | 7.24 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 8 | 7.24 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 16 | 7.24 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 16 | 7.24 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 11 | 7.24 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 11 | 7.24 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 9 | 7.24 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 9 | 7.24 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 9 | 7.24 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 13 | 7.24 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 13 | 7.24 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 17 | 7.24 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 17 | 7.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 11 | 7.24 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 18 | 7.24 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 4 | 7.24 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 10 | 7.24 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 9 | 7.24 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 5 | 7.24 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 5 | 7.24 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 5 | 7.24 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 11 | 7.24 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 7 | 7.24 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 7 | 7.24 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 15 | 7.24 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 15 | 7.24 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 15 | 7.24 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 19 | 7.24 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 19 | 7.24 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 19 | 7.24 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 19 | 7.24 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 8 | 7.24 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 8 | 7.24 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 8 | 7.24 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 8 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 9 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 9 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 9 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 9 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 9 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 9 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 20 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 20 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 20 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 7.24 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 7.24 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 20 | 7.24 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 20 | 7.24 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 20 | 7.24 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 4 | 7.24 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 10 | 7.24 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 9 | 7.24 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 5 | 7.24 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 5 | 7.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 5 | 7.24 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 3 | 7.23 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 9 | 7.23 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 5 | 7.23 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 9 | 7.23 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 9 | 7.23 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 18 | 7.23 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 18 | 7.23 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 18 | 7.23 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 18 | 7.23 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 7 | 7.23 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 7 | 7.23 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 7 | 7.23 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 7 | 7.23 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 7 | 7.23 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 7 | 7.23 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 15 | 7.23 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 15 | 7.23 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 15 | 7.23 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 15 | 7.23 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 5 | 7.23 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 11 | 7.23 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 11 | 7.23 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 11 | 7.23 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 12 | 7.23 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 12 | 7.23 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 12 | 7.23 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 8 | 7.23 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 8 | 7.23 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 9 | 7.23 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 9 | 7.23 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 9 | 7.23 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 1 | 7.23 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 15 | 7.23 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 15 | 7.23 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 15 | 7.23 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 15 | 7.23 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 15 | 7.23 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 15 | 7.23 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 15 | 7.23 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 15 | 7.23 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 15 | 7.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 15 | 7.23 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 15 | 7.23 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 15 | 7.23 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 9 | 7.23 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 9 | 7.23 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 8 | 7.23 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 6 | 7.23 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 14 | 7.23 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 16 | 7.23 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 16 | 7.23 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 16 | 7.23 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 6 | 7.23 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 6 | 7.23 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 6 | 7.23 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 6 | 7.23 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 6 | 7.23 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 6 | 7.23 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 7 | 7.23 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 7 | 7.23 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 7 | 7.23 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 7 | 7.23 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 7 | 7.23 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 7 | 7.23 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 18 | 7.23 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 18 | 7.23 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 19 | 7.23 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 19 | 7.23 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 19 | 7.23 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 19 | 7.23 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 4 | 7.23 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 4 | 7.23 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 4 | 7.23 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 4 | 7.23 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 4 | 7.23 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 4 | 7.23 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 4 | 7.23 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 4 | 7.23 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 4 | 7.23 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 4 | 7.23 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 4 | 7.23 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 4 | 7.23 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 13 | 7.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 13 | 7.23 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 13 | 7.23 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 7.23 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 7.23 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 7.23 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 5 | 7.23 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 12 | 7.23 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 12 | 7.23 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 9 | 7.23 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 9 | 7.23 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 17 | 7.23 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 18 | 7.23 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 18 | 7.23 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 18 | 7.23 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 18 | 7.23 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 7 | 7.23 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 7 | 7.23 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 7 | 7.23 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 7 | 7.23 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 7 | 7.23 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 7 | 7.23 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 18 | 7.23 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 18 | 7.23 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 19 | 7.23 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 19 | 7.23 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 19 | 7.23 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 9 | 7.23 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 13 | 7.23 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 13 | 7.23 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 13 | 7.23 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 19 | 7.23 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 10 | 7.23 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 13 | 7.22 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 12 | 7.22 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 12 | 7.22 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 4 | 7.22 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 4 | 7.22 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 4 | 7.22 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 4 | 7.22 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 1 | 7.22 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 1 | 7.22 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 2 | 7.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 2 | 7.22 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 2 | 7.22 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 5 | 7.22 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 5 | 7.22 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 5 | 7.22 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 20 | 7.22 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 20 | 7.22 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 17 | 7.22 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 17 | 7.22 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 17 | 7.22 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 19 | 7.22 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 19 | 7.22 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 19 | 7.22 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 18 | 7.22 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 12 | 7.22 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 12 | 7.22 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 12 | 7.22 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 3 | 7.22 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 3 | 7.22 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 3 | 7.22 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 4 | 7.22 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 4 | 7.22 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 3 | 7.22 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 9 | 7.22 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 9 | 7.22 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 9 | 7.22 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 14 | 7.22 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 14 | 7.22 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 14 | 7.22 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 7 | 7.22 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 11 | 7.22 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 11 | 7.22 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 15 | 7.22 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 12 | 7.22 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 12 | 7.22 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 5 | 7.22 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 5 | 7.22 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 5 | 7.22 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 7.22 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 18 | 7.22 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 10 | 7.22 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 10 | 7.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 10 | 7.22 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 10 | 7.22 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 10 | 7.22 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 10 | 7.22 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 1 | 7.22 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 1 | 7.22 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 5 | 7.22 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 5 | 7.22 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 5 | 7.22 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 1 | 7.22 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 7.22 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 7.22 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 7.22 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 9 | 7.22 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 9 | 7.22 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 9 | 7.22 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 14 | 7.22 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 14 | 7.22 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 14 | 7.22 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 7 | 7.22 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 5 | 7.22 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 6 | 7.22 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 8 | 7.21 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 12 | 7.21 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 8 | 7.21 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 18 | 7.21 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 18 | 7.21 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 18 | 7.21 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 18 | 7.21 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 11 | 7.21 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 11 | 7.21 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 11 | 7.21 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 11 | 7.21 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 18 | 7.21 |
| (1,9167) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 18 | 7.21 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 18 | 7.21 |
| (1,9167) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 18 | 7.21 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 18 | 7.21 |
| (1,9167) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 18 | 7.21 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 11 | 7.21 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 11 | 7.21 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 7 | 7.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 7 | 7.21 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 13 | 7.21 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 13 | 7.21 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 8 | 7.21 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 7 | 7.21 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 7 | 7.21 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 7 | 7.21 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 17 | 7.21 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 13 | 7.21 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 4 | 7.21 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 4 | 7.21 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 4 | 7.21 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 4 | 7.21 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 4 | 7.21 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 4 | 7.21 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 11 | 7.21 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 11 | 7.21 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 11 | 7.21 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 12 | 7.21 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 6 | 7.21 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 13 | 7.21 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 13 | 7.21 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 13 | 7.21 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 14 | 7.21 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 14 | 7.21 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 18 | 7.21 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 12 | 7.21 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 14 | 7.21 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 14 | 7.21 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 7 | 7.21 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 7 | 7.21 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 7 | 7.21 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 6 | 7.21 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 6 | 7.21 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 6 | 7.21 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 3 | 7.21 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 3 | 7.21 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 3 | 7.21 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 10 | 7.21 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 10 | 7.21 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 10 | 7.21 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 2 | 7.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 2 | 7.21 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 2 | 7.21 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 1 | 7.21 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 1 | 7.21 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 1 | 7.21 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 9 | 7.21 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 2 | 7.21 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 4 | 7.21 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 18 | 7.21 |
| (1,4140) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 18 | 7.21 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 18 | 7.21 |
| (1,4140) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 18 | 7.21 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 18 | 7.21 |
| (1,4140) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 18 | 7.21 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 17 | 7.21 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 4 | 7.21 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 3 | 7.21 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 3 | 7.21 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 3 | 7.21 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 13 | 7.21 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 13 | 7.21 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 17 | 7.21 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 5 | 7.21 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 14 | 7.21 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 14 | 7.21 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 12 | 7.21 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 4 | 7.21 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 4 | 7.21 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 13 | 7.21 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 14 | 7.21 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 14 | 7.21 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 7 | 7.21 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 7 | 7.21 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 7 | 7.21 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 4 | 7.21 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 1 | 7.21 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 6 | 7.21 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 6 | 7.21 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 6 | 7.21 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 4 | 7.21 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 13 | 7.21 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 13 | 7.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 13 | 7.21 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 6 | 7.21 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 19 | 7.2 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 8 | 7.2 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 10 | 7.2 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 4 | 7.2 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 6 | 7.2 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 6 | 7.2 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 6 | 7.2 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 6 | 7.2 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 6 | 7.2 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 6 | 7.2 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 18 | 7.2 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 18 | 7.2 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 18 | 7.2 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 18 | 7.2 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 11 | 7.2 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 11 | 7.2 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 11 | 7.2 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 11 | 7.2 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 18 | 7.2 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 18 | 7.2 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 18 | 7.2 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 18 | 7.2 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 6 | 7.2 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 6 | 7.2 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 6 | 7.2 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 6 | 7.2 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 6 | 7.2 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 6 | 7.2 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 12 | 7.2 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 12 | 7.2 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 17 | 7.2 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 17 | 7.2 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 17 | 7.2 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 2 | 7.2 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 2 | 7.2 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 13 | 7.2 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 13 | 7.2 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 13 | 7.2 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 20 | 7.2 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 20 | 7.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 20 | 7.2 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 20 | 7.2 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 16 | 7.2 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 19 | 7.2 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 8 | 7.2 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 8 | 7.2 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 9 | 7.2 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 20 | 7.2 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 3 | 7.2 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 3 | 7.2 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 3 | 7.2 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 6 | 7.2 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 6 | 7.2 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 6 | 7.2 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 11 | 7.2 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 14 | 7.2 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 14 | 7.2 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 14 | 7.2 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 1 | 7.2 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 1 | 7.2 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 1 | 7.2 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 1 | 7.2 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 7 | 7.2 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 6 | 7.2 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 6 | 7.2 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 6 | 7.2 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 19 | 7.2 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 16 | 7.2 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 16 | 7.2 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 16 | 7.2 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 8 | 7.2 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 8 | 7.2 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 7 | 7.2 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 19 | 7.2 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 4 | 7.2 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 12 | 7.2 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 3 | 7.2 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 3 | 7.2 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 1 | 7.2 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 7 | 7.2 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 2 | 7.2 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 2 | 7.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 2 | 7.2 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 7.2 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 6 | 7.2 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 6 | 7.2 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 6 | 7.2 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 20 | 7.19 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 20 | 7.19 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 17 | 7.19 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 19 | 7.19 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 19 | 7.19 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 19 | 7.19 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 19 | 7.19 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 19 | 7.19 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 19 | 7.19 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 12 | 7.19 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 12 | 7.19 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 2 | 7.19 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 2 | 7.19 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 16 | 7.19 |
| (1,9192) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 16 | 7.19 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 16 | 7.19 |
| (1,9192) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 16 | 7.19 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 13 | 7.19 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 13 | 7.19 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 13 | 7.19 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 13 | 7.19 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 13 | 7.19 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 13 | 7.19 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 7.19 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 7.19 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 13 | 7.19 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 13 | 7.19 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 13 | 7.19 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 13 | 7.19 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 13 | 7.19 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 13 | 7.19 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 19 | 7.19 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 19 | 7.19 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 17 | 7.19 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 17 | 7.19 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 17 | 7.19 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 5 | 7.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 8 | 7.19 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 18 | 7.19 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 5 | 7.19 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 5 | 7.19 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 5 | 7.19 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 6 | 7.19 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 6 | 7.19 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 15 | 7.19 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 10 | 7.19 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 4 | 7.19 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 7 | 7.19 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 7 | 7.19 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 13 | 7.19 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 13 | 7.19 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 2 | 7.19 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 13 | 7.19 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 13 | 7.19 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 11 | 7.19 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 8 | 7.19 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 8 | 7.19 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 4 | 7.19 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 4 | 7.19 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 4 | 7.19 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 1 | 7.19 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 1 | 7.19 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 19 | 7.19 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 19 | 7.19 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 19 | 7.19 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 19 | 7.19 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 4 | 7.19 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 2 | 7.19 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 2 | 7.19 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 2 | 7.19 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 18 | 7.19 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 18 | 7.19 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 18 | 7.19 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 7.19 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 7.19 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 13 | 7.19 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 13 | 7.19 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 3 | 7.19 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 13 | 7.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 13 | 7.19 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 11 | 7.19 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 8 | 7.19 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 8 | 7.19 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 7.19 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 19 | 7.19 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 19 | 7.18 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 2 | 7.18 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 4 | 7.18 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 19 | 7.18 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 19 | 7.18 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 10 | 7.18 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 10 | 7.18 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 10 | 7.18 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 10 | 7.18 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 11 | 7.18 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 11 | 7.18 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 10 | 7.18 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 10 | 7.18 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 10 | 7.18 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 10 | 7.18 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 17 | 7.18 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 17 | 7.18 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 17 | 7.18 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 8 | 7.18 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 8 | 7.18 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 8 | 7.18 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 2 | 7.18 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 5 | 7.18 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 5 | 7.18 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 5 | 7.18 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 5 | 7.18 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 5 | 7.18 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 5 | 7.18 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 10 | 7.18 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 10 | 7.18 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 10 | 7.18 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 8 | 7.18 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 8 | 7.18 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 9 | 7.18 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 9 | 7.18 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 9 | 7.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 11 | 7.18 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 11 | 7.18 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 11 | 7.18 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 15 | 7.18 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 15 | 7.18 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 15 | 7.18 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 11 | 7.18 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 11 | 7.18 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 11 | 7.18 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 17 | 7.18 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 17 | 7.18 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 20 | 7.18 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 20 | 7.18 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 20 | 7.18 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 13 | 7.18 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 12 | 7.18 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 12 | 7.18 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 12 | 7.18 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 16 | 7.18 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 16 | 7.18 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 16 | 7.18 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 1 | 7.18 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 1 | 7.18 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 1 | 7.18 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 6 | 7.18 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 6 | 7.18 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 6 | 7.18 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 9 | 7.18 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 4 | 7.18 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 4 | 7.18 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 14 | 7.18 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 14 | 7.18 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 15 | 7.18 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 14 | 7.18 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 14 | 7.18 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 16 | 7.18 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 5 | 7.18 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 10 | 7.18 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 10 | 7.18 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 11 | 7.18 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 15 | 7.18 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 6 | 7.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 1 | 7.18 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 16 | 7.18 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 5 | 7.18 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 5 | 7.18 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 18 | 7.18 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 13 | 7.18 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 13 | 7.18 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 13 | 7.18 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 13 | 7.18 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 13 | 7.18 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 13 | 7.18 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 8 | 7.18 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 8 | 7.18 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 8 | 7.18 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 8 | 7.18 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 8 | 7.18 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 8 | 7.18 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 4 | 7.18 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 4 | 7.18 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 4 | 7.18 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 20 | 7.18 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 6 | 7.18 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 11 | 7.18 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 11 | 7.18 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 8 | 7.18 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 8 | 7.18 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 16 | 7.18 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 5 | 7.18 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 10 | 7.18 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 10 | 7.18 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 1 | 7.18 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 4 | 7.18 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 11 | 7.18 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 15 | 7.18 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 7.18 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 6 | 7.18 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 1 | 7.18 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 16 | 7.18 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 16 | 7.18 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 16 | 7.18 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 16 | 7.18 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 5 | 7.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 5 | 7.18 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 18 | 7.18 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 7 | 7.18 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 10 | 7.18 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 13 | 7.18 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 13 | 7.18 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 13 | 7.18 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 13 | 7.18 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 13 | 7.18 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 13 | 7.18 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 2 | 7.18 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 14 | 7.18 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 8 | 7.18 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 8 | 7.18 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 8 | 7.18 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 8 | 7.18 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 8 | 7.18 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 8 | 7.18 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 14 | 7.17 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 20 | 7.17 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 13 | 7.17 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 13 | 7.17 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 13 | 7.17 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 13 | 7.17 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 13 | 7.17 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 13 | 7.17 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 1 | 7.17 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 1 | 7.17 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 1 | 7.17 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 1 | 7.17 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 8 | 7.17 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 8 | 7.17 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 13 | 7.17 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 13 | 7.17 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 13 | 7.17 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 13 | 7.17 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 13 | 7.17 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 13 | 7.17 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 8 | 7.17 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 8 | 7.17 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 4 | 7.17 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 4 | 7.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 4 | 7.17 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 16 | 7.17 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 12 | 7.17 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 12 | 7.17 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 18 | 7.17 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 18 | 7.17 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 18 | 7.17 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 18 | 7.17 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 16 | 7.17 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 16 | 7.17 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 16 | 7.17 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 20 | 7.17 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 20 | 7.17 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 20 | 7.17 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 12 | 7.17 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 11 | 7.17 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 18 | 7.17 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 18 | 7.17 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 18 | 7.17 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 12 | 7.17 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 7.17 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 7.17 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 4 | 7.17 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 4 | 7.17 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 15 | 7.17 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 15 | 7.17 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 15 | 7.17 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 15 | 7.17 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 15 | 7.17 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 15 | 7.17 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 1 | 7.17 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 1 | 7.17 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 1 | 7.17 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 18 | 7.17 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 18 | 7.17 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 18 | 7.17 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 13 | 7.17 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 13 | 7.17 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 13 | 7.17 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 13 | 7.17 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 13 | 7.17 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 13 | 7.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 1 | 7.17 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 1 | 7.17 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 1 | 7.17 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 1 | 7.17 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 2 | 7.17 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 13 | 7.17 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 13 | 7.17 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 13 | 7.17 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 13 | 7.17 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 13 | 7.17 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 13 | 7.17 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 19 | 7.17 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 7.17 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 12 | 7.17 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 13 | 7.17 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 13 | 7.17 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 13 | 7.17 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 13 | 7.17 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 13 | 7.17 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 13 | 7.17 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 11 | 7.17 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 7.17 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 7.17 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 4 | 7.17 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 4 | 7.17 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 18 | 7.17 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 18 | 7.17 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 18 | 7.17 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 15 | 7.17 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 15 | 7.17 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 15 | 7.17 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 15 | 7.17 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 15 | 7.17 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 15 | 7.17 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 1 | 7.17 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 1 | 7.17 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 1 | 7.17 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 18 | 7.17 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 18 | 7.17 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 18 | 7.17 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 17 | 7.16 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 17 | 7.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 6 | 7.16 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 6 | 7.16 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 8 | 7.16 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 8 | 7.16 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 8 | 7.16 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 8 | 7.16 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 6 | 7.16 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 6 | 7.16 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 20 | 7.16 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 20 | 7.16 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 20 | 7.16 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 20 | 7.16 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 20 | 7.16 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 20 | 7.16 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 14 | 7.16 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 14 | 7.16 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 20 | 7.16 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 7.16 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 4 | 7.16 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 4 | 7.16 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 4 | 7.16 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 4 | 7.16 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 4 | 7.16 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 4 | 7.16 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 11 | 7.16 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 11 | 7.16 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 14 | 7.16 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 14 | 7.16 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 14 | 7.16 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 13 | 7.16 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 13 | 7.16 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 13 | 7.16 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 3 | 7.16 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 3 | 7.16 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 3 | 7.16 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 20 | 7.16 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 16 | 7.16 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 7 | 7.16 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 7 | 7.16 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 7 | 7.16 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 4 | 7.16 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 3 | 7.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 3 | 7.16 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 3 | 7.16 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 19 | 7.16 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 9 | 7.16 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 9 | 7.16 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 9 | 7.16 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 17 | 7.16 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 12 | 7.16 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 12 | 7.16 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 12 | 7.16 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 7.16 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 7.16 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 16 | 7.16 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 16 | 7.16 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 14 | 7.16 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 14 | 7.16 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 20 | 7.16 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 7.16 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 16 | 7.16 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 3 | 7.16 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 3 | 7.16 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 18 | 7.16 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 6 | 7.16 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 7 | 7.16 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 7 | 7.16 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 7 | 7.16 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 20 | 7.16 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 20 | 7.16 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 20 | 7.16 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 12 | 7.16 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 15 | 7.16 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 17 | 7.15 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 14 | 7.15 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 13 | 7.15 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 16 | 7.15 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 3 | 7.15 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 3 | 7.15 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 3 | 7.15 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 3 | 7.15 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 17 | 7.15 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 17 | 7.15 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 19 | 7.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 19 | 7.15 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 13 | 7.15 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 13 | 7.15 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 13 | 7.15 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 13 | 7.15 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 6 | 7.15 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 6 | 7.15 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 13 | 7.15 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 13 | 7.15 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 13 | 7.15 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 13 | 7.15 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 2 | 7.15 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 2 | 7.15 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 2 | 7.15 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 2 | 7.15 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 2 | 7.15 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 2 | 7.15 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 20 | 7.15 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 20 | 7.15 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 20 | 7.15 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 3 | 7.15 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 3 | 7.15 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 3 | 7.15 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 3 | 7.15 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 3 | 7.15 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 3 | 7.15 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 8 | 7.15 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 15 | 7.15 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 13 | 7.15 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 5 | 7.15 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 5 | 7.15 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 5 | 7.15 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 15 | 7.15 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 19 | 7.15 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 4 | 7.15 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 9 | 7.15 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 14 | 7.15 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 14 | 7.15 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 14 | 7.15 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 14 | 7.15 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 14 | 7.15 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 14 | 7.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 7 | 7.15 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 7 | 7.15 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 7 | 7.15 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 7 | 7.15 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 7 | 7.15 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 7 | 7.15 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 4 | 7.15 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 4 | 7.15 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 4 | 7.15 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 5 | 7.15 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 5 | 7.15 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 5 | 7.15 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 1 | 7.15 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 1 | 7.15 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 1 | 7.15 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 1 | 7.15 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 1 | 7.15 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 1 | 7.15 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 17 | 7.15 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 17 | 7.15 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 17 | 7.15 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 17 | 7.15 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 17 | 7.15 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 17 | 7.15 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 13 | 7.15 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 8 | 7.15 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 13 | 7.15 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 14 | 7.15 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 18 | 7.15 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 18 | 7.15 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 18 | 7.15 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 18 | 7.15 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 18 | 7.15 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 18 | 7.15 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 18 | 7.15 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 18 | 7.15 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 4 | 7.15 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 12 | 7.15 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 12 | 7.15 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 12 | 7.15 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 12 | 7.15 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 4 | 7.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 4 | 7.15 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 17 | 7.15 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 17 | 7.15 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 6 | 7.15 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 19 | 7.15 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 19 | 7.15 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 11 | 7.15 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 11 | 7.15 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 11 | 7.15 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 13 | 7.15 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 13 | 7.15 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 13 | 7.15 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 13 | 7.15 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 6 | 7.15 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 6 | 7.15 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 2 | 7.15 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 2 | 7.15 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 2 | 7.15 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 2 | 7.15 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 2 | 7.15 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 2 | 7.15 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 10 | 7.15 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 17 | 7.15 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 17 | 7.15 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 17 | 7.15 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 8 | 7.15 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 13 | 7.15 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 14 | 7.15 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 5 | 7.15 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 5 | 7.15 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 18 | 7.15 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 18 | 7.15 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 18 | 7.15 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 18 | 7.15 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 18 | 7.15 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 18 | 7.15 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 18 | 7.15 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 18 | 7.15 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 14 | 7.15 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 14 | 7.15 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 14 | 7.14 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 2 | 7.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 7 | 7.14 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 7 | 7.14 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 8 | 7.14 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 8 | 7.14 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 9 | 7.14 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 9 | 7.14 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 18 | 7.14 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 18 | 7.14 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 18 | 7.14 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 11 | 7.14 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 11 | 7.14 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 19 | 7.14 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 10 | 7.14 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 18 | 7.14 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 18 | 7.14 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 1 | 7.14 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 1 | 7.14 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 1 | 7.14 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 7 | 7.14 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 7 | 7.14 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 7 | 7.14 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 4 | 7.14 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 10 | 7.14 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 18 | 7.14 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 18 | 7.14 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 18 | 7.14 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 18 | 7.14 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 20 | 7.14 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 17 | 7.14 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 4 | 7.14 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 2 | 7.14 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 2 | 7.14 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 4 | 7.14 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 4 | 7.14 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 19 | 7.14 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 6 | 7.14 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 6 | 7.14 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 4 | 7.14 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 19 | 7.14 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 19 | 7.14 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 19 | 7.14 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 18 | 7.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 18 | 7.14 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 18 | 7.14 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 13 | 7.14 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 11 | 7.14 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 3 | 7.14 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 3 | 7.14 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 3 | 7.14 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 5 | 7.14 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 5 | 7.14 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 5 | 7.14 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 5 | 7.14 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 9 | 7.14 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 9 | 7.14 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 19 | 7.14 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 6 | 7.14 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 6 | 7.14 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 4 | 7.14 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 19 | 7.14 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 19 | 7.14 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 19 | 7.14 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 1 | 7.14 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 1 | 7.14 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 15 | 7.13 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 9 | 7.13 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 9 | 7.13 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 16 | 7.13 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 16 | 7.13 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 16 | 7.13 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 16 | 7.13 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 15 | 7.13 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 15 | 7.13 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 15 | 7.13 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 15 | 7.13 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 15 | 7.13 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 15 | 7.13 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 19 | 7.13 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 19 | 7.13 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 6 | 7.13 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 6 | 7.13 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 6 | 7.13 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 6 | 7.13 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 6 | 7.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 6 | 7.13 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 16 | 7.13 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 16 | 7.13 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 8 | 7.13 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 8 | 7.13 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 8 | 7.13 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 8 | 7.13 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 19 | 7.13 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 19 | 7.13 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 2 | 7.13 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 2 | 7.13 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 10 | 7.13 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 10 | 7.13 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 10 | 7.13 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 10 | 7.13 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 9 | 7.13 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 9 | 7.13 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 9 | 7.13 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 6 | 7.13 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 19 | 7.13 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 19 | 7.13 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 19 | 7.13 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 17 | 7.13 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 10 | 7.13 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 18 | 7.13 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 18 | 7.13 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 18 | 7.13 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 16 | 7.13 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 16 | 7.13 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 16 | 7.13 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 19 | 7.13 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 5 | 7.13 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 5 | 7.13 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 5 | 7.13 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 13 | 7.13 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 12 | 7.13 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 18 | 7.13 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 9 | 7.13 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 19 | 7.13 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 19 | 7.13 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 19 | 7.13 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 19 | 7.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 19 | 7.13 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 19 | 7.13 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 15 | 7.13 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 15 | 7.13 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 19 | 7.13 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 19 | 7.13 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 19 | 7.13 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 3 | 7.13 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 3 | 7.13 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 6 | 7.13 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 6 | 7.13 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 6 | 7.13 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 6 | 7.13 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 6 | 7.13 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 6 | 7.13 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 13 | 7.13 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 13 | 7.13 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 13 | 7.13 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 4 | 7.13 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 20 | 7.13 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 20 | 7.13 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 20 | 7.13 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 20 | 7.13 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 20 | 7.13 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 20 | 7.13 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 20 | 7.13 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 20 | 7.13 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 20 | 7.13 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 9 | 7.13 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 9 | 7.13 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 8 | 7.13 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 8 | 7.13 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 8 | 7.13 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 9 | 7.13 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 9 | 7.13 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 16 | 7.13 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 16 | 7.13 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 16 | 7.13 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 16 | 7.13 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 15 | 7.13 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 15 | 7.13 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 15 | 7.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 15 | 7.13 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 15 | 7.13 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 15 | 7.13 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 1 | 7.13 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 4 | 7.13 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 13 | 7.13 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 10 | 7.13 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 19 | 7.13 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 19 | 7.13 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 19 | 7.13 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 7 | 7.13 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 7 | 7.13 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 14 | 7.13 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 14 | 7.13 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 3 | 7.13 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 3 | 7.13 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 6 | 7.13 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 6 | 7.13 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 6 | 7.13 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 6 | 7.13 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 6 | 7.13 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 6 | 7.13 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 10 | 7.13 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 13 | 7.13 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 13 | 7.13 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 13 | 7.13 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 4 | 7.13 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 12 | 7.13 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 12 | 7.13 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 12 | 7.13 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 18 | 7.13 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 18 | 7.13 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 18 | 7.13 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 8 | 7.12 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 19 | 7.12 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 9 | 7.12 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 20 | 7.12 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 20 | 7.12 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 20 | 7.12 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 20 | 7.12 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 4 | 7.12 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 4 | 7.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 4 | 7.12 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 4 | 7.12 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 5 | 7.12 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 5 | 7.12 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 12 | 7.12 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 12 | 7.12 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 11 | 7.12 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 11 | 7.12 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 14 | 7.12 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 14 | 7.12 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 15 | 7.12 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 15 | 7.12 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 15 | 7.12 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 15 | 7.12 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 8 | 7.12 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 8 | 7.12 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 8 | 7.12 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 8 | 7.12 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 8 | 7.12 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 8 | 7.12 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 19 | 7.12 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 19 | 7.12 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 19 | 7.12 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 7 | 7.12 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 7 | 7.12 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 7 | 7.12 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 19 | 7.12 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 19 | 7.12 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 19 | 7.12 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 18 | 7.12 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 18 | 7.12 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 18 | 7.12 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 13 | 7.12 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 13 | 7.12 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 19 | 7.12 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 13 | 7.12 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 13 | 7.12 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 13 | 7.12 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 4 | 7.12 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 4 | 7.12 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 4 | 7.12 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 9 | 7.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 18 | 7.12 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 7 | 7.12 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 11 | 7.12 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 10 | 7.12 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 10 | 7.12 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 10 | 7.12 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 5 | 7.12 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 5 | 7.12 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 5 | 7.12 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 6 | 7.12 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 15 | 7.12 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 15 | 7.12 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 6 | 7.12 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 1 | 7.12 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 1 | 7.12 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 1 | 7.12 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 1 | 7.12 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 1 | 7.12 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 1 | 7.12 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 13 | 7.12 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 13 | 7.12 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 13 | 7.12 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 13 | 7.12 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 13 | 7.12 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 13 | 7.12 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 13 | 7.12 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 13 | 7.12 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 13 | 7.12 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 5 | 7.12 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 5 | 7.12 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 1 | 7.12 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 19 | 7.12 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 9 | 7.12 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 6 | 7.12 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 6 | 7.12 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 6 | 7.12 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 8 | 7.12 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 8 | 7.12 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 8 | 7.12 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 10 | 7.12 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 6 | 7.12 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 13 | 7.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 13 | 7.12 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 13 | 7.12 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 17 | 7.12 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 14 | 7.12 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 4 | 7.12 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 4 | 7.12 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 4 | 7.12 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 4 | 7.12 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 4 | 7.12 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 17 | 7.12 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 12 | 7.12 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 12 | 7.12 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 11 | 7.12 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 11 | 7.12 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 19 | 7.12 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 19 | 7.12 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 19 | 7.12 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 8 | 7.12 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 8 | 7.12 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 8 | 7.12 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 8 | 7.12 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 8 | 7.12 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 8 | 7.12 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 13 | 7.12 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 13 | 7.12 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 13 | 7.12 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 13 | 7.12 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 13 | 7.12 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 13 | 7.12 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 13 | 7.12 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 13 | 7.12 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 13 | 7.12 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 5 | 7.12 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 5 | 7.12 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 1 | 7.12 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 11 | 7.12 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 11 | 7.12 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 19 | 7.12 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 9 | 7.12 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 1 | 7.11 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 12 | 7.11 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 18 | 7.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 3 | 7.11 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 3 | 7.11 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 6 | 7.11 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 6 | 7.11 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 6 | 7.11 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 6 | 7.11 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 4 | 7.11 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 4 | 7.11 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 4 | 7.11 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 4 | 7.11 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 17 | 7.11 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 17 | 7.11 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 7 | 7.11 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 7 | 7.11 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 7 | 7.11 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 7 | 7.11 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 14 | 7.11 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 14 | 7.11 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 14 | 7.11 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 19 | 7.11 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 15 | 7.11 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 13 | 7.11 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 12 | 7.11 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 4 | 7.11 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 12 | 7.11 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 18 | 7.11 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 18 | 7.11 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 18 | 7.11 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 16 | 7.11 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 16 | 7.11 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 16 | 7.11 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 7 | 7.11 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 7 | 7.11 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 7 | 7.11 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 13 | 7.11 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 13 | 7.11 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 13 | 7.11 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 7 | 7.11 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 7 | 7.11 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 7 | 7.11 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 5 | 7.11 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 20 | 7.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 9 | 7.11 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 9 | 7.11 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 9 | 7.11 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 9 | 7.11 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 9 | 7.11 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 9 | 7.11 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 2 | 7.11 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 19 | 7.11 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 9 | 7.11 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 3 | 7.11 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 20 | 7.11 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 20 | 7.11 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 20 | 7.11 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 10 | 7.11 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 18 | 7.11 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 15 | 7.11 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 15 | 7.11 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 15 | 7.11 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 4 | 7.11 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 4 | 7.11 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 4 | 7.11 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 15 | 7.11 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 13 | 7.11 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 13 | 7.11 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 8 | 7.11 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 8 | 7.11 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 11 | 7.11 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 19 | 7.11 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 9 | 7.11 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 3 | 7.11 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 7.11 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 7.11 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 7.11 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 20 | 7.11 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 20 | 7.11 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 20 | 7.11 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 6 | 7.11 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 18 | 7.1 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 4 | 7.1 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 8 | 7.1 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 9 | 7.1 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 4 | 7.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 19 | 7.1 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 19 | 7.1 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 5 | 7.1 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 5 | 7.1 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 6 | 7.1 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 6 | 7.1 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 13 | 7.1 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 13 | 7.1 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 4 | 7.1 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 4 | 7.1 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 4 | 7.1 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 15 | 7.1 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 20 | 7.1 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 18 | 7.1 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 18 | 7.1 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 18 | 7.1 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 20 | 7.1 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 20 | 7.1 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 20 | 7.1 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 20 | 7.1 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 20 | 7.1 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 20 | 7.1 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 2 | 7.1 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 5 | 7.1 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 3 | 7.1 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 15 | 7.1 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 13 | 7.1 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 13 | 7.1 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 8 | 7.1 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 12 | 7.1 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 12 | 7.1 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 12 | 7.1 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 12 | 7.1 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 12 | 7.1 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 12 | 7.1 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 12 | 7.1 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 12 | 7.1 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 12 | 7.1 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 4 | 7.1 |
| (1,7927) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 4 | 7.1 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 1 | 7.1 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 1 | 7.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 1 | 7.1 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 19 | 7.1 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 17 | 7.1 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 17 | 7.1 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 11 | 7.1 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 11 | 7.1 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 11 | 7.1 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 11 | 7.1 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 11 | 7.1 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 11 | 7.1 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 18 | 7.1 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 18 | 7.1 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 18 | 7.1 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 2 | 7.1 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 2 | 7.1 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 2 | 7.1 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 13 | 7.1 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 13 | 7.1 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 13 | 7.1 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 12 | 7.1 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 14 | 7.1 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 14 | 7.1 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 19 | 7.1 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 19 | 7.1 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 5 | 7.1 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 5 | 7.1 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 5 | 7.1 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 3 | 7.1 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 3 | 7.1 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 3 | 7.1 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 12 | 7.1 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 12 | 7.1 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 12 | 7.1 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 2 | 7.1 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 2 | 7.1 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 17 | 7.1 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 17 | 7.1 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 11 | 7.1 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 11 | 7.1 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 11 | 7.1 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 11 | 7.1 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 11 | 7.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 11 | 7.1 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 7.1 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 18 | 7.1 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 18 | 7.1 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 18 | 7.1 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 11 | 7.1 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 2 | 7.1 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 2 | 7.1 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 2 | 7.1 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 10 | 7.1 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 7.1 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 7.1 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 7.1 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 6 | 7.1 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 3 | 7.09 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 3 | 7.09 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 3 | 7.09 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 18 | 7.09 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 18 | 7.09 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 18 | 7.09 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 18 | 7.09 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 18 | 7.09 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 18 | 7.09 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 20 | 7.09 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 20 | 7.09 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 4 | 7.09 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 4 | 7.09 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 4 | 7.09 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 4 | 7.09 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 4 | 7.09 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 4 | 7.09 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 7 | 7.09 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 7 | 7.09 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 7 | 7.09 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 7 | 7.09 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 7 | 7.09 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 7 | 7.09 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 2 | 7.09 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 2 | 7.09 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 13 | 7.09 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 13 | 7.09 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 13 | 7.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 13 | 7.09 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 13 | 7.09 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 13 | 7.09 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 18 | 7.09 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 18 | 7.09 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 18 | 7.09 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 18 | 7.09 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 18 | 7.09 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 18 | 7.09 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 2 | 7.09 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 2 | 7.09 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 15 | 7.09 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 15 | 7.09 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 15 | 7.09 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 10 | 7.09 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 10 | 7.09 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 10 | 7.09 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 12 | 7.09 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 10 | 7.09 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 10 | 7.09 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 10 | 7.09 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 16 | 7.09 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 16 | 7.09 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 16 | 7.09 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 1 | 7.09 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 1 | 7.09 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 1 | 7.09 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 1 | 7.09 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 1 | 7.09 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 1 | 7.09 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 16 | 7.09 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 9 | 7.09 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 9 | 7.09 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 9 | 7.09 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 11 | 7.09 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 16 | 7.09 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 13 | 7.09 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 12 | 7.09 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 12 | 7.09 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 12 | 7.09 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 8 | 7.09 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 8 | 7.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 8 | 7.09 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 19 | 7.09 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 19 | 7.09 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 19 | 7.09 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 19 | 7.09 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 19 | 7.09 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 19 | 7.09 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 19 | 7.09 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 19 | 7.09 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 19 | 7.09 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 2 | 7.09 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 5 | 7.09 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 2 | 7.09 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 2 | 7.09 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 2 | 7.09 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 18 | 7.09 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 15 | 7.09 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 5 | 7.09 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 5 | 7.09 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 5 | 7.09 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 4 | 7.09 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 7 | 7.09 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 7 | 7.09 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 7 | 7.09 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 7 | 7.09 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 7 | 7.09 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 11 | 7.09 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 11 | 7.09 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 15 | 7.09 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 15 | 7.09 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 15 | 7.09 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 5 | 7.09 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 5 | 7.09 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 5 | 7.09 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 12 | 7.09 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 12 | 7.09 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 12 | 7.09 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 12 | 7.09 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 12 | 7.09 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 12 | 7.09 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 1 | 7.09 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 1 | 7.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 1 | 7.09 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 4 | 7.09 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 4 | 7.09 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 4 | 7.09 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 7.09 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 7.09 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 7.09 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 7.09 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 7.09 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 7.09 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 18 | 7.09 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 18 | 7.09 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 18 | 7.09 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 18 | 7.09 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 18 | 7.09 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 18 | 7.09 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 4 | 7.09 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 4 | 7.09 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 4 | 7.09 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 4 | 7.09 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 4 | 7.09 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 4 | 7.09 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 4 | 7.09 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 2 | 7.09 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 2 | 7.09 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 19 | 7.09 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 15 | 7.09 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 15 | 7.09 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 15 | 7.09 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 9 | 7.09 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 15 | 7.09 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 11 | 7.09 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 11 | 7.09 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 1 | 7.09 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 1 | 7.09 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 1 | 7.09 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 1 | 7.09 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 7.09 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 7.09 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 7.09 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 7 | 7.09 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 15 | 7.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 15 | 7.09 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 15 | 7.09 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 11 | 7.09 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 11 | 7.09 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 5 | 7.09 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 5 | 7.09 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 5 | 7.09 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 12 | 7.09 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 12 | 7.09 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 12 | 7.09 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 12 | 7.09 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 12 | 7.09 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 12 | 7.09 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 19 | 7.09 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 11 | 7.09 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 15 | 7.08 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 18 | 7.08 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 9 | 7.08 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 9 | 7.08 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 20 | 7.08 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 20 | 7.08 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 17 | 7.08 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 17 | 7.08 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 4 | 7.08 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 4 | 7.08 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 4 | 7.08 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 4 | 7.08 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 15 | 7.08 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 15 | 7.08 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 15 | 7.08 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 15 | 7.08 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 15 | 7.08 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 15 | 7.08 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 1 | 7.08 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 1 | 7.08 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 1 | 7.08 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 19 | 7.08 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 19 | 7.08 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 19 | 7.08 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 4 | 7.08 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 4 | 7.08 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 4 | 7.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 20 | 7.08 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 20 | 7.08 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 20 | 7.08 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 12 | 7.08 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 12 | 7.08 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 12 | 7.08 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 12 | 7.08 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 12 | 7.08 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 12 | 7.08 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 19 | 7.08 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 15 | 7.08 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 15 | 7.08 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 15 | 7.08 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 16 | 7.08 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 16 | 7.08 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 16 | 7.08 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 16 | 7.08 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 15 | 7.08 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 5 | 7.08 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 14 | 7.08 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 12 | 7.08 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 12 | 7.08 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 12 | 7.08 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 12 | 7.08 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 12 | 7.08 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 12 | 7.08 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 4 | 7.08 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 4 | 7.08 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 4 | 7.08 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 12 | 7.08 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 9 | 7.08 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 8 | 7.08 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 8 | 7.08 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 16 | 7.08 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 3 | 7.08 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 1 | 7.08 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 1 | 7.08 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 1 | 7.08 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 11 | 7.08 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 9 | 7.08 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 9 | 7.08 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 16 | 7.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 16 | 7.08 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 5 | 7.08 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 5 | 7.08 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 5 | 7.08 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 12 | 7.08 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 16 | 7.08 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 16 | 7.08 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 16 | 7.08 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 18 | 7.08 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 18 | 7.08 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 6 | 7.08 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 18 | 7.08 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 17 | 7.08 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 17 | 7.08 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 1 | 7.08 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 15 | 7.08 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 15 | 7.08 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 9 | 7.08 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 9 | 7.08 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 16 | 7.08 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 16 | 7.08 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 7.08 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 5 | 7.08 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 5 | 7.08 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 5 | 7.08 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 6 | 7.08 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 2 | 7.08 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 4 | 7.08 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 10 | 7.08 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 1 | 7.07 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 9 | 7.07 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 5 | 7.07 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 2 | 7.07 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 2 | 7.07 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 19 | 7.07 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 19 | 7.07 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 10 | 7.07 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 10 | 7.07 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 10 | 7.07 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 10 | 7.07 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 10 | 7.07 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 10 | 7.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 16 | 7.07 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 16 | 7.07 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 17 | 7.07 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 17 | 7.07 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 3 | 7.07 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 3 | 7.07 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 6 | 7.07 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 6 | 7.07 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 16 | 7.07 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 16 | 7.07 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 16 | 7.07 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 16 | 7.07 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 16 | 7.07 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 16 | 7.07 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 16 | 7.07 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 16 | 7.07 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 18 | 7.07 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 18 | 7.07 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 18 | 7.07 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 18 | 7.07 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 18 | 7.07 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 18 | 7.07 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 18 | 7.07 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 18 | 7.07 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 18 | 7.07 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 13 | 7.07 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 13 | 7.07 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 4 | 7.07 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 2 | 7.07 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 7 | 7.07 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 7 | 7.07 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 7 | 7.07 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 13 | 7.07 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 13 | 7.07 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 13 | 7.07 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 18 | 7.07 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 15 | 7.07 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 15 | 7.07 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 15 | 7.07 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 18 | 7.07 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 18 | 7.07 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 18 | 7.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 6 | 7.07 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 6 | 7.07 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 6 | 7.07 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 18 | 7.07 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 18 | 7.07 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 18 | 7.07 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 8 | 7.07 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 11 | 7.07 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 11 | 7.07 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 19 | 7.07 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 19 | 7.07 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 19 | 7.07 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 20 | 7.07 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 7 | 7.07 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 17 | 7.07 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 17 | 7.07 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 17 | 7.07 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 17 | 7.07 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 17 | 7.07 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 17 | 7.07 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 7 | 7.07 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 7 | 7.07 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 7 | 7.07 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 3 | 7.07 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 3 | 7.07 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 3 | 7.07 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 3 | 7.07 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 3 | 7.07 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 3 | 7.07 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 13 | 7.07 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 18 | 7.07 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 18 | 7.07 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 18 | 7.07 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 18 | 7.07 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 13 | 7.07 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 13 | 7.07 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 13 | 7.07 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 9 | 7.07 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 2 | 7.07 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 2 | 7.07 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 14 | 7.07 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 4 | 7.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 7.07 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 7.07 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 7.07 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 12 | 7.07 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 19 | 7.07 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 19 | 7.07 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 7.07 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 10 | 7.07 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 10 | 7.07 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 10 | 7.07 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 10 | 7.07 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 10 | 7.07 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 10 | 7.07 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 6 | 7.07 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 6 | 7.07 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 6 | 7.07 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 16 | 7.07 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 18 | 7.07 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 15 | 7.07 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 7 | 7.07 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 7 | 7.07 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 7 | 7.07 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 19 | 7.07 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 19 | 7.07 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 19 | 7.07 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 3 | 7.07 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 3 | 7.07 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 3 | 7.07 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 3 | 7.07 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 3 | 7.07 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 3 | 7.07 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 4 | 7.07 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 13 | 7.07 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 19 | 7.07 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 18 | 7.07 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 18 | 7.07 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 18 | 7.07 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 18 | 7.07 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 13 | 7.07 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 13 | 7.07 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 13 | 7.07 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 4 | 7.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 9 | 7.06 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 13 | 7.06 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 18 | 7.06 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 18 | 7.06 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 5 | 7.06 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 5 | 7.06 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 5 | 7.06 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 5 | 7.06 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 14 | 7.06 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 14 | 7.06 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 11 | 7.06 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 11 | 7.06 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 17 | 7.06 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 17 | 7.06 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 9 | 7.06 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 9 | 7.06 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 9 | 7.06 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 18 | 7.06 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 17 | 7.06 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 17 | 7.06 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 17 | 7.06 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 11 | 7.06 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 11 | 7.06 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 11 | 7.06 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 13 | 7.06 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 1 | 7.06 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 19 | 7.06 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 19 | 7.06 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 19 | 7.06 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 6 | 7.06 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 6 | 7.06 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 6 | 7.06 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 6 | 7.06 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 17 | 7.06 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 5 | 7.06 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 5 | 7.06 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 4 | 7.06 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 11 | 7.06 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 9 | 7.06 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 9 | 7.06 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 7 | 7.06 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 7 | 7.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 7 | 7.06 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 18 | 7.06 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 13 | 7.06 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 14 | 7.06 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 14 | 7.06 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 14 | 7.06 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 8 | 7.06 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 13 | 7.06 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 9 | 7.06 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 9 | 7.06 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 9 | 7.06 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 9 | 7.06 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 9 | 7.06 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 9 | 7.06 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 9 | 7.06 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 9 | 7.06 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 9 | 7.06 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 5 | 7.06 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 5 | 7.06 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 5 | 7.06 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 11 | 7.06 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 11 | 7.06 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 11 | 7.06 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 19 | 7.06 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 19 | 7.06 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 14 | 7.06 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 14 | 7.06 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 13 | 7.06 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 13 | 7.06 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 13 | 7.06 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 17 | 7.06 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 2 | 7.06 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 11 | 7.06 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 11 | 7.06 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 12 | 7.06 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 5 | 7.06 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 11 | 7.06 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 9 | 7.06 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 9 | 7.06 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 7 | 7.06 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 7 | 7.06 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 7 | 7.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 17 | 7.06 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 17 | 7.06 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 17 | 7.06 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 18 | 7.06 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 7 | 7.06 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 17 | 7.06 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 15 | 7.06 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 13 | 7.06 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 14 | 7.06 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 14 | 7.06 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 14 | 7.06 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 8 | 7.06 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 13 | 7.06 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 16 | 7.05 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 17 | 7.05 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 17 | 7.05 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 20 | 7.05 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 20 | 7.05 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 17 | 7.05 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 17 | 7.05 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 17 | 7.05 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 17 | 7.05 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 13 | 7.05 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 13 | 7.05 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 8 | 7.05 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 8 | 7.05 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 6 | 7.05 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 6 | 7.05 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 17 | 7.05 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 17 | 7.05 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 5 | 7.05 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 5 | 7.05 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 16 | 7.05 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 16 | 7.05 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 1 | 7.05 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 1 | 7.05 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 1 | 7.05 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 1 | 7.05 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 1 | 7.05 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 1 | 7.05 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 11 | 7.05 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 11 | 7.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 11 | 7.05 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 13 | 7.05 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 13 | 7.05 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 13 | 7.05 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 13 | 7.05 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 13 | 7.05 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 13 | 7.05 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 13 | 7.05 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 13 | 7.05 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 13 | 7.05 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 9 | 7.05 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 8 | 7.05 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 8 | 7.05 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 8 | 7.05 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 18 | 7.05 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 18 | 7.05 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 18 | 7.05 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 5 | 7.05 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 5 | 7.05 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 5 | 7.05 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 18 | 7.05 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 13 | 7.05 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 20 | 7.05 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 12 | 7.05 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 12 | 7.05 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 12 | 7.05 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 4 | 7.05 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 4 | 7.05 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 4 | 7.05 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 6 | 7.05 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 6 | 7.05 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 17 | 7.05 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 11 | 7.05 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 11 | 7.05 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 11 | 7.05 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 17 | 7.05 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 17 | 7.05 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 20 | 7.05 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 20 | 7.05 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 20 | 7.05 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 20 | 7.05 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 11 | 7.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 11 | 7.05 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 12 | 7.05 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 11 | 7.05 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 4 | 7.05 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 19 | 7.05 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 2 | 7.05 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 2 | 7.05 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 2 | 7.05 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 6 | 7.05 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 14 | 7.05 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 14 | 7.05 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 14 | 7.05 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 11 | 7.05 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 17 | 7.05 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 17 | 7.05 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 17 | 7.05 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 2 | 7.05 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 17 | 7.05 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 17 | 7.05 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 7.05 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 18 | 7.05 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 20 | 7.05 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 20 | 7.05 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 20 | 7.05 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 20 | 7.05 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 11 | 7.05 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 11 | 7.05 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 8 | 7.05 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 1 | 7.05 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 1 | 7.05 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 1 | 7.05 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 12 | 7.04 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 15 | 7.04 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 12 | 7.04 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 7 | 7.04 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 4 | 7.04 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 4 | 7.04 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 4 | 7.04 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 4 | 7.04 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 15 | 7.04 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 15 | 7.04 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 15 | 7.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 15 | 7.04 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 15 | 7.04 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 15 | 7.04 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 7.04 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 7.04 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 17 | 7.04 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 17 | 7.04 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 9 | 7.04 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 9 | 7.04 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 10 | 7.04 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 10 | 7.04 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 10 | 7.04 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 10 | 7.04 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 6 | 7.04 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 6 | 7.04 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 6 | 7.04 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 2 | 7.04 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 11 | 7.04 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 11 | 7.04 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 7 | 7.04 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 1 | 7.04 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 1 | 7.04 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 1 | 7.04 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 5 | 7.04 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 5 | 7.04 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 5 | 7.04 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 17 | 7.04 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 17 | 7.04 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 17 | 7.04 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 3 | 7.04 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 8 | 7.04 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 8 | 7.04 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 8 | 7.04 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 8 | 7.04 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 8 | 7.04 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 8 | 7.04 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 6 | 7.04 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 7 | 7.04 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 7 | 7.04 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 7 | 7.04 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 7 | 7.04 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 7 | 7.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 7 | 7.04 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 14 | 7.04 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 13 | 7.04 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 13 | 7.04 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 13 | 7.04 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 4 | 7.04 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 6 | 7.04 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 6 | 7.04 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 4 | 7.04 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 16 | 7.04 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 16 | 7.04 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 16 | 7.04 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 19 | 7.04 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 19 | 7.04 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 19 | 7.04 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 1 | 7.04 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 1 | 7.04 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 1 | 7.04 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 2 | 7.04 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 11 | 7.04 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 20 | 7.04 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 20 | 7.04 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 20 | 7.04 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 17 | 7.04 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 14 | 7.04 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 14 | 7.04 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 14 | 7.04 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 14 | 7.04 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 14 | 7.04 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 14 | 7.04 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 14 | 7.04 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 14 | 7.04 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 14 | 7.04 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 5 | 7.04 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 3 | 7.04 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 3 | 7.04 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 15 | 7.04 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 11 | 7.04 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 10 | 7.04 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 10 | 7.04 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 10 | 7.04 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 4 | 7.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 4 | 7.04 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 4 | 7.04 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 4 | 7.04 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 9 | 7.04 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 2 | 7.04 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 7 | 7.04 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 7 | 7.04 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 7 | 7.04 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 7 | 7.04 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 16 | 7.04 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 16 | 7.04 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 16 | 7.04 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 15 | 7.04 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 15 | 7.04 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 15 | 7.04 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 3 | 7.04 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 19 | 7.04 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 19 | 7.04 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 19 | 7.04 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 1 | 7.04 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 1 | 7.04 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 1 | 7.04 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 8 | 7.04 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 8 | 7.04 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 8 | 7.04 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 2 | 7.04 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 11 | 7.04 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 9 | 7.04 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 15 | 7.03 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 8 | 7.03 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 8 | 7.03 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 15 | 7.03 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 15 | 7.03 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 15 | 7.03 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 15 | 7.03 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 1 | 7.03 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 1 | 7.03 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 1 | 7.03 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 1 | 7.03 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 1 | 7.03 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 1 | 7.03 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 11 | 7.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 11 | 7.03 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 11 | 7.03 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 11 | 7.03 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 11 | 7.03 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 11 | 7.03 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 18 | 7.03 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 18 | 7.03 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 18 | 7.03 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 18 | 7.03 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 18 | 7.03 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 18 | 7.03 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 7 | 7.03 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 7 | 7.03 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 7 | 7.03 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 7 | 7.03 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 12 | 7.03 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 12 | 7.03 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 14 | 7.03 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 14 | 7.03 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 16 | 7.03 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 16 | 7.03 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 16 | 7.03 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 10 | 7.03 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 5 | 7.03 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 5 | 7.03 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 5 | 7.03 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 9 | 7.03 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 9 | 7.03 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 9 | 7.03 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 5 | 7.03 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 5 | 7.03 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 5 | 7.03 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 14 | 7.03 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 14 | 7.03 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 14 | 7.03 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 5 | 7.03 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 10 | 7.03 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 10 | 7.03 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 10 | 7.03 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 10 | 7.03 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 10 | 7.03 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 10 | 7.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 14 | 7.03 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 14 | 7.03 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 20 | 7.03 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 19 | 7.03 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 19 | 7.03 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 17 | 7.03 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 17 | 7.03 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 17 | 7.03 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 1 | 7.03 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 1 | 7.03 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 6 | 7.03 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 6 | 7.03 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 6 | 7.03 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 6 | 7.03 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 6 | 7.03 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 6 | 7.03 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 4 | 7.03 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 18 | 7.03 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 18 | 7.03 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 18 | 7.03 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 16 | 7.03 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 1 | 7.03 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 1 | 7.03 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 1 | 7.03 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 4 | 7.03 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 4 | 7.03 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 4 | 7.03 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 16 | 7.03 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 17 | 7.03 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 2 | 7.03 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 2 | 7.03 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 8 | 7.03 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 8 | 7.03 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 19 | 7.03 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 5 | 7.03 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 5 | 7.03 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 5 | 7.03 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 9 | 7.03 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 4 | 7.03 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 4 | 7.03 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 4 | 7.03 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 7.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 12 | 7.03 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 17 | 7.03 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 17 | 7.03 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 17 | 7.03 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 4 | 7.03 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 4 | 7.03 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 1 | 7.03 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 1 | 7.03 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 6 | 7.03 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 6 | 7.03 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 6 | 7.03 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 6 | 7.03 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 6 | 7.03 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 6 | 7.03 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 16 | 7.03 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 4 | 7.03 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 18 | 7.03 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 18 | 7.03 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 18 | 7.03 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 3 | 7.03 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 19 | 7.02 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 14 | 7.02 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 10 | 7.02 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 10 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 7 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 7 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 7 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 7 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 7 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 7 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 17 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 17 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 17 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 17 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 17 | 7.02 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 17 | 7.02 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 2 | 7.02 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 2 | 7.02 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 19 | 7.02 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 19 | 7.02 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 1 | 7.02 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 1 | 7.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 15 | 7.02 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 15 | 7.02 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 16 | 7.02 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 16 | 7.02 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 5 | 7.02 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 5 | 7.02 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 5 | 7.02 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 12 | 7.02 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 3 | 7.02 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 5 | 7.02 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 5 | 7.02 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 5 | 7.02 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 10 | 7.02 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 12 | 7.02 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 12 | 7.02 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 12 | 7.02 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 14 | 7.02 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 13 | 7.02 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 13 | 7.02 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 13 | 7.02 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 20 | 7.02 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 6 | 7.02 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 4 | 7.02 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 4 | 7.02 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 4 | 7.02 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 5 | 7.02 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 5 | 7.02 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 5 | 7.02 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 14 | 7.02 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 14 | 7.02 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 14 | 7.02 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 9 | 7.02 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 9 | 7.02 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 9 | 7.02 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 16 | 7.02 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 20 | 7.02 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 20 | 7.02 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 20 | 7.02 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 17 | 7.02 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 17 | 7.02 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 17 | 7.02 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 8 | 7.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 8 | 7.02 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 8 | 7.02 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 8 | 7.02 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 4 | 7.02 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 9 | 7.02 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 20 | 7.02 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 20 | 7.02 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 20 | 7.02 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 20 | 7.02 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 20 | 7.02 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 20 | 7.02 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 20 | 7.02 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 20 | 7.02 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 20 | 7.02 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 11 | 7.02 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 3 | 7.02 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 1 | 7.02 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 6 | 7.02 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 7 | 7.02 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 18 | 7.02 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 2 | 7.02 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 2 | 7.02 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 11 | 7.02 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 16 | 7.02 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 16 | 7.02 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 8 | 7.02 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 4 | 7.02 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 9 | 7.02 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 20 | 7.02 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 20 | 7.02 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 20 | 7.02 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 20 | 7.02 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 20 | 7.02 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 20 | 7.02 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 20 | 7.02 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 20 | 7.02 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 20 | 7.02 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 1 | 7.02 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 4 | 7.02 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 4 | 7.02 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 4 | 7.02 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 2 | 7.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 2 | 7.01 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 9 | 7.01 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 9 | 7.01 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 9 | 7.01 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 9 | 7.01 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 9 | 7.01 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 9 | 7.01 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 8 | 7.01 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 8 | 7.01 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 8 | 7.01 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 8 | 7.01 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 8 | 7.01 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 8 | 7.01 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 18 | 7.01 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 18 | 7.01 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 20 | 7.01 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 20 | 7.01 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 20 | 7.01 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 20 | 7.01 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 7 | 7.01 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 7 | 7.01 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 7 | 7.01 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 17 | 7.01 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 17 | 7.01 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 17 | 7.01 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 3 | 7.01 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 3 | 7.01 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 3 | 7.01 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 12 | 7.01 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 12 | 7.01 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 12 | 7.01 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 5 | 7.01 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 14 | 7.01 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 14 | 7.01 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 11 | 7.01 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 1 | 7.01 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 1 | 7.01 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 8 | 7.01 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 8 | 7.01 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 8 | 7.01 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 2 | 7.01 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 2 | 7.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 2 | 7.01 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 15 | 7.01 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 17 | 7.01 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 17 | 7.01 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 19 | 7.01 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 19 | 7.01 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 19 | 7.01 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 11 | 7.01 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 5 | 7.01 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 11 | 7.01 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 13 | 7.01 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 13 | 7.01 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 13 | 7.01 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 20 | 7.01 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 1 | 7.01 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 2 | 7.01 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 19 | 7.01 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 5 | 7.01 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 6 | 7.01 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 14 | 7.01 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 12 | 7.01 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 6 | 7.01 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 6 | 7.01 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 6 | 7.01 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 9 | 7.01 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 9 | 7.01 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 9 | 7.01 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 9 | 7.01 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 7.01 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 7.01 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 16 | 7.01 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 13 | 7.01 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 13 | 7.01 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 13 | 7.01 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 2 | 7.01 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 4 | 7.01 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 4 | 7.01 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 4 | 7.01 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 7.01 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 5 | 7.01 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 5 | 7.01 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 5 | 7.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 19 | 7.01 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 5 | 7.01 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 6 | 7.01 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 12 | 7.0 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 11 | 7.0 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 20 | 7.0 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 11 | 7.0 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 4 | 7.0 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 4 | 7.0 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 4 | 7.0 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 4 | 7.0 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 1 | 7.0 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 1 | 7.0 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 1 | 7.0 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 1 | 7.0 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 19 | 7.0 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 19 | 7.0 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 9 | 7.0 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 9 | 7.0 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 9 | 7.0 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 9 | 7.0 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 9 | 7.0 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 9 | 7.0 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 17 | 7.0 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 17 | 7.0 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 1 | 7.0 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 1 | 7.0 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 1 | 7.0 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 1 | 7.0 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 1 | 7.0 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 1 | 7.0 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 7 | 7.0 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 7 | 7.0 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 10 | 7.0 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 10 | 7.0 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 4 | 7.0 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 4 | 7.0 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 4 | 7.0 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 4 | 7.0 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 17 | 7.0 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 17 | 7.0 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 10 | 7.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 10 | 7.0 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 16 | 7.0 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 11 | 7.0 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 11 | 7.0 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 11 | 7.0 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 20 | 7.0 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 20 | 7.0 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 20 | 7.0 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 18 | 7.0 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 18 | 7.0 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 18 | 7.0 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 10 | 7.0 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 10 | 7.0 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 10 | 7.0 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 13 | 7.0 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 7 | 7.0 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 7 | 7.0 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 7 | 7.0 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 9 | 7.0 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 5 | 7.0 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 5 | 7.0 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 5 | 7.0 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 5 | 7.0 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 5 | 7.0 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 5 | 7.0 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 2 | 7.0 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 3 | 7.0 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 3 | 7.0 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 3 | 7.0 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 3 | 7.0 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 3 | 7.0 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 3 | 7.0 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 3 | 7.0 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 18 | 7.0 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 20 | 7.0 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 10 | 7.0 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 10 | 7.0 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 10 | 7.0 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 13 | 7.0 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 18 | 7.0 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 18 | 7.0 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 12 | 7.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 15 | 7.0 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 7 | 7.0 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 7 | 7.0 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 6 | 7.0 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 19 | 7.0 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 19 | 7.0 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 19 | 7.0 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 19 | 7.0 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 19 | 7.0 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 19 | 7.0 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 6 | 7.0 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 6 | 7.0 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 6 | 7.0 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 17 | 7.0 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 19 | 7.0 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 19 | 7.0 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 19 | 7.0 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 4 | 7.0 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 12 | 7.0 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 2 | 7.0 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 19 | 7.0 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 19 | 7.0 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 9 | 7.0 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 9 | 7.0 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 9 | 7.0 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 9 | 7.0 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 9 | 7.0 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 9 | 7.0 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 4 | 7.0 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 1 | 7.0 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 1 | 7.0 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 1 | 7.0 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 1 | 7.0 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 1 | 7.0 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 1 | 7.0 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 4 | 7.0 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 15 | 7.0 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 7 | 7.0 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 7 | 7.0 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 10 | 7.0 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 10 | 7.0 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 8 | 7.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 17 | 7.0 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 17 | 7.0 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 15 | 7.0 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 18 | 7.0 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 2 | 7.0 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 11 | 7.0 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 3 | 7.0 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 3 | 7.0 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 7 | 7.0 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 7 | 7.0 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 12 | 7.0 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 12 | 7.0 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 12 | 7.0 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 6 | 7.0 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 19 | 7.0 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 19 | 7.0 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 19 | 7.0 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 19 | 7.0 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 19 | 7.0 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 19 | 7.0 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 6 | 7.0 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 6 | 7.0 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 6 | 7.0 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 6 | 7.0 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 5 | 6.99 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 15 | 6.99 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 5 | 6.99 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 5 | 6.99 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 2 | 6.99 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 2 | 6.99 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 3 | 6.99 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 3 | 6.99 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 3 | 6.99 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 3 | 6.99 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 17 | 6.99 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 17 | 6.99 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 6.99 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 6.99 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 17 | 6.99 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 17 | 6.99 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 20 | 6.99 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 20 | 6.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 8 | 6.99 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 8 | 6.99 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 10 | 6.99 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 10 | 6.99 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 10 | 6.99 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 10 | 6.99 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 10 | 6.99 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 10 | 6.99 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 17 | 6.99 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 17 | 6.99 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 4 | 6.99 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 4 | 6.99 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 4 | 6.99 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 16 | 6.99 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 16 | 6.99 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 16 | 6.99 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 12 | 6.99 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 7 | 6.99 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 7 | 6.99 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 7 | 6.99 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 20 | 6.99 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 7 | 6.99 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 7 | 6.99 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 7 | 6.99 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 2 | 6.99 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 20 | 6.99 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 20 | 6.99 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 20 | 6.99 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 11 | 6.99 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 17 | 6.99 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 17 | 6.99 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 17 | 6.99 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 17 | 6.99 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 17 | 6.99 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 17 | 6.99 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 13 | 6.99 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 3 | 6.99 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 3 | 6.99 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 3 | 6.99 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 13 | 6.99 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 7 | 6.99 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 9 | 6.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 9 | 6.99 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 9 | 6.99 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 12 | 6.99 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 12 | 6.99 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 12 | 6.99 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 15 | 6.99 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 15 | 6.99 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 15 | 6.99 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 19 | 6.99 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 11 | 6.99 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 6 | 6.99 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 6 | 6.99 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 6 | 6.99 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 6 | 6.99 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 6 | 6.99 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 6 | 6.99 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 19 | 6.99 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 2 | 6.99 |
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 14 | 6.99 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 1 | 6.99 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 1 | 6.99 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 1 | 6.99 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 16 | 6.99 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 16 | 6.99 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 15 | 6.99 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 19 | 6.99 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 7 | 6.99 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 7 | 6.99 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 7 | 6.99 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 16 | 6.99 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 16 | 6.99 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 13 | 6.99 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 3 | 6.99 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 3 | 6.99 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 3 | 6.99 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 3 | 6.99 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 14 | 6.99 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 6.99 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 6.99 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 17 | 6.99 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 17 | 6.99 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 12 | 6.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 9 | 6.99 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 9 | 6.99 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 9 | 6.99 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 18 | 6.99 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 8 | 6.99 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 8 | 6.99 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 10 | 6.99 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 10 | 6.99 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 10 | 6.99 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 10 | 6.99 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 10 | 6.99 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 10 | 6.99 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 2 | 6.99 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 1 | 6.99 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 1 | 6.99 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 1 | 6.99 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 20 | 6.99 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 2 | 6.99 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 1 | 6.99 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 1 | 6.99 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 1 | 6.99 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 1 | 6.99 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 3 | 6.99 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 17 | 6.99 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 4 | 6.98 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 2 | 6.98 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 10 | 6.98 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 10 | 6.98 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 20 | 6.98 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 20 | 6.98 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 20 | 6.98 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 20 | 6.98 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 6 | 6.98 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 6 | 6.98 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 8 | 6.98 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 8 | 6.98 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 13 | 6.98 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 13 | 6.98 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 13 | 6.98 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 13 | 6.98 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 13 | 6.98 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 13 | 6.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 7 | 6.98 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 7 | 6.98 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 10 | 6.98 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 10 | 6.98 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 14 | 6.98 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 14 | 6.98 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 18 | 6.98 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 12 | 6.98 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 15 | 6.98 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 15 | 6.98 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 15 | 6.98 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 18 | 6.98 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 11 | 6.98 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 11 | 6.98 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 11 | 6.98 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 10 | 6.98 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 10 | 6.98 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 10 | 6.98 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 11 | 6.98 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 11 | 6.98 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 11 | 6.98 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 10 | 6.98 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 10 | 6.98 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 10 | 6.98 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 3 | 6.98 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 14 | 6.98 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 13 | 6.98 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 13 | 6.98 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 13 | 6.98 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 15 | 6.98 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 5 | 6.98 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 13 | 6.98 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 13 | 6.98 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 13 | 6.98 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 12 | 6.98 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 11 | 6.98 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 11 | 6.98 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 11 | 6.98 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 17 | 6.98 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 17 | 6.98 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 17 | 6.98 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 17 | 6.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 17 | 6.98 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 17 | 6.98 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 5 | 6.98 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 5 | 6.98 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 5 | 6.98 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 16 | 6.98 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 4 | 6.98 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 4 | 6.98 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 4 | 6.98 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 18 | 6.98 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 10 | 6.98 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 10 | 6.98 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 11 | 6.98 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 11 | 6.98 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 5 | 6.98 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 11 | 6.98 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 7 | 6.98 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 7 | 6.98 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 6 | 6.98 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 17 | 6.98 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 17 | 6.98 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 17 | 6.98 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 17 | 6.98 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 4 | 6.98 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 13 | 6.98 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 13 | 6.98 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 13 | 6.98 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 15 | 6.98 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 6 | 6.98 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 6 | 6.98 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 4 | 6.98 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 4 | 6.98 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 4 | 6.98 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 4 | 6.98 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 4 | 6.98 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 4 | 6.98 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 13 | 6.98 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 13 | 6.98 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 13 | 6.98 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 12 | 6.98 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 11 | 6.98 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 11 | 6.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 11 | 6.98 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 18 | 6.98 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 11 | 6.98 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 17 | 6.98 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 17 | 6.98 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 17 | 6.98 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 17 | 6.98 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 17 | 6.98 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 17 | 6.98 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 9 | 6.97 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 17 | 6.97 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 17 | 6.97 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 9 | 6.97 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 9 | 6.97 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 9 | 6.97 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 9 | 6.97 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 1 | 6.97 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 1 | 6.97 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 12 | 6.97 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 12 | 6.97 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 12 | 6.97 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 12 | 6.97 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 17 | 6.97 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 17 | 6.97 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 19 | 6.97 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 19 | 6.97 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 3 | 6.97 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 3 | 6.97 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 14 | 6.97 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 14 | 6.97 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 15 | 6.97 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 15 | 6.97 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 17 | 6.97 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 17 | 6.97 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 17 | 6.97 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 17 | 6.97 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 4 | 6.97 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 4 | 6.97 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 4 | 6.97 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 4 | 6.97 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 4 | 6.97 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 12 | 6.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 16 | 6.97 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 2 | 6.97 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 2 | 6.97 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 2 | 6.97 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 15 | 6.97 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 15 | 6.97 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 15 | 6.97 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 4 | 6.97 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 5 | 6.97 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 5 | 6.97 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 7 | 6.97 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 7 | 6.97 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 7 | 6.97 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 7 | 6.97 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 7 | 6.97 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 7 | 6.97 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 13 | 6.97 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 20 | 6.97 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 20 | 6.97 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 20 | 6.97 |
| (1,7535) | 1:15:A:MET:H | 1:21:A:ARG:H | 5 | 6.97 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 18 | 6.97 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 18 | 6.97 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 18 | 6.97 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 20 | 6.97 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 15 | 6.97 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 2 | 6.97 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 17 | 6.97 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 17 | 6.97 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 17 | 6.97 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 17 | 6.97 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 17 | 6.97 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 17 | 6.97 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 9 | 6.97 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 9 | 6.97 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 9 | 6.97 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 9 | 6.97 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 9 | 6.97 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 9 | 6.97 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 9 | 6.97 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 16 | 6.97 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 16 | 6.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 2 | 6.97 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 1 | 6.97 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 1 | 6.97 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 9 | 6.97 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 9 | 6.97 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 9 | 6.97 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 17 | 6.97 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 17 | 6.97 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 19 | 6.97 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 3 | 6.97 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 10 | 6.97 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 10 | 6.97 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 1 | 6.97 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 18 | 6.97 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 18 | 6.97 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 18 | 6.97 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 4 | 6.97 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 4 | 6.97 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 4 | 6.97 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 4 | 6.97 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 20 | 6.97 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 15 | 6.97 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 2 | 6.97 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 11 | 6.97 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 17 | 6.97 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 17 | 6.97 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 17 | 6.97 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 17 | 6.97 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 17 | 6.97 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 17 | 6.97 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 17 | 6.97 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 14 | 6.96 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 12 | 6.96 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 12 | 6.96 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 12 | 6.96 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 12 | 6.96 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 9 | 6.96 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 9 | 6.96 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 8 | 6.96 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 8 | 6.96 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 18 | 6.96 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 18 | 6.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 7 | 6.96 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 7 | 6.96 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 7 | 6.96 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 7 | 6.96 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 7 | 6.96 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 7 | 6.96 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 11 | 6.96 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 11 | 6.96 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 11 | 6.96 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 11 | 6.96 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 11 | 6.96 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 11 | 6.96 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 8 | 6.96 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 8 | 6.96 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 8 | 6.96 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 8 | 6.96 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 8 | 6.96 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 8 | 6.96 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 3 | 6.96 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 3 | 6.96 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 3 | 6.96 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 3 | 6.96 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 3 | 6.96 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 3 | 6.96 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 19 | 6.96 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 19 | 6.96 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 5 | 6.96 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 5 | 6.96 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 3 | 6.96 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 3 | 6.96 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 4 | 6.96 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 4 | 6.96 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 4 | 6.96 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 4 | 6.96 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 15 | 6.96 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 15 | 6.96 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 15 | 6.96 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 20 | 6.96 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 15 | 6.96 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 15 | 6.96 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 1 | 6.96 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 1 | 6.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 1 | 6.96 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 6 | 6.96 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 6 | 6.96 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 6 | 6.96 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 4 | 6.96 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 4 | 6.96 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 4 | 6.96 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 10 | 6.96 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 17 | 6.96 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 17 | 6.96 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 17 | 6.96 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 4 | 6.96 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 4 | 6.96 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 4 | 6.96 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 6 | 6.96 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 6 | 6.96 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 6 | 6.96 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 5 | 6.96 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 5 | 6.96 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 5 | 6.96 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 5 | 6.96 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 5 | 6.96 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 5 | 6.96 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 17 | 6.96 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 17 | 6.96 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 5 | 6.96 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 5 | 6.96 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 6 | 6.96 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 6 | 6.96 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 6 | 6.96 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 6 | 6.96 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 6 | 6.96 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 6 | 6.96 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 12 | 6.96 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 12 | 6.96 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 20 | 6.96 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 13 | 6.96 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 7 | 6.96 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 7 | 6.96 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 7 | 6.96 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 4 | 6.96 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 11 | 6.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 11 | 6.96 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 7 | 6.96 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 7 | 6.96 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 11 | 6.96 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 14 | 6.96 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 1 | 6.96 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 12 | 6.96 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 8 | 6.96 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 18 | 6.96 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 18 | 6.96 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 18 | 6.96 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 10 | 6.96 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 18 | 6.96 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 13 | 6.96 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 13 | 6.96 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 2 | 6.96 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 2 | 6.96 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 6 | 6.96 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 6 | 6.96 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 7 | 6.96 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 18 | 6.96 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 18 | 6.96 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 3 | 6.96 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 3 | 6.96 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 3 | 6.96 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 3 | 6.96 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 3 | 6.96 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 3 | 6.96 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 9 | 6.96 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 9 | 6.96 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 9 | 6.96 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 8 | 6.96 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 14 | 6.96 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 14 | 6.96 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 14 | 6.96 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 14 | 6.96 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 11 | 6.96 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 11 | 6.96 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 7 | 6.96 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 7 | 6.96 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 11 | 6.96 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 14 | 6.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 1 | 6.96 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 4 | 6.96 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 4 | 6.96 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 4 | 6.96 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 14 | 6.96 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 2 | 6.96 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 11 | 6.96 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 9 | 6.95 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 3 | 6.95 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 13 | 6.95 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 13 | 6.95 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 9 | 6.95 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 9 | 6.95 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 9 | 6.95 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 9 | 6.95 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 1 | 6.95 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 1 | 6.95 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 2 | 6.95 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 2 | 6.95 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 16 | 6.95 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 16 | 6.95 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 7 | 6.95 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 7 | 6.95 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 1 | 6.95 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 1 | 6.95 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 1 | 6.95 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 1 | 6.95 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 1 | 6.95 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 1 | 6.95 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 8 | 6.95 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 8 | 6.95 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 16 | 6.95 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 16 | 6.95 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 2 | 6.95 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 2 | 6.95 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 11 | 6.95 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 11 | 6.95 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 2 | 6.95 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 2 | 6.95 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 6 | 6.95 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 6 | 6.95 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 12 | 6.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 12 | 6.95 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 16 | 6.95 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 16 | 6.95 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 16 | 6.95 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 16 | 6.95 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 20 | 6.95 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 20 | 6.95 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 20 | 6.95 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 11 | 6.95 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 11 | 6.95 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 11 | 6.95 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 12 | 6.95 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 12 | 6.95 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 12 | 6.95 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 11 | 6.95 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 2 | 6.95 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 8 | 6.95 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 1 | 6.95 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 6 | 6.95 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 3 | 6.95 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 3 | 6.95 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 3 | 6.95 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 4 | 6.95 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 13 | 6.95 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 5 | 6.95 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 18 | 6.95 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 9 | 6.95 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 13 | 6.95 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 20 | 6.95 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 11 | 6.95 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 2 | 6.95 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 12 | 6.95 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 12 | 6.95 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 12 | 6.95 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 2 | 6.95 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 2 | 6.95 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 2 | 6.95 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 18 | 6.95 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 6 | 6.95 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 6 | 6.95 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 12 | 6.95 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 12 | 6.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 9 | 6.95 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 9 | 6.95 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 9 | 6.95 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 9 | 6.95 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 6.95 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 6.95 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 6.95 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 17 | 6.95 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 17 | 6.95 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 3 | 6.95 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 8 | 6.95 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 8 | 6.95 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 9 | 6.95 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 6 | 6.95 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 11 | 6.95 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 16 | 6.95 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 16 | 6.95 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 16 | 6.95 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 7 | 6.95 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 7 | 6.95 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 10 | 6.95 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 10 | 6.95 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 13 | 6.95 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 20 | 6.95 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 3 | 6.95 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 11 | 6.95 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 2 | 6.95 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 6.95 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 1 | 6.95 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 6.95 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 1 | 6.95 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 14 | 6.95 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 12 | 6.95 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 18 | 6.95 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 12 | 6.95 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 12 | 6.95 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 18 | 6.95 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 2 | 6.95 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 2 | 6.95 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 2 | 6.95 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 3 | 6.95 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 13 | 6.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 7 | 6.94 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 7 | 6.94 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 7 | 6.94 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 7 | 6.94 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 7 | 6.94 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 7 | 6.94 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 7 | 6.94 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 7 | 6.94 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 16 | 6.94 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 16 | 6.94 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 17 | 6.94 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 17 | 6.94 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 18 | 6.94 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 18 | 6.94 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 18 | 6.94 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 18 | 6.94 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 18 | 6.94 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 18 | 6.94 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 12 | 6.94 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 12 | 6.94 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 17 | 6.94 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 17 | 6.94 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 17 | 6.94 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 17 | 6.94 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 6 | 6.94 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 6 | 6.94 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 6 | 6.94 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 11 | 6.94 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 11 | 6.94 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 11 | 6.94 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 18 | 6.94 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 20 | 6.94 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 20 | 6.94 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 20 | 6.94 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 8 | 6.94 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 4 | 6.94 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 18 | 6.94 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 18 | 6.94 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 18 | 6.94 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 19 | 6.94 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 19 | 6.94 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 19 | 6.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 1 | 6.94 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 1 | 6.94 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 1 | 6.94 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 8 | 6.94 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 8 | 6.94 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 8 | 6.94 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 10 | 6.94 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 3 | 6.94 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 3 | 6.94 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 3 | 6.94 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 2 | 6.94 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 20 | 6.94 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 20 | 6.94 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 20 | 6.94 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 2 | 6.94 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 2 | 6.94 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 2 | 6.94 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 2 | 6.94 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 2 | 6.94 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 2 | 6.94 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 2 | 6.94 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 2 | 6.94 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 2 | 6.94 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 10 | 6.94 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 8 | 6.94 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 19 | 6.94 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 19 | 6.94 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 19 | 6.94 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 9 | 6.94 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 13 | 6.94 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 13 | 6.94 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 13 | 6.94 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 7 | 6.94 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 7 | 6.94 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 18 | 6.94 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 18 | 6.94 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 18 | 6.94 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 18 | 6.94 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 15 | 6.94 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 15 | 6.94 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 15 | 6.94 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 5 | 6.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 4 | 6.94 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 13 | 6.94 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 13 | 6.94 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 13 | 6.94 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 18 | 6.94 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 1 | 6.94 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 1 | 6.94 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 1 | 6.94 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 16 | 6.94 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 16 | 6.94 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 16 | 6.94 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 2 | 6.94 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 16 | 6.94 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 16 | 6.94 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 6 | 6.94 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 8 | 6.94 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 16 | 6.94 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 2 | 6.94 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 16 | 6.94 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 15 | 6.94 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 15 | 6.94 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 15 | 6.94 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 7 | 6.94 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 5 | 6.94 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 4 | 6.94 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 6.94 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 13 | 6.94 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 13 | 6.94 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 13 | 6.94 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 18 | 6.94 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 15 | 6.93 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 6 | 6.93 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 6 | 6.93 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 15 | 6.93 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 17 | 6.93 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 17 | 6.93 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 17 | 6.93 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 17 | 6.93 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 7 | 6.93 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 7 | 6.93 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 7 | 6.93 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 7 | 6.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 7 | 6.93 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 7 | 6.93 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 7 | 6.93 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 16 | 6.93 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 16 | 6.93 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 16 | 6.93 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 13 | 6.93 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 8 | 6.93 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 14 | 6.93 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 13 | 6.93 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 13 | 6.93 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 13 | 6.93 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 17 | 6.93 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 17 | 6.93 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 5 | 6.93 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 5 | 6.93 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 20 | 6.93 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 18 | 6.93 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 18 | 6.93 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 18 | 6.93 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 1 | 6.93 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 4 | 6.93 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 11 | 6.93 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 20 | 6.93 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 20 | 6.93 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 7 | 6.93 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 5 | 6.93 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 19 | 6.93 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 19 | 6.93 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 19 | 6.93 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 19 | 6.93 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 19 | 6.93 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 19 | 6.93 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 18 | 6.93 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 12 | 6.93 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 2 | 6.93 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 2 | 6.93 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 2 | 6.93 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 2 | 6.93 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 2 | 6.93 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 2 | 6.93 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 19 | 6.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 19 | 6.93 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 19 | 6.93 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 19 | 6.93 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 19 | 6.93 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 19 | 6.93 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 19 | 6.93 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 19 | 6.93 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 19 | 6.93 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 11 | 6.93 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 5 | 6.93 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 20 | 6.93 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 20 | 6.93 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 20 | 6.93 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 6 | 6.93 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 6 | 6.93 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 6 | 6.93 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 7 | 6.93 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 5 | 6.93 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 5 | 6.93 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 20 | 6.93 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 20 | 6.93 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 7 | 6.93 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 5 | 6.93 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 19 | 6.93 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 19 | 6.93 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 19 | 6.93 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 19 | 6.93 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 19 | 6.93 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 19 | 6.93 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 6.93 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 6.93 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 6.93 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 18 | 6.93 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 13 | 6.93 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 13 | 6.93 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 13 | 6.93 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 14 | 6.93 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 14 | 6.93 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 14 | 6.93 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 16 | 6.93 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 16 | 6.93 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 16 | 6.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 16 | 6.93 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 16 | 6.93 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 16 | 6.93 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 17 | 6.93 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 12 | 6.93 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 2 | 6.93 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 2 | 6.93 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 2 | 6.93 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 2 | 6.93 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 2 | 6.93 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 2 | 6.93 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 18 | 6.92 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 16 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 4 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 4 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 4 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 4 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 17 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 17 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 17 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 17 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 6.92 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 6.92 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 11 | 6.92 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 11 | 6.92 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 11 | 6.92 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 11 | 6.92 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 11 | 6.92 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 11 | 6.92 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 5 | 6.92 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 5 | 6.92 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 5 | 6.92 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 5 | 6.92 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 5 | 6.92 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 5 | 6.92 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 8 | 6.92 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 8 | 6.92 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 19 | 6.92 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 19 | 6.92 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 17 | 6.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 17 | 6.92 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 18 | 6.92 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 18 | 6.92 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 18 | 6.92 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 18 | 6.92 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 7 | 6.92 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 7 | 6.92 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 9 | 6.92 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 9 | 6.92 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 9 | 6.92 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 9 | 6.92 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 9 | 6.92 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 9 | 6.92 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 9 | 6.92 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 9 | 6.92 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 9 | 6.92 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 2 | 6.92 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 4 | 6.92 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 4 | 6.92 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 4 | 6.92 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 15 | 6.92 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 15 | 6.92 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 16 | 6.92 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 16 | 6.92 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 16 | 6.92 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 11 | 6.92 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 17 | 6.92 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 18 | 6.92 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 18 | 6.92 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 18 | 6.92 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 6 | 6.92 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 8 | 6.92 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 8 | 6.92 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 8 | 6.92 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 20 | 6.92 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 20 | 6.92 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 20 | 6.92 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 2 | 6.92 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 2 | 6.92 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 2 | 6.92 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 8 | 6.92 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 8 | 6.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 8 | 6.92 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 8 | 6.92 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 8 | 6.92 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 8 | 6.92 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 16 | 6.92 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 5 | 6.92 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 8 | 6.92 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 8 | 6.92 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 13 | 6.92 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 6 | 6.92 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 6 | 6.92 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 6 | 6.92 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 18 | 6.92 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 14 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 4 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 4 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 4 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 4 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 17 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 17 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 17 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 17 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 6.92 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 6.92 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 14 | 6.92 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 17 | 6.92 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 8 | 6.92 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 8 | 6.92 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 19 | 6.92 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 19 | 6.92 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 17 | 6.92 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 17 | 6.92 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 16 | 6.92 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 16 | 6.92 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 16 | 6.92 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 5 | 6.92 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 17 | 6.92 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 13 | 6.92 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 6 | 6.92 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 6 | 6.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 6 | 6.92 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 1 | 6.92 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 1 | 6.92 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 14 | 6.92 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 12 | 6.92 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 18 | 6.92 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 13 | 6.91 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 3 | 6.91 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 3 | 6.91 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 18 | 6.91 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 18 | 6.91 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 8 | 6.91 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 8 | 6.91 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 8 | 6.91 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 8 | 6.91 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 8 | 6.91 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 8 | 6.91 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 4 | 6.91 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 4 | 6.91 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 11 | 6.91 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 11 | 6.91 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 11 | 6.91 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 11 | 6.91 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 11 | 6.91 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 11 | 6.91 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 10 | 6.91 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 10 | 6.91 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 10 | 6.91 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 10 | 6.91 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 10 | 6.91 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 10 | 6.91 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 9 | 6.91 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 9 | 6.91 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 20 | 6.91 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 20 | 6.91 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 17 | 6.91 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 17 | 6.91 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 17 | 6.91 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 17 | 6.91 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 17 | 6.91 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 17 | 6.91 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 17 | 6.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 17 | 6.91 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 17 | 6.91 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 20 | 6.91 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 20 | 6.91 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 17 | 6.91 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 17 | 6.91 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 17 | 6.91 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 17 | 6.91 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 17 | 6.91 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 17 | 6.91 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 7 | 6.91 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 7 | 6.91 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 7 | 6.91 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 20 | 6.91 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 20 | 6.91 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 2 | 6.91 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 3 | 6.91 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 3 | 6.91 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 3 | 6.91 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 3 | 6.91 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 16 | 6.91 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 12 | 6.91 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 12 | 6.91 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 12 | 6.91 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 13 | 6.91 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 13 | 6.91 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 13 | 6.91 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 15 | 6.91 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 3 | 6.91 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 3 | 6.91 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 11 | 6.91 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 5 | 6.91 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 5 | 6.91 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 6.91 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 6.91 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 6.91 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 14 | 6.91 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 14 | 6.91 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 15 | 6.91 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 15 | 6.91 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 15 | 6.91 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 12 | 6.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 12 | 6.91 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 12 | 6.91 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 12 | 6.91 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 6 | 6.91 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 2 | 6.91 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 2 | 6.91 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 2 | 6.91 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 2 | 6.91 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 2 | 6.91 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 2 | 6.91 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 12 | 6.91 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 12 | 6.91 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 12 | 6.91 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 11 | 6.91 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 11 | 6.91 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 11 | 6.91 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 6 | 6.91 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 6 | 6.91 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 6 | 6.91 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 20 | 6.91 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 20 | 6.91 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 20 | 6.91 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 3 | 6.91 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 8 | 6.91 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 8 | 6.91 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 1 | 6.91 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 1 | 6.91 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 1 | 6.91 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 3 | 6.91 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 7 | 6.91 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 7 | 6.91 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 7 | 6.91 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 11 | 6.91 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 11 | 6.91 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 11 | 6.91 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 11 | 6.91 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 11 | 6.91 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 11 | 6.91 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 14 | 6.91 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 14 | 6.91 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 9 | 6.91 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 9 | 6.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 9 | 6.91 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 13 | 6.91 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 13 | 6.91 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 13 | 6.91 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 2 | 6.91 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 2 | 6.91 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 2 | 6.91 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 6.91 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 6.91 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 6.91 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 19 | 6.91 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 14 | 6.91 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 14 | 6.91 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 12 | 6.91 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 12 | 6.91 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 12 | 6.91 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 12 | 6.91 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 6 | 6.91 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 2 | 6.91 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 2 | 6.91 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 2 | 6.91 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 2 | 6.91 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 2 | 6.91 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 2 | 6.91 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 15 | 6.91 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 12 | 6.91 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 12 | 6.91 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 12 | 6.91 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 1 | 6.91 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 19 | 6.91 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 8 | 6.9 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 8 | 6.9 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 17 | 6.9 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 3 | 6.9 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 3 | 6.9 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 13 | 6.9 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 13 | 6.9 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 19 | 6.9 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 19 | 6.9 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 19 | 6.9 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 19 | 6.9 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 14 | 6.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 14 | 6.9 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 14 | 6.9 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 14 | 6.9 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 2 | 6.9 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 2 | 6.9 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 11 | 6.9 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 11 | 6.9 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 18 | 6.9 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 8 | 6.9 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 8 | 6.9 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 8 | 6.9 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 1 | 6.9 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 1 | 6.9 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 1 | 6.9 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 12 | 6.9 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 12 | 6.9 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 6 | 6.9 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 6 | 6.9 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 6 | 6.9 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 18 | 6.9 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 18 | 6.9 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 18 | 6.9 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 18 | 6.9 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 2 | 6.9 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 4 | 6.9 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 16 | 6.9 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 16 | 6.9 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 16 | 6.9 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 13 | 6.9 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 10 | 6.9 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 4 | 6.9 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 4 | 6.9 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 20 | 6.9 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 12 | 6.9 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 8 | 6.9 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 12 | 6.9 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 12 | 6.9 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 12 | 6.9 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 14 | 6.9 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 10 | 6.9 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 10 | 6.9 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 10 | 6.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 10 | 6.9 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 10 | 6.9 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 10 | 6.9 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 12 | 6.9 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 7 | 6.9 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 7 | 6.9 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 10 | 6.9 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 10 | 6.9 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 6 | 6.9 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 16 | 6.9 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 5 | 6.9 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 2 | 6.9 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 2 | 6.9 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 2 | 6.9 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 4 | 6.9 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 4 | 6.9 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 4 | 6.9 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 3 | 6.9 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 3 | 6.9 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 14 | 6.9 |
| (1,4452) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 14 | 6.9 |
| (1,3906) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 17 | 6.9 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 11 | 6.9 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 11 | 6.9 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 3 | 6.9 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 11 | 6.9 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 4 | 6.9 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 4 | 6.9 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 10 | 6.9 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 10 | 6.9 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 10 | 6.9 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 16 | 6.9 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 16 | 6.9 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 16 | 6.9 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 17 | 6.9 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 17 | 6.9 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 17 | 6.9 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 13 | 6.9 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 12 | 6.9 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 7 | 6.9 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 7 | 6.9 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 10 | 6.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 10 | 6.9 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 17 | 6.9 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 6 | 6.9 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 16 | 6.9 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 5 | 6.9 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 13 | 6.9 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 13 | 6.9 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 13 | 6.9 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 11 | 6.9 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 11 | 6.9 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 11 | 6.9 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 16 | 6.89 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 2 | 6.89 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 17 | 6.89 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 2 | 6.89 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 2 | 6.89 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 2 | 6.89 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 2 | 6.89 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 4 | 6.89 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 4 | 6.89 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 11 | 6.89 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 11 | 6.89 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 11 | 6.89 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 11 | 6.89 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 11 | 6.89 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 11 | 6.89 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 7 | 6.89 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 7 | 6.89 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 14 | 6.89 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 14 | 6.89 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 5 | 6.89 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 5 | 6.89 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 15 | 6.89 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 15 | 6.89 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 15 | 6.89 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 15 | 6.89 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 14 | 6.89 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 14 | 6.89 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 14 | 6.89 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 3 | 6.89 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 3 | 6.89 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 3 | 6.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 20 | 6.89 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 8 | 6.89 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 8 | 6.89 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 8 | 6.89 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 6 | 6.89 |
| (1,8123) | 1:94:A:GLN:H | 1:96:A:ILE:HG12 | 12 | 6.89 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 2 | 6.89 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 12 | 6.89 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 12 | 6.89 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 12 | 6.89 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 1 | 6.89 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 14 | 6.89 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 4 | 6.89 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 4 | 6.89 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 4 | 6.89 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 4 | 6.89 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 4 | 6.89 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 4 | 6.89 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 4 | 6.89 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 4 | 6.89 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 4 | 6.89 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 20 | 6.89 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 17 | 6.89 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 17 | 6.89 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 4 | 6.89 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 2 | 6.89 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 9 | 6.89 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 9 | 6.89 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 14 | 6.89 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 14 | 6.89 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 15 | 6.89 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 18 | 6.89 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 14 | 6.89 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 14 | 6.89 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 14 | 6.89 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 14 | 6.89 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 14 | 6.89 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 14 | 6.89 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 5 | 6.89 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 5 | 6.89 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 5 | 6.89 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 6 | 6.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 6 | 6.89 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 7 | 6.89 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 18 | 6.89 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 20 | 6.89 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 16 | 6.89 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 2 | 6.89 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 2 | 6.89 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 2 | 6.89 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 2 | 6.89 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 8 | 6.89 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 16 | 6.89 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 7 | 6.89 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 16 | 6.89 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 16 | 6.89 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 16 | 6.89 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 7 | 6.89 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 7 | 6.89 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 8 | 6.89 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 8 | 6.89 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 8 | 6.89 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 14 | 6.89 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 14 | 6.89 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 5 | 6.89 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 5 | 6.89 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 10 | 6.89 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 17 | 6.89 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 17 | 6.89 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 18 | 6.89 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 14 | 6.89 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 14 | 6.89 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 14 | 6.89 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 14 | 6.89 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 14 | 6.89 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 14 | 6.89 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 5 | 6.89 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 5 | 6.89 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 5 | 6.89 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 6 | 6.89 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 6 | 6.89 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 6.89 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 6.89 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 6.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 7 | 6.89 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 2 | 6.89 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 2 | 6.89 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 18 | 6.89 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 16 | 6.89 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 13 | 6.88 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 13 | 6.88 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 13 | 6.88 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 18 | 6.88 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 18 | 6.88 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 13 | 6.88 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 13 | 6.88 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 18 | 6.88 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 18 | 6.88 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 20 | 6.88 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 20 | 6.88 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 20 | 6.88 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 20 | 6.88 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 20 | 6.88 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 20 | 6.88 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 7 | 6.88 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 7 | 6.88 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 12 | 6.88 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 12 | 6.88 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 14 | 6.88 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 14 | 6.88 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 16 | 6.88 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 16 | 6.88 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 9 | 6.88 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 9 | 6.88 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 11 | 6.88 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 11 | 6.88 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 11 | 6.88 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 11 | 6.88 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 11 | 6.88 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 11 | 6.88 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 18 | 6.88 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 18 | 6.88 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 14 | 6.88 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 14 | 6.88 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 14 | 6.88 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 17 | 6.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 17 | 6.88 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 17 | 6.88 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 2 | 6.88 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 1 | 6.88 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 1 | 6.88 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 9 | 6.88 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 14 | 6.88 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 14 | 6.88 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 14 | 6.88 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 20 | 6.88 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 20 | 6.88 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 20 | 6.88 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 10 | 6.88 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 11 | 6.88 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 16 | 6.88 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 7 | 6.88 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 11 | 6.88 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 11 | 6.88 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 11 | 6.88 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 15 | 6.88 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 15 | 6.88 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 15 | 6.88 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 15 | 6.88 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 18 | 6.88 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 18 | 6.88 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 13 | 6.88 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 13 | 6.88 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 13 | 6.88 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 14 | 6.88 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 14 | 6.88 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 14 | 6.88 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 11 | 6.88 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 11 | 6.88 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 4 | 6.88 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 4 | 6.88 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 4 | 6.88 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 4 | 6.88 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 4 | 6.88 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 4 | 6.88 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 11 | 6.88 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 11 | 6.88 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 12 | 6.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 10 | 6.88 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 16 | 6.88 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 9 | 6.88 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 9 | 6.88 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 9 | 6.88 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 15 | 6.88 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 15 | 6.88 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 7 | 6.88 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 7 | 6.88 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 7 | 6.88 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 7 | 6.88 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 7 | 6.88 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 7 | 6.88 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 8 | 6.88 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 9 | 6.88 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 2 | 6.88 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 1 | 6.88 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 1 | 6.88 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 1 | 6.88 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 10 | 6.88 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 19 | 6.88 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 19 | 6.88 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 6.88 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 7 | 6.88 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 16 | 6.88 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 10 | 6.88 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 6 | 6.88 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 6 | 6.88 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 6 | 6.88 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 5 | 6.88 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 15 | 6.88 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 16 | 6.88 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 16 | 6.88 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 9 | 6.88 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 9 | 6.88 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 11 | 6.88 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 11 | 6.88 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 11 | 6.88 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 11 | 6.88 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 11 | 6.88 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 11 | 6.88 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 11 | 6.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 11 | 6.88 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 6.88 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 10 | 6.88 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 12 | 6.88 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 10 | 6.88 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 16 | 6.88 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 11 | 6.88 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 11 | 6.88 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 11 | 6.88 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 16 | 6.88 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 9 | 6.88 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 9 | 6.88 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 9 | 6.88 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 15 | 6.88 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 15 | 6.88 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 7 | 6.88 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 7 | 6.88 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 7 | 6.88 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 7 | 6.88 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 7 | 6.88 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 7 | 6.88 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 8 | 6.88 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 6 | 6.88 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 6 | 6.88 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 9 | 6.88 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 5 | 6.87 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 14 | 6.87 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 14 | 6.87 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 20 | 6.87 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 20 | 6.87 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 9 | 6.87 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 9 | 6.87 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 18 | 6.87 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 18 | 6.87 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 18 | 6.87 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 18 | 6.87 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 4 | 6.87 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 4 | 6.87 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 2 | 6.87 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 2 | 6.87 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 16 | 6.87 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 16 | 6.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 12 | 6.87 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 12 | 6.87 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 12 | 6.87 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 12 | 6.87 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 8 | 6.87 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 8 | 6.87 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 8 | 6.87 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 8 | 6.87 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 8 | 6.87 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 8 | 6.87 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 6 | 6.87 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 6 | 6.87 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 16 | 6.87 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 16 | 6.87 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 16 | 6.87 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 16 | 6.87 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 16 | 6.87 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 16 | 6.87 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 19 | 6.87 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 19 | 6.87 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 17 | 6.87 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 17 | 6.87 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 16 | 6.87 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 16 | 6.87 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 16 | 6.87 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 20 | 6.87 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 2 | 6.87 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 14 | 6.87 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 14 | 6.87 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 14 | 6.87 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 4 | 6.87 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 4 | 6.87 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 4 | 6.87 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 4 | 6.87 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 4 | 6.87 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 4 | 6.87 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 20 | 6.87 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 20 | 6.87 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 20 | 6.87 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 9 | 6.87 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 6 | 6.87 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 11 | 6.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 8 | 6.87 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 7 | 6.87 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 7 | 6.87 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 7 | 6.87 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 15 | 6.87 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 11 | 6.87 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 11 | 6.87 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 11 | 6.87 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 6 | 6.87 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 20 | 6.87 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 20 | 6.87 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 20 | 6.87 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 17 | 6.87 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 3 | 6.87 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 9 | 6.87 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 3 | 6.87 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 10 | 6.87 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 10 | 6.87 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 10 | 6.87 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 10 | 6.87 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 4 | 6.87 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 18 | 6.87 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 18 | 6.87 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 18 | 6.87 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 18 | 6.87 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 10 | 6.87 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 10 | 6.87 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 4 | 6.87 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 4 | 6.87 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 9 | 6.87 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 9 | 6.87 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 9 | 6.87 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 11 | 6.87 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 2 | 6.87 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 2 | 6.87 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 16 | 6.87 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 16 | 6.87 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 3 | 6.87 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 6 | 6.87 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 17 | 6.87 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 4 | 6.87 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 5 | 6.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 12 | 6.87 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 12 | 6.87 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 16 | 6.87 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 7 | 6.87 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 7 | 6.87 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 7 | 6.87 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 11 | 6.87 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 11 | 6.87 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 11 | 6.87 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 6 | 6.87 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 6.87 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 6.87 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 6.87 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 20 | 6.87 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 20 | 6.87 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 20 | 6.87 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 17 | 6.87 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 3 | 6.87 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 4 | 6.87 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 4 | 6.87 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 4 | 6.87 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 7 | 6.87 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 9 | 6.87 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 2 | 6.86 |
| (4,85) | 1:15:A:MET:CB | 1:144:A:GLY:H | 20 | 6.86 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 6 | 6.86 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 10 | 6.86 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 7 | 6.86 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 7 | 6.86 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 7 | 6.86 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 7 | 6.86 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 7 | 6.86 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 7 | 6.86 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 13 | 6.86 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 13 | 6.86 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 11 | 6.86 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 11 | 6.86 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 15 | 6.86 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 15 | 6.86 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 10 | 6.86 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 10 | 6.86 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 7 | 6.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 7 | 6.86 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 18 | 6.86 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 18 | 6.86 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 8 | 6.86 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 8 | 6.86 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 12 | 6.86 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 12 | 6.86 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 12 | 6.86 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 12 | 6.86 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 1 | 6.86 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 16 | 6.86 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 16 | 6.86 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 16 | 6.86 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 9 | 6.86 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 15 | 6.86 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 15 | 6.86 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 15 | 6.86 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 20 | 6.86 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 13 | 6.86 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 15 | 6.86 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 15 | 6.86 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 15 | 6.86 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 5 | 6.86 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 5 | 6.86 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 5 | 6.86 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 8 | 6.86 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 4 | 6.86 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 4 | 6.86 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 4 | 6.86 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 18 | 6.86 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 9 | 6.86 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 9 | 6.86 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 9 | 6.86 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 7 | 6.86 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 7 | 6.86 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 7 | 6.86 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 10 | 6.86 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 1 | 6.86 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 1 | 6.86 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 1 | 6.86 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 6 | 6.86 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 20 | 6.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 14 | 6.86 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 13 | 6.86 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 13 | 6.86 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 13 | 6.86 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 17 | 6.86 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 17 | 6.86 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 16 | 6.86 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 16 | 6.86 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 16 | 6.86 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 16 | 6.86 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 16 | 6.86 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 16 | 6.86 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 5 | 6.86 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 3 | 6.86 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 3 | 6.86 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 9 | 6.86 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 17 | 6.86 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 16 | 6.86 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 16 | 6.86 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 16 | 6.86 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 7 | 6.86 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 7 | 6.86 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 7 | 6.86 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 7 | 6.86 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 7 | 6.86 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 7 | 6.86 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 7 | 6.86 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 7 | 6.86 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 15 | 6.86 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 15 | 6.86 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 10 | 6.86 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 10 | 6.86 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 7 | 6.86 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 7 | 6.86 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 6 | 6.86 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 8 | 6.86 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 8 | 6.86 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 6 | 6.86 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 12 | 6.86 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 12 | 6.86 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 5 | 6.86 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 2 | 6.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 3 | 6.86 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 3 | 6.86 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 9 | 6.86 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 4 | 6.86 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 2 | 6.86 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 2 | 6.86 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 2 | 6.86 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 13 | 6.86 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 13 | 6.86 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 13 | 6.86 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 10 | 6.86 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 10 | 6.86 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 17 | 6.86 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 18 | 6.86 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 11 | 6.86 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 19 | 6.86 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 17 | 6.85 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 17 | 6.85 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 12 | 6.85 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 15 | 6.85 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 15 | 6.85 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 13 | 6.85 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 13 | 6.85 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 13 | 6.85 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 13 | 6.85 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 13 | 6.85 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 13 | 6.85 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 9 | 6.85 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 9 | 6.85 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 14 | 6.85 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 14 | 6.85 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 6.85 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 6.85 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 6.85 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 6.85 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 6.85 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 6.85 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 9 | 6.85 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 9 | 6.85 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 6 | 6.85 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 6 | 6.85 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 16 | 6.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 16 | 6.85 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 4 | 6.85 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 4 | 6.85 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 6 | 6.85 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 6 | 6.85 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 6 | 6.85 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 6 | 6.85 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 2 | 6.85 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 2 | 6.85 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 7 | 6.85 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 7 | 6.85 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 7 | 6.85 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 4 | 6.85 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 13 | 6.85 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 13 | 6.85 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 13 | 6.85 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 13 | 6.85 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 13 | 6.85 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 13 | 6.85 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 17 | 6.85 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 17 | 6.85 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 17 | 6.85 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 8 | 6.85 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 13 | 6.85 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 4 | 6.85 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 4 | 6.85 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 4 | 6.85 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 20 | 6.85 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 5 | 6.85 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 5 | 6.85 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 5 | 6.85 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 8 | 6.85 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 20 | 6.85 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 20 | 6.85 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 20 | 6.85 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 18 | 6.85 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 10 | 6.85 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 10 | 6.85 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 10 | 6.85 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 2 | 6.85 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 9 | 6.85 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 4 | 6.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 4 | 6.85 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 4 | 6.85 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 20 | 6.85 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 5 | 6.85 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 5 | 6.85 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 5 | 6.85 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 5 | 6.85 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 5 | 6.85 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 11 | 6.85 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 11 | 6.85 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 11 | 6.85 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 17 | 6.85 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 17 | 6.85 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 17 | 6.85 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 12 | 6.85 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 12 | 6.85 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 12 | 6.85 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 18 | 6.85 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 18 | 6.85 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 18 | 6.85 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 4 | 6.85 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 4 | 6.85 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 4 | 6.85 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 4 | 6.85 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 4 | 6.85 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 4 | 6.85 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 7 | 6.85 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 17 | 6.85 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 17 | 6.85 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 7 | 6.85 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 7 | 6.85 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 7 | 6.85 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 7 | 6.85 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 7 | 6.85 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 7 | 6.85 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 20 | 6.85 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 4 | 6.85 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 4 | 6.85 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 4 | 6.85 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 4 | 6.85 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 4 | 6.85 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 4 | 6.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 18 | 6.85 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 18 | 6.85 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 18 | 6.85 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 3 | 6.85 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 18 | 6.85 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 13 | 6.85 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 13 | 6.85 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 13 | 6.85 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 13 | 6.85 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 13 | 6.85 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 13 | 6.85 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 6.85 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 6.85 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 6.85 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 6.85 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 6.85 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 6.85 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 14 | 6.85 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 14 | 6.85 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 19 | 6.85 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 5 | 6.85 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 5 | 6.85 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 5 | 6.85 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 5 | 6.85 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 12 | 6.85 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 12 | 6.85 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 12 | 6.85 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 12 | 6.85 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 12 | 6.85 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 12 | 6.85 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 10 | 6.85 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 10 | 6.85 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 8 | 6.85 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 17 | 6.85 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 17 | 6.85 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 7 | 6.85 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 7 | 6.85 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 7 | 6.85 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 7 | 6.85 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 7 | 6.85 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 7 | 6.85 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 20 | 6.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 4 | 6.85 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 4 | 6.85 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 4 | 6.85 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 4 | 6.85 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 4 | 6.85 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 4 | 6.85 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 5 | 6.84 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 17 | 6.84 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 3 | 6.84 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 19 | 6.84 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 19 | 6.84 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 19 | 6.84 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 19 | 6.84 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 5 | 6.84 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 5 | 6.84 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 5 | 6.84 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 5 | 6.84 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 6.84 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 6.84 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 1 | 6.84 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 1 | 6.84 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 9 | 6.84 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 9 | 6.84 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 9 | 6.84 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 9 | 6.84 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 9 | 6.84 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 9 | 6.84 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 8 | 6.84 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 8 | 6.84 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 20 | 6.84 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 20 | 6.84 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 20 | 6.84 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 20 | 6.84 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 20 | 6.84 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 20 | 6.84 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 7 | 6.84 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 7 | 6.84 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 7 | 6.84 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 7 | 6.84 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 7 | 6.84 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 7 | 6.84 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 20 | 6.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 2 | 6.84 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 2 | 6.84 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 2 | 6.84 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 2 | 6.84 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 2 | 6.84 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 2 | 6.84 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 2 | 6.84 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 2 | 6.84 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 2 | 6.84 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 4 | 6.84 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 4 | 6.84 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 4 | 6.84 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 3 | 6.84 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 3 | 6.84 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 3 | 6.84 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 15 | 6.84 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 9 | 6.84 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 9 | 6.84 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 12 | 6.84 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 1 | 6.84 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 2 | 6.84 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 15 | 6.84 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 15 | 6.84 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 15 | 6.84 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 15 | 6.84 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 15 | 6.84 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 15 | 6.84 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 15 | 6.84 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 13 | 6.84 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 13 | 6.84 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 13 | 6.84 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 6 | 6.84 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 6 | 6.84 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 6 | 6.84 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 19 | 6.84 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 19 | 6.84 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 19 | 6.84 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 7 | 6.84 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 7 | 6.84 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 7 | 6.84 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 15 | 6.84 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 15 | 6.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 6 | 6.84 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 6 | 6.84 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 13 | 6.84 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 8 | 6.84 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 18 | 6.84 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 18 | 6.84 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 20 | 6.84 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 20 | 6.84 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 16 | 6.84 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 10 | 6.84 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 10 | 6.84 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 10 | 6.84 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 10 | 6.84 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 10 | 6.84 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 10 | 6.84 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 10 | 6.84 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 10 | 6.84 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 10 | 6.84 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 6 | 6.84 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 6 | 6.84 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 6.84 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 6.84 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 6.84 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 6.84 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 6.84 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 6.84 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 9 | 6.84 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 3 | 6.84 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 6.84 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 6.84 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 1 | 6.84 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 1 | 6.84 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 18 | 6.84 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 18 | 6.84 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 12 | 6.84 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 7 | 6.84 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 11 | 6.84 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 7 | 6.84 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 8 | 6.84 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 8 | 6.84 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 8 | 6.84 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 15 | 6.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 15 | 6.84 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 14 | 6.84 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 6 | 6.84 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 6 | 6.84 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 13 | 6.84 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 8 | 6.84 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 18 | 6.84 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 18 | 6.84 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 9 | 6.84 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 20 | 6.84 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 20 | 6.84 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 5 | 6.84 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 5 | 6.84 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 5 | 6.84 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 16 | 6.84 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 18 | 6.83 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 18 | 6.83 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 6.83 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 6.83 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 2 | 6.83 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 2 | 6.83 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 2 | 6.83 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 2 | 6.83 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 18 | 6.83 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 18 | 6.83 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 13 | 6.83 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 13 | 6.83 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 13 | 6.83 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 13 | 6.83 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 13 | 6.83 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 13 | 6.83 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 13 | 6.83 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 13 | 6.83 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 13 | 6.83 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 13 | 6.83 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 13 | 6.83 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 13 | 6.83 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 13 | 6.83 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 13 | 6.83 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 10 | 6.83 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 10 | 6.83 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 10 | 6.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 10 | 6.83 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 10 | 6.83 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 10 | 6.83 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 3 | 6.83 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 3 | 6.83 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 7 | 6.83 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 7 | 6.83 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 20 | 6.83 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 20 | 6.83 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 20 | 6.83 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 20 | 6.83 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 5 | 6.83 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 10 | 6.83 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 10 | 6.83 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 10 | 6.83 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 12 | 6.83 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 12 | 6.83 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 12 | 6.83 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 12 | 6.83 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 12 | 6.83 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 12 | 6.83 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 12 | 6.83 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 12 | 6.83 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 12 | 6.83 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 8 | 6.83 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 8 | 6.83 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 8 | 6.83 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 20 | 6.83 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 4 | 6.83 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 4 | 6.83 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 4 | 6.83 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 4 | 6.83 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 6 | 6.83 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 6 | 6.83 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 6 | 6.83 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 13 | 6.83 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 13 | 6.83 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 13 | 6.83 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 19 | 6.83 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 1 | 6.83 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 4 | 6.83 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 4 | 6.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 4 | 6.83 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 13 | 6.83 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 13 | 6.83 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 13 | 6.83 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 16 | 6.83 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 16 | 6.83 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 16 | 6.83 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 2 | 6.83 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 2 | 6.83 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 2 | 6.83 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 12 | 6.83 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 12 | 6.83 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 12 | 6.83 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 5 | 6.83 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 5 | 6.83 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 5 | 6.83 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 18 | 6.83 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 18 | 6.83 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 18 | 6.83 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 5 | 6.83 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 5 | 6.83 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 5 | 6.83 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 5 | 6.83 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 5 | 6.83 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 5 | 6.83 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 19 | 6.83 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 8 | 6.83 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 20 | 6.83 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 10 | 6.83 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 10 | 6.83 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 10 | 6.83 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 4 | 6.83 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 20 | 6.83 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 20 | 6.83 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 20 | 6.83 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 20 | 6.83 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 20 | 6.83 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 20 | 6.83 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 6 | 6.83 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 14 | 6.83 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 20 | 6.83 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 15 | 6.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 9 | 6.83 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 6.83 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 6.83 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 13 | 6.83 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 3 | 6.83 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 3 | 6.83 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 19 | 6.83 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 19 | 6.83 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 13 | 6.83 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 13 | 6.83 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 13 | 6.83 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 13 | 6.83 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 13 | 6.83 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 13 | 6.83 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 1 | 6.83 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 10 | 6.83 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 10 | 6.83 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 10 | 6.83 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 10 | 6.83 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 10 | 6.83 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 10 | 6.83 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 3 | 6.83 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 3 | 6.83 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 7 | 6.83 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 7 | 6.83 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 10 | 6.83 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 10 | 6.83 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 10 | 6.83 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 4 | 6.83 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 20 | 6.83 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 20 | 6.83 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 20 | 6.83 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 20 | 6.83 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 20 | 6.83 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 20 | 6.83 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 6 | 6.83 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 14 | 6.83 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 20 | 6.83 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 20 | 6.83 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 20 | 6.83 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 20 | 6.83 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 11 | 6.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 11 | 6.83 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 11 | 6.83 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 15 | 6.83 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 17 | 6.83 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 17 | 6.83 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 9 | 6.83 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 13 | 6.82 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 8 | 6.82 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 8 | 6.82 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 6 | 6.82 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 9 | 6.82 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 17 | 6.82 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 7 | 6.82 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 7 | 6.82 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 11 | 6.82 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 11 | 6.82 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 8 | 6.82 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 8 | 6.82 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 6.82 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 6.82 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 16 | 6.82 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 16 | 6.82 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 16 | 6.82 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 16 | 6.82 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 3 | 6.82 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 3 | 6.82 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 13 | 6.82 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 13 | 6.82 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 13 | 6.82 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 13 | 6.82 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 13 | 6.82 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 13 | 6.82 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 7 | 6.82 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 7 | 6.82 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 11 | 6.82 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 11 | 6.82 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 13 | 6.82 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 13 | 6.82 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 19 | 6.82 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 19 | 6.82 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 19 | 6.82 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 19 | 6.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 19 | 6.82 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 19 | 6.82 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 6 | 6.82 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 6 | 6.82 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 6 | 6.82 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 6 | 6.82 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 13 | 6.82 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 13 | 6.82 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 13 | 6.82 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 12 | 6.82 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 12 | 6.82 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 6 | 6.82 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 4 | 6.82 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 2 | 6.82 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 2 | 6.82 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 2 | 6.82 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 15 | 6.82 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 15 | 6.82 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 15 | 6.82 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 17 | 6.82 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 17 | 6.82 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 17 | 6.82 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 7 | 6.82 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 13 | 6.82 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 13 | 6.82 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 13 | 6.82 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 17 | 6.82 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 17 | 6.82 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 17 | 6.82 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 6 | 6.82 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 3 | 6.82 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 7 | 6.82 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 7 | 6.82 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 7 | 6.82 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 15 | 6.82 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 8 | 6.82 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 17 | 6.82 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 17 | 6.82 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 17 | 6.82 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 1 | 6.82 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 17 | 6.82 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 17 | 6.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 17 | 6.82 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 8 | 6.82 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 8 | 6.82 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 10 | 6.82 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 15 | 6.82 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 4 | 6.82 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 4 | 6.82 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 4 | 6.82 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 3 | 6.82 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 3 | 6.82 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 3 | 6.82 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 12 | 6.82 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 12 | 6.82 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 4 | 6.82 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 13 | 6.82 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 5 | 6.82 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 5 | 6.82 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 5 | 6.82 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 5 | 6.82 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 5 | 6.82 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 5 | 6.82 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 17 | 6.82 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 15 | 6.82 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 6 | 6.82 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 6 | 6.82 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 6 | 6.82 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 7 | 6.82 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 7 | 6.82 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 11 | 6.82 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 11 | 6.82 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 6.82 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 6.82 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 16 | 6.82 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 13 | 6.82 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 13 | 6.82 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 13 | 6.82 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 13 | 6.82 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 13 | 6.82 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 13 | 6.82 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 9 | 6.82 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 13 | 6.82 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 11 | 6.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 11 | 6.82 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 11 | 6.82 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 13 | 6.82 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 13 | 6.82 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 13 | 6.82 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 5 | 6.82 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 19 | 6.82 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 19 | 6.82 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 19 | 6.82 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 19 | 6.82 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 19 | 6.82 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 19 | 6.82 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 17 | 6.82 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 17 | 6.82 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 17 | 6.82 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 1 | 6.82 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 8 | 6.82 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 8 | 6.82 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 7 | 6.82 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 10 | 6.82 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 15 | 6.82 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 4 | 6.82 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 4 | 6.82 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 4 | 6.82 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 7 | 6.82 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 7 | 6.82 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 7 | 6.82 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 3 | 6.82 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 3 | 6.82 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 3 | 6.82 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 12 | 6.82 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 12 | 6.82 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 11 | 6.82 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 4 | 6.82 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 13 | 6.82 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 19 | 6.82 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 13 | 6.82 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 13 | 6.82 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 13 | 6.82 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 15 | 6.82 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 5 | 6.82 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 5 | 6.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 5 | 6.82 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 5 | 6.82 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 5 | 6.82 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 5 | 6.82 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 2 | 6.81 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 2 | 6.81 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 13 | 6.81 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 13 | 6.81 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 13 | 6.81 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 13 | 6.81 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 13 | 6.81 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 13 | 6.81 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 6 | 6.81 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 6 | 6.81 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 18 | 6.81 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 18 | 6.81 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 18 | 6.81 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 18 | 6.81 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 18 | 6.81 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 18 | 6.81 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 5 | 6.81 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 5 | 6.81 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 6.81 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 6.81 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 10 | 6.81 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 10 | 6.81 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 10 | 6.81 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 10 | 6.81 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 7 | 6.81 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 7 | 6.81 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 3 | 6.81 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 3 | 6.81 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 13 | 6.81 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 13 | 6.81 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 3 | 6.81 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 3 | 6.81 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 19 | 6.81 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 19 | 6.81 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 19 | 6.81 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 19 | 6.81 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 9 | 6.81 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 9 | 6.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 9 | 6.81 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 9 | 6.81 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 15 | 6.81 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 15 | 6.81 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 14 | 6.81 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 14 | 6.81 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 14 | 6.81 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 14 | 6.81 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 3 | 6.81 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 3 | 6.81 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 3 | 6.81 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 3 | 6.81 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 3 | 6.81 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 3 | 6.81 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 1 | 6.81 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 1 | 6.81 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 1 | 6.81 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 1 | 6.81 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 19 | 6.81 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 19 | 6.81 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 9 | 6.81 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 9 | 6.81 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 9 | 6.81 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 9 | 6.81 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 16 | 6.81 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 16 | 6.81 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 14 | 6.81 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 10 | 6.81 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 10 | 6.81 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 10 | 6.81 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 18 | 6.81 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 5 | 6.81 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 5 | 6.81 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 5 | 6.81 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 6 | 6.81 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 6 | 6.81 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 6 | 6.81 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 9 | 6.81 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 9 | 6.81 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 9 | 6.81 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 10 | 6.81 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 10 | 6.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 10 | 6.81 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 8 | 6.81 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 8 | 6.81 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 8 | 6.81 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 15 | 6.81 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 18 | 6.81 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 20 | 6.81 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 20 | 6.81 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 3 | 6.81 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 3 | 6.81 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 3 | 6.81 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 14 | 6.81 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 14 | 6.81 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 6 | 6.81 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 12 | 6.81 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 5 | 6.81 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 5 | 6.81 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 19 | 6.81 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 19 | 6.81 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 12 | 6.81 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 12 | 6.81 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 17 | 6.81 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 17 | 6.81 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 17 | 6.81 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 13 | 6.81 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 15 | 6.81 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 15 | 6.81 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 9 | 6.81 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 9 | 6.81 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 9 | 6.81 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 11 | 6.81 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 20 | 6.81 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 9 | 6.81 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 9 | 6.81 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 9 | 6.81 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 18 | 6.81 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 18 | 6.81 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 18 | 6.81 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 18 | 6.81 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 18 | 6.81 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 18 | 6.81 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 1 | 6.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 15 | 6.81 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 15 | 6.81 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 15 | 6.81 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 10 | 6.81 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 6.81 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 6.81 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 12 | 6.81 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 1 | 6.81 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 13 | 6.81 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 13 | 6.81 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 8 | 6.81 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 13 | 6.81 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 13 | 6.81 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 13 | 6.81 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 13 | 6.81 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 13 | 6.81 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 5 | 6.81 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 5 | 6.81 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 19 | 6.81 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 19 | 6.81 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 4 | 6.81 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 3 | 6.81 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 12 | 6.81 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 12 | 6.81 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 10 | 6.81 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 10 | 6.81 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 10 | 6.81 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 17 | 6.81 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 17 | 6.81 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 17 | 6.81 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 13 | 6.81 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 15 | 6.81 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 15 | 6.81 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 15 | 6.81 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 8 | 6.81 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 8 | 6.81 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 8 | 6.81 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 14 | 6.81 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 9 | 6.81 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 9 | 6.81 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 9 | 6.81 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 8 | 6.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 8 | 6.81 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 8 | 6.81 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 11 | 6.8 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 17 | 6.8 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 13 | 6.8 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 13 | 6.8 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 13 | 6.8 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 13 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 15 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 15 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 15 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 15 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 15 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 15 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 6.8 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 6.8 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 6.8 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 6.8 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 6.8 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 6.8 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 6.8 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 6.8 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 6.8 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 6.8 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 6.8 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 6.8 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 13 | 6.8 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 13 | 6.8 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 13 | 6.8 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 13 | 6.8 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 13 | 6.8 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 13 | 6.8 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 17 | 6.8 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 17 | 6.8 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 17 | 6.8 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 17 | 6.8 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 17 | 6.8 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 17 | 6.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 1 | 6.8 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 1 | 6.8 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 11 | 6.8 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 11 | 6.8 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 16 | 6.8 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 16 | 6.8 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 8 | 6.8 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 8 | 6.8 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 6 | 6.8 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 6 | 6.8 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 8 | 6.8 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 8 | 6.8 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 13 | 6.8 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 13 | 6.8 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 12 | 6.8 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 12 | 6.8 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 12 | 6.8 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 8 | 6.8 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 8 | 6.8 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 8 | 6.8 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 8 | 6.8 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 8 | 6.8 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 8 | 6.8 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 8 | 6.8 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 8 | 6.8 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 8 | 6.8 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 20 | 6.8 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 20 | 6.8 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 20 | 6.8 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 17 | 6.8 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 17 | 6.8 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 17 | 6.8 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 18 | 6.8 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 17 | 6.8 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 9 | 6.8 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 9 | 6.8 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 19 | 6.8 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 19 | 6.8 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 19 | 6.8 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 11 | 6.8 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 11 | 6.8 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 11 | 6.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 16 | 6.8 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 16 | 6.8 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 16 | 6.8 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 13 | 6.8 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 13 | 6.8 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 13 | 6.8 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 7 | 6.8 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 11 | 6.8 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 20 | 6.8 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 9 | 6.8 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 9 | 6.8 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 6 | 6.8 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 16 | 6.8 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 9 | 6.8 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 9 | 6.8 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 9 | 6.8 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 10 | 6.8 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 10 | 6.8 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 10 | 6.8 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 7 | 6.8 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 7 | 6.8 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 2 | 6.8 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 17 | 6.8 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 5 | 6.8 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 5 | 6.8 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 5 | 6.8 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 5 | 6.8 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 5 | 6.8 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 5 | 6.8 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 5 | 6.8 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 5 | 6.8 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 5 | 6.8 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 20 | 6.8 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 20 | 6.8 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 20 | 6.8 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 20 | 6.8 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 20 | 6.8 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 20 | 6.8 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 20 | 6.8 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 5 | 6.8 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 5 | 6.8 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 5 | 6.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 8 | 6.8 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 8 | 6.8 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 8 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 15 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 15 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 15 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 15 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 15 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 15 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 6.8 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 6.8 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 1 | 6.8 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 6.8 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 6.8 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 6.8 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 6.8 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 6.8 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 6.8 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 6.8 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 6.8 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 6.8 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 6.8 |
| (1,4130) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 12 | 6.8 |
| (1,4130) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 12 | 6.8 |
| (1,4130) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 12 | 6.8 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 17 | 6.8 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 17 | 6.8 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 17 | 6.8 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 17 | 6.8 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 17 | 6.8 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 17 | 6.8 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 17 | 6.8 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 2 | 6.8 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 16 | 6.8 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 16 | 6.8 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 6 | 6.8 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 6 | 6.8 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 10 | 6.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 11 | 6.8 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 6.8 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 20 | 6.8 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 7 | 6.8 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 7 | 6.8 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 2 | 6.8 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 6.8 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 17 | 6.8 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 1 | 6.8 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 1 | 6.8 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 1 | 6.8 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 5 | 6.8 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 5 | 6.8 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 5 | 6.8 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 5 | 6.8 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 5 | 6.8 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 5 | 6.8 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 5 | 6.8 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 5 | 6.8 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 5 | 6.8 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 9 | 6.8 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 9 | 6.8 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 9 | 6.8 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 20 | 6.8 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 20 | 6.8 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 20 | 6.8 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 20 | 6.8 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 20 | 6.8 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 20 | 6.8 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 20 | 6.8 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 18 | 6.8 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 4 | 6.79 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 4 | 6.79 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 11 | 6.79 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 11 | 6.79 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 13 | 6.79 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 13 | 6.79 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 15 | 6.79 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 15 | 6.79 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 15 | 6.79 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 15 | 6.79 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 18 | 6.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 18 | 6.79 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 19 | 6.79 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 19 | 6.79 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 1 | 6.79 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 1 | 6.79 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 1 | 6.79 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 1 | 6.79 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 1 | 6.79 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 1 | 6.79 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 3 | 6.79 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 3 | 6.79 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 18 | 6.79 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 18 | 6.79 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 5 | 6.79 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 5 | 6.79 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 17 | 6.79 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 17 | 6.79 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 17 | 6.79 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 17 | 6.79 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 3 | 6.79 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 3 | 6.79 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 3 | 6.79 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 3 | 6.79 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 3 | 6.79 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 3 | 6.79 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 3 | 6.79 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 3 | 6.79 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 3 | 6.79 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 18 | 6.79 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 15 | 6.79 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 6 | 6.79 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 11 | 6.79 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 7 | 6.79 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 7 | 6.79 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 7 | 6.79 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 11 | 6.79 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 19 | 6.79 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 19 | 6.79 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 19 | 6.79 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 18 | 6.79 |
| (1,7252) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 9 | 6.79 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 20 | 6.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 20 | 6.79 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 20 | 6.79 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 20 | 6.79 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 20 | 6.79 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 20 | 6.79 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 15 | 6.79 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 15 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 15 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 15 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 15 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 15 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 15 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 15 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 19 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 19 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 19 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 19 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 19 | 6.79 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 19 | 6.79 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 18 | 6.79 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 13 | 6.79 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 8 | 6.79 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 17 | 6.79 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 5 | 6.79 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 6 | 6.79 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 15 | 6.79 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 15 | 6.79 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 15 | 6.79 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 6 | 6.79 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 6 | 6.79 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 6 | 6.79 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 10 | 6.79 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 4 | 6.79 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 3 | 6.79 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 3 | 6.79 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 3 | 6.79 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 7 | 6.79 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 19 | 6.79 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 19 | 6.79 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 3 | 6.79 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 13 | 6.79 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 3 | 6.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 3 | 6.79 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 3 | 6.79 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 3 | 6.79 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 3 | 6.79 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 3 | 6.79 |
| (1,3462) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 9 | 6.79 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 15 | 6.79 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 15 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 15 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 15 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 15 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 15 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 15 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 15 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 19 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 19 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 19 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 19 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 19 | 6.79 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 19 | 6.79 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 3 | 6.79 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 3 | 6.79 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 18 | 6.79 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 6.79 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 6.79 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 6.79 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 13 | 6.79 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 8 | 6.79 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 17 | 6.79 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 5 | 6.79 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 13 | 6.79 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 7 | 6.79 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 7 | 6.79 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 16 | 6.79 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 12 | 6.79 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 4 | 6.79 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 4 | 6.79 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 4 | 6.79 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 1 | 6.78 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 11 | 6.78 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 11 | 6.78 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 11 | 6.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 11 | 6.78 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 11 | 6.78 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 11 | 6.78 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 16 | 6.78 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 16 | 6.78 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 5 | 6.78 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 5 | 6.78 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 16 | 6.78 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 16 | 6.78 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 1 | 6.78 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 1 | 6.78 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 10 | 6.78 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 10 | 6.78 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 12 | 6.78 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 12 | 6.78 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 12 | 6.78 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 12 | 6.78 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 12 | 6.78 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 12 | 6.78 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 12 | 6.78 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 12 | 6.78 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 14 | 6.78 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 14 | 6.78 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 16 | 6.78 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 16 | 6.78 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 16 | 6.78 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 16 | 6.78 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 16 | 6.78 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 16 | 6.78 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 19 | 6.78 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 19 | 6.78 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 19 | 6.78 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 2 | 6.78 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 2 | 6.78 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 16 | 6.78 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 14 | 6.78 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 14 | 6.78 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 14 | 6.78 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 10 | 6.78 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 10 | 6.78 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 19 | 6.78 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 2 | 6.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 20 | 6.78 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 20 | 6.78 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 20 | 6.78 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 6 | 6.78 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 6 | 6.78 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 6 | 6.78 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 3 | 6.78 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 3 | 6.78 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 3 | 6.78 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 19 | 6.78 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 19 | 6.78 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 19 | 6.78 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 2 | 6.78 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 2 | 6.78 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 2 | 6.78 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 12 | 6.78 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 3 | 6.78 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 3 | 6.78 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 2 | 6.78 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 13 | 6.78 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 13 | 6.78 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 13 | 6.78 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 7 | 6.78 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 7 | 6.78 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 7 | 6.78 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 15 | 6.78 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 5 | 6.78 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 5 | 6.78 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 5 | 6.78 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 3 | 6.78 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 12 | 6.78 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 12 | 6.78 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 9 | 6.78 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 9 | 6.78 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 9 | 6.78 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 6 | 6.78 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 6 | 6.78 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 6 | 6.78 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 6 | 6.78 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 6 | 6.78 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 6 | 6.78 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 8 | 6.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 16 | 6.78 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 16 | 6.78 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 16 | 6.78 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 9 | 6.78 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 9 | 6.78 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 9 | 6.78 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 5 | 6.78 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 5 | 6.78 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 5 | 6.78 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 1 | 6.78 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 1 | 6.78 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 1 | 6.78 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 5 | 6.78 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 15 | 6.78 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 19 | 6.78 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 19 | 6.78 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 19 | 6.78 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 12 | 6.78 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 12 | 6.78 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 18 | 6.78 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 16 | 6.78 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 16 | 6.78 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 7 | 6.78 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 3 | 6.78 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 7 | 6.78 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 16 | 6.78 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 16 | 6.78 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 16 | 6.78 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 16 | 6.78 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 16 | 6.78 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 16 | 6.78 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 12 | 6.78 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 12 | 6.78 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 17 | 6.78 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 9 | 6.78 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 9 | 6.78 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 9 | 6.78 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 6 | 6.78 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 6 | 6.78 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 6 | 6.78 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 6 | 6.78 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 6 | 6.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 6 | 6.78 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 10 | 6.78 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 10 | 6.78 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 10 | 6.78 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 8 | 6.78 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 15 | 6.77 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 19 | 6.77 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 19 | 6.77 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 4 | 6.77 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 4 | 6.77 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 4 | 6.77 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 4 | 6.77 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 4 | 6.77 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 4 | 6.77 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 6 | 6.77 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 6 | 6.77 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 11 | 6.77 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 11 | 6.77 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 5 | 6.77 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 5 | 6.77 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 14 | 6.77 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 14 | 6.77 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 8 | 6.77 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 8 | 6.77 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 2 | 6.77 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 2 | 6.77 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 20 | 6.77 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 20 | 6.77 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 20 | 6.77 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 20 | 6.77 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 20 | 6.77 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 20 | 6.77 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 20 | 6.77 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 20 | 6.77 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 20 | 6.77 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 11 | 6.77 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 10 | 6.77 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 10 | 6.77 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 10 | 6.77 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 4 | 6.77 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 4 | 6.77 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 4 | 6.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 7 | 6.77 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 11 | 6.77 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 11 | 6.77 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 11 | 6.77 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 16 | 6.77 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 16 | 6.77 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 13 | 6.77 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 13 | 6.77 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 13 | 6.77 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 17 | 6.77 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 17 | 6.77 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 17 | 6.77 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 3 | 6.77 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 3 | 6.77 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 3 | 6.77 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 13 | 6.77 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 13 | 6.77 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 13 | 6.77 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 20 | 6.77 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 12 | 6.77 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 10 | 6.77 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 13 | 6.77 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 12 | 6.77 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 12 | 6.77 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 12 | 6.77 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 18 | 6.77 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 20 | 6.77 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 20 | 6.77 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 20 | 6.77 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 16 | 6.77 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 12 | 6.77 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 13 | 6.77 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 13 | 6.77 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 13 | 6.77 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 3 | 6.77 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 6.77 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 4 | 6.77 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 4 | 6.77 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 4 | 6.77 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 4 | 6.77 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 4 | 6.77 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 4 | 6.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 1 | 6.77 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 19 | 6.77 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 6 | 6.77 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 6 | 6.77 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 9 | 6.77 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 3 | 6.77 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 2 | 6.77 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 14 | 6.77 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 13 | 6.77 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 13 | 6.77 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 2 | 6.77 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 2 | 6.77 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 16 | 6.77 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 12 | 6.77 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 12 | 6.77 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 12 | 6.77 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 2 | 6.77 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 3 | 6.77 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 18 | 6.77 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 2 | 6.77 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 10 | 6.77 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 10 | 6.77 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 20 | 6.77 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 20 | 6.77 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 20 | 6.77 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 15 | 6.77 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 15 | 6.77 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 15 | 6.77 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 15 | 6.77 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 15 | 6.77 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 16 | 6.77 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 6.77 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 6.77 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 6.77 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 12 | 6.77 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 16 | 6.76 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 16 | 6.76 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 14 | 6.76 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 9 | 6.76 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 2 | 6.76 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 10 | 6.76 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 10 | 6.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 10 | 6.76 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 10 | 6.76 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 10 | 6.76 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 10 | 6.76 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 12 | 6.76 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 12 | 6.76 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 11 | 6.76 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 11 | 6.76 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 2 | 6.76 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 2 | 6.76 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 2 | 6.76 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 2 | 6.76 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 11 | 6.76 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 11 | 6.76 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 14 | 6.76 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 14 | 6.76 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 17 | 6.76 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 17 | 6.76 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 17 | 6.76 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 17 | 6.76 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 17 | 6.76 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 17 | 6.76 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 19 | 6.76 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 19 | 6.76 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 6 | 6.76 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 6 | 6.76 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 6 | 6.76 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 6 | 6.76 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 6 | 6.76 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 6 | 6.76 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 19 | 6.76 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 19 | 6.76 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 19 | 6.76 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 5 | 6.76 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 5 | 6.76 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 5 | 6.76 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 4 | 6.76 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 4 | 6.76 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 4 | 6.76 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 19 | 6.76 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 19 | 6.76 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 18 | 6.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 18 | 6.76 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 15 | 6.76 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 15 | 6.76 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 15 | 6.76 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 5 | 6.76 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 10 | 6.76 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 10 | 6.76 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 10 | 6.76 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 15 | 6.76 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 15 | 6.76 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 15 | 6.76 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 14 | 6.76 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 14 | 6.76 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 14 | 6.76 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 9 | 6.76 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 18 | 6.76 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 13 | 6.76 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 4 | 6.76 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 4 | 6.76 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 4 | 6.76 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 9 | 6.76 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 9 | 6.76 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 9 | 6.76 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 18 | 6.76 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 18 | 6.76 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 9 | 6.76 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 9 | 6.76 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 9 | 6.76 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 4 | 6.76 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 4 | 6.76 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 4 | 6.76 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 4 | 6.76 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 4 | 6.76 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 3 | 6.76 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 3 | 6.76 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 3 | 6.76 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 3 | 6.76 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 3 | 6.76 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 3 | 6.76 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 3 | 6.76 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 3 | 6.76 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 3 | 6.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 19 | 6.76 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 16 | 6.76 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 16 | 6.76 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 16 | 6.76 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 4 | 6.76 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 4 | 6.76 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 4 | 6.76 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 9 | 6.76 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 9 | 6.76 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 9 | 6.76 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 3 | 6.76 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 3 | 6.76 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 3 | 6.76 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 1 | 6.76 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 7 | 6.76 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 18 | 6.76 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 18 | 6.76 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 18 | 6.76 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 18 | 6.76 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 14 | 6.76 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 18 | 6.76 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 18 | 6.76 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 11 | 6.76 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 11 | 6.76 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 4 | 6.76 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 12 | 6.76 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 12 | 6.76 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 13 | 6.76 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 11 | 6.76 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 11 | 6.76 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 17 | 6.76 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 10 | 6.76 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 17 | 6.76 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 17 | 6.76 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 17 | 6.76 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 17 | 6.76 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 17 | 6.76 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 17 | 6.76 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 19 | 6.76 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 19 | 6.76 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 6 | 6.76 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 6 | 6.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 6 | 6.76 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 6 | 6.76 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 6 | 6.76 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 6 | 6.76 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 11 | 6.76 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 11 | 6.76 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 11 | 6.76 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 11 | 6.76 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 14 | 6.76 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 14 | 6.76 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 6.76 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 9 | 6.76 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 16 | 6.76 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 16 | 6.76 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 16 | 6.76 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 1 | 6.76 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 9 | 6.76 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 9 | 6.76 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 9 | 6.76 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 18 | 6.76 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 18 | 6.76 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 18 | 6.76 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 18 | 6.76 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 18 | 6.76 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 10 | 6.76 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 9 | 6.76 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 18 | 6.76 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 9 | 6.76 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 9 | 6.76 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 9 | 6.76 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 4 | 6.76 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 4 | 6.76 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 4 | 6.76 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 4 | 6.76 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 4 | 6.76 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 3 | 6.76 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 3 | 6.76 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 3 | 6.76 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 3 | 6.76 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 3 | 6.76 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 3 | 6.76 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 3 | 6.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 3 | 6.76 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 3 | 6.76 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 19 | 6.76 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 2 | 6.76 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 16 | 6.76 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 16 | 6.76 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 16 | 6.76 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 4 | 6.76 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 4 | 6.76 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 4 | 6.76 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 16 | 6.76 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 10 | 6.76 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 15 | 6.76 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 11 | 6.75 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 19 | 6.75 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 4 | 6.75 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 11 | 6.75 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 11 | 6.75 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 2 | 6.75 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 2 | 6.75 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 3 | 6.75 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 3 | 6.75 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 8 | 6.75 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 8 | 6.75 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 5 | 6.75 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 5 | 6.75 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 5 | 6.75 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 5 | 6.75 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 5 | 6.75 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 5 | 6.75 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 18 | 6.75 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 18 | 6.75 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 19 | 6.75 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 19 | 6.75 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 1 | 6.75 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 1 | 6.75 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 20 | 6.75 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 20 | 6.75 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 20 | 6.75 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 20 | 6.75 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 2 | 6.75 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 2 | 6.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 19 | 6.75 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 19 | 6.75 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 7 | 6.75 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 7 | 6.75 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 1 | 6.75 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 1 | 6.75 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 5 | 6.75 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 5 | 6.75 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 9 | 6.75 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 9 | 6.75 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 1 | 6.75 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 15 | 6.75 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 20 | 6.75 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 5 | 6.75 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 5 | 6.75 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 15 | 6.75 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 12 | 6.75 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 14 | 6.75 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 14 | 6.75 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 18 | 6.75 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 17 | 6.75 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 17 | 6.75 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 17 | 6.75 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 9 | 6.75 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 9 | 6.75 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 9 | 6.75 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 17 | 6.75 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 20 | 6.75 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 5 | 6.75 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 6 | 6.75 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 6 | 6.75 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 6 | 6.75 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 18 | 6.75 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 18 | 6.75 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 18 | 6.75 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 19 | 6.75 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 19 | 6.75 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 19 | 6.75 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 15 | 6.75 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 15 | 6.75 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 15 | 6.75 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 12 | 6.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 15 | 6.75 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 2 | 6.75 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 2 | 6.75 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 19 | 6.75 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 19 | 6.75 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 4 | 6.75 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 4 | 6.75 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 4 | 6.75 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 6 | 6.75 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 12 | 6.75 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 15 | 6.75 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 9 | 6.75 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 9 | 6.75 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 13 | 6.75 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 13 | 6.75 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 13 | 6.75 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 11 | 6.75 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 3 | 6.75 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 3 | 6.75 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 3 | 6.75 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 10 | 6.75 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 15 | 6.75 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 15 | 6.75 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 15 | 6.75 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 8 | 6.75 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 8 | 6.75 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 8 | 6.75 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 2 | 6.75 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 2 | 6.75 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 2 | 6.75 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 2 | 6.75 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 2 | 6.75 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 6 | 6.75 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 3 | 6.75 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 6 | 6.75 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 14 | 6.75 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 18 | 6.75 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 18 | 6.75 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 1 | 6.75 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 1 | 6.75 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 6 | 6.75 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 9 | 6.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 9 | 6.75 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 9 | 6.75 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 8 | 6.75 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 9 | 6.75 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 9 | 6.75 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 13 | 6.75 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 13 | 6.75 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 13 | 6.75 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 11 | 6.75 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 18 | 6.75 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 18 | 6.75 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 18 | 6.75 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 3 | 6.75 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 3 | 6.75 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 3 | 6.75 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 20 | 6.74 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 17 | 6.74 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 17 | 6.74 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 17 | 6.74 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 17 | 6.74 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 17 | 6.74 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 17 | 6.74 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 15 | 6.74 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 15 | 6.74 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 3 | 6.74 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 3 | 6.74 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 4 | 6.74 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 4 | 6.74 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 4 | 6.74 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 4 | 6.74 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 4 | 6.74 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 4 | 6.74 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 16 | 6.74 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 16 | 6.74 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 16 | 6.74 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 16 | 6.74 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 16 | 6.74 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 16 | 6.74 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 18 | 6.74 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 18 | 6.74 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 18 | 6.74 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 18 | 6.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 18 | 6.74 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 18 | 6.74 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 14 | 6.74 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 14 | 6.74 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 14 | 6.74 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 14 | 6.74 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 14 | 6.74 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 14 | 6.74 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 10 | 6.74 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 10 | 6.74 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 10 | 6.74 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 10 | 6.74 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 10 | 6.74 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 10 | 6.74 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 10 | 6.74 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 10 | 6.74 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 10 | 6.74 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 5 | 6.74 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 5 | 6.74 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 5 | 6.74 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 14 | 6.74 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 6 | 6.74 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 6 | 6.74 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 6 | 6.74 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 20 | 6.74 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 15 | 6.74 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 15 | 6.74 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 15 | 6.74 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 4 | 6.74 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 4 | 6.74 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 4 | 6.74 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 1 | 6.74 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 1 | 6.74 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 1 | 6.74 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 15 | 6.74 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 15 | 6.74 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 15 | 6.74 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 15 | 6.74 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 15 | 6.74 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 15 | 6.74 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 12 | 6.74 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 3 | 6.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 3 | 6.74 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 20 | 6.74 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 20 | 6.74 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 20 | 6.74 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 20 | 6.74 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 20 | 6.74 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 20 | 6.74 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 14 | 6.74 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 14 | 6.74 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 14 | 6.74 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 14 | 6.74 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 9 | 6.74 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 9 | 6.74 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 9 | 6.74 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 1 | 6.74 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 4 | 6.74 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 4 | 6.74 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 4 | 6.74 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 3 | 6.74 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 3 | 6.74 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 3 | 6.74 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 17 | 6.74 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 17 | 6.74 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 16 | 6.74 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 8 | 6.74 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 8 | 6.74 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 8 | 6.74 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 15 | 6.74 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 15 | 6.74 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 17 | 6.74 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 4 | 6.74 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 4 | 6.74 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 4 | 6.74 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 14 | 6.74 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 16 | 6.74 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 16 | 6.74 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 9 | 6.74 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 14 | 6.74 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 15 | 6.74 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 13 | 6.74 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 13 | 6.74 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 13 | 6.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 5 | 6.74 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 5 | 6.74 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 14 | 6.74 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 14 | 6.74 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 14 | 6.74 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 1 | 6.74 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 1 | 6.74 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 1 | 6.74 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 1 | 6.74 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 1 | 6.74 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 1 | 6.74 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 18 | 6.74 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 9 | 6.74 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 9 | 6.74 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 9 | 6.74 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 4 | 6.74 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 15 | 6.73 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 14 | 6.73 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 1 | 6.73 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 18 | 6.73 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 3 | 6.73 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 3 | 6.73 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 20 | 6.73 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 20 | 6.73 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 11 | 6.73 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 11 | 6.73 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 11 | 6.73 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 11 | 6.73 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 10 | 6.73 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 10 | 6.73 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 10 | 6.73 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 10 | 6.73 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 5 | 6.73 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 5 | 6.73 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 3 | 6.73 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 3 | 6.73 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 3 | 6.73 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 3 | 6.73 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 14 | 6.73 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 14 | 6.73 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 18 | 6.73 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 18 | 6.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 10 | 6.73 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 10 | 6.73 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 10 | 6.73 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 10 | 6.73 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 8 | 6.73 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 8 | 6.73 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 1 | 6.73 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 1 | 6.73 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 5 | 6.73 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 5 | 6.73 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 5 | 6.73 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 5 | 6.73 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 4 | 6.73 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 2 | 6.73 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 13 | 6.73 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 18 | 6.73 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 4 | 6.73 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 4 | 6.73 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 4 | 6.73 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 8 | 6.73 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 8 | 6.73 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 8 | 6.73 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 5 | 6.73 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 5 | 6.73 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 5 | 6.73 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 3 | 6.73 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 3 | 6.73 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 3 | 6.73 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 12 | 6.73 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 12 | 6.73 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 12 | 6.73 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 10 | 6.73 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 15 | 6.73 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 15 | 6.73 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 15 | 6.73 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 15 | 6.73 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 15 | 6.73 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 15 | 6.73 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 1 | 6.73 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 1 | 6.73 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 1 | 6.73 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 15 | 6.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 15 | 6.73 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 15 | 6.73 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 16 | 6.73 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 16 | 6.73 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 15 | 6.73 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 15 | 6.73 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 15 | 6.73 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 9 | 6.73 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 9 | 6.73 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 9 | 6.73 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 9 | 6.73 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 9 | 6.73 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 9 | 6.73 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 9 | 6.73 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 13 | 6.73 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 13 | 6.73 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 13 | 6.73 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 9 | 6.73 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 3 | 6.73 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 3 | 6.73 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 8 | 6.73 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 4 | 6.73 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 19 | 6.73 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 1 | 6.73 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 13 | 6.73 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 15 | 6.73 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 8 | 6.73 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 8 | 6.73 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 19 | 6.73 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 19 | 6.73 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 15 | 6.73 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 15 | 6.73 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 15 | 6.73 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 12 | 6.73 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 12 | 6.73 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 16 | 6.73 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 16 | 6.73 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 10 | 6.73 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 19 | 6.73 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 7 | 6.73 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 7 | 6.73 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 15 | 6.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 15 | 6.73 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 15 | 6.73 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 9 | 6.73 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 9 | 6.73 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 9 | 6.73 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 9 | 6.73 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 9 | 6.73 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 9 | 6.73 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 9 | 6.73 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 10 | 6.72 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 10 | 6.72 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 14 | 6.72 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 14 | 6.72 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 7 | 6.72 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 7 | 6.72 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 8 | 6.72 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 8 | 6.72 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 10 | 6.72 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 10 | 6.72 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 12 | 6.72 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 12 | 6.72 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 12 | 6.72 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 12 | 6.72 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 5 | 6.72 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 5 | 6.72 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 20 | 6.72 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 20 | 6.72 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 4 | 6.72 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 4 | 6.72 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 4 | 6.72 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 4 | 6.72 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 4 | 6.72 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 4 | 6.72 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 5 | 6.72 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 5 | 6.72 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 11 | 6.72 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 11 | 6.72 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 11 | 6.72 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 11 | 6.72 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 10 | 6.72 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 10 | 6.72 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 10 | 6.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 10 | 6.72 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 10 | 6.72 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 10 | 6.72 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 7 | 6.72 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 7 | 6.72 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 9 | 6.72 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 9 | 6.72 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 17 | 6.72 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 17 | 6.72 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 17 | 6.72 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 17 | 6.72 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 17 | 6.72 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 17 | 6.72 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 17 | 6.72 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 17 | 6.72 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 17 | 6.72 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 13 | 6.72 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 5 | 6.72 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 7 | 6.72 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 7 | 6.72 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 7 | 6.72 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 19 | 6.72 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 13 | 6.72 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 13 | 6.72 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 13 | 6.72 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 19 | 6.72 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 19 | 6.72 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 7 | 6.72 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 8 | 6.72 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 16 | 6.72 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 16 | 6.72 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 16 | 6.72 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 18 | 6.72 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 2 | 6.72 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 2 | 6.72 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 2 | 6.72 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 7 | 6.72 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 16 | 6.72 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 16 | 6.72 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 16 | 6.72 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 16 | 6.72 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 16 | 6.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 16 | 6.72 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 16 | 6.72 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 16 | 6.72 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 16 | 6.72 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 1 | 6.72 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 1 | 6.72 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 1 | 6.72 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 13 | 6.72 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 8 | 6.72 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 8 | 6.72 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 9 | 6.72 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 9 | 6.72 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 5 | 6.72 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 20 | 6.72 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 19 | 6.72 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 19 | 6.72 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 19 | 6.72 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 19 | 6.72 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 19 | 6.72 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 19 | 6.72 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 7 | 6.72 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 7 | 6.72 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 7 | 6.72 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 6 | 6.72 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 6 | 6.72 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 16 | 6.72 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 16 | 6.72 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 16 | 6.72 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 10 | 6.72 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 10 | 6.72 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 3 | 6.72 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 3 | 6.72 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 3 | 6.72 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 8 | 6.72 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 8 | 6.72 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 8 | 6.72 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 6 | 6.72 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 15 | 6.72 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 15 | 6.72 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 15 | 6.72 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 15 | 6.72 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 5 | 6.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 6 | 6.72 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 6 | 6.72 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 6 | 6.72 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 6 | 6.72 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 5 | 6.72 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 9 | 6.72 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 9 | 6.72 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 11 | 6.72 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 19 | 6.72 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 13 | 6.72 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 13 | 6.72 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 13 | 6.72 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 11 | 6.72 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 11 | 6.72 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 14 | 6.72 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 10 | 6.72 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 10 | 6.72 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 12 | 6.72 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 12 | 6.72 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 12 | 6.72 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 12 | 6.72 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 13 | 6.72 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 13 | 6.72 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 13 | 6.72 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 5 | 6.72 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 5 | 6.72 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 4 | 6.72 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 4 | 6.72 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 4 | 6.72 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 4 | 6.72 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 4 | 6.72 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 4 | 6.72 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 18 | 6.72 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 2 | 6.72 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 2 | 6.72 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 4 | 6.72 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 5 | 6.72 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 1 | 6.72 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 10 | 6.72 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 10 | 6.72 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 14 | 6.72 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 14 | 6.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 14 | 6.72 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 15 | 6.72 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 15 | 6.72 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 15 | 6.72 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 10 | 6.72 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 10 | 6.72 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 6 | 6.72 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 6 | 6.72 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 17 | 6.72 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 1 | 6.72 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 8 | 6.72 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 8 | 6.72 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 8 | 6.72 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 5 | 6.72 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 9 | 6.72 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 9 | 6.72 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 11 | 6.72 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 1 | 6.72 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 1 | 6.72 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 18 | 6.72 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 18 | 6.72 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 18 | 6.72 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 7 | 6.71 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 7 | 6.71 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 13 | 6.71 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 13 | 6.71 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 18 | 6.71 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 18 | 6.71 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 18 | 6.71 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 18 | 6.71 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 18 | 6.71 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 18 | 6.71 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 16 | 6.71 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 16 | 6.71 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 20 | 6.71 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 20 | 6.71 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 20 | 6.71 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 20 | 6.71 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 18 | 6.71 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 18 | 6.71 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 9 | 6.71 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 9 | 6.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 9 | 6.71 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 9 | 6.71 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 9 | 6.71 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 9 | 6.71 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 20 | 6.71 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 20 | 6.71 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 4 | 6.71 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 4 | 6.71 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 5 | 6.71 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 5 | 6.71 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 5 | 6.71 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 5 | 6.71 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 5 | 6.71 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 5 | 6.71 |
| (1,8471) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 13 | 6.71 |
| (1,8471) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 13 | 6.71 |
| (1,8471) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 13 | 6.71 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 7 | 6.71 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 7 | 6.71 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 7 | 6.71 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 9 | 6.71 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 9 | 6.71 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 9 | 6.71 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 9 | 6.71 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 13 | 6.71 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 13 | 6.71 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 15 | 6.71 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 15 | 6.71 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 15 | 6.71 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 12 | 6.71 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 12 | 6.71 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 12 | 6.71 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 6 | 6.71 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 6 | 6.71 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 15 | 6.71 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 9 | 6.71 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 9 | 6.71 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 9 | 6.71 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 6 | 6.71 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 6 | 6.71 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 6 | 6.71 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 9 | 6.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 2 | 6.71 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 2 | 6.71 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 2 | 6.71 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 6 | 6.71 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 6 | 6.71 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 6 | 6.71 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 19 | 6.71 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 19 | 6.71 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 3 | 6.71 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 15 | 6.71 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 19 | 6.71 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 19 | 6.71 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 19 | 6.71 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 14 | 6.71 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 14 | 6.71 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 14 | 6.71 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 9 | 6.71 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 4 | 6.71 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 4 | 6.71 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 4 | 6.71 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 16 | 6.71 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 16 | 6.71 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 16 | 6.71 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 4 | 6.71 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 15 | 6.71 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 15 | 6.71 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 15 | 6.71 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 1 | 6.71 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 1 | 6.71 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 1 | 6.71 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 1 | 6.71 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 1 | 6.71 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 1 | 6.71 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 2 | 6.71 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 2 | 6.71 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 2 | 6.71 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 12 | 6.71 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 12 | 6.71 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 12 | 6.71 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 10 | 6.71 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 10 | 6.71 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 10 | 6.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 20 | 6.71 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 18 | 6.71 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 12 | 6.71 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 7 | 6.71 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 7 | 6.71 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 18 | 6.71 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 16 | 6.71 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 16 | 6.71 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 16 | 6.71 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 19 | 6.71 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 17 | 6.71 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 17 | 6.71 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 6.71 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 4 | 6.71 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 4 | 6.71 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 4 | 6.71 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 6.71 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 16 | 6.71 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 16 | 6.71 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 16 | 6.71 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 4 | 6.71 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 6.71 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 6.71 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 6.71 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 6 | 6.71 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 6 | 6.71 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 15 | 6.71 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 15 | 6.71 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 15 | 6.71 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 6.71 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 6.71 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 6.71 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 1 | 6.71 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 1 | 6.71 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 1 | 6.71 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 1 | 6.71 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 1 | 6.71 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 1 | 6.71 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 17 | 6.7 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 5 | 6.7 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 5 | 6.7 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 5 | 6.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 5 | 6.7 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 10 | 6.7 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 10 | 6.7 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 9 | 6.7 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 9 | 6.7 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 1 | 6.7 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 1 | 6.7 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 1 | 6.7 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 1 | 6.7 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 1 | 6.7 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 1 | 6.7 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 8 | 6.7 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 8 | 6.7 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 3 | 6.7 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 3 | 6.7 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 9 | 6.7 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 12 | 6.7 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 12 | 6.7 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 12 | 6.7 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 15 | 6.7 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 15 | 6.7 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 15 | 6.7 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 12 | 6.7 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 12 | 6.7 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 18 | 6.7 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 1 | 6.7 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 9 | 6.7 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 9 | 6.7 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 9 | 6.7 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 15 | 6.7 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 15 | 6.7 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 15 | 6.7 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 15 | 6.7 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 15 | 6.7 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 15 | 6.7 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 15 | 6.7 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 15 | 6.7 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 15 | 6.7 |
| (1,8113) | 1:93:A:ILE:H | 1:96:A:ILE:HG12 | 12 | 6.7 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 5 | 6.7 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 11 | 6.7 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 9 | 6.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 9 | 6.7 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 9 | 6.7 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 10 | 6.7 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 7 | 6.7 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 7 | 6.7 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 7 | 6.7 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 13 | 6.7 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 20 | 6.7 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 6 | 6.7 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 6 | 6.7 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 6 | 6.7 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 10 | 6.7 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 10 | 6.7 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 11 | 6.7 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 11 | 6.7 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 14 | 6.7 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 14 | 6.7 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 20 | 6.7 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 20 | 6.7 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 20 | 6.7 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 17 | 6.7 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 17 | 6.7 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 17 | 6.7 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 6 | 6.7 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 6 | 6.7 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 6 | 6.7 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 5 | 6.7 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 5 | 6.7 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 8 | 6.7 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 8 | 6.7 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 8 | 6.7 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 15 | 6.7 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 15 | 6.7 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 1 | 6.7 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 1 | 6.7 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 1 | 6.7 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 11 | 6.7 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 11 | 6.7 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 11 | 6.7 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 2 | 6.7 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 9 | 6.7 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 9 | 6.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 9 | 6.7 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 9 | 6.7 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 9 | 6.7 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 9 | 6.7 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 9 | 6.7 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 9 | 6.7 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 9 | 6.7 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 15 | 6.7 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 15 | 6.7 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 15 | 6.7 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 20 | 6.7 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 3 | 6.7 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 3 | 6.7 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 3 | 6.7 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 20 | 6.7 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 20 | 6.7 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 20 | 6.7 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 17 | 6.7 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 17 | 6.7 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 17 | 6.7 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 18 | 6.7 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 18 | 6.7 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 18 | 6.7 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 2 | 6.7 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 11 | 6.7 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 19 | 6.7 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 19 | 6.7 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 19 | 6.7 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 11 | 6.7 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 11 | 6.7 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 11 | 6.7 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 11 | 6.7 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 1 | 6.7 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 1 | 6.7 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 1 | 6.7 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 8 | 6.7 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 8 | 6.7 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 6 | 6.7 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 8 | 6.7 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 8 | 6.7 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 8 | 6.7 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 8 | 6.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 15 | 6.7 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 15 | 6.7 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 1 | 6.7 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 1 | 6.7 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 1 | 6.7 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 6.7 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 6.7 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 6.7 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 17 | 6.7 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 19 | 6.7 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 11 | 6.7 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 11 | 6.7 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 11 | 6.7 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 14 | 6.7 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 2 | 6.7 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 9 | 6.7 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 9 | 6.7 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 9 | 6.7 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 9 | 6.7 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 9 | 6.7 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 9 | 6.7 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 13 | 6.7 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 7 | 6.69 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 13 | 6.69 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 2 | 6.69 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 12 | 6.69 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 12 | 6.69 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 6 | 6.69 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 6 | 6.69 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 20 | 6.69 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 20 | 6.69 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 15 | 6.69 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 15 | 6.69 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 15 | 6.69 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 15 | 6.69 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 18 | 6.69 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 18 | 6.69 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 18 | 6.69 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 18 | 6.69 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 18 | 6.69 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 18 | 6.69 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 1 | 6.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 1 | 6.69 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 8 | 6.69 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 8 | 6.69 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 12 | 6.69 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 12 | 6.69 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 12 | 6.69 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 12 | 6.69 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 1 | 6.69 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 1 | 6.69 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 1 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 11 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 11 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 11 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 11 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 11 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 11 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 11 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 11 | 6.69 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 11 | 6.69 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 15 | 6.69 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 15 | 6.69 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 10 | 6.69 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 1 | 6.69 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 12 | 6.69 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 5 | 6.69 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 5 | 6.69 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 12 | 6.69 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 1 | 6.69 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 11 | 6.69 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 1 | 6.69 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 1 | 6.69 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 1 | 6.69 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 9 | 6.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 9 | 6.69 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 9 | 6.69 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 7 | 6.69 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 17 | 6.69 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 16 | 6.69 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 7 | 6.69 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 7 | 6.69 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 7 | 6.69 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 4 | 6.69 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 4 | 6.69 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 4 | 6.69 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 4 | 6.69 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 4 | 6.69 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 4 | 6.69 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 7 | 6.69 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 16 | 6.69 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 16 | 6.69 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 16 | 6.69 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 11 | 6.69 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 11 | 6.69 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 11 | 6.69 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 2 | 6.69 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 2 | 6.69 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 2 | 6.69 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 13 | 6.69 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 13 | 6.69 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 20 | 6.69 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 12 | 6.69 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 12 | 6.69 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 12 | 6.69 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 1 | 6.69 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 2 | 6.69 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 2 | 6.69 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 2 | 6.69 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 2 | 6.69 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 15 | 6.69 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 15 | 6.69 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 15 | 6.69 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 16 | 6.69 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 16 | 6.69 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 16 | 6.69 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 20 | 6.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 20 | 6.69 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 20 | 6.69 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 20 | 6.69 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 20 | 6.69 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 20 | 6.69 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 20 | 6.69 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 20 | 6.69 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 20 | 6.69 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 4 | 6.69 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 8 | 6.69 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 10 | 6.69 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 10 | 6.69 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 11 | 6.69 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 11 | 6.69 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 11 | 6.69 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 5 | 6.69 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 6.69 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 6.69 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 6.69 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 6.69 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 6.69 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 6.69 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 12 | 6.69 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 12 | 6.69 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 11 | 6.69 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 18 | 6.69 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 18 | 6.69 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 18 | 6.69 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 18 | 6.69 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 18 | 6.69 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 18 | 6.69 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 18 | 6.69 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 5 | 6.69 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 5 | 6.69 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 5 | 6.69 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 18 | 6.69 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 6 | 6.69 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 6 | 6.69 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 16 | 6.69 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 19 | 6.69 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 19 | 6.69 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 19 | 6.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 13 | 6.69 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 13 | 6.69 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 3 | 6.69 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 3 | 6.69 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 3 | 6.69 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 17 | 6.69 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 20 | 6.69 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 12 | 6.69 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 12 | 6.69 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 12 | 6.69 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 15 | 6.69 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 15 | 6.69 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 15 | 6.69 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 7 | 6.69 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 1 | 6.69 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 2 | 6.69 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 2 | 6.69 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 2 | 6.69 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 2 | 6.69 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 2 | 6.69 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 8 | 6.69 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 8 | 6.69 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 8 | 6.69 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 6 | 6.69 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 15 | 6.69 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 15 | 6.69 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 15 | 6.69 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 1 | 6.69 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 16 | 6.69 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 16 | 6.69 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 16 | 6.69 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 10 | 6.68 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 8 | 6.68 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 10 | 6.68 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 10 | 6.68 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 20 | 6.68 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 20 | 6.68 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 19 | 6.68 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 19 | 6.68 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 19 | 6.68 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 19 | 6.68 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 1 | 6.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 1 | 6.68 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 8 | 6.68 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 8 | 6.68 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 8 | 6.68 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 8 | 6.68 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 11 | 6.68 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 11 | 6.68 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 8 | 6.68 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 8 | 6.68 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 9 | 6.68 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 9 | 6.68 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 1 | 6.68 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 1 | 6.68 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 1 | 6.68 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 1 | 6.68 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 1 | 6.68 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 1 | 6.68 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 7 | 6.68 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 7 | 6.68 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 7 | 6.68 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 7 | 6.68 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 7 | 6.68 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 7 | 6.68 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 7 | 6.68 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 7 | 6.68 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 7 | 6.68 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 3 | 6.68 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 3 | 6.68 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 3 | 6.68 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 5 | 6.68 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 5 | 6.68 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 5 | 6.68 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 8 | 6.68 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 10 | 6.68 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 12 | 6.68 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 12 | 6.68 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 12 | 6.68 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 14 | 6.68 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 18 | 6.68 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 11 | 6.68 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 11 | 6.68 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 6 | 6.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 19 | 6.68 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 19 | 6.68 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 19 | 6.68 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 15 | 6.68 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 15 | 6.68 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 8 | 6.68 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 16 | 6.68 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 16 | 6.68 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 16 | 6.68 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 2 | 6.68 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 2 | 6.68 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 2 | 6.68 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 11 | 6.68 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 11 | 6.68 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 11 | 6.68 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 1 | 6.68 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 1 | 6.68 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 12 | 6.68 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 12 | 6.68 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 5 | 6.68 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 5 | 6.68 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 1 | 6.68 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 4 | 6.68 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 4 | 6.68 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 12 | 6.68 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 15 | 6.68 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 7 | 6.68 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 7 | 6.68 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 7 | 6.68 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 5 | 6.68 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 13 | 6.68 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 13 | 6.68 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 13 | 6.68 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 1 | 6.68 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 1 | 6.68 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 1 | 6.68 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 1 | 6.68 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 1 | 6.68 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 1 | 6.68 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 13 | 6.68 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 13 | 6.68 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 13 | 6.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 12 | 6.68 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 6 | 6.68 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 6 | 6.68 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 6 | 6.68 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 2 | 6.68 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 2 | 6.68 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 2 | 6.68 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 2 | 6.68 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 2 | 6.68 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 2 | 6.68 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 2 | 6.68 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 2 | 6.68 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 2 | 6.68 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 12 | 6.68 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 12 | 6.68 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 12 | 6.68 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 3 | 6.68 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 12 | 6.68 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 12 | 6.68 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 12 | 6.68 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 12 | 6.68 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 6.68 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 6.68 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 6.68 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 9 | 6.68 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 18 | 6.68 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 18 | 6.68 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 18 | 6.68 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 18 | 6.68 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 16 | 6.68 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 16 | 6.68 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 16 | 6.68 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 9 | 6.68 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 9 | 6.68 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 5 | 6.68 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 5 | 6.68 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 1 | 6.68 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 1 | 6.68 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 1 | 6.68 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 1 | 6.68 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 1 | 6.68 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 1 | 6.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 4 | 6.68 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 4 | 6.68 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 6.68 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 12 | 6.68 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 15 | 6.68 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 7 | 6.68 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 7 | 6.68 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 7 | 6.68 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 5 | 6.68 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 4 | 6.68 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 13 | 6.68 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 13 | 6.68 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 13 | 6.68 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 1 | 6.68 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 1 | 6.68 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 1 | 6.68 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 1 | 6.68 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 1 | 6.68 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 1 | 6.68 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 19 | 6.68 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 13 | 6.68 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 13 | 6.68 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 13 | 6.68 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 9 | 6.68 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 9 | 6.68 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 19 | 6.68 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 12 | 6.68 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 6 | 6.68 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 6 | 6.68 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 6 | 6.68 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 7 | 6.68 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 7 | 6.68 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 7 | 6.68 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 3 | 6.67 |
| (4,147) | 1:98:A:SER:CB | 1:6:A:LYS:H | 9 | 6.67 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 2 | 6.67 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 18 | 6.67 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 2 | 6.67 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 19 | 6.67 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 19 | 6.67 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 17 | 6.67 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 17 | 6.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 3 | 6.67 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 3 | 6.67 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 12 | 6.67 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 12 | 6.67 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 2 | 6.67 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 2 | 6.67 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 19 | 6.67 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 19 | 6.67 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 15 | 6.67 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 15 | 6.67 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 15 | 6.67 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 15 | 6.67 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 8 | 6.67 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 12 | 6.67 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 12 | 6.67 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 12 | 6.67 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 12 | 6.67 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 12 | 6.67 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 12 | 6.67 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 12 | 6.67 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 12 | 6.67 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 12 | 6.67 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 14 | 6.67 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 14 | 6.67 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 3 | 6.67 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 8 | 6.67 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 18 | 6.67 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 18 | 6.67 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 18 | 6.67 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 18 | 6.67 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 18 | 6.67 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 18 | 6.67 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 18 | 6.67 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 18 | 6.67 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 18 | 6.67 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 15 | 6.67 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 17 | 6.67 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 9 | 6.67 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 13 | 6.67 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 10 | 6.67 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 8 | 6.67 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 14 | 6.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 14 | 6.67 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 10 | 6.67 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 10 | 6.67 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 15 | 6.67 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 15 | 6.67 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 15 | 6.67 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 7 | 6.67 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 5 | 6.67 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 19 | 6.67 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 19 | 6.67 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 19 | 6.67 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 11 | 6.67 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 14 | 6.67 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 14 | 6.67 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 8 | 6.67 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 8 | 6.67 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 8 | 6.67 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 9 | 6.67 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 1 | 6.67 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 1 | 6.67 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 1 | 6.67 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 16 | 6.67 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 20 | 6.67 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 20 | 6.67 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 20 | 6.67 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 17 | 6.67 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 12 | 6.67 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 8 | 6.67 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 8 | 6.67 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 8 | 6.67 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 2 | 6.67 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 2 | 6.67 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 2 | 6.67 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 13 | 6.67 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 9 | 6.67 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 9 | 6.67 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 6 | 6.67 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 5 | 6.67 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 3 | 6.67 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 3 | 6.67 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 4 | 6.67 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 14 | 6.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 14 | 6.67 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 12 | 6.67 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 12 | 6.67 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 6 | 6.67 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 2 | 6.67 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 2 | 6.67 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 2 | 6.67 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 2 | 6.67 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 1 | 6.67 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 13 | 6.67 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 4 | 6.67 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 10 | 6.67 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 10 | 6.67 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 3 | 6.67 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 8 | 6.67 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 9 | 6.67 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 9 | 6.67 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 1 | 6.67 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 1 | 6.67 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 1 | 6.67 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 16 | 6.67 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 20 | 6.67 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 20 | 6.67 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 20 | 6.67 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 14 | 6.67 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 9 | 6.67 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 13 | 6.67 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 13 | 6.67 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 13 | 6.67 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 4 | 6.66 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 7 | 6.66 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 20 | 6.66 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 4 | 6.66 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 6.66 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 6.66 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 6.66 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 6.66 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 6.66 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 6.66 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 6 | 6.66 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 6 | 6.66 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 3 | 6.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 3 | 6.66 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 1 | 6.66 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 1 | 6.66 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 8 | 6.66 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 8 | 6.66 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 9 | 6.66 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 9 | 6.66 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 9 | 6.66 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 9 | 6.66 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 9 | 6.66 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 9 | 6.66 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 14 | 6.66 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 14 | 6.66 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 12 | 6.66 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 12 | 6.66 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 12 | 6.66 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 12 | 6.66 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 12 | 6.66 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 12 | 6.66 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 13 | 6.66 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 13 | 6.66 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 19 | 6.66 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 19 | 6.66 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 19 | 6.66 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 19 | 6.66 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 19 | 6.66 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 19 | 6.66 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 19 | 6.66 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 19 | 6.66 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 19 | 6.66 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 13 | 6.66 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 20 | 6.66 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 20 | 6.66 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 20 | 6.66 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 4 | 6.66 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 4 | 6.66 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 4 | 6.66 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 9 | 6.66 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 10 | 6.66 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 12 | 6.66 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 12 | 6.66 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 12 | 6.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 12 | 6.66 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 12 | 6.66 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 12 | 6.66 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 3 | 6.66 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 17 | 6.66 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 17 | 6.66 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 12 | 6.66 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 12 | 6.66 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 12 | 6.66 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 9 | 6.66 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 13 | 6.66 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 17 | 6.66 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 4 | 6.66 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 4 | 6.66 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 4 | 6.66 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 4 | 6.66 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 4 | 6.66 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 4 | 6.66 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 4 | 6.66 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 4 | 6.66 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 4 | 6.66 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 1 | 6.66 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 1 | 6.66 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 1 | 6.66 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 15 | 6.66 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 15 | 6.66 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 15 | 6.66 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 16 | 6.66 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 16 | 6.66 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 16 | 6.66 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 18 | 6.66 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 18 | 6.66 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 18 | 6.66 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 2 | 6.66 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 2 | 6.66 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 2 | 6.66 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 12 | 6.66 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 18 | 6.66 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 18 | 6.66 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 10 | 6.66 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 10 | 6.66 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 5 | 6.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 7 | 6.66 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 7 | 6.66 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 9 | 6.66 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 8 | 6.66 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 4 | 6.66 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 4 | 6.66 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 4 | 6.66 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 19 | 6.66 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 18 | 6.66 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 18 | 6.66 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 18 | 6.66 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 18 | 6.66 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 18 | 6.66 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 18 | 6.66 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 10 | 6.66 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 10 | 6.66 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 10 | 6.66 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 6.66 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 6.66 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 6.66 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 6.66 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 6.66 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 6.66 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 6.66 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 6.66 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 6.66 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 6.66 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 6.66 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 6.66 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 8 | 6.66 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 12 | 6.66 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 12 | 6.66 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 12 | 6.66 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 12 | 6.66 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 12 | 6.66 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 12 | 6.66 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 17 | 6.66 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 2 | 6.66 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 2 | 6.66 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 2 | 6.66 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 12 | 6.66 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 18 | 6.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 18 | 6.66 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 10 | 6.66 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 10 | 6.66 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 1 | 6.66 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 1 | 6.66 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 1 | 6.66 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 9 | 6.66 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 9 | 6.66 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 9 | 6.66 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 4 | 6.66 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 3 | 6.66 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 5 | 6.66 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 5 | 6.66 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 5 | 6.66 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 5 | 6.66 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 7 | 6.66 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 7 | 6.66 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 16 | 6.65 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 3 | 6.65 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 10 | 6.65 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 8 | 6.65 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 8 | 6.65 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 15 | 6.65 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 15 | 6.65 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 17 | 6.65 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 17 | 6.65 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 13 | 6.65 |
| (1,9193) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 13 | 6.65 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 13 | 6.65 |
| (1,9193) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 13 | 6.65 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 4 | 6.65 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 4 | 6.65 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 1 | 6.65 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 1 | 6.65 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 1 | 6.65 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 1 | 6.65 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 1 | 6.65 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 1 | 6.65 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 9 | 6.65 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 9 | 6.65 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 9 | 6.65 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 9 | 6.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 5 | 6.65 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 9 | 6.65 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 9 | 6.65 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 12 | 6.65 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 12 | 6.65 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 12 | 6.65 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 4 | 6.65 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 7 | 6.65 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 7 | 6.65 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 10 | 6.65 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 10 | 6.65 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 2 | 6.65 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 2 | 6.65 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 2 | 6.65 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 2 | 6.65 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 2 | 6.65 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 2 | 6.65 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 2 | 6.65 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 2 | 6.65 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 2 | 6.65 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 14 | 6.65 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 14 | 6.65 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 14 | 6.65 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 8 | 6.65 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 8 | 6.65 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 15 | 6.65 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 15 | 6.65 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 15 | 6.65 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 12 | 6.65 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 18 | 6.65 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 18 | 6.65 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 8 | 6.65 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 11 | 6.65 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 11 | 6.65 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 11 | 6.65 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 8 | 6.65 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 8 | 6.65 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 8 | 6.65 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 10 | 6.65 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 10 | 6.65 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 10 | 6.65 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 14 | 6.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 14 | 6.65 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 14 | 6.65 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 7 | 6.65 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 7 | 6.65 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 7 | 6.65 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 17 | 6.65 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 17 | 6.65 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 17 | 6.65 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 9 | 6.65 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 9 | 6.65 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 9 | 6.65 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 3 | 6.65 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 3 | 6.65 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 3 | 6.65 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 12 | 6.65 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 1 | 6.65 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 4 | 6.65 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 1 | 6.65 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 3 | 6.65 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 13 | 6.65 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 13 | 6.65 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 13 | 6.65 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 13 | 6.65 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 13 | 6.65 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 13 | 6.65 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 3 | 6.65 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 3 | 6.65 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 7 | 6.65 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 15 | 6.65 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 9 | 6.65 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 11 | 6.65 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 11 | 6.65 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 11 | 6.65 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 13 | 6.65 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 13 | 6.65 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 7 | 6.65 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 7 | 6.65 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 7 | 6.65 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 4 | 6.65 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 2 | 6.65 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 17 | 6.65 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 17 | 6.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 17 | 6.65 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 4 | 6.65 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 18 | 6.65 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 18 | 6.65 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 18 | 6.65 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 17 | 6.65 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 17 | 6.65 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 17 | 6.65 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 4 | 6.65 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 4 | 6.65 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 1 | 6.65 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 1 | 6.65 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 1 | 6.65 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 1 | 6.65 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 1 | 6.65 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 1 | 6.65 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 1 | 6.65 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 11 | 6.65 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 1 | 6.65 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 7 | 6.65 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 11 | 6.65 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 9 | 6.65 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 9 | 6.65 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 9 | 6.65 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 9 | 6.65 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 9 | 6.65 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 2 | 6.65 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 15 | 6.65 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 12 | 6.65 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 12 | 6.65 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 12 | 6.65 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 9 | 6.65 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 11 | 6.65 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 11 | 6.65 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 11 | 6.65 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 11 | 6.65 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 11 | 6.65 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 11 | 6.65 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 14 | 6.65 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 13 | 6.65 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 13 | 6.65 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 7 | 6.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 7 | 6.65 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 7 | 6.65 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 5 | 6.65 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 4 | 6.65 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 19 | 6.65 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 4 | 6.64 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 1 | 6.64 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 13 | 6.64 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 6 | 6.64 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 14 | 6.64 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 14 | 6.64 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 20 | 6.64 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 20 | 6.64 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 17 | 6.64 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 17 | 6.64 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 18 | 6.64 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 18 | 6.64 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 8 | 6.64 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 8 | 6.64 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 8 | 6.64 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 8 | 6.64 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 6 | 6.64 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 6 | 6.64 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 6 | 6.64 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 13 | 6.64 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 13 | 6.64 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 13 | 6.64 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 13 | 6.64 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 13 | 6.64 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 20 | 6.64 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 20 | 6.64 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 9 | 6.64 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 7 | 6.64 |
| (1,8245) | 1:115:A:SER:H | 1:122:A:LEU:H | 6 | 6.64 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 19 | 6.64 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 9 | 6.64 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 1 | 6.64 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 7 | 6.64 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 12 | 6.64 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 4 | 6.64 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 4 | 6.64 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 4 | 6.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 16 | 6.64 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 8 | 6.64 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 8 | 6.64 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 8 | 6.64 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 17 | 6.64 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 17 | 6.64 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 17 | 6.64 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 2 | 6.64 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 2 | 6.64 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 2 | 6.64 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 6 | 6.64 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 6 | 6.64 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 6 | 6.64 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 16 | 6.64 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 1 | 6.64 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 5 | 6.64 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 5 | 6.64 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 5 | 6.64 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 13 | 6.64 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 18 | 6.64 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 14 | 6.64 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 14 | 6.64 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 5 | 6.64 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 5 | 6.64 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 2 | 6.64 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 2 | 6.64 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 8 | 6.64 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 13 | 6.64 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 14 | 6.64 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 9 | 6.64 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 9 | 6.64 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 9 | 6.64 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 9 | 6.64 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 12 | 6.64 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 16 | 6.64 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 12 | 6.64 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 10 | 6.64 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 10 | 6.64 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 10 | 6.64 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 4 | 6.64 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 13 | 6.64 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 13 | 6.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 13 | 6.64 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 19 | 6.64 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 19 | 6.64 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 19 | 6.64 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 16 | 6.64 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 9 | 6.64 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 16 | 6.64 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 18 | 6.64 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 18 | 6.64 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 2 | 6.64 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 6 | 6.64 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 6 | 6.64 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 6 | 6.64 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 19 | 6.64 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 17 | 6.64 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 14 | 6.64 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 2 | 6.64 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 2 | 6.64 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 5 | 6.64 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 5 | 6.64 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 2 | 6.64 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 2 | 6.64 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 5 | 6.64 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 8 | 6.64 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 12 | 6.64 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 12 | 6.64 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 12 | 6.64 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 13 | 6.64 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 9 | 6.64 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 9 | 6.64 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 9 | 6.64 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 9 | 6.64 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 5 | 6.64 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 7 | 6.64 |
| (1,1536) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 7 | 6.64 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 12 | 6.64 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 16 | 6.64 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 10 | 6.64 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 12 | 6.64 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 18 | 6.64 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 11 | 6.64 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 14 | 6.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 17 | 6.63 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 20 | 6.63 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 16 | 6.63 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 12 | 6.63 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 11 | 6.63 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 11 | 6.63 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 10 | 6.63 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 10 | 6.63 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 13 | 6.63 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 13 | 6.63 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 13 | 6.63 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 13 | 6.63 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 20 | 6.63 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 20 | 6.63 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 16 | 6.63 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 16 | 6.63 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 5 | 6.63 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 5 | 6.63 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 5 | 6.63 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 5 | 6.63 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 18 | 6.63 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 18 | 6.63 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 6 | 6.63 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 6 | 6.63 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 14 | 6.63 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 14 | 6.63 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 14 | 6.63 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 14 | 6.63 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 14 | 6.63 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 14 | 6.63 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 3 | 6.63 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 3 | 6.63 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 6 | 6.63 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 6 | 6.63 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 11 | 6.63 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 11 | 6.63 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 7 | 6.63 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 7 | 6.63 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 17 | 6.63 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 17 | 6.63 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 18 | 6.63 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 18 | 6.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 13 | 6.63 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 16 | 6.63 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 16 | 6.63 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 16 | 6.63 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 5 | 6.63 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 5 | 6.63 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 5 | 6.63 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 8 | 6.63 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 8 | 6.63 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 8 | 6.63 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 13 | 6.63 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 13 | 6.63 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 11 | 6.63 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 4 | 6.63 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 2 | 6.63 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 11 | 6.63 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 14 | 6.63 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 14 | 6.63 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 14 | 6.63 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 12 | 6.63 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 12 | 6.63 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 12 | 6.63 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 18 | 6.63 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 4 | 6.63 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 4 | 6.63 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 4 | 6.63 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 14 | 6.63 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 14 | 6.63 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 14 | 6.63 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 14 | 6.63 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 14 | 6.63 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 14 | 6.63 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 14 | 6.63 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 15 | 6.63 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 4 | 6.63 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 15 | 6.63 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 15 | 6.63 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 15 | 6.63 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 15 | 6.63 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 15 | 6.63 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 15 | 6.63 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 11 | 6.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 11 | 6.63 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 11 | 6.63 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 4 | 6.63 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 4 | 6.63 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 4 | 6.63 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 16 | 6.63 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 16 | 6.63 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 16 | 6.63 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 6 | 6.63 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 1 | 6.63 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 1 | 6.63 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 12 | 6.63 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 2 | 6.63 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 2 | 6.63 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 2 | 6.63 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 4 | 6.63 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 4 | 6.63 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 4 | 6.63 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 5 | 6.63 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 5 | 6.63 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 11 | 6.63 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 20 | 6.63 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 4 | 6.63 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 4 | 6.63 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 4 | 6.63 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 4 | 6.63 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 4 | 6.63 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 4 | 6.63 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 1 | 6.63 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 1 | 6.63 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 18 | 6.63 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 14 | 6.63 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 14 | 6.63 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 14 | 6.63 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 15 | 6.63 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 15 | 6.63 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 11 | 6.63 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 14 | 6.63 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 1 | 6.63 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 17 | 6.63 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 14 | 6.63 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 14 | 6.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 14 | 6.63 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 14 | 6.63 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 14 | 6.63 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 14 | 6.63 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 6 | 6.63 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 6 | 6.63 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 11 | 6.63 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 11 | 6.63 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 11 | 6.63 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 7 | 6.63 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 7 | 6.63 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 17 | 6.63 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 17 | 6.63 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 11 | 6.63 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 11 | 6.63 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 11 | 6.63 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 4 | 6.63 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 4 | 6.63 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 4 | 6.63 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 6 | 6.63 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 16 | 6.63 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 16 | 6.63 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 16 | 6.63 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 12 | 6.63 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 6 | 6.63 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 1 | 6.63 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 1 | 6.63 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 12 | 6.63 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 16 | 6.63 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 16 | 6.63 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 16 | 6.63 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 19 | 6.63 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 9 | 6.63 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 16 | 6.63 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 5 | 6.63 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 5 | 6.63 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 5 | 6.63 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 16 | 6.63 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 2 | 6.63 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 2 | 6.63 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 2 | 6.63 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 4 | 6.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 4 | 6.63 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 4 | 6.63 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 5 | 6.63 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 5 | 6.63 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 11 | 6.63 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 20 | 6.63 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 7 | 6.63 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 4 | 6.63 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 4 | 6.63 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 4 | 6.63 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 4 | 6.63 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 4 | 6.63 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 4 | 6.63 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 9 | 6.63 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 9 | 6.63 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 9 | 6.63 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 7 | 6.62 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 2 | 6.62 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 11 | 6.62 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 11 | 6.62 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 11 | 6.62 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 11 | 6.62 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 6 | 6.62 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 6 | 6.62 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 11 | 6.62 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 11 | 6.62 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 12 | 6.62 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 12 | 6.62 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 16 | 6.62 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 16 | 6.62 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 4 | 6.62 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 4 | 6.62 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 4 | 6.62 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 4 | 6.62 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 3 | 6.62 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 3 | 6.62 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 3 | 6.62 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 3 | 6.62 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 14 | 6.62 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 14 | 6.62 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 14 | 6.62 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 14 | 6.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 14 | 6.62 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 14 | 6.62 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 4 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 5 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 5 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 5 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 5 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 5 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 5 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 5 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 5 | 6.62 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 5 | 6.62 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 4 | 6.62 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 4 | 6.62 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 1 | 6.62 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 1 | 6.62 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 11 | 6.62 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 20 | 6.62 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 7 | 6.62 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 13 | 6.62 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 13 | 6.62 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 5 | 6.62 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 5 | 6.62 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 5 | 6.62 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 12 | 6.62 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 12 | 6.62 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 12 | 6.62 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 12 | 6.62 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 17 | 6.62 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 17 | 6.62 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 17 | 6.62 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 16 | 6.62 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 6 | 6.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 8 | 6.62 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 3 | 6.62 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 10 | 6.62 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 18 | 6.62 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 7 | 6.62 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 19 | 6.62 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 5 | 6.62 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 5 | 6.62 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 5 | 6.62 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 12 | 6.62 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 16 | 6.62 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 16 | 6.62 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 16 | 6.62 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 13 | 6.62 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 13 | 6.62 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 13 | 6.62 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 5 | 6.62 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 5 | 6.62 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 5 | 6.62 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 3 | 6.62 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 3 | 6.62 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 4 | 6.62 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 14 | 6.62 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 6 | 6.62 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 6 | 6.62 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 12 | 6.62 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 12 | 6.62 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 6 | 6.62 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 11 | 6.62 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 4 | 6.62 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 4 | 6.62 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 4 | 6.62 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 18 | 6.62 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 2 | 6.62 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 5 | 6.62 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 7 | 6.62 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 19 | 6.62 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 18 | 6.62 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 2 | 6.62 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 2 | 6.62 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 2 | 6.62 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 5 | 6.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 5 | 6.62 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 5 | 6.62 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 20 | 6.62 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 12 | 6.62 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 7 | 6.62 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 8 | 6.62 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 8 | 6.62 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 8 | 6.62 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 7 | 6.61 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 6 | 6.61 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 18 | 6.61 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 12 | 6.61 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 16 | 6.61 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 5 | 6.61 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 5 | 6.61 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 5 | 6.61 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 5 | 6.61 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 5 | 6.61 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 5 | 6.61 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 2 | 6.61 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 2 | 6.61 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 19 | 6.61 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 19 | 6.61 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 20 | 6.61 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 20 | 6.61 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 3 | 6.61 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 3 | 6.61 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 3 | 6.61 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 3 | 6.61 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 19 | 6.61 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 19 | 6.61 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 13 | 6.61 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 13 | 6.61 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 13 | 6.61 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 13 | 6.61 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 15 | 6.61 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 15 | 6.61 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 15 | 6.61 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 15 | 6.61 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 5 | 6.61 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 5 | 6.61 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 5 | 6.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 5 | 6.61 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 5 | 6.61 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 5 | 6.61 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 11 | 6.61 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 11 | 6.61 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 11 | 6.61 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 11 | 6.61 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 10 | 6.61 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 10 | 6.61 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 2 | 6.61 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 2 | 6.61 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 2 | 6.61 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 10 | 6.61 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 10 | 6.61 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 10 | 6.61 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 1 | 6.61 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 7 | 6.61 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 7 | 6.61 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 4 | 6.61 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 17 | 6.61 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 17 | 6.61 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 17 | 6.61 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 19 | 6.61 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 19 | 6.61 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 19 | 6.61 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 15 | 6.61 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 15 | 6.61 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 19 | 6.61 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 19 | 6.61 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 19 | 6.61 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 10 | 6.61 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 7 | 6.61 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 7 | 6.61 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 7 | 6.61 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 13 | 6.61 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 13 | 6.61 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 13 | 6.61 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 18 | 6.61 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 18 | 6.61 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 18 | 6.61 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 7 | 6.61 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 7 | 6.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 12 | 6.61 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 12 | 6.61 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 17 | 6.61 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 17 | 6.61 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 6.61 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 6.61 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 9 | 6.61 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 9 | 6.61 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 9 | 6.61 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 9 | 6.61 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 9 | 6.61 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 9 | 6.61 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 4 | 6.61 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 9 | 6.61 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 9 | 6.61 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 9 | 6.61 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 9 | 6.61 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 20 | 6.61 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 20 | 6.61 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 5 | 6.61 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 5 | 6.61 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 7 | 6.61 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 15 | 6.61 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 13 | 6.61 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 11 | 6.61 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 11 | 6.61 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 11 | 6.61 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 11 | 6.61 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 11 | 6.61 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 11 | 6.61 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 11 | 6.61 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 11 | 6.61 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 11 | 6.61 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 13 | 6.61 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 13 | 6.61 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 13 | 6.61 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 19 | 6.61 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 19 | 6.61 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 19 | 6.61 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 19 | 6.61 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 13 | 6.61 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 2 | 6.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 2 | 6.61 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 1 | 6.61 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 6.61 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 18 | 6.61 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 18 | 6.61 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 5 | 6.61 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 14 | 6.61 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 6.61 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 6.61 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 6.61 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 19 | 6.61 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 19 | 6.61 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 19 | 6.61 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 4 | 6.61 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 5 | 6.61 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 5 | 6.61 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 5 | 6.61 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 5 | 6.61 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 5 | 6.61 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 5 | 6.61 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 19 | 6.61 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 18 | 6.61 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 8 | 6.61 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 19 | 6.61 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 19 | 6.61 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 19 | 6.61 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 1 | 6.61 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 17 | 6.61 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 17 | 6.61 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 6.61 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 6.61 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 10 | 6.61 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 10 | 6.61 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 3 | 6.61 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 6.61 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 14 | 6.61 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 14 | 6.61 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 14 | 6.61 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 16 | 6.61 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 9 | 6.61 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 9 | 6.61 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 9 | 6.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 9 | 6.61 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 20 | 6.61 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 20 | 6.61 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 5 | 6.61 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 5 | 6.61 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 7 | 6.61 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 15 | 6.61 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 12 | 6.61 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 6.61 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 6.61 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 6.61 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 13 | 6.61 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 15 | 6.61 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 15 | 6.61 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 15 | 6.61 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 5 | 6.61 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 13 | 6.6 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 2 | 6.6 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 10 | 6.6 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 11 | 6.6 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 11 | 6.6 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 14 | 6.6 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 14 | 6.6 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 14 | 6.6 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 14 | 6.6 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 14 | 6.6 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 14 | 6.6 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 11 | 6.6 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 11 | 6.6 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 11 | 6.6 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 11 | 6.6 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 11 | 6.6 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 11 | 6.6 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 11 | 6.6 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 11 | 6.6 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 3 | 6.6 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 3 | 6.6 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 3 | 6.6 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 3 | 6.6 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 4 | 6.6 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 4 | 6.6 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 19 | 6.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 19 | 6.6 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 19 | 6.6 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 19 | 6.6 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 20 | 6.6 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 20 | 6.6 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 20 | 6.6 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 20 | 6.6 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 20 | 6.6 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 20 | 6.6 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 10 | 6.6 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 10 | 6.6 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 5 | 6.6 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 5 | 6.6 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 5 | 6.6 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 10 | 6.6 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 10 | 6.6 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 10 | 6.6 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 11 | 6.6 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 11 | 6.6 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 11 | 6.6 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 11 | 6.6 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 11 | 6.6 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 11 | 6.6 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 7 | 6.6 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 9 | 6.6 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 13 | 6.6 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 13 | 6.6 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 13 | 6.6 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 4 | 6.6 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 4 | 6.6 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 4 | 6.6 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 8 | 6.6 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 8 | 6.6 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 8 | 6.6 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 16 | 6.6 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 16 | 6.6 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 16 | 6.6 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 10 | 6.6 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 17 | 6.6 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 17 | 6.6 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 17 | 6.6 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 7 | 6.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 7 | 6.6 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 7 | 6.6 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 18 | 6.6 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 18 | 6.6 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 18 | 6.6 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 12 | 6.6 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 12 | 6.6 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 12 | 6.6 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 3 | 6.6 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 3 | 6.6 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 3 | 6.6 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 3 | 6.6 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 19 | 6.6 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 19 | 6.6 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 19 | 6.6 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 18 | 6.6 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 18 | 6.6 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 18 | 6.6 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 15 | 6.6 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 15 | 6.6 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 15 | 6.6 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 8 | 6.6 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 20 | 6.6 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 8 | 6.6 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 8 | 6.6 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 8 | 6.6 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 4 | 6.6 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 2 | 6.6 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 15 | 6.6 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 15 | 6.6 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 15 | 6.6 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 10 | 6.6 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 6 | 6.6 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 6 | 6.6 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 6 | 6.6 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 3 | 6.6 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 3 | 6.6 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 3 | 6.6 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 10 | 6.6 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 10 | 6.6 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 10 | 6.6 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 10 | 6.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 10 | 6.6 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 10 | 6.6 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 18 | 6.6 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 5 | 6.6 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 5 | 6.6 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 5 | 6.6 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 2 | 6.6 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 2 | 6.6 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 2 | 6.6 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 12 | 6.6 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 12 | 6.6 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 12 | 6.6 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 13 | 6.6 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 12 | 6.6 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 9 | 6.6 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 9 | 6.6 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 9 | 6.6 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 14 | 6.6 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 14 | 6.6 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 14 | 6.6 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 14 | 6.6 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 14 | 6.6 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 14 | 6.6 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 11 | 6.6 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 11 | 6.6 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 11 | 6.6 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 11 | 6.6 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 2 | 6.6 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 7 | 6.6 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 15 | 6.6 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 19 | 6.6 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 4 | 6.6 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 4 | 6.6 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 10 | 6.6 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 10 | 6.6 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 10 | 6.6 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 19 | 6.6 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 19 | 6.6 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 19 | 6.6 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 19 | 6.6 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 19 | 6.6 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 19 | 6.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 10 | 6.6 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 15 | 6.6 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 15 | 6.6 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 15 | 6.6 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 15 | 6.6 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 6.6 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 10 | 6.6 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 8 | 6.6 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 18 | 6.6 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 18 | 6.6 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 10 | 6.6 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 10 | 6.6 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 10 | 6.6 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 10 | 6.6 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 10 | 6.6 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 10 | 6.6 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 3 | 6.6 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 18 | 6.6 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 12 | 6.6 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 11 | 6.6 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 11 | 6.6 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 11 | 6.6 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 5 | 6.6 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 5 | 6.6 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 5 | 6.6 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 16 | 6.6 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 2 | 6.6 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 2 | 6.6 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 2 | 6.6 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 12 | 6.6 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 12 | 6.6 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 12 | 6.6 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 4 | 6.6 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 4 | 6.6 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 15 | 6.6 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 19 | 6.6 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 19 | 6.6 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 19 | 6.6 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 15 | 6.6 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 11 | 6.59 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 10 | 6.59 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 8 | 6.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 8 | 6.59 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 8 | 6.59 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 8 | 6.59 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 9 | 6.59 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 9 | 6.59 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 1 | 6.59 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 1 | 6.59 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 1 | 6.59 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 1 | 6.59 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 18 | 6.59 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 18 | 6.59 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 18 | 6.59 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 18 | 6.59 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 2 | 6.59 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 2 | 6.59 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 16 | 6.59 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 16 | 6.59 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 20 | 6.59 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 20 | 6.59 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 18 | 6.59 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 18 | 6.59 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 18 | 6.59 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 18 | 6.59 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 18 | 6.59 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 18 | 6.59 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 5 | 6.59 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 5 | 6.59 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 5 | 6.59 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 5 | 6.59 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 11 | 6.59 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 11 | 6.59 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 10 | 6.59 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 10 | 6.59 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 18 | 6.59 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 8 | 6.59 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 2 | 6.59 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 2 | 6.59 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 2 | 6.59 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 11 | 6.59 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 20 | 6.59 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 20 | 6.59 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 20 | 6.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 20 | 6.59 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 4 | 6.59 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 15 | 6.59 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 15 | 6.59 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 15 | 6.59 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 4 | 6.59 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 4 | 6.59 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 4 | 6.59 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 7 | 6.59 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 7 | 6.59 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 7 | 6.59 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 20 | 6.59 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 20 | 6.59 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 8 | 6.59 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 4 | 6.59 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 4 | 6.59 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 4 | 6.59 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 3 | 6.59 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 3 | 6.59 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 3 | 6.59 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 9 | 6.59 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 9 | 6.59 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 9 | 6.59 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 17 | 6.59 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 20 | 6.59 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 20 | 6.59 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 3 | 6.59 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 3 | 6.59 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 3 | 6.59 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 7 | 6.59 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 17 | 6.59 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 7 | 6.59 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 7 | 6.59 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 7 | 6.59 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 4 | 6.59 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 4 | 6.59 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 5 | 6.59 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 2 | 6.59 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 2 | 6.59 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 2 | 6.59 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 6 | 6.59 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 6 | 6.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 16 | 6.59 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 16 | 6.59 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 16 | 6.59 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 19 | 6.59 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 20 | 6.59 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 20 | 6.59 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 14 | 6.59 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 5 | 6.59 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 5 | 6.59 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 5 | 6.59 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 5 | 6.59 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 5 | 6.59 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 5 | 6.59 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 10 | 6.59 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 7 | 6.59 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 12 | 6.59 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 18 | 6.59 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 18 | 6.59 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 18 | 6.59 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 15 | 6.59 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 2 | 6.59 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 6 | 6.59 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 6 | 6.59 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 6 | 6.59 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 2 | 6.59 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 2 | 6.59 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 2 | 6.59 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 12 | 6.59 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 2 | 6.59 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 16 | 6.59 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 16 | 6.59 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 16 | 6.59 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 7 | 6.59 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 7 | 6.59 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 7 | 6.59 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 18 | 6.59 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 18 | 6.59 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 18 | 6.59 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 18 | 6.59 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 8 | 6.59 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 8 | 6.59 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 8 | 6.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 8 | 6.59 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 6.59 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 6.59 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 6.59 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 2 | 6.59 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 14 | 6.59 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 6 | 6.59 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 3 | 6.59 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 8 | 6.59 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 18 | 6.59 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 18 | 6.59 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 18 | 6.59 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 18 | 6.59 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 18 | 6.59 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 18 | 6.59 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 2 | 6.59 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 2 | 6.59 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 2 | 6.59 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 7 | 6.59 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 7 | 6.59 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 7 | 6.59 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 6 | 6.59 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 6 | 6.59 |
| (1,3216) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 18 | 6.59 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 16 | 6.59 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 16 | 6.59 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 16 | 6.59 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 19 | 6.59 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 20 | 6.59 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 20 | 6.59 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 14 | 6.59 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 5 | 6.59 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 5 | 6.59 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 5 | 6.59 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 5 | 6.59 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 5 | 6.59 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 5 | 6.59 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 10 | 6.59 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 13 | 6.59 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 19 | 6.59 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 19 | 6.59 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 7 | 6.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 12 | 6.59 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 18 | 6.59 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 18 | 6.59 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 18 | 6.59 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 15 | 6.59 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 12 | 6.59 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 2 | 6.59 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 6 | 6.59 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 6 | 6.59 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 6 | 6.59 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 13 | 6.58 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 4 | 6.58 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 2 | 6.58 |
| (4,84) | 1:15:A:MET:CB | 1:143:A:THR:H | 20 | 6.58 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 2 | 6.58 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 7 | 6.58 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 19 | 6.58 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 8 | 6.58 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 8 | 6.58 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 11 | 6.58 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 11 | 6.58 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 11 | 6.58 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 11 | 6.58 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 9 | 6.58 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 9 | 6.58 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 10 | 6.58 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 10 | 6.58 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 12 | 6.58 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 12 | 6.58 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 12 | 6.58 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 12 | 6.58 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 9 | 6.58 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 9 | 6.58 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 16 | 6.58 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 16 | 6.58 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 18 | 6.58 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 18 | 6.58 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 18 | 6.58 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 18 | 6.58 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 18 | 6.58 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 18 | 6.58 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 18 | 6.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 18 | 6.58 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 18 | 6.58 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 19 | 6.58 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 19 | 6.58 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 19 | 6.58 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 19 | 6.58 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 19 | 6.58 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 19 | 6.58 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 20 | 6.58 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 20 | 6.58 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 20 | 6.58 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 2 | 6.58 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 16 | 6.58 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 16 | 6.58 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 16 | 6.58 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 8 | 6.58 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 6 | 6.58 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 6 | 6.58 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 7 | 6.58 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 16 | 6.58 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 13 | 6.58 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 13 | 6.58 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 13 | 6.58 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 20 | 6.58 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 20 | 6.58 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 20 | 6.58 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 13 | 6.58 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 14 | 6.58 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 13 | 6.58 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 13 | 6.58 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 13 | 6.58 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 13 | 6.58 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 13 | 6.58 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 1 | 6.58 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 1 | 6.58 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 1 | 6.58 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 17 | 6.58 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 17 | 6.58 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 17 | 6.58 |
| (1,7824) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 9 | 6.58 |
| (1,7824) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 9 | 6.58 |
| (1,7824) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 9 | 6.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 13 | 6.58 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 2 | 6.58 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 4 | 6.58 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 16 | 6.58 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 17 | 6.58 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 9 | 6.58 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 9 | 6.58 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 9 | 6.58 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 12 | 6.58 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 12 | 6.58 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 12 | 6.58 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 12 | 6.58 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 12 | 6.58 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 12 | 6.58 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 4 | 6.58 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 9 | 6.58 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 13 | 6.58 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 13 | 6.58 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 13 | 6.58 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 15 | 6.58 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 15 | 6.58 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 4 | 6.58 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 2 | 6.58 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 2 | 6.58 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 2 | 6.58 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 13 | 6.58 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 16 | 6.58 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 16 | 6.58 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 16 | 6.58 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 16 | 6.58 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 15 | 6.58 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 15 | 6.58 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 12 | 6.58 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 12 | 6.58 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 12 | 6.58 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 11 | 6.58 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 11 | 6.58 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 11 | 6.58 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 11 | 6.58 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 12 | 6.58 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 11 | 6.58 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 13 | 6.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 18 | 6.58 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 10 | 6.58 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 12 | 6.58 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 13 | 6.58 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 13 | 6.58 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 13 | 6.58 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 12 | 6.58 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 12 | 6.58 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 20 | 6.58 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 15 | 6.58 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 15 | 6.58 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 4 | 6.58 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 10 | 6.58 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 2 | 6.58 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 2 | 6.58 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 2 | 6.58 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 4 | 6.58 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 4 | 6.58 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 4 | 6.58 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 13 | 6.58 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 16 | 6.58 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 16 | 6.58 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 16 | 6.58 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 15 | 6.57 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 15 | 6.57 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 4 | 6.57 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 3 | 6.57 |
| (4,2) | 1:15:A:MET:CB | 1:46:A:LYS:H | 20 | 6.57 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 1 | 6.57 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 1 | 6.57 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 19 | 6.57 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 19 | 6.57 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 6 | 6.57 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 6 | 6.57 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 6 | 6.57 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 6 | 6.57 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 5 | 6.57 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 5 | 6.57 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 14 | 6.57 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 14 | 6.57 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 13 | 6.57 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 13 | 6.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 13 | 6.57 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 13 | 6.57 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 1 | 6.57 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 1 | 6.57 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 12 | 6.57 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 12 | 6.57 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 9 | 6.57 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 9 | 6.57 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 9 | 6.57 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 9 | 6.57 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 9 | 6.57 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 9 | 6.57 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 8 | 6.57 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 3 | 6.57 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 3 | 6.57 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 3 | 6.57 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 8 | 6.57 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 2 | 6.57 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 5 | 6.57 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 5 | 6.57 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 5 | 6.57 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 5 | 6.57 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 5 | 6.57 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 5 | 6.57 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 14 | 6.57 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 12 | 6.57 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 12 | 6.57 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 12 | 6.57 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 7 | 6.57 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 6 | 6.57 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 2 | 6.57 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 1 | 6.57 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 1 | 6.57 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 1 | 6.57 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 5 | 6.57 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 20 | 6.57 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 20 | 6.57 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 20 | 6.57 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 8 | 6.57 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 8 | 6.57 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 8 | 6.57 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 3 | 6.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 3 | 6.57 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 9 | 6.57 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 9 | 6.57 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 9 | 6.57 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 14 | 6.57 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 14 | 6.57 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 14 | 6.57 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 10 | 6.57 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 5 | 6.57 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 5 | 6.57 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 5 | 6.57 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 5 | 6.57 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 5 | 6.57 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 5 | 6.57 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 17 | 6.57 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 10 | 6.57 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 10 | 6.57 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 10 | 6.57 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 9 | 6.57 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 9 | 6.57 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 7 | 6.57 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 1 | 6.57 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 1 | 6.57 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 1 | 6.57 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 18 | 6.57 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 18 | 6.57 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 18 | 6.57 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 13 | 6.57 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 20 | 6.57 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 13 | 6.57 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 13 | 6.57 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 19 | 6.57 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 19 | 6.57 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 3 | 6.57 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 5 | 6.57 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 18 | 6.57 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 18 | 6.57 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 18 | 6.57 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 20 | 6.57 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 20 | 6.57 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 20 | 6.57 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 2 | 6.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 2 | 6.57 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 2 | 6.57 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 6 | 6.57 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 16 | 6.57 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 16 | 6.57 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 16 | 6.57 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 20 | 6.57 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 5 | 6.57 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 5 | 6.57 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 5 | 6.57 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 5 | 6.57 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 5 | 6.57 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 5 | 6.57 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 5 | 6.57 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 5 | 6.57 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 5 | 6.57 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 9 | 6.57 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 9 | 6.57 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 9 | 6.57 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 20 | 6.57 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 20 | 6.57 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 20 | 6.57 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 13 | 6.57 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 13 | 6.57 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 13 | 6.57 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 13 | 6.57 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 13 | 6.57 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 13 | 6.57 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 13 | 6.57 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 13 | 6.57 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 13 | 6.57 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 1 | 6.57 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 1 | 6.57 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 6 | 6.57 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 6 | 6.57 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 6 | 6.57 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 6 | 6.57 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 6.57 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 6.57 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 6.57 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 3 | 6.57 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 15 | 6.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 15 | 6.57 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 16 | 6.57 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 4 | 6.57 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 18 | 6.57 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 18 | 6.57 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 18 | 6.57 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 13 | 6.57 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 20 | 6.57 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 13 | 6.57 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 13 | 6.57 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 19 | 6.57 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 19 | 6.57 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 3 | 6.57 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 10 | 6.57 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 10 | 6.57 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 10 | 6.57 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 5 | 6.57 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 6.57 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 6.57 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 6.57 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 18 | 6.57 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 18 | 6.57 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 18 | 6.57 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 20 | 6.57 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 20 | 6.57 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 20 | 6.57 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 2 | 6.57 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 2 | 6.57 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 2 | 6.57 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 6 | 6.57 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 6 | 6.57 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 16 | 6.57 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 16 | 6.57 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 16 | 6.57 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 20 | 6.57 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 15 | 6.57 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 15 | 6.57 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 15 | 6.57 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 6.57 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 4 | 6.57 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 4 | 6.57 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 4 | 6.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 4 | 6.57 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 4 | 6.57 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 4 | 6.57 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 14 | 6.56 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 18 | 6.56 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 1 | 6.56 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 10 | 6.56 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 15 | 6.56 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 15 | 6.56 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 15 | 6.56 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 15 | 6.56 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 15 | 6.56 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 15 | 6.56 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 4 | 6.56 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 4 | 6.56 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 4 | 6.56 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 4 | 6.56 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 15 | 6.56 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 15 | 6.56 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 10 | 6.56 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 10 | 6.56 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 9 | 6.56 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 9 | 6.56 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 7 | 6.56 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 7 | 6.56 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 9 | 6.56 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 9 | 6.56 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 12 | 6.56 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 12 | 6.56 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 3 | 6.56 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 3 | 6.56 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 3 | 6.56 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 3 | 6.56 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 3 | 6.56 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 3 | 6.56 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 1 | 6.56 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 1 | 6.56 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 10 | 6.56 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 10 | 6.56 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 10 | 6.56 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 10 | 6.56 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 6 | 6.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 6 | 6.56 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 6 | 6.56 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 6 | 6.56 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 7 | 6.56 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 7 | 6.56 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 14 | 6.56 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 5 | 6.56 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 18 | 6.56 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 18 | 6.56 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 18 | 6.56 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 6 | 6.56 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 11 | 6.56 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 15 | 6.56 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 10 | 6.56 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 10 | 6.56 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 2 | 6.56 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 2 | 6.56 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 2 | 6.56 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 18 | 6.56 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 18 | 6.56 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 6 | 6.56 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 6 | 6.56 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 6 | 6.56 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 13 | 6.56 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 12 | 6.56 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 12 | 6.56 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 12 | 6.56 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 12 | 6.56 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 12 | 6.56 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 12 | 6.56 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 12 | 6.56 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 12 | 6.56 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 12 | 6.56 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 7 | 6.56 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 20 | 6.56 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 8 | 6.56 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 3 | 6.56 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 3 | 6.56 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 3 | 6.56 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 2 | 6.56 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 2 | 6.56 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 2 | 6.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 16 | 6.56 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 16 | 6.56 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 13 | 6.56 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 13 | 6.56 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 13 | 6.56 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 18 | 6.56 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 8 | 6.56 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 10 | 6.56 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 4 | 6.56 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 4 | 6.56 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 4 | 6.56 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 13 | 6.56 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 13 | 6.56 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 16 | 6.56 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 16 | 6.56 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 16 | 6.56 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 17 | 6.56 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 17 | 6.56 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 17 | 6.56 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 17 | 6.56 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 17 | 6.56 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 17 | 6.56 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 11 | 6.56 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 6 | 6.56 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 6 | 6.56 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 6 | 6.56 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 19 | 6.56 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 19 | 6.56 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 19 | 6.56 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 19 | 6.56 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 19 | 6.56 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 19 | 6.56 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 19 | 6.56 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 12 | 6.56 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 12 | 6.56 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 12 | 6.56 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 19 | 6.56 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 19 | 6.56 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 19 | 6.56 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 9 | 6.56 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 9 | 6.56 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 9 | 6.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 13 | 6.56 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 8 | 6.56 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 8 | 6.56 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 8 | 6.56 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 4 | 6.56 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 2 | 6.56 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 15 | 6.56 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 16 | 6.56 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 12 | 6.56 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 5 | 6.56 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 3 | 6.56 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 3 | 6.56 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 3 | 6.56 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 3 | 6.56 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 3 | 6.56 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 3 | 6.56 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 13 | 6.56 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 13 | 6.56 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 13 | 6.56 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 11 | 6.56 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 11 | 6.56 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 11 | 6.56 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 9 | 6.56 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 9 | 6.56 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 16 | 6.56 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 16 | 6.56 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 13 | 6.56 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 13 | 6.56 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 13 | 6.56 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 18 | 6.56 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 5 | 6.56 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 5 | 6.56 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 5 | 6.56 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 6 | 6.56 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 6 | 6.56 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 6 | 6.56 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 10 | 6.56 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 10 | 6.56 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 18 | 6.56 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 4 | 6.56 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 4 | 6.56 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 4 | 6.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 13 | 6.56 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 13 | 6.56 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 16 | 6.56 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 16 | 6.56 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 16 | 6.56 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 17 | 6.56 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 17 | 6.56 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 17 | 6.56 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 17 | 6.56 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 17 | 6.56 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 17 | 6.56 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 18 | 6.56 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 12 | 6.56 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 17 | 6.56 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 11 | 6.56 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 6 | 6.56 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 6 | 6.56 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 6 | 6.56 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 19 | 6.56 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 19 | 6.56 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 19 | 6.56 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 19 | 6.56 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 19 | 6.56 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 19 | 6.56 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 19 | 6.56 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 10 | 6.55 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 19 | 6.55 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 5 | 6.55 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 10 | 6.55 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 10 | 6.55 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 10 | 6.55 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 2 | 6.55 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 2 | 6.55 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 2 | 6.55 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 2 | 6.55 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 6 | 6.55 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 6 | 6.55 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 8 | 6.55 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 8 | 6.55 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 20 | 6.55 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 20 | 6.55 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 20 | 6.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 9 | 6.55 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 3 | 6.55 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 3 | 6.55 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 3 | 6.55 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 3 | 6.55 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 3 | 6.55 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 3 | 6.55 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 16 | 6.55 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 13 | 6.55 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 13 | 6.55 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 13 | 6.55 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 16 | 6.55 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 7 | 6.55 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 7 | 6.55 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 7 | 6.55 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 13 | 6.55 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 13 | 6.55 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 13 | 6.55 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 13 | 6.55 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 6 | 6.55 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 2 | 6.55 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 2 | 6.55 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 2 | 6.55 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 18 | 6.55 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 19 | 6.55 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 11 | 6.55 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 11 | 6.55 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 11 | 6.55 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 5 | 6.55 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 5 | 6.55 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 5 | 6.55 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 5 | 6.55 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 5 | 6.55 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 5 | 6.55 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 5 | 6.55 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 5 | 6.55 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 5 | 6.55 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 20 | 6.55 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 20 | 6.55 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 20 | 6.55 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 1 | 6.55 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 1 | 6.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 1 | 6.55 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 14 | 6.55 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 7 | 6.55 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 6 | 6.55 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 6 | 6.55 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 6 | 6.55 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 3 | 6.55 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 9 | 6.55 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 9 | 6.55 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 15 | 6.55 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 2 | 6.55 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 9 | 6.55 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 9 | 6.55 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 9 | 6.55 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 20 | 6.55 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 20 | 6.55 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 9 | 6.55 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 9 | 6.55 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 9 | 6.55 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 6.55 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 6.55 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 5 | 6.55 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 9 | 6.55 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 4 | 6.55 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 4 | 6.55 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 4 | 6.55 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 4 | 6.55 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 4 | 6.55 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 19 | 6.55 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 19 | 6.55 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 19 | 6.55 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 19 | 6.55 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 19 | 6.55 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 19 | 6.55 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 19 | 6.55 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 19 | 6.55 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 19 | 6.55 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 1 | 6.55 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 12 | 6.55 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 12 | 6.55 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 12 | 6.55 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 14 | 6.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 11 | 6.55 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 15 | 6.55 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 10 | 6.55 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 14 | 6.55 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 5 | 6.55 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 9 | 6.55 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 9 | 6.55 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 9 | 6.55 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 20 | 6.55 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 20 | 6.55 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 9 | 6.55 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 9 | 6.55 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 9 | 6.55 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 6.55 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 6.55 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 5 | 6.55 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 9 | 6.55 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 6 | 6.55 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 4 | 6.55 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 4 | 6.55 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 4 | 6.55 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 4 | 6.55 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 4 | 6.55 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 17 | 6.55 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 17 | 6.55 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 17 | 6.55 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 17 | 6.55 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 17 | 6.55 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 17 | 6.55 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 4 | 6.55 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 4 | 6.55 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 4 | 6.55 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 4 | 6.55 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 4 | 6.55 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 4 | 6.55 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 18 | 6.55 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 18 | 6.55 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 18 | 6.55 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 8 | 6.54 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 20 | 6.54 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 1 | 6.54 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 1 | 6.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 7 | 6.54 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 7 | 6.54 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 7 | 6.54 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 7 | 6.54 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 20 | 6.54 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 20 | 6.54 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 16 | 6.54 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 16 | 6.54 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 1 | 6.54 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 1 | 6.54 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 1 | 6.54 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 1 | 6.54 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 8 | 6.54 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 8 | 6.54 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 9 | 6.54 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 9 | 6.54 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 9 | 6.54 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 9 | 6.54 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 14 | 6.54 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 14 | 6.54 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 4 | 6.54 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 4 | 6.54 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 11 | 6.54 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 11 | 6.54 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 5 | 6.54 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 5 | 6.54 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 10 | 6.54 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 10 | 6.54 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 10 | 6.54 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 10 | 6.54 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 10 | 6.54 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 10 | 6.54 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 8 | 6.54 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 8 | 6.54 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 8 | 6.54 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 8 | 6.54 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 6 | 6.54 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 6 | 6.54 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 6 | 6.54 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 6 | 6.54 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 10 | 6.54 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 10 | 6.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 10 | 6.54 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 10 | 6.54 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 10 | 6.54 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 10 | 6.54 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 14 | 6.54 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 14 | 6.54 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 9 | 6.54 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 9 | 6.54 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 9 | 6.54 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 4 | 6.54 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 4 | 6.54 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 4 | 6.54 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 2 | 6.54 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 8 | 6.54 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 17 | 6.54 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 17 | 6.54 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 9 | 6.54 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 20 | 6.54 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 20 | 6.54 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 20 | 6.54 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 4 | 6.54 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 5 | 6.54 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 3 | 6.54 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 12 | 6.54 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 8 | 6.54 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 8 | 6.54 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 8 | 6.54 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 8 | 6.54 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 8 | 6.54 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 8 | 6.54 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 8 | 6.54 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 1 | 6.54 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 8 | 6.54 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 9 | 6.54 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 12 | 6.54 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 7 | 6.54 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 7 | 6.54 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 7 | 6.54 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 1 | 6.54 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 1 | 6.54 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 1 | 6.54 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 2 | 6.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 2 | 6.54 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 1 | 6.54 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 8 | 6.54 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 20 | 6.54 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 5 | 6.54 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 14 | 6.54 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 9 | 6.54 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 12 | 6.54 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 12 | 6.54 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 12 | 6.54 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 7 | 6.54 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 7 | 6.54 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 7 | 6.54 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 11 | 6.54 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 8 | 6.54 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 8 | 6.54 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 8 | 6.54 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 8 | 6.54 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 8 | 6.54 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 8 | 6.54 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 13 | 6.54 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 13 | 6.54 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 14 | 6.54 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 8 | 6.54 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 1 | 6.54 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 1 | 6.54 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 1 | 6.54 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 1 | 6.54 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 8 | 6.54 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 8 | 6.54 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 8 | 6.54 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 8 | 6.54 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 9 | 6.54 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 9 | 6.54 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 13 | 6.54 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 13 | 6.54 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 5 | 6.54 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 5 | 6.54 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 13 | 6.54 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 13 | 6.54 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 13 | 6.54 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 8 | 6.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 13 | 6.54 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 2 | 6.54 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 2 | 6.54 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 2 | 6.54 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 6.54 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 6.54 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 6.54 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 6.54 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 6.54 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 9 | 6.54 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 8 | 6.54 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 20 | 6.54 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 5 | 6.54 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 14 | 6.54 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 9 | 6.54 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 13 | 6.54 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 13 | 6.54 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 13 | 6.54 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 12 | 6.54 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 12 | 6.54 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 12 | 6.54 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 7 | 6.54 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 7 | 6.54 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 7 | 6.54 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 13 | 6.54 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 11 | 6.54 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 7 | 6.54 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 8 | 6.54 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 8 | 6.54 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 8 | 6.54 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 8 | 6.54 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 8 | 6.54 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 8 | 6.54 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 10 | 6.53 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 20 | 6.53 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 18 | 6.53 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 8 | 6.53 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 9 | 6.53 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 9 | 6.53 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 9 | 6.53 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 9 | 6.53 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 9 | 6.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 9 | 6.53 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 12 | 6.53 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 12 | 6.53 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 12 | 6.53 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 12 | 6.53 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 4 | 6.53 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 4 | 6.53 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 16 | 6.53 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 16 | 6.53 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 8 | 6.53 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 8 | 6.53 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 10 | 6.53 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 10 | 6.53 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 7 | 6.53 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 7 | 6.53 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 7 | 6.53 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 7 | 6.53 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 7 | 6.53 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 7 | 6.53 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 10 | 6.53 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 10 | 6.53 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 12 | 6.53 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 12 | 6.53 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 10 | 6.53 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 10 | 6.53 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 14 | 6.53 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 14 | 6.53 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 13 | 6.53 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 13 | 6.53 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 13 | 6.53 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 13 | 6.53 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 17 | 6.53 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 17 | 6.53 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 18 | 6.53 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 5 | 6.53 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 5 | 6.53 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 5 | 6.53 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 8 | 6.53 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 8 | 6.53 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 10 | 6.53 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 10 | 6.53 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 10 | 6.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 10 | 6.53 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 10 | 6.53 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 10 | 6.53 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 14 | 6.53 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 1 | 6.53 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 3 | 6.53 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 3 | 6.53 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 3 | 6.53 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 3 | 6.53 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 3 | 6.53 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 3 | 6.53 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 4 | 6.53 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 18 | 6.53 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 11 | 6.53 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 11 | 6.53 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 11 | 6.53 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 6 | 6.53 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 6 | 6.53 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 10 | 6.53 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 20 | 6.53 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 1 | 6.53 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 1 | 6.53 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 1 | 6.53 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 1 | 6.53 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 1 | 6.53 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 1 | 6.53 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 11 | 6.53 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 11 | 6.53 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 11 | 6.53 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 8 | 6.53 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 3 | 6.53 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 6 | 6.53 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 14 | 6.53 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 19 | 6.53 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 8 | 6.53 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 8 | 6.53 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 16 | 6.53 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 16 | 6.53 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 16 | 6.53 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 19 | 6.53 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 19 | 6.53 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 19 | 6.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 19 | 6.53 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 19 | 6.53 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 19 | 6.53 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 19 | 6.53 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 19 | 6.53 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 19 | 6.53 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 17 | 6.53 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 1 | 6.53 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 15 | 6.53 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 7 | 6.53 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 7 | 6.53 |
| (1,7518) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 17 | 6.53 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 6 | 6.53 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 1 | 6.53 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 3 | 6.53 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 16 | 6.53 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 3 | 6.53 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 3 | 6.53 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 18 | 6.53 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 18 | 6.53 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 18 | 6.53 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 13 | 6.53 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 13 | 6.53 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 13 | 6.53 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 4 | 6.53 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 4 | 6.53 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 4 | 6.53 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 16 | 6.53 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 16 | 6.53 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 16 | 6.53 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 6 | 6.53 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 6 | 6.53 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 6 | 6.53 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 7 | 6.53 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 7 | 6.53 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 7 | 6.53 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 16 | 6.53 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 16 | 6.53 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 16 | 6.53 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 12 | 6.53 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 12 | 6.53 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 12 | 6.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 12 | 6.53 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 6.53 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 6.53 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 6.53 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 16 | 6.53 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 16 | 6.53 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 8 | 6.53 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 8 | 6.53 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 10 | 6.53 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 10 | 6.53 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 11 | 6.53 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 11 | 6.53 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 11 | 6.53 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 7 | 6.53 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 7 | 6.53 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 7 | 6.53 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 7 | 6.53 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 7 | 6.53 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 7 | 6.53 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 12 | 6.53 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 12 | 6.53 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 3 | 6.53 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 5 | 6.53 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 18 | 6.53 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 16 | 6.53 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 16 | 6.53 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 16 | 6.53 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 11 | 6.53 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 1 | 6.53 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 1 | 6.53 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 16 | 6.53 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 16 | 6.53 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 9 | 6.53 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 9 | 6.53 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 3 | 6.53 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 3 | 6.53 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 6 | 6.53 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 6 | 6.53 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 6 | 6.53 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 13 | 6.53 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 13 | 6.53 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 13 | 6.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 8 | 6.53 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 8 | 6.53 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 8 | 6.53 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 6.53 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 6.53 |
| (1,2112) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 6.53 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 13 | 6.53 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 13 | 6.53 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 13 | 6.53 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 4 | 6.53 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 4 | 6.53 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 4 | 6.53 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 10 | 6.53 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 10 | 6.53 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 10 | 6.53 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 5 | 6.53 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 4 | 6.53 |
| (1,642) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 4 | 6.53 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 6 | 6.52 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 15 | 6.52 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 10 | 6.52 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 10 | 6.52 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 10 | 6.52 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 10 | 6.52 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 6 | 6.52 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 6 | 6.52 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 2 | 6.52 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 2 | 6.52 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 5 | 6.52 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 5 | 6.52 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 5 | 6.52 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 5 | 6.52 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 5 | 6.52 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 5 | 6.52 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 6.52 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 6.52 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 6.52 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 6.52 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 6.52 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 6.52 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 3 | 6.52 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 3 | 6.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 11 | 6.52 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 11 | 6.52 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 11 | 6.52 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 11 | 6.52 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 11 | 6.52 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 11 | 6.52 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 16 | 6.52 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 16 | 6.52 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 3 | 6.52 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 3 | 6.52 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 6 | 6.52 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 6 | 6.52 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 13 | 6.52 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 13 | 6.52 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 13 | 6.52 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 13 | 6.52 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 13 | 6.52 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 13 | 6.52 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 4 | 6.52 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 4 | 6.52 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 9 | 6.52 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 9 | 6.52 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 2 | 6.52 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 4 | 6.52 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 4 | 6.52 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 2 | 6.52 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 2 | 6.52 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 2 | 6.52 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 15 | 6.52 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 15 | 6.52 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 15 | 6.52 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 18 | 6.52 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 12 | 6.52 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 15 | 6.52 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 16 | 6.52 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 16 | 6.52 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 16 | 6.52 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 11 | 6.52 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 11 | 6.52 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 11 | 6.52 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 1 | 6.52 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 3 | 6.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 3 | 6.52 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 3 | 6.52 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 3 | 6.52 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 3 | 6.52 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 3 | 6.52 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 2 | 6.52 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 2 | 6.52 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 9 | 6.52 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 15 | 6.52 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 19 | 6.52 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 19 | 6.52 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 19 | 6.52 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 6 | 6.52 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 6 | 6.52 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 6 | 6.52 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 11 | 6.52 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 4 | 6.52 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 4 | 6.52 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 4 | 6.52 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 3 | 6.52 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 3 | 6.52 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 3 | 6.52 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 15 | 6.52 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 15 | 6.52 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 10 | 6.52 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 10 | 6.52 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 10 | 6.52 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 10 | 6.52 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 5 | 6.52 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 5 | 6.52 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 5 | 6.52 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 5 | 6.52 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 5 | 6.52 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 5 | 6.52 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 6.52 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 6.52 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 6.52 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 6.52 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 6.52 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 6.52 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 6 | 6.52 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 15 | 6.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 9 | 6.52 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 11 | 6.52 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 11 | 6.52 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 11 | 6.52 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 11 | 6.52 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 11 | 6.52 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 11 | 6.52 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 4 | 6.52 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 5 | 6.52 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 7 | 6.52 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 2 | 6.52 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 2 | 6.52 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 6.52 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 6.52 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 3 | 6.52 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 3 | 6.52 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 6 | 6.52 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 6 | 6.52 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 7 | 6.52 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 11 | 6.52 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 6 | 6.52 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 14 | 6.52 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 3 | 6.52 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 3 | 6.52 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 3 | 6.52 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 2 | 6.52 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 2 | 6.52 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 9 | 6.52 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 15 | 6.52 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 19 | 6.52 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 19 | 6.52 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 19 | 6.52 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 9 | 6.52 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 6 | 6.52 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 6 | 6.52 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 6 | 6.52 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 10 | 6.52 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 10 | 6.52 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 10 | 6.52 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 11 | 6.52 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 16 | 6.52 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 18 | 6.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 16 | 6.52 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 16 | 6.52 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 16 | 6.52 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 17 | 6.51 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 17 | 6.51 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 8 | 6.51 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 8 | 6.51 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 9 | 6.51 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 9 | 6.51 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 19 | 6.51 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 19 | 6.51 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 19 | 6.51 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 19 | 6.51 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 20 | 6.51 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 20 | 6.51 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 1 | 6.51 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 1 | 6.51 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 3 | 6.51 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 3 | 6.51 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 8 | 6.51 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 8 | 6.51 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 9 | 6.51 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 9 | 6.51 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 3 | 6.51 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 3 | 6.51 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 3 | 6.51 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 3 | 6.51 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 12 | 6.51 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 12 | 6.51 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 1 | 6.51 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 1 | 6.51 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 3 | 6.51 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 3 | 6.51 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 3 | 6.51 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 3 | 6.51 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 1 | 6.51 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 1 | 6.51 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 4 | 6.51 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 4 | 6.51 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 20 | 6.51 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 20 | 6.51 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 18 | 6.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 18 | 6.51 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 18 | 6.51 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 8 | 6.51 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 8 | 6.51 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 8 | 6.51 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 9 | 6.51 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 20 | 6.51 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 11 | 6.51 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 11 | 6.51 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 11 | 6.51 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 7 | 6.51 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 7 | 6.51 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 7 | 6.51 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 15 | 6.51 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 3 | 6.51 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 4 | 6.51 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 5 | 6.51 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 5 | 6.51 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 5 | 6.51 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 4 | 6.51 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 5 | 6.51 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 5 | 6.51 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 5 | 6.51 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 12 | 6.51 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 12 | 6.51 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 12 | 6.51 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 12 | 6.51 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 6 | 6.51 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 5 | 6.51 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 5 | 6.51 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 5 | 6.51 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 3 | 6.51 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 3 | 6.51 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 3 | 6.51 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 9 | 6.51 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 7 | 6.51 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 7 | 6.51 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 7 | 6.51 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 9 | 6.51 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 9 | 6.51 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 9 | 6.51 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 6 | 6.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 6 | 6.51 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 11 | 6.51 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 16 | 6.51 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 18 | 6.51 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 16 | 6.51 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 16 | 6.51 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 16 | 6.51 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 17 | 6.51 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 14 | 6.51 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 19 | 6.51 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 15 | 6.51 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 15 | 6.51 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 15 | 6.51 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 5 | 6.51 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 5 | 6.51 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 5 | 6.51 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 4 | 6.51 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 4 | 6.51 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 4 | 6.51 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 12 | 6.51 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 11 | 6.51 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 11 | 6.51 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 11 | 6.51 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 19 | 6.51 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 11 | 6.51 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 3 | 6.51 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 3 | 6.51 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 3 | 6.51 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 9 | 6.51 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 3 | 6.51 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 3 | 6.51 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 3 | 6.51 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 13 | 6.51 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 13 | 6.51 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 13 | 6.51 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 13 | 6.51 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 13 | 6.51 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 13 | 6.51 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 13 | 6.51 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 13 | 6.51 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 13 | 6.51 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 9 | 6.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 3 | 6.51 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 3 | 6.51 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 8 | 6.51 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 8 | 6.51 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 7 | 6.51 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 3 | 6.51 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 3 | 6.51 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 3 | 6.51 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 3 | 6.51 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 12 | 6.51 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 12 | 6.51 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 10 | 6.51 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 11 | 6.51 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 4 | 6.51 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 10 | 6.51 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 10 | 6.51 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 10 | 6.51 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 4 | 6.51 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 4 | 6.51 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 13 | 6.51 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 19 | 6.51 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 3 | 6.51 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 4 | 6.51 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 4 | 6.51 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 4 | 6.51 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 4 | 6.51 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 15 | 6.51 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 15 | 6.51 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 15 | 6.51 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 9 | 6.51 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 5 | 6.51 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 5 | 6.51 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 5 | 6.51 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 4 | 6.51 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 4 | 6.51 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 4 | 6.51 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 12 | 6.51 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 1 | 6.51 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 19 | 6.51 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 11 | 6.51 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 11 | 6.51 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 11 | 6.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 19 | 6.51 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 19 | 6.51 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 13 | 6.5 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 13 | 6.5 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 20 | 6.5 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 20 | 6.5 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 20 | 6.5 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 20 | 6.5 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 13 | 6.5 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 13 | 6.5 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 18 | 6.5 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 18 | 6.5 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 5 | 6.5 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 5 | 6.5 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 15 | 6.5 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 15 | 6.5 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 6 | 6.5 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 6 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 9 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 9 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 9 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 9 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 9 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 9 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 13 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 13 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 13 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 13 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 13 | 6.5 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 13 | 6.5 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 12 | 6.5 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 12 | 6.5 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 12 | 6.5 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 6 | 6.5 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 6 | 6.5 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 6 | 6.5 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 14 | 6.5 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 13 | 6.5 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 13 | 6.5 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 13 | 6.5 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 13 | 6.5 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 13 | 6.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 13 | 6.5 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 13 | 6.5 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 13 | 6.5 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 13 | 6.5 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 6 | 6.5 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 17 | 6.5 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 17 | 6.5 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 17 | 6.5 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 2 | 6.5 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 2 | 6.5 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 2 | 6.5 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 11 | 6.5 |
| (1,7843) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 4 | 6.5 |
| (1,7843) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 4 | 6.5 |
| (1,7843) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 4 | 6.5 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 5 | 6.5 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 5 | 6.5 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 5 | 6.5 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 15 | 6.5 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 15 | 6.5 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 15 | 6.5 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 20 | 6.5 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 2 | 6.5 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 5 | 6.5 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 9 | 6.5 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 20 | 6.5 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 6 | 6.5 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 8 | 6.5 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 17 | 6.5 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 5 | 6.5 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 5 | 6.5 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 5 | 6.5 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 5 | 6.5 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 5 | 6.5 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 8 | 6.5 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 8 | 6.5 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 12 | 6.5 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 12 | 6.5 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 12 | 6.5 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 12 | 6.5 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 12 | 6.5 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 12 | 6.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 6 | 6.5 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 6 | 6.5 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 6 | 6.5 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 6 | 6.5 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 6 | 6.5 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 6 | 6.5 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 6 | 6.5 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 6 | 6.5 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 6 | 6.5 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 5 | 6.5 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 5 | 6.5 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 5 | 6.5 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 5 | 6.5 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 10 | 6.5 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 3 | 6.5 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 3 | 6.5 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 3 | 6.5 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 11 | 6.5 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 8 | 6.5 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 8 | 6.5 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 8 | 6.5 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 19 | 6.5 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 3 | 6.5 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 3 | 6.5 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 3 | 6.5 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 19 | 6.5 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 13 | 6.5 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 13 | 6.5 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 14 | 6.5 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 8 | 6.5 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 3 | 6.5 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 18 | 6.5 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 18 | 6.5 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 3 | 6.5 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 3 | 6.5 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 18 | 6.5 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 18 | 6.5 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 18 | 6.5 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 10 | 6.5 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 6 | 6.5 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 6 | 6.5 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 6.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 13 | 6.5 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 13 | 6.5 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 10 | 6.5 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 17 | 6.5 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 17 | 6.5 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 17 | 6.5 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 17 | 6.5 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 5 | 6.5 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 5 | 6.5 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 5 | 6.5 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 5 | 6.5 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 5 | 6.5 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 8 | 6.5 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 8 | 6.5 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 12 | 6.5 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 12 | 6.5 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 12 | 6.5 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 12 | 6.5 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 12 | 6.5 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 12 | 6.5 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 20 | 6.5 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 19 | 6.5 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 8 | 6.5 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 6 | 6.5 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 6 | 6.5 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 6 | 6.5 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 6 | 6.5 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 6 | 6.5 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 6 | 6.5 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 6 | 6.5 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 6 | 6.5 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 6 | 6.5 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 6.5 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 6.5 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 9 | 6.5 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 9 | 6.5 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 9 | 6.5 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 5 | 6.5 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 5 | 6.5 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 5 | 6.5 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 5 | 6.5 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 10 | 6.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 3 | 6.5 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 3 | 6.5 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 3 | 6.5 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 11 | 6.5 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 8 | 6.5 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 8 | 6.5 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 8 | 6.5 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 19 | 6.5 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 5 | 6.5 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 5 | 6.5 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 17 | 6.5 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 17 | 6.5 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 17 | 6.5 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 12 | 6.49 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 6 | 6.49 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 6 | 6.49 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 8 | 6.49 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 8 | 6.49 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 15 | 6.49 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 15 | 6.49 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 3 | 6.49 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 3 | 6.49 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 3 | 6.49 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 3 | 6.49 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 3 | 6.49 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 3 | 6.49 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 11 | 6.49 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 11 | 6.49 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 15 | 6.49 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 15 | 6.49 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 11 | 6.49 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 11 | 6.49 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 17 | 6.49 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 17 | 6.49 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 10 | 6.49 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 10 | 6.49 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 10 | 6.49 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 10 | 6.49 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 12 | 6.49 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 12 | 6.49 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 4 | 6.49 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 4 | 6.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 4 | 6.49 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 9 | 6.49 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 9 | 6.49 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 5 | 6.49 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 11 | 6.49 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 4 | 6.49 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 18 | 6.49 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 5 | 6.49 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 5 | 6.49 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 5 | 6.49 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 9 | 6.49 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 19 | 6.49 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 6 | 6.49 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 18 | 6.49 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 18 | 6.49 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 18 | 6.49 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 8 | 6.49 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 8 | 6.49 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 8 | 6.49 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 5 | 6.49 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 5 | 6.49 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 5 | 6.49 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 5 | 6.49 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 10 | 6.49 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 20 | 6.49 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 20 | 6.49 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 20 | 6.49 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 18 | 6.49 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 18 | 6.49 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 18 | 6.49 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 19 | 6.49 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 19 | 6.49 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 19 | 6.49 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 19 | 6.49 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 19 | 6.49 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 19 | 6.49 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 14 | 6.49 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 14 | 6.49 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 14 | 6.49 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 14 | 6.49 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 14 | 6.49 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 14 | 6.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 14 | 6.49 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 14 | 6.49 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 14 | 6.49 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 8 | 6.49 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 8 | 6.49 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 8 | 6.49 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 7 | 6.49 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 3 | 6.49 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 3 | 6.49 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 3 | 6.49 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 3 | 6.49 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 3 | 6.49 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 3 | 6.49 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 9 | 6.49 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 2 | 6.49 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 2 | 6.49 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 2 | 6.49 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 12 | 6.49 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 7 | 6.49 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 7 | 6.49 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 7 | 6.49 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 3 | 6.49 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 3 | 6.49 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 3 | 6.49 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 11 | 6.49 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 11 | 6.49 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 11 | 6.49 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 11 | 6.49 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 11 | 6.49 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 11 | 6.49 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 11 | 6.49 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 15 | 6.49 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 6 | 6.49 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 13 | 6.49 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 1 | 6.49 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 4 | 6.49 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 4 | 6.49 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 4 | 6.49 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 6 | 6.49 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 12 | 6.49 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 12 | 6.49 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 12 | 6.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 6 | 6.49 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 9 | 6.49 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 5 | 6.49 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 5 | 6.49 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 5 | 6.49 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 6.49 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 6 | 6.49 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 6 | 6.49 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 4 | 6.49 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 14 | 6.49 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 14 | 6.49 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 14 | 6.49 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 14 | 6.49 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 14 | 6.49 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 14 | 6.49 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 14 | 6.49 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 14 | 6.49 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 14 | 6.49 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 8 | 6.49 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 8 | 6.49 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 8 | 6.49 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 8 | 6.49 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 8 | 6.49 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 8 | 6.49 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 15 | 6.49 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 15 | 6.49 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 15 | 6.49 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 2 | 6.49 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 2 | 6.49 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 2 | 6.49 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 2 | 6.49 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 2 | 6.49 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 2 | 6.49 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 7 | 6.49 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 3 | 6.49 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 3 | 6.49 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 3 | 6.49 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 3 | 6.49 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 3 | 6.49 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 3 | 6.49 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 2 | 6.49 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 3 | 6.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 17 | 6.48 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 20 | 6.48 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 20 | 6.48 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 2 | 6.48 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 2 | 6.48 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 2 | 6.48 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 2 | 6.48 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 2 | 6.48 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 2 | 6.48 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 19 | 6.48 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 19 | 6.48 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 19 | 6.48 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 19 | 6.48 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 5 | 6.48 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 5 | 6.48 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 14 | 6.48 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 14 | 6.48 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 14 | 6.48 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 14 | 6.48 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 4 | 6.48 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 4 | 6.48 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 20 | 6.48 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 20 | 6.48 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 20 | 6.48 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 20 | 6.48 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 20 | 6.48 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 20 | 6.48 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 3 | 6.48 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 3 | 6.48 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 7 | 6.48 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 7 | 6.48 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 20 | 6.48 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 20 | 6.48 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 13 | 6.48 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 13 | 6.48 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 11 | 6.48 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 11 | 6.48 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 11 | 6.48 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 11 | 6.48 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 11 | 6.48 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 11 | 6.48 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 10 | 6.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 10 | 6.48 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 10 | 6.48 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 10 | 6.48 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 10 | 6.48 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 10 | 6.48 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 10 | 6.48 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 10 | 6.48 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 10 | 6.48 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 18 | 6.48 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 18 | 6.48 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 18 | 6.48 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 16 | 6.48 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 16 | 6.48 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 16 | 6.48 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 16 | 6.48 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 16 | 6.48 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 16 | 6.48 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 16 | 6.48 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 16 | 6.48 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 16 | 6.48 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 4 | 6.48 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 4 | 6.48 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 4 | 6.48 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 20 | 6.48 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 20 | 6.48 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 20 | 6.48 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 6 | 6.48 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 7 | 6.48 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 9 | 6.48 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 9 | 6.48 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 9 | 6.48 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 14 | 6.48 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 14 | 6.48 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 14 | 6.48 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 14 | 6.48 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 14 | 6.48 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 14 | 6.48 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 2 | 6.48 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 17 | 6.48 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 13 | 6.48 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 7 | 6.48 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 7 | 6.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 7 | 6.48 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 13 | 6.48 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 13 | 6.48 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 13 | 6.48 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 1 | 6.48 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 1 | 6.48 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 1 | 6.48 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 14 | 6.48 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 1 | 6.48 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 20 | 6.48 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 20 | 6.48 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 18 | 6.48 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 1 | 6.48 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 1 | 6.48 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 5 | 6.48 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 5 | 6.48 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 5 | 6.48 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 15 | 6.48 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 15 | 6.48 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 4 | 6.48 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 4 | 6.48 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 4 | 6.48 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 4 | 6.48 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 4 | 6.48 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 4 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 3 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 3 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 3 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 3 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 3 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 3 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 3 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 3 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 3 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 8 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 8 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 8 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 8 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 8 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 8 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 8 | 6.48 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 8 | 6.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 8 | 6.48 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 2 | 6.48 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 2 | 6.48 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 2 | 6.48 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 2 | 6.48 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 2 | 6.48 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 2 | 6.48 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 19 | 6.48 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 19 | 6.48 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 19 | 6.48 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 19 | 6.48 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 4 | 6.48 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 4 | 6.48 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 6.48 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 6.48 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 6.48 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 6.48 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 6.48 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 6.48 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 6 | 6.48 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 4 | 6.48 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 4 | 6.48 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 4 | 6.48 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 11 | 6.48 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 11 | 6.48 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 11 | 6.48 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 11 | 6.48 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 11 | 6.48 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 11 | 6.48 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 2 | 6.48 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 6.48 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 20 | 6.48 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 20 | 6.48 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 6.48 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 6.48 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 6.48 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 7 | 6.48 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 6.48 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 7 | 6.48 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 11 | 6.48 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 18 | 6.48 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 18 | 6.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 18 | 6.48 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 1 | 6.48 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 20 | 6.48 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 20 | 6.48 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 18 | 6.48 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 1 | 6.48 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 1 | 6.48 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 5 | 6.48 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 5 | 6.48 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 5 | 6.48 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 15 | 6.48 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 4 | 6.48 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 4 | 6.48 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 4 | 6.48 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 15 | 6.48 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 12 | 6.48 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 4 | 6.48 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 4 | 6.48 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 4 | 6.48 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 4 | 6.48 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 4 | 6.48 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 4 | 6.48 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 13 | 6.47 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 11 | 6.47 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 4 | 6.47 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 4 | 6.47 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 1 | 6.47 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 1 | 6.47 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 16 | 6.47 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 16 | 6.47 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 16 | 6.47 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 16 | 6.47 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 16 | 6.47 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 16 | 6.47 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 6 | 6.47 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 6 | 6.47 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 6 | 6.47 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 6 | 6.47 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 6 | 6.47 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 6 | 6.47 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 17 | 6.47 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 17 | 6.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 16 | 6.47 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 16 | 6.47 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 12 | 6.47 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 17 | 6.47 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 17 | 6.47 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 17 | 6.47 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 17 | 6.47 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 5 | 6.47 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 12 | 6.47 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 12 | 6.47 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 3 | 6.47 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 1 | 6.47 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 1 | 6.47 |
| (1,7991) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 1 | 6.47 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 1 | 6.47 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 14 | 6.47 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 13 | 6.47 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 12 | 6.47 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 3 | 6.47 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 11 | 6.47 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 11 | 6.47 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 11 | 6.47 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 1 | 6.47 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 1 | 6.47 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 1 | 6.47 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 1 | 6.47 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 1 | 6.47 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 1 | 6.47 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 13 | 6.47 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 13 | 6.47 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 13 | 6.47 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 16 | 6.47 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 16 | 6.47 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 16 | 6.47 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 4 | 6.47 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 14 | 6.47 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 4 | 6.47 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 5 | 6.47 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 5 | 6.47 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 5 | 6.47 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 6 | 6.47 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 6 | 6.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 6 | 6.47 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 7 | 6.47 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 7 | 6.47 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 13 | 6.47 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 3 | 6.47 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 17 | 6.47 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 11 | 6.47 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 11 | 6.47 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 11 | 6.47 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 20 | 6.47 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 10 | 6.47 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 18 | 6.47 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 12 | 6.47 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 12 | 6.47 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 12 | 6.47 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 12 | 6.47 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 12 | 6.47 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 12 | 6.47 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 6 | 6.47 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 6 | 6.47 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 6 | 6.47 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 17 | 6.47 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 13 | 6.47 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 13 | 6.47 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 13 | 6.47 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 17 | 6.47 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 17 | 6.47 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 17 | 6.47 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 7 | 6.47 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 5 | 6.47 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 5 | 6.47 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 4 | 6.47 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 4 | 6.47 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 4 | 6.47 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 1 | 6.47 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 16 | 6.47 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 16 | 6.47 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 16 | 6.47 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 16 | 6.47 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 16 | 6.47 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 16 | 6.47 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 6 | 6.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 6 | 6.47 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 6 | 6.47 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 6 | 6.47 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 6 | 6.47 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 6 | 6.47 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 17 | 6.47 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 17 | 6.47 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 19 | 6.47 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 19 | 6.47 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 19 | 6.47 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 9 | 6.47 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 17 | 6.47 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 16 | 6.47 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 16 | 6.47 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 16 | 6.47 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 6.47 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 6.47 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 15 | 6.47 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 14 | 6.47 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 14 | 6.47 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 14 | 6.47 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 13 | 6.47 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 3 | 6.47 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 16 | 6.47 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 6.47 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 16 | 6.47 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 17 | 6.47 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 17 | 6.47 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 18 | 6.47 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 11 | 6.47 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 11 | 6.47 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 11 | 6.47 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 20 | 6.47 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 2 | 6.47 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 2 | 6.47 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 9 | 6.47 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 9 | 6.47 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 9 | 6.47 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 10 | 6.47 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 17 | 6.47 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 6 | 6.47 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 6 | 6.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 6 | 6.47 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 18 | 6.47 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 12 | 6.47 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 12 | 6.47 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 12 | 6.47 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 12 | 6.47 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 12 | 6.47 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 12 | 6.47 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 16 | 6.46 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 6 | 6.46 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 11 | 6.46 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 11 | 6.46 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 10 | 6.46 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 10 | 6.46 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 10 | 6.46 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 10 | 6.46 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 6.46 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 6.46 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 6.46 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 6.46 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 6.46 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 6.46 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 17 | 6.46 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 17 | 6.46 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 6.46 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 6.46 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 6.46 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 6.46 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 6.46 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 6.46 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 6 | 6.46 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 6 | 6.46 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 6 | 6.46 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 6 | 6.46 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 7 | 6.46 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 7 | 6.46 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 11 | 6.46 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 11 | 6.46 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 6 | 6.46 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 6 | 6.46 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 2 | 6.46 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 2 | 6.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 2 | 6.46 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 2 | 6.46 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 16 | 6.46 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 16 | 6.46 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 16 | 6.46 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 14 | 6.46 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 14 | 6.46 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 14 | 6.46 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 9 | 6.46 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 9 | 6.46 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 9 | 6.46 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 16 | 6.46 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 8 | 6.46 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 8 | 6.46 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 8 | 6.46 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 8 | 6.46 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 8 | 6.46 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 16 | 6.46 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 16 | 6.46 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 16 | 6.46 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 17 | 6.46 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 11 | 6.46 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 5 | 6.46 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 8 | 6.46 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 8 | 6.46 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 18 | 6.46 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 18 | 6.46 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 18 | 6.46 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 19 | 6.46 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 7 | 6.46 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 7 | 6.46 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 18 | 6.46 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 18 | 6.46 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 10 | 6.46 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 10 | 6.46 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 10 | 6.46 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 10 | 6.46 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 10 | 6.46 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 10 | 6.46 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 10 | 6.46 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 10 | 6.46 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 10 | 6.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 16 | 6.46 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 12 | 6.46 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 12 | 6.46 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 12 | 6.46 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 6 | 6.46 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 8 | 6.46 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 12 | 6.46 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 13 | 6.46 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 6 | 6.46 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 6 | 6.46 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 18 | 6.46 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 18 | 6.46 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 9 | 6.46 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 9 | 6.46 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 9 | 6.46 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 8 | 6.46 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 8 | 6.46 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 8 | 6.46 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 11 | 6.46 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 4 | 6.46 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 4 | 6.46 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 4 | 6.46 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 2 | 6.46 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 2 | 6.46 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 18 | 6.46 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 18 | 6.46 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 18 | 6.46 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 18 | 6.46 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 18 | 6.46 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 18 | 6.46 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 3 | 6.46 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 8 | 6.46 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 14 | 6.46 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 5 | 6.46 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 17 | 6.46 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 17 | 6.46 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 17 | 6.46 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 10 | 6.46 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 10 | 6.46 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 2 | 6.46 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 6.46 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 6.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 6.46 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 6.46 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 6.46 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 6.46 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 17 | 6.46 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 17 | 6.46 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 6.46 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 6.46 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 6.46 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 6.46 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 6.46 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 6.46 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 18 | 6.46 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 6 | 6.46 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 6 | 6.46 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 6 | 6.46 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 6 | 6.46 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 7 | 6.46 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 7 | 6.46 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 12 | 6.46 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 9 | 6.46 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 9 | 6.46 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 9 | 6.46 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 9 | 6.46 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 9 | 6.46 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 14 | 6.46 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 6 | 6.46 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 6 | 6.46 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 6 | 6.46 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 6 | 6.46 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 2 | 6.46 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 8 | 6.46 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 8 | 6.46 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 8 | 6.46 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 16 | 6.46 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 8 | 6.46 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 8 | 6.46 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 11 | 6.46 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 4 | 6.46 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 4 | 6.46 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 4 | 6.46 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 19 | 6.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 19 | 6.46 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 2 | 6.46 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 11 | 6.46 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 11 | 6.46 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 11 | 6.46 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 5 | 6.46 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 20 | 6.46 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 13 | 6.46 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 13 | 6.46 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 13 | 6.46 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 13 | 6.46 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 13 | 6.46 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 13 | 6.46 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 2 | 6.46 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 18 | 6.46 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 18 | 6.46 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 18 | 6.46 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 18 | 6.46 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 18 | 6.46 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 18 | 6.46 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 14 | 6.46 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 14 | 6.46 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 14 | 6.46 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 3 | 6.46 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 2 | 6.45 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 13 | 6.45 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 7 | 6.45 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 7 | 6.45 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 7 | 6.45 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 7 | 6.45 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 7 | 6.45 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 7 | 6.45 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 14 | 6.45 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 14 | 6.45 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 14 | 6.45 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 14 | 6.45 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 7 | 6.45 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 7 | 6.45 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 6.45 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 6.45 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 6.45 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 6.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 6.45 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 6.45 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 7 | 6.45 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 7 | 6.45 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 6 | 6.45 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 6 | 6.45 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 1 | 6.45 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 1 | 6.45 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 12 | 6.45 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 12 | 6.45 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 1 | 6.45 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 1 | 6.45 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 9 | 6.45 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 9 | 6.45 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 18 | 6.45 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 18 | 6.45 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 18 | 6.45 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 18 | 6.45 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 18 | 6.45 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 18 | 6.45 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 19 | 6.45 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 19 | 6.45 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 19 | 6.45 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 19 | 6.45 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 3 | 6.45 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 3 | 6.45 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 9 | 6.45 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 9 | 6.45 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 9 | 6.45 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 9 | 6.45 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 17 | 6.45 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 17 | 6.45 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 17 | 6.45 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 17 | 6.45 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 17 | 6.45 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 17 | 6.45 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 15 | 6.45 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 15 | 6.45 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 6 | 6.45 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 6 | 6.45 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 6 | 6.45 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 8 | 6.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 8 | 6.45 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 8 | 6.45 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 8 | 6.45 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 3 | 6.45 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 18 | 6.45 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 18 | 6.45 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 4 | 6.45 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 6 | 6.45 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 20 | 6.45 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 19 | 6.45 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 19 | 6.45 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 7 | 6.45 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 7 | 6.45 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 7 | 6.45 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 19 | 6.45 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 19 | 6.45 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 16 | 6.45 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 16 | 6.45 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 16 | 6.45 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 8 | 6.45 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 11 | 6.45 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 15 | 6.45 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 15 | 6.45 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 15 | 6.45 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 13 | 6.45 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 20 | 6.45 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 20 | 6.45 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 11 | 6.45 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 11 | 6.45 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 14 | 6.45 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 14 | 6.45 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 14 | 6.45 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 3 | 6.45 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 13 | 6.45 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 13 | 6.45 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 5 | 6.45 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 5 | 6.45 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 5 | 6.45 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 10 | 6.45 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 10 | 6.45 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 10 | 6.45 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 10 | 6.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 8 | 6.45 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 2 | 6.45 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 2 | 6.45 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 12 | 6.45 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 12 | 6.45 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 12 | 6.45 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 16 | 6.45 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 16 | 6.45 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 16 | 6.45 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 15 | 6.45 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 15 | 6.45 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 15 | 6.45 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 15 | 6.45 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 16 | 6.45 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 6.45 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 6.45 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 6.45 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 6.45 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 6.45 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 6.45 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 6.45 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 6.45 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 6.45 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 6.45 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 6 | 6.45 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 6 | 6.45 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 6 | 6.45 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 5 | 6.45 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 2 | 6.45 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 9 | 6.45 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 9 | 6.45 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 11 | 6.45 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 11 | 6.45 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 11 | 6.45 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 17 | 6.45 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 18 | 6.45 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 18 | 6.45 |
| (1,3694) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 18 | 6.45 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 11 | 6.45 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 7 | 6.45 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 10 | 6.45 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 10 | 6.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 10 | 6.45 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 17 | 6.45 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 2 | 6.45 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 2 | 6.45 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 7 | 6.45 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 3 | 6.45 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 3 | 6.45 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 3 | 6.45 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 6.45 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 6.45 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 6.45 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 12 | 6.45 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 12 | 6.45 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 12 | 6.45 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 12 | 6.45 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 6.45 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 16 | 6.45 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 16 | 6.45 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 16 | 6.45 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 15 | 6.45 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 5 | 6.45 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 5 | 6.45 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 5 | 6.45 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 15 | 6.45 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 15 | 6.45 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 15 | 6.45 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 5 | 6.44 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 7 | 6.44 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 7 | 6.44 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 7 | 6.44 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 14 | 6.44 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 14 | 6.44 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 14 | 6.44 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 14 | 6.44 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 3 | 6.44 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 3 | 6.44 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 5 | 6.44 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 5 | 6.44 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 5 | 6.44 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 5 | 6.44 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 5 | 6.44 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 5 | 6.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 1 | 6.44 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 1 | 6.44 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 8 | 6.44 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 8 | 6.44 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 10 | 6.44 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 10 | 6.44 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 20 | 6.44 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 20 | 6.44 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 12 | 6.44 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 12 | 6.44 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 1 | 6.44 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 1 | 6.44 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 1 | 6.44 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 1 | 6.44 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 19 | 6.44 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 19 | 6.44 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 17 | 6.44 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 17 | 6.44 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 17 | 6.44 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 17 | 6.44 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 17 | 6.44 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 17 | 6.44 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 15 | 6.44 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 15 | 6.44 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 15 | 6.44 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 17 | 6.44 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 17 | 6.44 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 17 | 6.44 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 11 | 6.44 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 9 | 6.44 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 20 | 6.44 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 15 | 6.44 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 15 | 6.44 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 20 | 6.44 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 20 | 6.44 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 20 | 6.44 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 13 | 6.44 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 5 | 6.44 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 15 | 6.44 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 15 | 6.44 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 15 | 6.44 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 16 | 6.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 16 | 6.44 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 16 | 6.44 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 4 | 6.44 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 4 | 6.44 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 4 | 6.44 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 4 | 6.44 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 2 | 6.44 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 10 | 6.44 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 10 | 6.44 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 10 | 6.44 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 7 | 6.44 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 7 | 6.44 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 7 | 6.44 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 7 | 6.44 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 7 | 6.44 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 7 | 6.44 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 13 | 6.44 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 14 | 6.44 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 5 | 6.44 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 5 | 6.44 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 5 | 6.44 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 18 | 6.44 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 18 | 6.44 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 14 | 6.44 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 2 | 6.44 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 2 | 6.44 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 2 | 6.44 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 2 | 6.44 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 6 | 6.44 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 6 | 6.44 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 6 | 6.44 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 2 | 6.44 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 20 | 6.44 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 8 | 6.44 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 8 | 6.44 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 8 | 6.44 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 9 | 6.44 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 18 | 6.44 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 18 | 6.44 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 18 | 6.44 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 18 | 6.44 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 18 | 6.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 18 | 6.44 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 18 | 6.44 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 18 | 6.44 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 18 | 6.44 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 5 | 6.44 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 1 | 6.44 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 1 | 6.44 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 1 | 6.44 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 13 | 6.44 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 13 | 6.44 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 13 | 6.44 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 13 | 6.44 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 19 | 6.44 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 14 | 6.44 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 14 | 6.44 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 14 | 6.44 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 14 | 6.44 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 12 | 6.44 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 3 | 6.44 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 3 | 6.44 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 5 | 6.44 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 5 | 6.44 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 5 | 6.44 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 5 | 6.44 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 5 | 6.44 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 5 | 6.44 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 14 | 6.44 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 7 | 6.44 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 8 | 6.44 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 1 | 6.44 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 1 | 6.44 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 1 | 6.44 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 1 | 6.44 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 17 | 6.44 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 17 | 6.44 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 1 | 6.44 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 1 | 6.44 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 1 | 6.44 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 9 | 6.44 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 9 | 6.44 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 9 | 6.44 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 2 | 6.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 17 | 6.44 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 17 | 6.44 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 2 | 6.44 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 2 | 6.44 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 2 | 6.44 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 2 | 6.44 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 11 | 6.44 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 11 | 6.44 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 15 | 6.44 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 6 | 6.44 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 6 | 6.44 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 6 | 6.44 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 2 | 6.44 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 20 | 6.44 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 8 | 6.44 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 8 | 6.44 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 8 | 6.44 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 9 | 6.44 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 17 | 6.43 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 1 | 6.43 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 11 | 6.43 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 15 | 6.43 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 15 | 6.43 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 10 | 6.43 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 10 | 6.43 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 10 | 6.43 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 10 | 6.43 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 20 | 6.43 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 20 | 6.43 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 20 | 6.43 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 6.43 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 6.43 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 6.43 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 9 | 6.43 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 9 | 6.43 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 9 | 6.43 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 9 | 6.43 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 9 | 6.43 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 9 | 6.43 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 17 | 6.43 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 17 | 6.43 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 18 | 6.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 18 | 6.43 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 10 | 6.43 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 10 | 6.43 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 18 | 6.43 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 18 | 6.43 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 15 | 6.43 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 15 | 6.43 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 16 | 6.43 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 16 | 6.43 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 16 | 6.43 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 16 | 6.43 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 13 | 6.43 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 13 | 6.43 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 13 | 6.43 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 3 | 6.43 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 11 | 6.43 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 11 | 6.43 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 11 | 6.43 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 12 | 6.43 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 17 | 6.43 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 14 | 6.43 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 2 | 6.43 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 14 | 6.43 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 14 | 6.43 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 15 | 6.43 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 15 | 6.43 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 15 | 6.43 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 13 | 6.43 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 18 | 6.43 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 7 | 6.43 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 7 | 6.43 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 7 | 6.43 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 12 | 6.43 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 12 | 6.43 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 12 | 6.43 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 20 | 6.43 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 14 | 6.43 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 14 | 6.43 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 10 | 6.43 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 16 | 6.43 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 16 | 6.43 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 16 | 6.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 16 | 6.43 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 16 | 6.43 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 9 | 6.43 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 2 | 6.43 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 2 | 6.43 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 2 | 6.43 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 19 | 6.43 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 19 | 6.43 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 19 | 6.43 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 16 | 6.43 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 16 | 6.43 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 16 | 6.43 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 16 | 6.43 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 16 | 6.43 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 16 | 6.43 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 11 | 6.43 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 11 | 6.43 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 11 | 6.43 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 10 | 6.43 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 5 | 6.43 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 5 | 6.43 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 3 | 6.43 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 18 | 6.43 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 18 | 6.43 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 18 | 6.43 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 12 | 6.43 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 2 | 6.43 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 2 | 6.43 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 2 | 6.43 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 8 | 6.43 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 8 | 6.43 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 8 | 6.43 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 8 | 6.43 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 8 | 6.43 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 8 | 6.43 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 16 | 6.43 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 16 | 6.43 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 16 | 6.43 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 16 | 6.43 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 16 | 6.43 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 16 | 6.43 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 16 | 6.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 16 | 6.43 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 16 | 6.43 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 5 | 6.43 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 15 | 6.43 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 15 | 6.43 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 4 | 6.43 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 5 | 6.43 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 9 | 6.43 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 9 | 6.43 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 9 | 6.43 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 9 | 6.43 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 9 | 6.43 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 9 | 6.43 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 16 | 6.43 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 6 | 6.43 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 1 | 6.43 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 6.43 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 2 | 6.43 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 2 | 6.43 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 2 | 6.43 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 6.43 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 6.43 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 5 | 6.43 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 5 | 6.43 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 1 | 6.43 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 3 | 6.43 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 19 | 6.43 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 19 | 6.43 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 19 | 6.43 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 6.43 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 10 | 6.43 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 18 | 6.43 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 18 | 6.43 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 18 | 6.43 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 12 | 6.43 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 12 | 6.43 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 12 | 6.43 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 12 | 6.43 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 2 | 6.43 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 2 | 6.43 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 2 | 6.43 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 8 | 6.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 8 | 6.43 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 8 | 6.43 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 8 | 6.43 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 8 | 6.43 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 8 | 6.43 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 6.43 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 18 | 6.43 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 5 | 6.43 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 4 | 6.42 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 11 | 6.42 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 11 | 6.42 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 11 | 6.42 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 11 | 6.42 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 11 | 6.42 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 11 | 6.42 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 16 | 6.42 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 16 | 6.42 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 7 | 6.42 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 7 | 6.42 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 7 | 6.42 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 7 | 6.42 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 13 | 6.42 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 13 | 6.42 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 10 | 6.42 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 10 | 6.42 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 20 | 6.42 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 20 | 6.42 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 20 | 6.42 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 20 | 6.42 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 20 | 6.42 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 20 | 6.42 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 17 | 6.42 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 17 | 6.42 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 17 | 6.42 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 17 | 6.42 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 3 | 6.42 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 3 | 6.42 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 20 | 6.42 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 12 | 6.42 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 12 | 6.42 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 12 | 6.42 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 12 | 6.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 2 | 6.42 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 2 | 6.42 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 12 | 6.42 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 12 | 6.42 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 12 | 6.42 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 17 | 6.42 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 17 | 6.42 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 20 | 6.42 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 3 | 6.42 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 11 | 6.42 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 11 | 6.42 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 11 | 6.42 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 10 | 6.42 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 4 | 6.42 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 4 | 6.42 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 4 | 6.42 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 12 | 6.42 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 12 | 6.42 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 12 | 6.42 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 9 | 6.42 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 13 | 6.42 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 13 | 6.42 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 19 | 6.42 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 19 | 6.42 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 19 | 6.42 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 7 | 6.42 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 7 | 6.42 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 7 | 6.42 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 16 | 6.42 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 18 | 6.42 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 8 | 6.42 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 15 | 6.42 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 6 | 6.42 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 5 | 6.42 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 16 | 6.42 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 16 | 6.42 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 13 | 6.42 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 9 | 6.42 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 6 | 6.42 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 6 | 6.42 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 6 | 6.42 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 9 | 6.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 15 | 6.42 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 15 | 6.42 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 15 | 6.42 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 5 | 6.42 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 5 | 6.42 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 16 | 6.42 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 16 | 6.42 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 16 | 6.42 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 16 | 6.42 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 16 | 6.42 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 16 | 6.42 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 1 | 6.42 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 1 | 6.42 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 1 | 6.42 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 18 | 6.42 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 18 | 6.42 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 18 | 6.42 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 6.42 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 6.42 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 6.42 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 20 | 6.42 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 20 | 6.42 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 20 | 6.42 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 17 | 6.42 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 16 | 6.42 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 3 | 6.42 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 3 | 6.42 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 3 | 6.42 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 10 | 6.42 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 10 | 6.42 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 10 | 6.42 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 6 | 6.42 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 6 | 6.42 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 6.42 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 6.42 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 6.42 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 16 | 6.42 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 1 | 6.42 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 8 | 6.42 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 12 | 6.42 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 12 | 6.42 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 10 | 6.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 10 | 6.42 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 6 | 6.42 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 6 | 6.42 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 18 | 6.42 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 18 | 6.42 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 6 | 6.42 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 14 | 6.42 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 14 | 6.42 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 14 | 6.42 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 14 | 6.42 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 12 | 6.42 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 10 | 6.42 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 11 | 6.42 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 11 | 6.42 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 11 | 6.42 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 4 | 6.42 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 4 | 6.42 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 13 | 6.42 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 9 | 6.42 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 6 | 6.42 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 6 | 6.42 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 6 | 6.42 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 9 | 6.42 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 9 | 6.42 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 9 | 6.42 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 11 | 6.42 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 11 | 6.42 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 11 | 6.42 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 9 | 6.42 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 13 | 6.42 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 2 | 6.42 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 3 | 6.42 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 3 | 6.42 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 3 | 6.42 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 15 | 6.42 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 15 | 6.42 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 15 | 6.42 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 15 | 6.42 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 15 | 6.42 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 15 | 6.42 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 15 | 6.42 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 5 | 6.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 5 | 6.42 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 10 | 6.42 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 3 | 6.42 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 3 | 6.42 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 16 | 6.42 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 16 | 6.42 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 16 | 6.42 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 16 | 6.42 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 16 | 6.42 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 16 | 6.42 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 3 | 6.42 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 17 | 6.41 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 14 | 6.41 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 14 | 6.41 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 14 | 6.41 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 14 | 6.41 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 8 | 6.41 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 8 | 6.41 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 8 | 6.41 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 8 | 6.41 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 8 | 6.41 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 8 | 6.41 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 15 | 6.41 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 15 | 6.41 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 2 | 6.41 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 2 | 6.41 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 16 | 6.41 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 16 | 6.41 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 6 | 6.41 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 6 | 6.41 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 6 | 6.41 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 6 | 6.41 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 6 | 6.41 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 6 | 6.41 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 13 | 6.41 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 13 | 6.41 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 3 | 6.41 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 3 | 6.41 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 10 | 6.41 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 10 | 6.41 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 10 | 6.41 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 10 | 6.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 10 | 6.41 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 10 | 6.41 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 19 | 6.41 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 19 | 6.41 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 17 | 6.41 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 17 | 6.41 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 6.41 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 6.41 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 2 | 6.41 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 2 | 6.41 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 11 | 6.41 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 11 | 6.41 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 13 | 6.41 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 13 | 6.41 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 13 | 6.41 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 13 | 6.41 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 18 | 6.41 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 18 | 6.41 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 5 | 6.41 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 5 | 6.41 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 5 | 6.41 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 3 | 6.41 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 15 | 6.41 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 15 | 6.41 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 15 | 6.41 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 18 | 6.41 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 18 | 6.41 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 18 | 6.41 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 7 | 6.41 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 7 | 6.41 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 14 | 6.41 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 3 | 6.41 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 3 | 6.41 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 3 | 6.41 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 10 | 6.41 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 16 | 6.41 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 16 | 6.41 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 16 | 6.41 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 17 | 6.41 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 17 | 6.41 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 5 | 6.41 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 5 | 6.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 8 | 6.41 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 5 | 6.41 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 14 | 6.41 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 1 | 6.41 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 16 | 6.41 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 3 | 6.41 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 3 | 6.41 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 3 | 6.41 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 9 | 6.41 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 8 | 6.41 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 8 | 6.41 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 4 | 6.41 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 4 | 6.41 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 4 | 6.41 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 4 | 6.41 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 4 | 6.41 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 4 | 6.41 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 14 | 6.41 |
| (1,7281) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 17 | 6.41 |
| (1,7281) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 17 | 6.41 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 12 | 6.41 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 12 | 6.41 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 12 | 6.41 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 8 | 6.41 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 8 | 6.41 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 8 | 6.41 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 5 | 6.41 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 7 | 6.41 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 12 | 6.41 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 12 | 6.41 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 19 | 6.41 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 16 | 6.41 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 16 | 6.41 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 16 | 6.41 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 16 | 6.41 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 16 | 6.41 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 16 | 6.41 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 2 | 6.41 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 2 | 6.41 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 2 | 6.41 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 18 | 6.41 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 18 | 6.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 18 | 6.41 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 16 | 6.41 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 16 | 6.41 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 16 | 6.41 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 13 | 6.41 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 20 | 6.41 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 20 | 6.41 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 20 | 6.41 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 6.41 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 6.41 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 6.41 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 4 | 6.41 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 18 | 6.41 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 18 | 6.41 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 18 | 6.41 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 6.41 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 6.41 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 6.41 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 14 | 6.41 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 14 | 6.41 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 14 | 6.41 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 14 | 6.41 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 8 | 6.41 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 8 | 6.41 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 8 | 6.41 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 8 | 6.41 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 8 | 6.41 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 8 | 6.41 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 17 | 6.41 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 17 | 6.41 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 17 | 6.41 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 9 | 6.41 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 1 | 6.41 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 8 | 6.41 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 9 | 6.41 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 19 | 6.41 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 13 | 6.41 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 13 | 6.41 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 19 | 6.41 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 10 | 6.41 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 10 | 6.41 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 10 | 6.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 10 | 6.41 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 10 | 6.41 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 10 | 6.41 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 18 | 6.41 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 11 | 6.41 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 11 | 6.41 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 11 | 6.41 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 8 | 6.41 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 8 | 6.41 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 13 | 6.41 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 13 | 6.41 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 13 | 6.41 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 12 | 6.41 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 12 | 6.41 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 12 | 6.41 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 18 | 6.41 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 18 | 6.41 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 18 | 6.41 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 7 | 6.41 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 19 | 6.41 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 19 | 6.41 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 19 | 6.41 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 8 | 6.41 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 8 | 6.41 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 8 | 6.41 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 6.41 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 5 | 6.41 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 7 | 6.41 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 12 | 6.41 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 12 | 6.41 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 19 | 6.41 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 16 | 6.41 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 16 | 6.41 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 16 | 6.41 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 16 | 6.41 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 16 | 6.41 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 16 | 6.41 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 8 | 6.41 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 8 | 6.41 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 8 | 6.41 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 2 | 6.41 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 2 | 6.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 2 | 6.41 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 18 | 6.41 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 18 | 6.41 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 18 | 6.41 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 5 | 6.41 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 5 | 6.41 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 16 | 6.41 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 16 | 6.41 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 16 | 6.41 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 13 | 6.41 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 20 | 6.41 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 20 | 6.41 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 20 | 6.41 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 6 | 6.41 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 6 | 6.41 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 6 | 6.41 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 20 | 6.4 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 5 | 6.4 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 12 | 6.4 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 12 | 6.4 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 4 | 6.4 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 4 | 6.4 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 6.4 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 6.4 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 6.4 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 6.4 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 6.4 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 6.4 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 4 | 6.4 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 4 | 6.4 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 4 | 6.4 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 4 | 6.4 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 8 | 6.4 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 8 | 6.4 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 16 | 6.4 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 16 | 6.4 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 19 | 6.4 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 19 | 6.4 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 10 | 6.4 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 10 | 6.4 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 13 | 6.4 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 13 | 6.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 1 | 6.4 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 1 | 6.4 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 11 | 6.4 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 11 | 6.4 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 2 | 6.4 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 2 | 6.4 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 2 | 6.4 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 2 | 6.4 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 18 | 6.4 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 18 | 6.4 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 18 | 6.4 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 18 | 6.4 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 8 | 6.4 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 8 | 6.4 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 8 | 6.4 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 15 | 6.4 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 9 | 6.4 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 9 | 6.4 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 9 | 6.4 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 15 | 6.4 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 1 | 6.4 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 1 | 6.4 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 1 | 6.4 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 1 | 6.4 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 1 | 6.4 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 1 | 6.4 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 19 | 6.4 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 7 | 6.4 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 6 | 6.4 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 17 | 6.4 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 17 | 6.4 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 17 | 6.4 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 18 | 6.4 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 10 | 6.4 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 10 | 6.4 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 12 | 6.4 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 4 | 6.4 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 4 | 6.4 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 4 | 6.4 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 19 | 6.4 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 15 | 6.4 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 17 | 6.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 20 | 6.4 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 20 | 6.4 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 20 | 6.4 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 13 | 6.4 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 13 | 6.4 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 13 | 6.4 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 13 | 6.4 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 13 | 6.4 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 13 | 6.4 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 13 | 6.4 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 13 | 6.4 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 13 | 6.4 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 5 | 6.4 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 14 | 6.4 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 14 | 6.4 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 14 | 6.4 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 14 | 6.4 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 14 | 6.4 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 14 | 6.4 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 14 | 6.4 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 14 | 6.4 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 14 | 6.4 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 12 | 6.4 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 12 | 6.4 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 12 | 6.4 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 19 | 6.4 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 19 | 6.4 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 4 | 6.4 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 3 | 6.4 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 3 | 6.4 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 3 | 6.4 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 15 | 6.4 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 7 | 6.4 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 14 | 6.4 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 15 | 6.4 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 15 | 6.4 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 15 | 6.4 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 15 | 6.4 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 15 | 6.4 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 15 | 6.4 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 8 | 6.4 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 8 | 6.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 8 | 6.4 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 10 | 6.4 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 10 | 6.4 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 17 | 6.4 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 18 | 6.4 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 18 | 6.4 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 6 | 6.4 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 6 | 6.4 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 6 | 6.4 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 3 | 6.4 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 7 | 6.4 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 7 | 6.4 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 7 | 6.4 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 1 | 6.4 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 13 | 6.4 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 13 | 6.4 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 13 | 6.4 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 13 | 6.4 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 13 | 6.4 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 13 | 6.4 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 20 | 6.4 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 20 | 6.4 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 20 | 6.4 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 20 | 6.4 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 20 | 6.4 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 20 | 6.4 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 12 | 6.4 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 12 | 6.4 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 12 | 6.4 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 18 | 6.4 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 20 | 6.4 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 20 | 6.4 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 20 | 6.4 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 5 | 6.4 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 6.4 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 6.4 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 6.4 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 6.4 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 6.4 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 6.4 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 4 | 6.4 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 4 | 6.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 8 | 6.4 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 8 | 6.4 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 4 | 6.4 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 4 | 6.4 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 4 | 6.4 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 4 | 6.4 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 19 | 6.4 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 19 | 6.4 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 19 | 6.4 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 19 | 6.4 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 14 | 6.4 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 16 | 6.4 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 16 | 6.4 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 9 | 6.4 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 18 | 6.4 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 14 | 6.4 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 2 | 6.4 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 16 | 6.4 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 16 | 6.4 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 16 | 6.4 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 5 | 6.4 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 1 | 6.4 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 1 | 6.4 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 11 | 6.4 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 11 | 6.4 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 18 | 6.4 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 4 | 6.4 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 4 | 6.4 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 4 | 6.4 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 12 | 6.4 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 14 | 6.4 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 17 | 6.4 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 18 | 6.4 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 18 | 6.4 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 19 | 6.4 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 19 | 6.4 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 6 | 6.4 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 6 | 6.4 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 6 | 6.4 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 3 | 6.4 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 3 | 6.4 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 7 | 6.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 7 | 6.4 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 7 | 6.4 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 1 | 6.4 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 13 | 6.4 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 13 | 6.4 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 13 | 6.4 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 13 | 6.4 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 13 | 6.4 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 13 | 6.4 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 1 | 6.4 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 1 | 6.4 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 1 | 6.4 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 20 | 6.4 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 20 | 6.4 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 20 | 6.4 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 20 | 6.4 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 20 | 6.4 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 20 | 6.4 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 16 | 6.4 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 2 | 6.4 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 2 | 6.4 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 2 | 6.4 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 12 | 6.4 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 12 | 6.4 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 12 | 6.4 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 1 | 6.39 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 10 | 6.39 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 10 | 6.39 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 4 | 6.39 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 4 | 6.39 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 4 | 6.39 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 4 | 6.39 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 4 | 6.39 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 4 | 6.39 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 20 | 6.39 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 20 | 6.39 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 6 | 6.39 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 6 | 6.39 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 4 | 6.39 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 4 | 6.39 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 9 | 6.39 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 9 | 6.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 8 | 6.39 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 8 | 6.39 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 8 | 6.39 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 8 | 6.39 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 8 | 6.39 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 8 | 6.39 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 14 | 6.39 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 14 | 6.39 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 6 | 6.39 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 6 | 6.39 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 6 | 6.39 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 6 | 6.39 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 17 | 6.39 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 17 | 6.39 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 3 | 6.39 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 3 | 6.39 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 9 | 6.39 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 9 | 6.39 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 9 | 6.39 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 9 | 6.39 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 16 | 6.39 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 16 | 6.39 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 2 | 6.39 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 2 | 6.39 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 2 | 6.39 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 2 | 6.39 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 2 | 6.39 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 2 | 6.39 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 16 | 6.39 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 16 | 6.39 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 17 | 6.39 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 17 | 6.39 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 17 | 6.39 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 17 | 6.39 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 13 | 6.39 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 13 | 6.39 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 9 | 6.39 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 9 | 6.39 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 5 | 6.39 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 20 | 6.39 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 4 | 6.39 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 4 | 6.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 4 | 6.39 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 14 | 6.39 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 19 | 6.39 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 8 | 6.39 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 8 | 6.39 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 8 | 6.39 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 7 | 6.39 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 17 | 6.39 |
| (1,8121) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 7 | 6.39 |
| (1,8121) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 7 | 6.39 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 5 | 6.39 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 5 | 6.39 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 5 | 6.39 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 5 | 6.39 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 5 | 6.39 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 5 | 6.39 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 5 | 6.39 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 5 | 6.39 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 5 | 6.39 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 16 | 6.39 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 16 | 6.39 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 11 | 6.39 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 20 | 6.39 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 10 | 6.39 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 10 | 6.39 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 11 | 6.39 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 11 | 6.39 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 11 | 6.39 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 9 | 6.39 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 9 | 6.39 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 9 | 6.39 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 9 | 6.39 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 13 | 6.39 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 12 | 6.39 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 19 | 6.39 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 19 | 6.39 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 19 | 6.39 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 2 | 6.39 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 2 | 6.39 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 2 | 6.39 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 15 | 6.39 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 8 | 6.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 8 | 6.39 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 4 | 6.39 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 9 | 6.39 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 9 | 6.39 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 9 | 6.39 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 9 | 6.39 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 9 | 6.39 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 9 | 6.39 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 3 | 6.39 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 10 | 6.39 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 10 | 6.39 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 16 | 6.39 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 16 | 6.39 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 16 | 6.39 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 16 | 6.39 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 16 | 6.39 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 16 | 6.39 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 16 | 6.39 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 11 | 6.39 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 2 | 6.39 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 15 | 6.39 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 5 | 6.39 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 9 | 6.39 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 9 | 6.39 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 9 | 6.39 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 20 | 6.39 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 5 | 6.39 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 5 | 6.39 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 5 | 6.39 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 15 | 6.39 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 15 | 6.39 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 15 | 6.39 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 8 | 6.39 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 9 | 6.39 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 9 | 6.39 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 9 | 6.39 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 9 | 6.39 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 5 | 6.39 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 5 | 6.39 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 5 | 6.39 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 15 | 6.39 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 1 | 6.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 15 | 6.39 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 15 | 6.39 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 15 | 6.39 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 1 | 6.39 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 1 | 6.39 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 1 | 6.39 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 9 | 6.39 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 9 | 6.39 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 9 | 6.39 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 16 | 6.39 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 16 | 6.39 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 16 | 6.39 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 17 | 6.39 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 12 | 6.39 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 12 | 6.39 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 12 | 6.39 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 6 | 6.39 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 6 | 6.39 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 6 | 6.39 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 16 | 6.39 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 16 | 6.39 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 16 | 6.39 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 8 | 6.39 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 8 | 6.39 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 8 | 6.39 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 8 | 6.39 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 8 | 6.39 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 8 | 6.39 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 14 | 6.39 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 14 | 6.39 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 10 | 6.39 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 9 | 6.39 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 9 | 6.39 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 9 | 6.39 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 9 | 6.39 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 16 | 6.39 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 16 | 6.39 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 6 | 6.39 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 18 | 6.39 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 16 | 6.39 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 17 | 6.39 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 17 | 6.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 17 | 6.39 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 17 | 6.39 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 11 | 6.39 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 13 | 6.39 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 13 | 6.39 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 3 | 6.39 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 10 | 6.39 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 10 | 6.39 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 16 | 6.39 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 16 | 6.39 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 16 | 6.39 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 16 | 6.39 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 16 | 6.39 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 16 | 6.39 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 16 | 6.39 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 11 | 6.39 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 2 | 6.39 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 7 | 6.39 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 7 | 6.39 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 7 | 6.39 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 15 | 6.39 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 6 | 6.39 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 5 | 6.39 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 9 | 6.39 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 9 | 6.39 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 9 | 6.39 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 20 | 6.39 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 5 | 6.39 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 5 | 6.39 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 5 | 6.39 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 6.39 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 6.39 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 6.39 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 15 | 6.39 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 15 | 6.39 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 15 | 6.39 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 2 | 6.39 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 2 | 6.39 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 2 | 6.39 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 8 | 6.39 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 9 | 6.39 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 16 | 6.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 16 | 6.39 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 12 | 6.39 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 15 | 6.38 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 5 | 6.38 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 15 | 6.38 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 15 | 6.38 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 20 | 6.38 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 20 | 6.38 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 14 | 6.38 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 14 | 6.38 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 14 | 6.38 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 14 | 6.38 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 10 | 6.38 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 10 | 6.38 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 13 | 6.38 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 13 | 6.38 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 15 | 6.38 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 15 | 6.38 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 2 | 6.38 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 2 | 6.38 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 2 | 6.38 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 2 | 6.38 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 2 | 6.38 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 2 | 6.38 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 6 | 6.38 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 6 | 6.38 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 6 | 6.38 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 6 | 6.38 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 6 | 6.38 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 6 | 6.38 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 3 | 6.38 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 3 | 6.38 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 6.38 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 20 | 6.38 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 20 | 6.38 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 20 | 6.38 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 19 | 6.38 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 19 | 6.38 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 7 | 6.38 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 7 | 6.38 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 5 | 6.38 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 5 | 6.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 15 | 6.38 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 15 | 6.38 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 1 | 6.38 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 1 | 6.38 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 19 | 6.38 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 19 | 6.38 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 19 | 6.38 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 8 | 6.38 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 8 | 6.38 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 8 | 6.38 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 20 | 6.38 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 20 | 6.38 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 6 | 6.38 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 6 | 6.38 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 6 | 6.38 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 6 | 6.38 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 6 | 6.38 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 6 | 6.38 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 11 | 6.38 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 11 | 6.38 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 11 | 6.38 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 3 | 6.38 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 9 | 6.38 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 13 | 6.38 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 14 | 6.38 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 19 | 6.38 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 19 | 6.38 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 2 | 6.38 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 2 | 6.38 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 6 | 6.38 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 16 | 6.38 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 16 | 6.38 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 16 | 6.38 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 9 | 6.38 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 9 | 6.38 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 9 | 6.38 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 10 | 6.38 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 10 | 6.38 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 10 | 6.38 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 1 | 6.38 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 1 | 6.38 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 1 | 6.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 7 | 6.38 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 7 | 6.38 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 8 | 6.38 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 8 | 6.38 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 6 | 6.38 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 6 | 6.38 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 6 | 6.38 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 12 | 6.38 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 20 | 6.38 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 20 | 6.38 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 20 | 6.38 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 6 | 6.38 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 6 | 6.38 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 6 | 6.38 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 19 | 6.38 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 7 | 6.38 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 4 | 6.38 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 10 | 6.38 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 18 | 6.38 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 18 | 6.38 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 18 | 6.38 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 15 | 6.38 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 15 | 6.38 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 15 | 6.38 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 19 | 6.38 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 7 | 6.38 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 20 | 6.38 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 20 | 6.38 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 19 | 6.38 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 10 | 6.38 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 15 | 6.38 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 3 | 6.38 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 3 | 6.38 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 3 | 6.38 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 3 | 6.38 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 3 | 6.38 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 3 | 6.38 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 3 | 6.38 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 3 | 6.38 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 3 | 6.38 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 10 | 6.38 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 9 | 6.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 1 | 6.38 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 1 | 6.38 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 1 | 6.38 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 18 | 6.38 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 10 | 6.38 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 10 | 6.38 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 8 | 6.38 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 15 | 6.38 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 15 | 6.38 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 7 | 6.38 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 7 | 6.38 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 7 | 6.38 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 13 | 6.38 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 13 | 6.38 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 19 | 6.38 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 5 | 6.38 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 19 | 6.38 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 19 | 6.38 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 8 | 6.38 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 8 | 6.38 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 13 | 6.38 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 13 | 6.38 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 13 | 6.38 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 18 | 6.38 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 18 | 6.38 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 18 | 6.38 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 15 | 6.38 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 15 | 6.38 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 15 | 6.38 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 19 | 6.38 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 7 | 6.38 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 20 | 6.38 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 20 | 6.38 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 19 | 6.38 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 10 | 6.38 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 6 | 6.38 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 6.38 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 6.38 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 6.38 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 20 | 6.38 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 20 | 6.38 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 20 | 6.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 20 | 6.38 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 20 | 6.38 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 20 | 6.38 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 9 | 6.38 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 15 | 6.38 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 16 | 6.37 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 16 | 6.37 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 9 | 6.37 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 20 | 6.37 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 20 | 6.37 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 18 | 6.37 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 18 | 6.37 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 18 | 6.37 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 18 | 6.37 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 17 | 6.37 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 17 | 6.37 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 4 | 6.37 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 4 | 6.37 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 14 | 6.37 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 14 | 6.37 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 3 | 6.37 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 3 | 6.37 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 19 | 6.37 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 19 | 6.37 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 19 | 6.37 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 19 | 6.37 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 19 | 6.37 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 19 | 6.37 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 13 | 6.37 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 13 | 6.37 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 7 | 6.37 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 7 | 6.37 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 7 | 6.37 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 7 | 6.37 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 19 | 6.37 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 19 | 6.37 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 19 | 6.37 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 19 | 6.37 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 19 | 6.37 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 19 | 6.37 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 19 | 6.37 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 19 | 6.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 12 | 6.37 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 13 | 6.37 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 13 | 6.37 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 13 | 6.37 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 16 | 6.37 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 16 | 6.37 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 16 | 6.37 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 12 | 6.37 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 12 | 6.37 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 12 | 6.37 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 5 | 6.37 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 20 | 6.37 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 20 | 6.37 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 20 | 6.37 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 3 | 6.37 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 3 | 6.37 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 3 | 6.37 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 9 | 6.37 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 9 | 6.37 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 9 | 6.37 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 13 | 6.37 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 13 | 6.37 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 13 | 6.37 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 1 | 6.37 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 1 | 6.37 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 5 | 6.37 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 15 | 6.37 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 15 | 6.37 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 15 | 6.37 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 8 | 6.37 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 16 | 6.37 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 16 | 6.37 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 19 | 6.37 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 19 | 6.37 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 19 | 6.37 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 18 | 6.37 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 18 | 6.37 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 18 | 6.37 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 6 | 6.37 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 6 | 6.37 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 6 | 6.37 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 3 | 6.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 7 | 6.37 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 7 | 6.37 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 5 | 6.37 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 6 | 6.37 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 6 | 6.37 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 6 | 6.37 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 11 | 6.37 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 11 | 6.37 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 11 | 6.37 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 16 | 6.37 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 1 | 6.37 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 1 | 6.37 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 1 | 6.37 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 1 | 6.37 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 1 | 6.37 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 1 | 6.37 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 8 | 6.37 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 13 | 6.37 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 13 | 6.37 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 13 | 6.37 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 14 | 6.37 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 14 | 6.37 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 14 | 6.37 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 14 | 6.37 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 4 | 6.37 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 19 | 6.37 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 19 | 6.37 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 19 | 6.37 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 15 | 6.37 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 5 | 6.37 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 5 | 6.37 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 5 | 6.37 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 6.37 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 6.37 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 6.37 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 7 | 6.37 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 6 | 6.37 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 5 | 6.37 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 5 | 6.37 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 5 | 6.37 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 4 | 6.37 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 4 | 6.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 14 | 6.37 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 13 | 6.37 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 19 | 6.37 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 11 | 6.37 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 3 | 6.37 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 3 | 6.37 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 19 | 6.37 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 19 | 6.37 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 19 | 6.37 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 19 | 6.37 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 19 | 6.37 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 19 | 6.37 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 11 | 6.37 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 11 | 6.37 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 14 | 6.37 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 7 | 6.37 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 7 | 6.37 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 10 | 6.37 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 10 | 6.37 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 10 | 6.37 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 10 | 6.37 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 11 | 6.37 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 11 | 6.37 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 11 | 6.37 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 2 | 6.37 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 13 | 6.37 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 11 | 6.37 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 11 | 6.37 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 11 | 6.37 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 12 | 6.37 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 12 | 6.37 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 12 | 6.37 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 13 | 6.37 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 13 | 6.37 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 13 | 6.37 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 12 | 6.37 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 13 | 6.36 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 6 | 6.36 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 9 | 6.36 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 3 | 6.36 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 6 | 6.36 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 14 | 6.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 14 | 6.36 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 16 | 6.36 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 16 | 6.36 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 6.36 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 6.36 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 6.36 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 6.36 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 6.36 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 6.36 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 14 | 6.36 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 14 | 6.36 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 1 | 6.36 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 1 | 6.36 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 1 | 6.36 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 1 | 6.36 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 6 | 6.36 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 6 | 6.36 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 4 | 6.36 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 4 | 6.36 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 13 | 6.36 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 13 | 6.36 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 12 | 6.36 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 12 | 6.36 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 12 | 6.36 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 12 | 6.36 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 12 | 6.36 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 12 | 6.36 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 16 | 6.36 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 16 | 6.36 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 8 | 6.36 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 8 | 6.36 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 8 | 6.36 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 8 | 6.36 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 20 | 6.36 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 20 | 6.36 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 20 | 6.36 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 13 | 6.36 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 13 | 6.36 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 13 | 6.36 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 13 | 6.36 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 13 | 6.36 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 13 | 6.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 13 | 6.36 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 13 | 6.36 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 13 | 6.36 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 13 | 6.36 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 13 | 6.36 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 13 | 6.36 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 10 | 6.36 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 13 | 6.36 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 12 | 6.36 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 16 | 6.36 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 16 | 6.36 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 5 | 6.36 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 12 | 6.36 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 12 | 6.36 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 12 | 6.36 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 18 | 6.36 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 9 | 6.36 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 9 | 6.36 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 16 | 6.36 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 16 | 6.36 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 16 | 6.36 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 3 | 6.36 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 14 | 6.36 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 9 | 6.36 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 14 | 6.36 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 14 | 6.36 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 14 | 6.36 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 5 | 6.36 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 5 | 6.36 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 5 | 6.36 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 13 | 6.36 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 13 | 6.36 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 13 | 6.36 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 15 | 6.36 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 15 | 6.36 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 4 | 6.36 |
| (1,7648) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 17 | 6.36 |
| (1,7648) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 17 | 6.36 |
| (1,7648) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 17 | 6.36 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 3 | 6.36 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 3 | 6.36 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 3 | 6.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 1 | 6.36 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 13 | 6.36 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 13 | 6.36 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 16 | 6.36 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 12 | 6.36 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 12 | 6.36 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 12 | 6.36 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 4 | 6.36 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 4 | 6.36 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 20 | 6.36 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 20 | 6.36 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 20 | 6.36 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 12 | 6.36 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 12 | 6.36 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 12 | 6.36 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 18 | 6.36 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 18 | 6.36 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 18 | 6.36 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 5 | 6.36 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 5 | 6.36 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 19 | 6.36 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 19 | 6.36 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 19 | 6.36 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 8 | 6.36 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 8 | 6.36 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 8 | 6.36 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 8 | 6.36 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 8 | 6.36 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 8 | 6.36 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 13 | 6.36 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 13 | 6.36 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 13 | 6.36 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 13 | 6.36 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 13 | 6.36 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 13 | 6.36 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 13 | 6.36 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 10 | 6.36 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 17 | 6.36 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 17 | 6.36 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 17 | 6.36 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 13 | 6.36 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 4 | 6.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 4 | 6.36 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 4 | 6.36 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 1 | 6.36 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 1 | 6.36 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 1 | 6.36 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 2 | 6.36 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 2 | 6.36 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 2 | 6.36 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 13 | 6.36 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 4 | 6.36 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 4 | 6.36 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 18 | 6.36 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 6.36 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 6.36 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 6.36 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 6.36 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 6.36 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 6.36 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 14 | 6.36 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 14 | 6.36 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 6.36 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 15 | 6.36 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 6.36 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 11 | 6.36 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 11 | 6.36 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 11 | 6.36 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 20 | 6.36 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 20 | 6.36 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 20 | 6.36 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 12 | 6.36 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 12 | 6.36 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 12 | 6.36 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 18 | 6.36 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 18 | 6.36 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 18 | 6.36 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 5 | 6.36 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 5 | 6.36 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 19 | 6.36 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 19 | 6.36 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 19 | 6.36 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 6 | 6.36 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 6 | 6.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 6 | 6.36 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 6.36 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 8 | 6.36 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 8 | 6.36 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 8 | 6.36 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 8 | 6.36 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 8 | 6.36 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 8 | 6.36 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 17 | 6.35 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 2 | 6.35 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 16 | 6.35 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 16 | 6.35 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 16 | 6.35 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 16 | 6.35 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 16 | 6.35 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 16 | 6.35 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 7 | 6.35 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 7 | 6.35 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 14 | 6.35 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 14 | 6.35 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 14 | 6.35 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 14 | 6.35 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 14 | 6.35 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 14 | 6.35 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 3 | 6.35 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 3 | 6.35 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 10 | 6.35 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 10 | 6.35 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 5 | 6.35 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 5 | 6.35 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 4 | 6.35 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 4 | 6.35 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 16 | 6.35 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 16 | 6.35 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 16 | 6.35 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 16 | 6.35 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 16 | 6.35 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 16 | 6.35 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 12 | 6.35 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 12 | 6.35 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 13 | 6.35 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 13 | 6.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 11 | 6.35 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 11 | 6.35 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 4 | 6.35 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 4 | 6.35 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 4 | 6.35 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 4 | 6.35 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 4 | 6.35 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 4 | 6.35 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 11 | 6.35 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 11 | 6.35 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 2 | 6.35 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 19 | 6.35 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 17 | 6.35 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 17 | 6.35 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 17 | 6.35 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 14 | 6.35 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 14 | 6.35 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 14 | 6.35 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 18 | 6.35 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 15 | 6.35 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 15 | 6.35 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 3 | 6.35 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 3 | 6.35 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 18 | 6.35 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 6 | 6.35 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 6 | 6.35 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 11 | 6.35 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 19 | 6.35 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 19 | 6.35 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 19 | 6.35 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 19 | 6.35 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 1 | 6.35 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 1 | 6.35 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 1 | 6.35 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 17 | 6.35 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 17 | 6.35 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 17 | 6.35 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 17 | 6.35 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 17 | 6.35 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 9 | 6.35 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 9 | 6.35 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 9 | 6.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 19 | 6.35 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 19 | 6.35 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 19 | 6.35 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 14 | 6.35 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 14 | 6.35 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 8 | 6.35 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 8 | 6.35 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 8 | 6.35 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 7 | 6.35 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 7 | 6.35 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 7 | 6.35 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 10 | 6.35 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 10 | 6.35 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 10 | 6.35 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 10 | 6.35 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 4 | 6.35 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 13 | 6.35 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 13 | 6.35 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 14 | 6.35 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 14 | 6.35 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 14 | 6.35 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 4 | 6.35 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 4 | 6.35 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 2 | 6.35 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 7 | 6.35 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 6 | 6.35 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 4 | 6.35 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 19 | 6.35 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 6 | 6.35 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 4 | 6.35 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 6 | 6.35 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 6 | 6.35 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 6 | 6.35 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 13 | 6.35 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 20 | 6.35 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 20 | 6.35 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 3 | 6.35 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 14 | 6.35 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 14 | 6.35 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 14 | 6.35 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 12 | 6.35 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 12 | 6.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 10 | 6.35 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 18 | 6.35 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 18 | 6.35 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 18 | 6.35 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 5 | 6.35 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 5 | 6.35 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 5 | 6.35 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 16 | 6.35 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 16 | 6.35 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 16 | 6.35 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 16 | 6.35 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 16 | 6.35 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 16 | 6.35 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 13 | 6.35 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 13 | 6.35 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 13 | 6.35 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 13 | 6.35 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 18 | 6.35 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 18 | 6.35 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 18 | 6.35 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 18 | 6.35 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 18 | 6.35 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 18 | 6.35 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 18 | 6.35 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 18 | 6.35 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 18 | 6.35 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 7 | 6.35 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 5 | 6.35 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 10 | 6.35 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 10 | 6.35 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 10 | 6.35 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 10 | 6.35 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 4 | 6.35 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 17 | 6.35 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 17 | 6.35 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 17 | 6.35 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 1 | 6.35 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 18 | 6.35 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 18 | 6.35 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 6.35 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 14 | 6.35 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 14 | 6.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 5 | 6.35 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 5 | 6.35 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 5 | 6.35 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 3 | 6.35 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 14 | 6.35 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 14 | 6.35 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 14 | 6.35 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 12 | 6.35 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 12 | 6.35 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 10 | 6.35 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 1 | 6.35 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 19 | 6.35 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 19 | 6.35 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 19 | 6.35 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 18 | 6.35 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 18 | 6.35 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 18 | 6.35 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 2 | 6.35 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 5 | 6.35 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 5 | 6.35 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 5 | 6.35 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 19 | 6.35 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 19 | 6.35 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 19 | 6.35 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 13 | 6.35 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 13 | 6.35 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 13 | 6.35 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 3 | 6.35 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 1 | 6.35 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 16 | 6.35 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 16 | 6.35 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 16 | 6.35 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 16 | 6.35 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 16 | 6.35 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 16 | 6.35 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 10 | 6.34 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 13 | 6.34 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 15 | 6.34 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 15 | 6.34 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 15 | 6.34 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 15 | 6.34 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 15 | 6.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 15 | 6.34 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 15 | 6.34 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 15 | 6.34 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 15 | 6.34 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 15 | 6.34 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 15 | 6.34 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 15 | 6.34 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 15 | 6.34 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 15 | 6.34 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 15 | 6.34 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 15 | 6.34 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 17 | 6.34 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 17 | 6.34 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 13 | 6.34 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 13 | 6.34 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 13 | 6.34 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 13 | 6.34 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 13 | 6.34 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 13 | 6.34 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 15 | 6.34 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 15 | 6.34 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 15 | 6.34 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 15 | 6.34 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 3 | 6.34 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 3 | 6.34 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 5 | 6.34 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 5 | 6.34 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 8 | 6.34 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 8 | 6.34 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 8 | 6.34 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 8 | 6.34 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 8 | 6.34 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 8 | 6.34 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 4 | 6.34 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 4 | 6.34 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 16 | 6.34 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 16 | 6.34 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 16 | 6.34 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 16 | 6.34 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 17 | 6.34 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 17 | 6.34 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 17 | 6.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 17 | 6.34 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 10 | 6.34 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 10 | 6.34 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 10 | 6.34 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 10 | 6.34 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 2 | 6.34 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 20 | 6.34 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 20 | 6.34 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 20 | 6.34 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 4 | 6.34 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 4 | 6.34 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 4 | 6.34 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 18 | 6.34 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 20 | 6.34 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 20 | 6.34 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 20 | 6.34 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 11 | 6.34 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 11 | 6.34 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 11 | 6.34 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 15 | 6.34 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 16 | 6.34 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 16 | 6.34 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 16 | 6.34 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 4 | 6.34 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 4 | 6.34 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 4 | 6.34 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 4 | 6.34 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 4 | 6.34 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 4 | 6.34 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 4 | 6.34 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 4 | 6.34 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 4 | 6.34 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 9 | 6.34 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 9 | 6.34 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 1 | 6.34 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 1 | 6.34 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 1 | 6.34 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 1 | 6.34 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 9 | 6.34 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 6 | 6.34 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 1 | 6.34 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 6 | 6.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 6 | 6.34 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 6 | 6.34 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 6 | 6.34 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 6 | 6.34 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 9 | 6.34 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 9 | 6.34 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 19 | 6.34 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 19 | 6.34 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 1 | 6.34 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 1 | 6.34 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 1 | 6.34 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 9 | 6.34 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 9 | 6.34 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 9 | 6.34 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 14 | 6.34 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 14 | 6.34 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 14 | 6.34 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 14 | 6.34 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 14 | 6.34 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 14 | 6.34 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 16 | 6.34 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 16 | 6.34 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 16 | 6.34 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 12 | 6.34 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 16 | 6.34 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 7 | 6.34 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 7 | 6.34 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 7 | 6.34 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 17 | 6.34 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 17 | 6.34 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 17 | 6.34 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 5 | 6.34 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 2 | 6.34 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 2 | 6.34 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 2 | 6.34 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 5 | 6.34 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 5 | 6.34 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 5 | 6.34 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 13 | 6.34 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 17 | 6.34 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 17 | 6.34 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 17 | 6.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 16 | 6.34 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 16 | 6.34 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 16 | 6.34 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 5 | 6.34 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 5 | 6.34 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 5 | 6.34 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 5 | 6.34 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 5 | 6.34 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 5 | 6.34 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 5 | 6.34 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 5 | 6.34 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 5 | 6.34 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 5 | 6.34 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 5 | 6.34 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 5 | 6.34 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 16 | 6.34 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 2 | 6.34 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 4 | 6.34 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 6 | 6.34 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 6 | 6.34 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 6 | 6.34 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 6 | 6.34 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 6 | 6.34 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 8 | 6.34 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 8 | 6.34 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 8 | 6.34 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 13 | 6.34 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 13 | 6.34 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 13 | 6.34 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 13 | 6.34 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 13 | 6.34 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 13 | 6.34 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 8 | 6.34 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 8 | 6.34 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 8 | 6.34 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 8 | 6.34 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 8 | 6.34 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 8 | 6.34 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 19 | 6.34 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 19 | 6.34 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 19 | 6.34 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 10 | 6.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 6 | 6.34 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 6 | 6.34 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 6 | 6.34 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 6 | 6.34 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 6 | 6.34 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 9 | 6.34 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 9 | 6.34 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 19 | 6.34 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 19 | 6.34 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 19 | 6.34 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 19 | 6.34 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 19 | 6.34 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 13 | 6.34 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 13 | 6.34 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 13 | 6.34 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 7 | 6.34 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 7 | 6.34 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 14 | 6.34 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 14 | 6.34 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 16 | 6.34 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 7 | 6.34 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 7 | 6.34 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 7 | 6.34 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 14 | 6.34 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 17 | 6.34 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 17 | 6.34 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 17 | 6.34 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 5 | 6.34 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 15 | 6.34 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 15 | 6.34 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 15 | 6.34 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 6.34 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 6.34 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 6.34 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 2 | 6.34 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 2 | 6.34 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 2 | 6.34 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 5 | 6.34 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 5 | 6.34 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 5 | 6.34 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 13 | 6.34 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 16 | 6.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 16 | 6.34 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 16 | 6.34 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 17 | 6.34 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 17 | 6.34 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 17 | 6.34 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 11 | 6.33 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 11 | 6.33 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 14 | 6.33 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 14 | 6.33 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 5 | 6.33 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 3 | 6.33 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 3 | 6.33 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 3 | 6.33 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 3 | 6.33 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 3 | 6.33 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 3 | 6.33 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 19 | 6.33 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 19 | 6.33 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 19 | 6.33 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 19 | 6.33 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 19 | 6.33 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 19 | 6.33 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 5 | 6.33 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 5 | 6.33 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 1 | 6.33 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 1 | 6.33 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 19 | 6.33 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 19 | 6.33 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 20 | 6.33 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 20 | 6.33 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 10 | 6.33 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 10 | 6.33 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 17 | 6.33 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 17 | 6.33 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 19 | 6.33 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 19 | 6.33 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 9 | 6.33 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 16 | 6.33 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 16 | 6.33 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 16 | 6.33 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 16 | 6.33 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 16 | 6.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 16 | 6.33 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 16 | 6.33 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 16 | 6.33 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 16 | 6.33 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 8 | 6.33 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 8 | 6.33 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 8 | 6.33 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 3 | 6.33 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 18 | 6.33 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 18 | 6.33 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 18 | 6.33 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 11 | 6.33 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 5 | 6.33 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 12 | 6.33 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 3 | 6.33 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 3 | 6.33 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 4 | 6.33 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 19 | 6.33 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 8 | 6.33 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 8 | 6.33 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 8 | 6.33 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 9 | 6.33 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 6 | 6.33 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 5 | 6.33 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 16 | 6.33 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 15 | 6.33 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 16 | 6.33 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 16 | 6.33 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 16 | 6.33 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 4 | 6.33 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 4 | 6.33 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 4 | 6.33 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 4 | 6.33 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 4 | 6.33 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 4 | 6.33 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 17 | 6.33 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 17 | 6.33 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 17 | 6.33 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 6 | 6.33 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 20 | 6.33 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 1 | 6.33 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 14 | 6.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 7 | 6.33 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 7 | 6.33 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 4 | 6.33 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 13 | 6.33 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 18 | 6.33 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 20 | 6.33 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 20 | 6.33 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 20 | 6.33 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 2 | 6.33 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 2 | 6.33 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 13 | 6.33 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 13 | 6.33 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 13 | 6.33 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 5 | 6.33 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 5 | 6.33 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 4 | 6.33 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 4 | 6.33 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 19 | 6.33 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 19 | 6.33 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 19 | 6.33 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 12 | 6.33 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 12 | 6.33 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 12 | 6.33 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 12 | 6.33 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 6 | 6.33 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 20 | 6.33 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 2 | 6.33 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 2 | 6.33 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 2 | 6.33 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 18 | 6.33 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 18 | 6.33 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 1 | 6.33 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 1 | 6.33 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 1 | 6.33 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 5 | 6.33 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 5 | 6.33 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 5 | 6.33 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 17 | 6.33 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 17 | 6.33 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 17 | 6.33 |
| (1,4194) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 14 | 6.33 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 14 | 6.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 4 | 6.33 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 4 | 6.33 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 4 | 6.33 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 9 | 6.33 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 19 | 6.33 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 19 | 6.33 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 5 | 6.33 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 7 | 6.33 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 7 | 6.33 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 7 | 6.33 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 2 | 6.33 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 2 | 6.33 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 13 | 6.33 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 13 | 6.33 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 13 | 6.33 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 3 | 6.33 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 5 | 6.33 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 5 | 6.33 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 4 | 6.33 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 4 | 6.33 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 19 | 6.33 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 19 | 6.33 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 19 | 6.33 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 9 | 6.33 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 9 | 6.33 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 9 | 6.33 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 6 | 6.33 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 6 | 6.33 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 6 | 6.33 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 12 | 6.33 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 12 | 6.33 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 12 | 6.33 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 12 | 6.33 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 4 | 6.33 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 6 | 6.33 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 13 | 6.33 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 13 | 6.33 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 13 | 6.33 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 12 | 6.33 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 12 | 6.33 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 12 | 6.33 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 9 | 6.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 20 | 6.33 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 1 | 6.32 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 5 | 6.32 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 1 | 6.32 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 1 | 6.32 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 18 | 6.32 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 18 | 6.32 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 11 | 6.32 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 11 | 6.32 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 17 | 6.32 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 17 | 6.32 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 17 | 6.32 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 17 | 6.32 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 17 | 6.32 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 17 | 6.32 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 18 | 6.32 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 18 | 6.32 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 4 | 6.32 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 4 | 6.32 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 4 | 6.32 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 4 | 6.32 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 4 | 6.32 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 4 | 6.32 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 19 | 6.32 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 19 | 6.32 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 19 | 6.32 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 5 | 6.32 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 14 | 6.32 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 14 | 6.32 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 14 | 6.32 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 19 | 6.32 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 19 | 6.32 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 19 | 6.32 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 10 | 6.32 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 2 | 6.32 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 12 | 6.32 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 12 | 6.32 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 12 | 6.32 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 14 | 6.32 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 14 | 6.32 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 14 | 6.32 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 9 | 6.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 7 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 3 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 3 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 3 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 10 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 10 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 10 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 14 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 14 | 6.32 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 14 | 6.32 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 12 | 6.32 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 12 | 6.32 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 12 | 6.32 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 13 | 6.32 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 13 | 6.32 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 13 | 6.32 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 3 | 6.32 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 3 | 6.32 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 3 | 6.32 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 3 | 6.32 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 3 | 6.32 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 3 | 6.32 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 14 | 6.32 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 4 | 6.32 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 16 | 6.32 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 7 | 6.32 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 18 | 6.32 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 18 | 6.32 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 18 | 6.32 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 6 | 6.32 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 6 | 6.32 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 6 | 6.32 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 16 | 6.32 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 15 | 6.32 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 15 | 6.32 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 15 | 6.32 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 6 | 6.32 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 6 | 6.32 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 13 | 6.32 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 13 | 6.32 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 13 | 6.32 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 1 | 6.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 15 | 6.32 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 18 | 6.32 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 18 | 6.32 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 1 | 6.32 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 1 | 6.32 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 1 | 6.32 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 12 | 6.32 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 12 | 6.32 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 12 | 6.32 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 2 | 6.32 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 2 | 6.32 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 2 | 6.32 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 2 | 6.32 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 2 | 6.32 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 2 | 6.32 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 10 | 6.32 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 9 | 6.32 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 9 | 6.32 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 9 | 6.32 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 18 | 6.32 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 18 | 6.32 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 16 | 6.32 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 16 | 6.32 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 16 | 6.32 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 2 | 6.32 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 2 | 6.32 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 2 | 6.32 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 2 | 6.32 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 2 | 6.32 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 2 | 6.32 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 2 | 6.32 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 2 | 6.32 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 2 | 6.32 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 10 | 6.32 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 10 | 6.32 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 10 | 6.32 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 19 | 6.32 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 19 | 6.32 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 19 | 6.32 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 10 | 6.32 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 12 | 6.32 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 12 | 6.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 12 | 6.32 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 12 | 6.32 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 12 | 6.32 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 12 | 6.32 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 12 | 6.32 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 12 | 6.32 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 12 | 6.32 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 8 | 6.32 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 17 | 6.32 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 11 | 6.32 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 11 | 6.32 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 11 | 6.32 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 18 | 6.32 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 18 | 6.32 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 18 | 6.32 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 4 | 6.32 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 4 | 6.32 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 4 | 6.32 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 4 | 6.32 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 6.32 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 15 | 6.32 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 14 | 6.32 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 6.32 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 17 | 6.32 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 6.32 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 18 | 6.32 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 18 | 6.32 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 10 | 6.32 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 15 | 6.32 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 18 | 6.32 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 18 | 6.32 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 1 | 6.32 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 1 | 6.32 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 1 | 6.32 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 12 | 6.32 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 12 | 6.32 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 12 | 6.32 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 2 | 6.32 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 2 | 6.32 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 2 | 6.32 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 2 | 6.32 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 2 | 6.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 2 | 6.32 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 14 | 6.32 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 14 | 6.32 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 14 | 6.32 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 10 | 6.32 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 9 | 6.32 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 9 | 6.32 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 9 | 6.32 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 12 | 6.32 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 12 | 6.32 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 12 | 6.32 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 6.32 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 6.32 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 6.32 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 16 | 6.32 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 16 | 6.32 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 16 | 6.32 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 2 | 6.32 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 2 | 6.32 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 2 | 6.32 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 2 | 6.32 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 2 | 6.32 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 2 | 6.32 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 2 | 6.32 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 2 | 6.32 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 2 | 6.32 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 10 | 6.32 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 10 | 6.32 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 10 | 6.32 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 19 | 6.32 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 19 | 6.32 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 19 | 6.32 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 15 | 6.32 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 15 | 6.32 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 15 | 6.32 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 15 | 6.32 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 15 | 6.32 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 15 | 6.32 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 10 | 6.32 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 18 | 6.31 |
| (4,109) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 13 | 6.31 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 10 | 6.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 8 | 6.31 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 18 | 6.31 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 18 | 6.31 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 5 | 6.31 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 5 | 6.31 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 5 | 6.31 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 5 | 6.31 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 5 | 6.31 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 5 | 6.31 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 15 | 6.31 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 15 | 6.31 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 6.31 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 6.31 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 6.31 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 6.31 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 6.31 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 6.31 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 13 | 6.31 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 13 | 6.31 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 13 | 6.31 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 13 | 6.31 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 13 | 6.31 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 13 | 6.31 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 13 | 6.31 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 13 | 6.31 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 10 | 6.31 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 10 | 6.31 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 12 | 6.31 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 12 | 6.31 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 4 | 6.31 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 4 | 6.31 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 19 | 6.31 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 19 | 6.31 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 16 | 6.31 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 16 | 6.31 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 16 | 6.31 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 16 | 6.31 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 16 | 6.31 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 16 | 6.31 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 5 | 6.31 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 5 | 6.31 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 13 | 6.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 13 | 6.31 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 16 | 6.31 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 16 | 6.31 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 16 | 6.31 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 16 | 6.31 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 9 | 6.31 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 9 | 6.31 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 9 | 6.31 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 10 | 6.31 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 10 | 6.31 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 10 | 6.31 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 2 | 6.31 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 2 | 6.31 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 2 | 6.31 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 20 | 6.31 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 20 | 6.31 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 20 | 6.31 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 3 | 6.31 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 3 | 6.31 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 3 | 6.31 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 20 | 6.31 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 20 | 6.31 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 5 | 6.31 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 5 | 6.31 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 14 | 6.31 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 14 | 6.31 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 14 | 6.31 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 14 | 6.31 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 14 | 6.31 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 14 | 6.31 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 16 | 6.31 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 12 | 6.31 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 4 | 6.31 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 2 | 6.31 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 5 | 6.31 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 18 | 6.31 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 18 | 6.31 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 18 | 6.31 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 8 | 6.31 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 14 | 6.31 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 11 | 6.31 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 11 | 6.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 17 | 6.31 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 17 | 6.31 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 7 | 6.31 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 5 | 6.31 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 4 | 6.31 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 4 | 6.31 |
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 4 | 6.31 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 2 | 6.31 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 2 | 6.31 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 2 | 6.31 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 12 | 6.31 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 12 | 6.31 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 12 | 6.31 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 19 | 6.31 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 13 | 6.31 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 13 | 6.31 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 3 | 6.31 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 12 | 6.31 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 15 | 6.31 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 6 | 6.31 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 2 | 6.31 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 10 | 6.31 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 10 | 6.31 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 10 | 6.31 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 6 | 6.31 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 5 | 6.31 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 7 | 6.31 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 20 | 6.31 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 20 | 6.31 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 3 | 6.31 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 3 | 6.31 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 3 | 6.31 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 10 | 6.31 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 10 | 6.31 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 16 | 6.31 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 16 | 6.31 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 5 | 6.31 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 5 | 6.31 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 5 | 6.31 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 14 | 6.31 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 13 | 6.31 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 13 | 6.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 13 | 6.31 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 6 | 6.31 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 10 | 6.31 |
| (1,5760) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 10 | 6.31 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 3 | 6.31 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 1 | 6.31 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 1 | 6.31 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 1 | 6.31 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 1 | 6.31 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 1 | 6.31 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 1 | 6.31 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 1 | 6.31 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 1 | 6.31 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 1 | 6.31 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 4 | 6.31 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 4 | 6.31 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 4 | 6.31 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 5 | 6.31 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 5 | 6.31 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 5 | 6.31 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 15 | 6.31 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 15 | 6.31 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 17 | 6.31 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 17 | 6.31 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 8 | 6.31 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 6.31 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 6.31 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 6.31 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 6.31 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 6.31 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 6.31 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 6.31 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 6.31 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 6.31 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 13 | 6.31 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 10 | 6.31 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 10 | 6.31 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 12 | 6.31 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 12 | 6.31 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 1 | 6.31 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 4 | 6.31 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 4 | 6.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 17 | 6.31 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 16 | 6.31 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 16 | 6.31 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 16 | 6.31 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 16 | 6.31 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 16 | 6.31 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 16 | 6.31 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 6 | 6.31 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 19 | 6.31 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 19 | 6.31 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 19 | 6.31 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 18 | 6.31 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 13 | 6.31 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 5 | 6.31 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 5 | 6.31 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 7 | 6.31 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 7 | 6.31 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 7 | 6.31 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 14 | 6.31 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 7 | 6.31 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 20 | 6.31 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 20 | 6.31 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 13 | 6.31 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 3 | 6.31 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 3 | 6.31 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 3 | 6.31 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 10 | 6.31 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 10 | 6.31 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 16 | 6.31 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 16 | 6.31 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 18 | 6.31 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 10 | 6.31 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 5 | 6.31 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 5 | 6.31 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 5 | 6.31 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 14 | 6.31 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 18 | 6.31 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 18 | 6.31 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 18 | 6.31 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 13 | 6.31 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 13 | 6.31 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 13 | 6.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 7 | 6.31 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 6 | 6.31 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 10 | 6.31 |
| (1,1096) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 10 | 6.31 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 9 | 6.31 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 3 | 6.31 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 8 | 6.3 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 5 | 6.3 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 5 | 6.3 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 2 | 6.3 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 2 | 6.3 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 9 | 6.3 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 9 | 6.3 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 14 | 6.3 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 14 | 6.3 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 1 | 6.3 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 1 | 6.3 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 19 | 6.3 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 19 | 6.3 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 19 | 6.3 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 19 | 6.3 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 4 | 6.3 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 4 | 6.3 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 4 | 6.3 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 4 | 6.3 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 4 | 6.3 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 4 | 6.3 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 2 | 6.3 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 2 | 6.3 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 17 | 6.3 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 17 | 6.3 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 17 | 6.3 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 17 | 6.3 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 17 | 6.3 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 17 | 6.3 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 19 | 6.3 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 19 | 6.3 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 10 | 6.3 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 10 | 6.3 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 2 | 6.3 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 2 | 6.3 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 10 | 6.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 10 | 6.3 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 18 | 6.3 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 18 | 6.3 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 5 | 6.3 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 5 | 6.3 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 3 | 6.3 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 3 | 6.3 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 20 | 6.3 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 20 | 6.3 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 20 | 6.3 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 12 | 6.3 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 12 | 6.3 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 16 | 6.3 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 16 | 6.3 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 11 | 6.3 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 11 | 6.3 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 19 | 6.3 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 19 | 6.3 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 19 | 6.3 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 3 | 6.3 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 17 | 6.3 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 10 | 6.3 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 10 | 6.3 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 10 | 6.3 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 12 | 6.3 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 12 | 6.3 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 14 | 6.3 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 15 | 6.3 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 14 | 6.3 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 14 | 6.3 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 17 | 6.3 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 16 | 6.3 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 16 | 6.3 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 16 | 6.3 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 2 | 6.3 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 2 | 6.3 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 2 | 6.3 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 5 | 6.3 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 5 | 6.3 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 5 | 6.3 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 8 | 6.3 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 8 | 6.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 17 | 6.3 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 17 | 6.3 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 17 | 6.3 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 3 | 6.3 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 20 | 6.3 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 10 | 6.3 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 10 | 6.3 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 10 | 6.3 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 5 | 6.3 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 13 | 6.3 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 20 | 6.3 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 20 | 6.3 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 20 | 6.3 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 7 | 6.3 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 7 | 6.3 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 7 | 6.3 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 14 | 6.3 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 13 | 6.3 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 13 | 6.3 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 13 | 6.3 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 13 | 6.3 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 13 | 6.3 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 13 | 6.3 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 15 | 6.3 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 15 | 6.3 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 15 | 6.3 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 15 | 6.3 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 11 | 6.3 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 14 | 6.3 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 4 | 6.3 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 4 | 6.3 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 4 | 6.3 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 4 | 6.3 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 4 | 6.3 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 4 | 6.3 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 19 | 6.3 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 19 | 6.3 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 15 | 6.3 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 10 | 6.3 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 10 | 6.3 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 9 | 6.3 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 9 | 6.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 5 | 6.3 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 9 | 6.3 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 19 | 6.3 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 13 | 6.3 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 10 | 6.3 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 20 | 6.3 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 20 | 6.3 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 20 | 6.3 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 7 | 6.3 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 7 | 6.3 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 7 | 6.3 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 6 | 6.3 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 6 | 6.3 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 14 | 6.3 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 14 | 6.3 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 14 | 6.3 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 13 | 6.3 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 13 | 6.3 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 13 | 6.3 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 13 | 6.3 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 6.3 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 4 | 6.3 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 4 | 6.3 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 4 | 6.3 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 4 | 6.3 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 4 | 6.3 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 4 | 6.3 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 11 | 6.29 |
| (4,141) | 1:90:A:ASN:CB | 1:49:A:GLN:H | 16 | 6.29 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 18 | 6.29 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 2 | 6.29 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 2 | 6.29 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 2 | 6.29 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 2 | 6.29 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 6 | 6.29 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 6 | 6.29 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 8 | 6.29 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 8 | 6.29 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 9 | 6.29 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 9 | 6.29 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 6 | 6.29 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 6 | 6.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 6 | 6.29 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 6 | 6.29 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 7 | 6.29 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 7 | 6.29 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 7 | 6.29 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 7 | 6.29 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 7 | 6.29 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 7 | 6.29 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 15 | 6.29 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 15 | 6.29 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 12 | 6.29 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 12 | 6.29 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 12 | 6.29 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 12 | 6.29 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 2 | 6.29 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 2 | 6.29 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 2 | 6.29 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 2 | 6.29 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 2 | 6.29 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 2 | 6.29 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 2 | 6.29 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 2 | 6.29 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 12 | 6.29 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 12 | 6.29 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 12 | 6.29 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 4 | 6.29 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 4 | 6.29 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 4 | 6.29 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 18 | 6.29 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 16 | 6.29 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 16 | 6.29 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 16 | 6.29 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 11 | 6.29 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 11 | 6.29 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 11 | 6.29 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 2 | 6.29 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 2 | 6.29 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 15 | 6.29 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 15 | 6.29 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 9 | 6.29 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 8 | 6.29 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 8 | 6.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 10 | 6.29 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 10 | 6.29 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 10 | 6.29 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 20 | 6.29 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 20 | 6.29 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 20 | 6.29 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 9 | 6.29 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 9 | 6.29 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 9 | 6.29 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 6 | 6.29 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 6 | 6.29 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 6 | 6.29 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 6 | 6.29 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 6 | 6.29 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 14 | 6.29 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 5 | 6.29 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 5 | 6.29 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 11 | 6.29 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 11 | 6.29 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 9 | 6.29 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 9 | 6.29 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 1 | 6.29 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 14 | 6.29 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 14 | 6.29 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 14 | 6.29 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 5 | 6.29 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 5 | 6.29 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 5 | 6.29 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 13 | 6.29 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 13 | 6.29 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 13 | 6.29 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 7 | 6.29 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 7 | 6.29 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 15 | 6.29 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 15 | 6.29 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 15 | 6.29 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 19 | 6.29 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 1 | 6.29 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 9 | 6.29 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 8 | 6.29 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 8 | 6.29 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 8 | 6.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 20 | 6.29 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 20 | 6.29 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 20 | 6.29 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 5 | 6.29 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 13 | 6.29 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 13 | 6.29 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 1 | 6.29 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 15 | 6.29 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 7 | 6.29 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 10 | 6.29 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 10 | 6.29 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 10 | 6.29 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 1 | 6.29 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 1 | 6.29 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 1 | 6.29 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 16 | 6.29 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 16 | 6.29 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 16 | 6.29 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 18 | 6.29 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 18 | 6.29 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 18 | 6.29 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 20 | 6.29 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 3 | 6.29 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 3 | 6.29 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 3 | 6.29 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 5 | 6.29 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 5 | 6.29 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 5 | 6.29 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 10 | 6.29 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 19 | 6.29 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 1 | 6.29 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 1 | 6.29 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 6 | 6.29 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 2 | 6.29 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 2 | 6.29 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 1 | 6.29 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 8 | 6.29 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 8 | 6.29 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 9 | 6.29 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 9 | 6.29 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 12 | 6.29 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 17 | 6.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 5 | 6.29 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 12 | 6.29 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 19 | 6.29 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 7 | 6.29 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 2 | 6.29 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 2 | 6.29 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 16 | 6.29 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 2 | 6.29 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 2 | 6.29 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 2 | 6.29 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 2 | 6.29 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 2 | 6.29 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 2 | 6.29 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 6 | 6.29 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 5 | 6.29 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 12 | 6.29 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 4 | 6.29 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 4 | 6.29 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 15 | 6.29 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 7 | 6.29 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 10 | 6.29 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 10 | 6.29 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 10 | 6.29 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 12 | 6.29 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 1 | 6.29 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 1 | 6.29 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 1 | 6.29 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 16 | 6.29 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 16 | 6.29 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 16 | 6.29 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 5 | 6.29 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 13 | 6.29 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 13 | 6.29 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 5 | 6.29 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 18 | 6.29 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 18 | 6.29 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 18 | 6.29 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 20 | 6.29 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 19 | 6.29 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 2 | 6.28 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 19 | 6.28 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 17 | 6.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 17 | 6.28 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 17 | 6.28 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 17 | 6.28 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 17 | 6.28 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 17 | 6.28 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 19 | 6.28 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 19 | 6.28 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 19 | 6.28 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 19 | 6.28 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 19 | 6.28 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 19 | 6.28 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 12 | 6.28 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 12 | 6.28 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 10 | 6.28 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 10 | 6.28 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 18 | 6.28 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 18 | 6.28 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 14 | 6.28 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 14 | 6.28 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 14 | 6.28 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 14 | 6.28 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 16 | 6.28 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 16 | 6.28 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 19 | 6.28 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 19 | 6.28 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 12 | 6.28 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 12 | 6.28 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 12 | 6.28 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 12 | 6.28 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 12 | 6.28 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 12 | 6.28 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 15 | 6.28 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 15 | 6.28 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 17 | 6.28 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 17 | 6.28 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 9 | 6.28 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 9 | 6.28 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 9 | 6.28 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 9 | 6.28 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 9 | 6.28 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 9 | 6.28 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 20 | 6.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 20 | 6.28 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 13 | 6.28 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 13 | 6.28 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 13 | 6.28 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 20 | 6.28 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 19 | 6.28 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 19 | 6.28 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 8 | 6.28 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 10 | 6.28 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 2 | 6.28 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 2 | 6.28 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 2 | 6.28 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 11 | 6.28 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 11 | 6.28 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 11 | 6.28 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 6 | 6.28 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 18 | 6.28 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 14 | 6.28 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 14 | 6.28 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 14 | 6.28 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 8 | 6.28 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 8 | 6.28 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 8 | 6.28 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 11 | 6.28 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 20 | 6.28 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 3 | 6.28 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 3 | 6.28 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 3 | 6.28 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 2 | 6.28 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 2 | 6.28 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 2 | 6.28 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 2 | 6.28 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 2 | 6.28 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 2 | 6.28 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 2 | 6.28 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 2 | 6.28 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 2 | 6.28 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 10 | 6.28 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 19 | 6.28 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 1 | 6.28 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 1 | 6.28 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 1 | 6.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 8 | 6.28 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 8 | 6.28 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 8 | 6.28 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 17 | 6.28 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 17 | 6.28 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 17 | 6.28 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 17 | 6.28 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 17 | 6.28 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 17 | 6.28 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 3 | 6.28 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 3 | 6.28 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 13 | 6.28 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 13 | 6.28 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 13 | 6.28 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 4 | 6.28 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 2 | 6.28 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 2 | 6.28 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 2 | 6.28 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 13 | 6.28 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 13 | 6.28 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 13 | 6.28 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 8 | 6.28 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 8 | 6.28 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 8 | 6.28 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 4 | 6.28 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 4 | 6.28 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 4 | 6.28 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 4 | 6.28 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 4 | 6.28 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 4 | 6.28 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 12 | 6.28 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 17 | 6.28 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 20 | 6.28 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 6 | 6.28 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 6 | 6.28 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 6 | 6.28 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 17 | 6.28 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 17 | 6.28 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 17 | 6.28 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 17 | 6.28 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 17 | 6.28 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 17 | 6.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 11 | 6.28 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 4 | 6.28 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 4 | 6.28 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 4 | 6.28 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 4 | 6.28 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 4 | 6.28 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 4 | 6.28 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 6.28 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 7 | 6.28 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 7 | 6.28 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 7 | 6.28 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 2 | 6.28 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 2 | 6.28 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 3 | 6.28 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 3 | 6.28 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 7 | 6.28 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 7 | 6.28 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 14 | 6.28 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 12 | 6.28 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 12 | 6.28 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 17 | 6.28 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 19 | 6.28 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 16 | 6.28 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 19 | 6.28 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 19 | 6.28 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 12 | 6.28 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 12 | 6.28 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 12 | 6.28 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 12 | 6.28 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 12 | 6.28 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 12 | 6.28 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 8 | 6.28 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 4 | 6.28 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 17 | 6.28 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 17 | 6.28 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 19 | 6.28 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 10 | 6.28 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 19 | 6.28 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 15 | 6.28 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 1 | 6.28 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 1 | 6.28 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 1 | 6.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 8 | 6.28 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 8 | 6.28 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 8 | 6.28 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 17 | 6.28 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 17 | 6.28 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 17 | 6.28 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 17 | 6.28 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 17 | 6.28 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 17 | 6.28 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 3 | 6.28 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 3 | 6.28 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 13 | 6.28 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 13 | 6.28 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 13 | 6.28 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 4 | 6.28 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 4 | 6.28 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 4 | 6.28 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 4 | 6.28 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 14 | 6.28 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 12 | 6.28 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 2 | 6.28 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 2 | 6.28 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 2 | 6.28 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 15 | 6.28 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 15 | 6.28 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 15 | 6.28 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 13 | 6.28 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 13 | 6.28 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 13 | 6.28 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 8 | 6.28 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 8 | 6.28 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 8 | 6.28 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 4 | 6.28 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 4 | 6.28 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 4 | 6.28 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 4 | 6.28 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 4 | 6.28 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 4 | 6.28 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 12 | 6.28 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 16 | 6.28 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 16 | 6.28 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 16 | 6.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 17 | 6.28 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 4 | 6.28 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 18 | 6.27 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 18 | 6.27 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 20 | 6.27 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 15 | 6.27 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 5 | 6.27 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 5 | 6.27 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 5 | 6.27 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 5 | 6.27 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 5 | 6.27 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 5 | 6.27 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 2 | 6.27 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 2 | 6.27 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 2 | 6.27 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 2 | 6.27 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 2 | 6.27 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 2 | 6.27 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 7 | 6.27 |
| (1,9460) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 7 | 6.27 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 7 | 6.27 |
| (1,9460) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 7 | 6.27 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 20 | 6.27 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 20 | 6.27 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 7 | 6.27 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 7 | 6.27 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 5 | 6.27 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 5 | 6.27 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 5 | 6.27 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 5 | 6.27 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 5 | 6.27 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 5 | 6.27 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 6.27 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 6.27 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 6.27 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 6.27 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 6.27 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 6.27 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 10 | 6.27 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 10 | 6.27 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 9 | 6.27 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 9 | 6.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 6 | 6.27 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 6 | 6.27 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 4 | 6.27 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 4 | 6.27 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 11 | 6.27 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 11 | 6.27 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 9 | 6.27 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 9 | 6.27 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 16 | 6.27 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 16 | 6.27 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 16 | 6.27 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 16 | 6.27 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 9 | 6.27 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 9 | 6.27 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 9 | 6.27 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 9 | 6.27 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 18 | 6.27 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 18 | 6.27 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 9 | 6.27 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 9 | 6.27 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 9 | 6.27 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 9 | 6.27 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 9 | 6.27 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 9 | 6.27 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 19 | 6.27 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 19 | 6.27 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 13 | 6.27 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 13 | 6.27 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 10 | 6.27 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 10 | 6.27 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 10 | 6.27 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 10 | 6.27 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 10 | 6.27 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 10 | 6.27 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 16 | 6.27 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 16 | 6.27 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 16 | 6.27 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 6 | 6.27 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 6 | 6.27 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 6 | 6.27 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 6 | 6.27 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 6 | 6.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 6 | 6.27 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 6 | 6.27 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 6 | 6.27 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 6 | 6.27 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 13 | 6.27 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 13 | 6.27 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 13 | 6.27 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 13 | 6.27 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 2 | 6.27 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 15 | 6.27 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 20 | 6.27 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 4 | 6.27 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 4 | 6.27 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 4 | 6.27 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 15 | 6.27 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 15 | 6.27 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 15 | 6.27 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 17 | 6.27 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 3 | 6.27 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 3 | 6.27 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 13 | 6.27 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 13 | 6.27 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 13 | 6.27 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 5 | 6.27 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 5 | 6.27 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 7 | 6.27 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 7 | 6.27 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 7 | 6.27 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 17 | 6.27 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 4 | 6.27 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 4 | 6.27 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 4 | 6.27 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 14 | 6.27 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 14 | 6.27 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 20 | 6.27 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 20 | 6.27 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 1 | 6.27 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 1 | 6.27 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 1 | 6.27 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 12 | 6.27 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 10 | 6.27 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 10 | 6.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 10 | 6.27 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 3 | 6.27 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 3 | 6.27 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 3 | 6.27 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 16 | 6.27 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 16 | 6.27 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 16 | 6.27 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 3 | 6.27 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 6 | 6.27 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 3 | 6.27 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 3 | 6.27 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 3 | 6.27 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 3 | 6.27 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 18 | 6.27 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 18 | 6.27 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 18 | 6.27 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 11 | 6.27 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 11 | 6.27 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 11 | 6.27 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 1 | 6.27 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 13 | 6.27 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 6 | 6.27 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 6 | 6.27 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 6 | 6.27 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 2 | 6.27 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 7 | 6.27 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 8 | 6.27 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 10 | 6.27 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 10 | 6.27 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 11 | 6.27 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 11 | 6.27 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 11 | 6.27 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 20 | 6.27 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 20 | 6.27 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 20 | 6.27 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 12 | 6.27 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 12 | 6.27 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 12 | 6.27 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 20 | 6.27 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 20 | 6.27 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 20 | 6.27 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 4 | 6.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 7 | 6.27 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 7 | 6.27 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 7 | 6.27 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 10 | 6.27 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 10 | 6.27 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 10 | 6.27 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 14 | 6.27 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 14 | 6.27 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 14 | 6.27 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 4 | 6.27 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 5 | 6.27 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 5 | 6.27 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 5 | 6.27 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 5 | 6.27 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 5 | 6.27 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 5 | 6.27 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 5 | 6.27 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 5 | 6.27 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 5 | 6.27 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 5 | 6.27 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 5 | 6.27 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 5 | 6.27 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 7 | 6.27 |
| (1,4450) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 7 | 6.27 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 7 | 6.27 |
| (1,4450) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 7 | 6.27 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 6.27 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 6.27 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 6.27 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 6.27 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 6.27 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 6.27 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 3 | 6.27 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 6 | 6.27 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 6 | 6.27 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 9 | 6.27 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 9 | 6.27 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 16 | 6.27 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 16 | 6.27 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 16 | 6.27 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 16 | 6.27 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 9 | 6.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 9 | 6.27 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 9 | 6.27 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 9 | 6.27 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 9 | 6.27 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 9 | 6.27 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 4 | 6.27 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 17 | 6.27 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 17 | 6.27 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 17 | 6.27 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 2 | 6.27 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 7 | 6.27 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 8 | 6.27 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 5 | 6.27 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 5 | 6.27 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 10 | 6.27 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 10 | 6.27 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 15 | 6.27 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 15 | 6.27 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 15 | 6.27 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 11 | 6.27 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 11 | 6.27 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 11 | 6.27 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 20 | 6.27 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 20 | 6.27 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 20 | 6.27 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 17 | 6.27 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 12 | 6.27 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 12 | 6.27 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 12 | 6.27 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 20 | 6.27 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 20 | 6.27 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 20 | 6.27 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 12 | 6.27 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 12 | 6.27 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 12 | 6.27 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 17 | 6.27 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 18 | 6.26 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 3 | 6.26 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 3 | 6.26 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 4 | 6.26 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 4 | 6.26 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 4 | 6.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 4 | 6.26 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 4 | 6.26 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 4 | 6.26 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 4 | 6.26 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 4 | 6.26 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 2 | 6.26 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 2 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 6.26 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 6.26 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 18 | 6.26 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 18 | 6.26 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 6 | 6.26 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 6 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 8 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 8 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 8 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 8 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 8 | 6.26 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 8 | 6.26 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 13 | 6.26 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 13 | 6.26 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 13 | 6.26 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 13 | 6.26 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 10 | 6.26 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 10 | 6.26 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 10 | 6.26 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 10 | 6.26 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 8 | 6.26 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 8 | 6.26 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 3 | 6.26 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 3 | 6.26 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 8 | 6.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 8 | 6.26 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 9 | 6.26 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 9 | 6.26 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 9 | 6.26 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 9 | 6.26 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 14 | 6.26 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 14 | 6.26 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 14 | 6.26 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 14 | 6.26 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 20 | 6.26 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 20 | 6.26 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 3 | 6.26 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 3 | 6.26 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 20 | 6.26 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 20 | 6.26 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 20 | 6.26 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 4 | 6.26 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 2 | 6.26 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 2 | 6.26 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 2 | 6.26 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 14 | 6.26 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 5 | 6.26 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 10 | 6.26 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 13 | 6.26 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 1 | 6.26 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 8 | 6.26 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 9 | 6.26 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 13 | 6.26 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 13 | 6.26 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 2 | 6.26 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 1 | 6.26 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 9 | 6.26 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 9 | 6.26 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 9 | 6.26 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 1 | 6.26 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 15 | 6.26 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 15 | 6.26 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 17 | 6.26 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 6 | 6.26 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 6 | 6.26 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 17 | 6.26 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 17 | 6.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 17 | 6.26 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 18 | 6.26 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 18 | 6.26 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 18 | 6.26 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 14 | 6.26 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 11 | 6.26 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 11 | 6.26 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 11 | 6.26 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 18 | 6.26 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 10 | 6.26 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 10 | 6.26 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 10 | 6.26 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 20 | 6.26 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 20 | 6.26 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 20 | 6.26 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 4 | 6.26 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 7 | 6.26 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 13 | 6.26 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 3 | 6.26 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 3 | 6.26 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 3 | 6.26 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 1 | 6.26 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 14 | 6.26 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 14 | 6.26 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 14 | 6.26 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 8 | 6.26 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 8 | 6.26 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 8 | 6.26 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 20 | 6.26 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 20 | 6.26 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 20 | 6.26 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 18 | 6.26 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 18 | 6.26 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 18 | 6.26 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 13 | 6.26 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 16 | 6.26 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 14 | 6.26 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 8 | 6.26 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 8 | 6.26 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 8 | 6.26 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 11 | 6.26 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 11 | 6.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 11 | 6.26 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 19 | 6.26 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 19 | 6.26 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 19 | 6.26 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 18 | 6.26 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 20 | 6.26 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 20 | 6.26 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 20 | 6.26 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 2 | 6.26 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 2 | 6.26 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 2 | 6.26 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 9 | 6.26 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 6.26 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 6.26 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 6.26 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 6.26 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 6.26 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 6.26 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 4 | 6.26 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 4 | 6.26 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 4 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 6.26 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 6.26 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 18 | 6.26 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 18 | 6.26 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 6 | 6.26 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 6 | 6.26 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 10 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 8 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 8 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 8 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 8 | 6.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 8 | 6.26 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 8 | 6.26 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 18 | 6.26 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 11 | 6.26 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 14 | 6.26 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 7 | 6.26 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 7 | 6.26 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 7 | 6.26 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 9 | 6.26 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 9 | 6.26 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 9 | 6.26 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 4 | 6.26 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 6.26 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 8 | 6.26 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 18 | 6.26 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 3 | 6.26 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 3 | 6.26 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 8 | 6.26 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 8 | 6.26 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 4 | 6.26 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 6.26 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 4 | 6.26 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 3 | 6.26 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 3 | 6.26 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 6.26 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 11 | 6.26 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 11 | 6.26 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 13 | 6.26 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 13 | 6.26 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 9 | 6.26 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 9 | 6.26 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 9 | 6.26 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 7 | 6.26 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 3 | 6.26 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 3 | 6.26 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 3 | 6.26 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 18 | 6.26 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 18 | 6.26 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 18 | 6.26 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 5 | 6.26 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 5 | 6.26 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 5 | 6.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 14 | 6.26 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 14 | 6.26 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 14 | 6.26 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 5 | 6.26 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 16 | 6.26 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 16 | 6.26 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 16 | 6.26 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 8 | 6.26 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 8 | 6.26 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 8 | 6.26 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 20 | 6.26 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 20 | 6.26 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 20 | 6.26 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 18 | 6.26 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 18 | 6.26 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 18 | 6.26 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 4 | 6.26 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 13 | 6.26 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 16 | 6.26 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 16 | 6.26 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 16 | 6.26 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 16 | 6.26 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 14 | 6.26 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 2 | 6.25 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 2 | 6.25 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 15 | 6.25 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 17 | 6.25 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 3 | 6.25 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 3 | 6.25 |
| (4,7) | 1:15:A:MET:CB | 1:53:A:ALA:H | 17 | 6.25 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 11 | 6.25 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 11 | 6.25 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 7 | 6.25 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 7 | 6.25 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 12 | 6.25 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 12 | 6.25 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 12 | 6.25 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 12 | 6.25 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 12 | 6.25 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 12 | 6.25 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 15 | 6.25 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 15 | 6.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 19 | 6.25 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 19 | 6.25 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 5 | 6.25 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 5 | 6.25 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 13 | 6.25 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 13 | 6.25 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 13 | 6.25 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 13 | 6.25 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 13 | 6.25 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 13 | 6.25 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 10 | 6.25 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 10 | 6.25 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 1 | 6.25 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 1 | 6.25 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 1 | 6.25 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 1 | 6.25 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 14 | 6.25 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 14 | 6.25 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 10 | 6.25 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 10 | 6.25 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 13 | 6.25 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 13 | 6.25 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 2 | 6.25 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 2 | 6.25 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 2 | 6.25 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 2 | 6.25 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 2 | 6.25 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 2 | 6.25 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 20 | 6.25 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 20 | 6.25 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 20 | 6.25 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 17 | 6.25 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 17 | 6.25 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 17 | 6.25 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 13 | 6.25 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 13 | 6.25 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 11 | 6.25 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 11 | 6.25 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 14 | 6.25 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 14 | 6.25 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 14 | 6.25 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 1 | 6.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 16 | 6.25 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 20 | 6.25 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 9 | 6.25 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 20 | 6.25 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 13 | 6.25 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 13 | 6.25 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 13 | 6.25 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 3 | 6.25 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 3 | 6.25 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 19 | 6.25 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 19 | 6.25 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 13 | 6.25 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 5 | 6.25 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 5 | 6.25 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 5 | 6.25 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 12 | 6.25 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 12 | 6.25 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 12 | 6.25 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 12 | 6.25 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 12 | 6.25 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 12 | 6.25 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 12 | 6.25 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 12 | 6.25 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 12 | 6.25 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 6 | 6.25 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 6 | 6.25 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 6 | 6.25 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 2 | 6.25 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 2 | 6.25 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 2 | 6.25 |
| (1,7778) | 1:57:A:CYS:HB3 | 1:59:A:HIS:H | 8 | 6.25 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 20 | 6.25 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 20 | 6.25 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 20 | 6.25 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 10 | 6.25 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 10 | 6.25 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 10 | 6.25 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 9 | 6.25 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 9 | 6.25 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 8 | 6.25 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 2 | 6.25 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 2 | 6.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 2 | 6.25 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 15 | 6.25 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 19 | 6.25 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 19 | 6.25 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 10 | 6.25 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 18 | 6.25 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 18 | 6.25 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 18 | 6.25 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 14 | 6.25 |
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 14 | 6.25 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 14 | 6.25 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 9 | 6.25 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 9 | 6.25 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 9 | 6.25 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 8 | 6.25 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 8 | 6.25 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 8 | 6.25 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 4 | 6.25 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 16 | 6.25 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 16 | 6.25 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 13 | 6.25 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 15 | 6.25 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 18 | 6.25 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 17 | 6.25 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 17 | 6.25 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 17 | 6.25 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 12 | 6.25 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 12 | 6.25 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 12 | 6.25 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 9 | 6.25 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 9 | 6.25 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 9 | 6.25 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 9 | 6.25 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 9 | 6.25 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 9 | 6.25 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 2 | 6.25 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 8 | 6.25 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 13 | 6.25 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 2 | 6.25 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 2 | 6.25 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 2 | 6.25 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 19 | 6.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 19 | 6.25 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 19 | 6.25 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 14 | 6.25 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 8 | 6.25 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 18 | 6.25 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 8 | 6.25 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 4 | 6.25 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 8 | 6.25 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 5 | 6.25 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 5 | 6.25 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 13 | 6.25 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 13 | 6.25 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 13 | 6.25 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 13 | 6.25 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 13 | 6.25 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 13 | 6.25 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 13 | 6.25 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 16 | 6.25 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 10 | 6.25 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 10 | 6.25 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 10 | 6.25 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 2 | 6.25 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 5 | 6.25 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 6.25 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 6.25 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 11 | 6.25 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 9 | 6.25 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 9 | 6.25 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 9 | 6.25 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 17 | 6.25 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 6 | 6.25 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 8 | 6.25 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 8 | 6.25 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 8 | 6.25 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 4 | 6.25 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 16 | 6.25 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 16 | 6.25 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 13 | 6.25 |
| (1,2520) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 14 | 6.25 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 15 | 6.25 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 18 | 6.25 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 17 | 6.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 17 | 6.25 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 17 | 6.25 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 4 | 6.25 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 12 | 6.25 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 12 | 6.25 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 12 | 6.25 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 14 | 6.25 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 9 | 6.25 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 9 | 6.25 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 9 | 6.25 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 9 | 6.25 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 9 | 6.25 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 9 | 6.25 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 2 | 6.25 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 8 | 6.25 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 13 | 6.25 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 5 | 6.25 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 5 | 6.25 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 2 | 6.25 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 2 | 6.25 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 2 | 6.25 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 19 | 6.25 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 19 | 6.25 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 19 | 6.25 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 14 | 6.25 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 12 | 6.24 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 2 | 6.24 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 2 | 6.24 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 2 | 6.24 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 2 | 6.24 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 2 | 6.24 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 2 | 6.24 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 4 | 6.24 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 4 | 6.24 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 4 | 6.24 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 4 | 6.24 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 4 | 6.24 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 4 | 6.24 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 19 | 6.24 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 19 | 6.24 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 7 | 6.24 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 7 | 6.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 9 | 6.24 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 9 | 6.24 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 5 | 6.24 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 5 | 6.24 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 5 | 6.24 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 5 | 6.24 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 5 | 6.24 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 5 | 6.24 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 18 | 6.24 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 18 | 6.24 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 15 | 6.24 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 15 | 6.24 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 15 | 6.24 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 15 | 6.24 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 15 | 6.24 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 15 | 6.24 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 15 | 6.24 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 15 | 6.24 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 7 | 6.24 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 7 | 6.24 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 10 | 6.24 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 10 | 6.24 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 10 | 6.24 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 10 | 6.24 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 10 | 6.24 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 10 | 6.24 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 2 | 6.24 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 2 | 6.24 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 20 | 6.24 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 20 | 6.24 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG21 | 15 | 6.24 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG22 | 15 | 6.24 |
| (1,8460) | 1:148:A:GLY:H | 1:159:A:ILE:HG23 | 15 | 6.24 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 5 | 6.24 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 5 | 6.24 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 20 | 6.24 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 20 | 6.24 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 20 | 6.24 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 19 | 6.24 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 2 | 6.24 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 10 | 6.24 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 10 | 6.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 10 | 6.24 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 9 | 6.24 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 9 | 6.24 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 6 | 6.24 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 6 | 6.24 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 6 | 6.24 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 15 | 6.24 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 15 | 6.24 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 15 | 6.24 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 4 | 6.24 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 4 | 6.24 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 4 | 6.24 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 4 | 6.24 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 10 | 6.24 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 18 | 6.24 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 18 | 6.24 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 18 | 6.24 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 3 | 6.24 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 20 | 6.24 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 12 | 6.24 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 12 | 6.24 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 12 | 6.24 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 6 | 6.24 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 6 | 6.24 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 6 | 6.24 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 10 | 6.24 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 10 | 6.24 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 10 | 6.24 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 18 | 6.24 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 1 | 6.24 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 1 | 6.24 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 1 | 6.24 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 5 | 6.24 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 5 | 6.24 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 5 | 6.24 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 13 | 6.24 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 13 | 6.24 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 14 | 6.24 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 11 | 6.24 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 11 | 6.24 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 15 | 6.24 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 15 | 6.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 15 | 6.24 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 8 | 6.24 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 4 | 6.24 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 20 | 6.24 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 10 | 6.24 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 10 | 6.24 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 10 | 6.24 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 14 | 6.24 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 13 | 6.24 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 13 | 6.24 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 13 | 6.24 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 16 | 6.24 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 15 | 6.24 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 15 | 6.24 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 18 | 6.24 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 13 | 6.24 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 13 | 6.24 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 13 | 6.24 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 13 | 6.24 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 13 | 6.24 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 13 | 6.24 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 1 | 6.24 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 1 | 6.24 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 1 | 6.24 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 5 | 6.24 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 5 | 6.24 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 5 | 6.24 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 20 | 6.24 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 20 | 6.24 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 20 | 6.24 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 18 | 6.24 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 9 | 6.24 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 9 | 6.24 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 14 | 6.24 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 14 | 6.24 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 14 | 6.24 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 3 | 6.24 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 3 | 6.24 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 3 | 6.24 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 9 | 6.24 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 8 | 6.24 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 8 | 6.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 8 | 6.24 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 8 | 6.24 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 9 | 6.24 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 11 | 6.24 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 15 | 6.24 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 15 | 6.24 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 15 | 6.24 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 17 | 6.24 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 17 | 6.24 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 9 | 6.24 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 2 | 6.24 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 18 | 6.24 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 18 | 6.24 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 15 | 6.24 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 7 | 6.24 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 7 | 6.24 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 10 | 6.24 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 10 | 6.24 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 10 | 6.24 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 10 | 6.24 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 10 | 6.24 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 10 | 6.24 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 2 | 6.24 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 2 | 6.24 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 11 | 6.24 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 11 | 6.24 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 10 | 6.24 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 17 | 6.24 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 18 | 6.24 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 6.24 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 16 | 6.24 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 15 | 6.24 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 15 | 6.24 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 18 | 6.24 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 8 | 6.24 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 8 | 6.24 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 8 | 6.24 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 13 | 6.24 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 13 | 6.24 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 13 | 6.24 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 13 | 6.24 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 13 | 6.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 13 | 6.24 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 1 | 6.24 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 1 | 6.24 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 1 | 6.24 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 1 | 6.24 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 1 | 6.24 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 5 | 6.24 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 5 | 6.24 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 5 | 6.24 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 20 | 6.24 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 20 | 6.24 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 20 | 6.24 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 18 | 6.24 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 6 | 6.24 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 13 | 6.24 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 13 | 6.24 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 13 | 6.24 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 9 | 6.24 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 9 | 6.24 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 14 | 6.24 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 14 | 6.24 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 14 | 6.24 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 19 | 6.24 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 3 | 6.24 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 3 | 6.24 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 3 | 6.24 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 9 | 6.24 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 4 | 6.24 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 4 | 6.24 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 4 | 6.24 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 8 | 6.24 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 8 | 6.24 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 8 | 6.24 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 16 | 6.23 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 1 | 6.23 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 1 | 6.23 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 9 | 6.23 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 9 | 6.23 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 9 | 6.23 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 9 | 6.23 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 9 | 6.23 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 9 | 6.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 4 | 6.23 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 4 | 6.23 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 4 | 6.23 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 4 | 6.23 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 11 | 6.23 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 11 | 6.23 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 9 | 6.23 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 9 | 6.23 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 9 | 6.23 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 9 | 6.23 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 9 | 6.23 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 9 | 6.23 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 18 | 6.23 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 18 | 6.23 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 3 | 6.23 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 3 | 6.23 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 7 | 6.23 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 7 | 6.23 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 20 | 6.23 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 20 | 6.23 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 8 | 6.23 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 8 | 6.23 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 16 | 6.23 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 16 | 6.23 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 1 | 6.23 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 1 | 6.23 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 8 | 6.23 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 8 | 6.23 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 9 | 6.23 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 9 | 6.23 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 9 | 6.23 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 9 | 6.23 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 6.23 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 6.23 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 6.23 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 6.23 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 6.23 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 6.23 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 6.23 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 6.23 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 8 | 6.23 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 8 | 6.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 8 | 6.23 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 13 | 6.23 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 13 | 6.23 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 13 | 6.23 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 3 | 6.23 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 13 | 6.23 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 13 | 6.23 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 11 | 6.23 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 8 | 6.23 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 11 | 6.23 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 17 | 6.23 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 17 | 6.23 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 1 | 6.23 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 1 | 6.23 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 1 | 6.23 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 6 | 6.23 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 6 | 6.23 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 6 | 6.23 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 6 | 6.23 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 6 | 6.23 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 6 | 6.23 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 8 | 6.23 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 8 | 6.23 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 8 | 6.23 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 19 | 6.23 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 19 | 6.23 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 19 | 6.23 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 19 | 6.23 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 19 | 6.23 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 19 | 6.23 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 19 | 6.23 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 19 | 6.23 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 19 | 6.23 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 19 | 6.23 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 13 | 6.23 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 13 | 6.23 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 18 | 6.23 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 18 | 6.23 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 18 | 6.23 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 3 | 6.23 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 3 | 6.23 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 3 | 6.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 7 | 6.23 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 7 | 6.23 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 7 | 6.23 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 16 | 6.23 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 12 | 6.23 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 12 | 6.23 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 12 | 6.23 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 16 | 6.23 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 13 | 6.23 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 2 | 6.23 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 2 | 6.23 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 2 | 6.23 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 12 | 6.23 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 12 | 6.23 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 12 | 6.23 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 11 | 6.23 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 1 | 6.23 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 10 | 6.23 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 16 | 6.23 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 4 | 6.23 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 4 | 6.23 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 4 | 6.23 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 19 | 6.23 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 19 | 6.23 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 8 | 6.23 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 9 | 6.23 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 9 | 6.23 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 4 | 6.23 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 14 | 6.23 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 2 | 6.23 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 20 | 6.23 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 16 | 6.23 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 16 | 6.23 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 16 | 6.23 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 7 | 6.23 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 7 | 6.23 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 7 | 6.23 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 7 | 6.23 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 13 | 6.23 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 13 | 6.23 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 13 | 6.23 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 3 | 6.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 3 | 6.23 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 3 | 6.23 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 13 | 6.23 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 13 | 6.23 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 13 | 6.23 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 18 | 6.23 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 18 | 6.23 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 18 | 6.23 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 14 | 6.23 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 9 | 6.23 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 9 | 6.23 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 9 | 6.23 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 9 | 6.23 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 9 | 6.23 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 9 | 6.23 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 2 | 6.23 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 2 | 6.23 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 13 | 6.23 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 9 | 6.23 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 5 | 6.23 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 15 | 6.23 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 12 | 6.23 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 12 | 6.23 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 12 | 6.23 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 12 | 6.23 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 11 | 6.23 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 11 | 6.23 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 9 | 6.23 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 9 | 6.23 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 9 | 6.23 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 9 | 6.23 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 9 | 6.23 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 9 | 6.23 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 1 | 6.23 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 1 | 6.23 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 1 | 6.23 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 4 | 6.23 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 3 | 6.23 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 3 | 6.23 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 5 | 6.23 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 4 | 6.23 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 2 | 6.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 10 | 6.23 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 1 | 6.23 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 1 | 6.23 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 8 | 6.23 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 8 | 6.23 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 10 | 6.23 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 6.23 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 6.23 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 6.23 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 6.23 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 6.23 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 6.23 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 13 | 6.23 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 12 | 6.23 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 12 | 6.23 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 10 | 6.23 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 6.23 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 10 | 6.23 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 6.23 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 6.23 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 7 | 6.23 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 8 | 6.23 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 9 | 6.23 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 9 | 6.23 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 1 | 6.23 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 18 | 6.23 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 4 | 6.23 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 14 | 6.23 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 2 | 6.23 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 20 | 6.23 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 16 | 6.23 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 16 | 6.23 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 16 | 6.23 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 10 | 6.23 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 10 | 6.23 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 10 | 6.23 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 7 | 6.23 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 7 | 6.23 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 7 | 6.23 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 7 | 6.23 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 13 | 6.23 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 13 | 6.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 13 | 6.23 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 11 | 6.23 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 11 | 6.23 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 11 | 6.23 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 3 | 6.23 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 3 | 6.23 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 3 | 6.23 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 13 | 6.23 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 13 | 6.23 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 13 | 6.23 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 5 | 6.22 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 3 | 6.22 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 3 | 6.22 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 9 | 6.22 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 9 | 6.22 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 9 | 6.22 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 9 | 6.22 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 19 | 6.22 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 19 | 6.22 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 20 | 6.22 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 20 | 6.22 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 13 | 6.22 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 13 | 6.22 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 13 | 6.22 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 13 | 6.22 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 13 | 6.22 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 13 | 6.22 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 18 | 6.22 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 18 | 6.22 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 18 | 6.22 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 18 | 6.22 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 20 | 6.22 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 6.22 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 6.22 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 6.22 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 8 | 6.22 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 8 | 6.22 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 8 | 6.22 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 8 | 6.22 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 3 | 6.22 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 3 | 6.22 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 2 | 6.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 2 | 6.22 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 2 | 6.22 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 2 | 6.22 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 16 | 6.22 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 16 | 6.22 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 7 | 6.22 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 7 | 6.22 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 13 | 6.22 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 13 | 6.22 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 7 | 6.22 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 7 | 6.22 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 7 | 6.22 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 11 | 6.22 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 18 | 6.22 |
| (1,8382) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 18 | 6.22 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 16 | 6.22 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 18 | 6.22 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 18 | 6.22 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 1 | 6.22 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 1 | 6.22 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 1 | 6.22 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 12 | 6.22 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 12 | 6.22 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 12 | 6.22 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 11 | 6.22 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 11 | 6.22 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 11 | 6.22 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 5 | 6.22 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 14 | 6.22 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 3 | 6.22 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 3 | 6.22 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 3 | 6.22 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 18 | 6.22 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 6 | 6.22 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 6 | 6.22 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 6 | 6.22 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 19 | 6.22 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 19 | 6.22 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 8 | 6.22 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 18 | 6.22 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 13 | 6.22 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 13 | 6.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 13 | 6.22 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 1 | 6.22 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 1 | 6.22 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 1 | 6.22 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 2 | 6.22 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 2 | 6.22 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 2 | 6.22 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 2 | 6.22 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 2 | 6.22 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 2 | 6.22 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 2 | 6.22 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 2 | 6.22 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 2 | 6.22 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 8 | 6.22 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 10 | 6.22 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 10 | 6.22 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 10 | 6.22 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 10 | 6.22 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 13 | 6.22 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 13 | 6.22 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 4 | 6.22 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 4 | 6.22 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 6 | 6.22 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 3 | 6.22 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 13 | 6.22 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 4 | 6.22 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 4 | 6.22 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 4 | 6.22 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 3 | 6.22 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 12 | 6.22 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 12 | 6.22 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 12 | 6.22 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 5 | 6.22 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 9 | 6.22 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 9 | 6.22 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 9 | 6.22 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 17 | 6.22 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 2 | 6.22 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 2 | 6.22 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 2 | 6.22 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 2 | 6.22 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 2 | 6.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 2 | 6.22 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 7 | 6.22 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 7 | 6.22 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 10 | 6.22 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 12 | 6.22 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 7 | 6.22 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 7 | 6.22 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 7 | 6.22 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 7 | 6.22 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 7 | 6.22 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 7 | 6.22 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 13 | 6.22 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 13 | 6.22 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 13 | 6.22 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 19 | 6.22 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 19 | 6.22 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 11 | 6.22 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 11 | 6.22 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 11 | 6.22 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 11 | 6.22 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 11 | 6.22 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 11 | 6.22 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 4 | 6.22 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 12 | 6.22 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 12 | 6.22 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 12 | 6.22 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 6 | 6.22 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 6 | 6.22 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 4 | 6.22 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 4 | 6.22 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 4 | 6.22 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 8 | 6.22 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 8 | 6.22 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 8 | 6.22 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 17 | 6.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 15 | 6.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 15 | 6.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 15 | 6.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 19 | 6.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 19 | 6.22 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 19 | 6.22 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 11 | 6.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 11 | 6.22 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 11 | 6.22 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 1 | 6.22 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 15 | 6.22 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 15 | 6.22 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 5 | 6.22 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 2 | 6.22 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 2 | 6.22 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 9 | 6.22 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 9 | 6.22 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 9 | 6.22 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 9 | 6.22 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 13 | 6.22 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 1 | 6.22 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 4 | 6.22 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 10 | 6.22 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 2 | 6.22 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 2 | 6.22 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 2 | 6.22 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 18 | 6.22 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 18 | 6.22 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 18 | 6.22 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 18 | 6.22 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 3 | 6.22 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 2 | 6.22 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 2 | 6.22 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 2 | 6.22 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 6 | 6.22 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 17 | 6.22 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 20 | 6.22 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 6.22 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 6.22 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 6.22 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 6.22 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 2 | 6.22 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 2 | 6.22 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 2 | 6.22 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 2 | 6.22 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 16 | 6.22 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 7 | 6.22 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 16 | 6.22 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 16 | 6.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 12 | 6.22 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 7 | 6.22 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 7 | 6.22 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 7 | 6.22 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 7 | 6.22 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 7 | 6.22 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 7 | 6.22 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 18 | 6.22 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 18 | 6.22 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 18 | 6.22 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 13 | 6.22 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 13 | 6.22 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 13 | 6.22 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 15 | 6.22 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 19 | 6.22 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 19 | 6.22 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 10 | 6.22 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 8 | 6.22 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 8 | 6.22 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 8 | 6.22 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 19 | 6.22 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 3 | 6.22 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 3 | 6.22 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 3 | 6.22 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 4 | 6.22 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 8 | 6.22 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 8 | 6.22 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 8 | 6.22 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 8 | 6.22 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 8 | 6.22 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 8 | 6.22 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 4 | 6.22 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 18 | 6.22 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 6.22 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 6.22 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 6.22 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 12 | 6.22 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 12 | 6.22 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 12 | 6.22 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 6 | 6.22 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 6 | 6.22 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 3 | 6.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 3 | 6.22 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 3 | 6.22 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 15 | 6.22 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 15 | 6.22 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 15 | 6.22 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 19 | 6.21 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 12 | 6.21 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 1 | 6.21 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 1 | 6.21 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 18 | 6.21 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 18 | 6.21 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 11 | 6.21 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 11 | 6.21 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 11 | 6.21 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 11 | 6.21 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 19 | 6.21 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 19 | 6.21 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 5 | 6.21 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 5 | 6.21 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 5 | 6.21 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 5 | 6.21 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 3 | 6.21 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 3 | 6.21 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 12 | 6.21 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 12 | 6.21 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 17 | 6.21 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 17 | 6.21 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 4 | 6.21 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 4 | 6.21 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 18 | 6.21 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 18 | 6.21 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 9 | 6.21 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 9 | 6.21 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 9 | 6.21 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 9 | 6.21 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 9 | 6.21 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 9 | 6.21 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 12 | 6.21 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 12 | 6.21 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 11 | 6.21 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 11 | 6.21 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 3 | 6.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 3 | 6.21 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 3 | 6.21 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 3 | 6.21 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 4 | 6.21 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 4 | 6.21 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 18 | 6.21 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 18 | 6.21 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 18 | 6.21 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 12 | 6.21 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 12 | 6.21 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 12 | 6.21 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 3 | 6.21 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 5 | 6.21 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 18 | 6.21 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 15 | 6.21 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 13 | 6.21 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 20 | 6.21 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 16 | 6.21 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 16 | 6.21 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 10 | 6.21 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 16 | 6.21 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 3 | 6.21 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 3 | 6.21 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 7 | 6.21 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 7 | 6.21 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 14 | 6.21 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 14 | 6.21 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 14 | 6.21 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 5 | 6.21 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 16 | 6.21 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 11 | 6.21 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 11 | 6.21 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 11 | 6.21 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 10 | 6.21 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 10 | 6.21 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 10 | 6.21 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 10 | 6.21 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 10 | 6.21 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 10 | 6.21 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 18 | 6.21 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 20 | 6.21 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 20 | 6.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 20 | 6.21 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 16 | 6.21 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 16 | 6.21 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 16 | 6.21 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 8 | 6.21 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 8 | 6.21 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 8 | 6.21 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 2 | 6.21 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 2 | 6.21 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 2 | 6.21 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 11 | 6.21 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 11 | 6.21 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 10 | 6.21 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 10 | 6.21 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 10 | 6.21 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 15 | 6.21 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 9 | 6.21 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 13 | 6.21 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 13 | 6.21 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 8 | 6.21 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 8 | 6.21 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 8 | 6.21 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 9 | 6.21 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 1 | 6.21 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 1 | 6.21 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 1 | 6.21 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 6 | 6.21 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 6 | 6.21 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 4 | 6.21 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 4 | 6.21 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 4 | 6.21 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 5 | 6.21 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 5 | 6.21 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 5 | 6.21 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 14 | 6.21 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 14 | 6.21 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 10 | 6.21 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 10 | 6.21 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 10 | 6.21 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 20 | 6.21 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 20 | 6.21 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 20 | 6.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 14 | 6.21 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 18 | 6.21 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 18 | 6.21 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 18 | 6.21 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 18 | 6.21 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 5 | 6.21 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 7 | 6.21 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 7 | 6.21 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 7 | 6.21 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 4 | 6.21 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 7 | 6.21 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 7 | 6.21 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 7 | 6.21 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 7 | 6.21 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 7 | 6.21 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 7 | 6.21 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 8 | 6.21 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 8 | 6.21 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 8 | 6.21 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 8 | 6.21 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 8 | 6.21 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 8 | 6.21 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 16 | 6.21 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 16 | 6.21 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 16 | 6.21 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 16 | 6.21 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 16 | 6.21 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 16 | 6.21 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 16 | 6.21 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 16 | 6.21 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 16 | 6.21 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 4 | 6.21 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 10 | 6.21 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 10 | 6.21 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 10 | 6.21 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 10 | 6.21 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 10 | 6.21 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 10 | 6.21 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 4 | 6.21 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 5 | 6.21 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 5 | 6.21 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 14 | 6.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 14 | 6.21 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 3 | 6.21 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 3 | 6.21 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 15 | 6.21 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 4 | 6.21 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 4 | 6.21 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 9 | 6.21 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 9 | 6.21 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 9 | 6.21 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 9 | 6.21 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 9 | 6.21 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 9 | 6.21 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 4 | 6.21 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 4 | 6.21 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 4 | 6.21 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 11 | 6.21 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 12 | 6.21 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 12 | 6.21 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 3 | 6.21 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 3 | 6.21 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 3 | 6.21 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 3 | 6.21 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 4 | 6.21 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 4 | 6.21 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 4 | 6.21 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 4 | 6.21 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 4 | 6.21 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 8 | 6.21 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 12 | 6.21 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 12 | 6.21 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 12 | 6.21 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 5 | 6.21 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 5 | 6.21 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 5 | 6.21 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 19 | 6.21 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 19 | 6.21 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 14 | 6.21 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 14 | 6.21 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 2 | 6.21 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 2 | 6.21 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 2 | 6.21 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 7 | 6.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 7 | 6.21 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 7 | 6.21 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 9 | 6.21 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 11 | 6.21 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 16 | 6.21 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 10 | 6.21 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 10 | 6.21 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 10 | 6.21 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 20 | 6.21 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 20 | 6.21 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 20 | 6.21 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 14 | 6.21 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 14 | 6.21 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 14 | 6.21 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 14 | 6.21 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 11 | 6.21 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 6.21 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 6.21 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 6.21 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 13 | 6.21 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 13 | 6.21 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 17 | 6.21 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 17 | 6.21 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 18 | 6.21 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 18 | 6.21 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 18 | 6.21 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 5 | 6.21 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 7 | 6.21 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 7 | 6.21 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 7 | 6.21 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 15 | 6.21 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 15 | 6.21 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 15 | 6.21 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 13 | 6.21 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 4 | 6.21 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 14 | 6.21 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 14 | 6.21 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 14 | 6.21 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 8 | 6.21 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 8 | 6.21 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 8 | 6.21 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 7 | 6.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 7 | 6.21 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 7 | 6.21 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 7 | 6.21 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 7 | 6.21 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 7 | 6.21 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 8 | 6.21 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 8 | 6.21 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 8 | 6.21 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 8 | 6.21 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 8 | 6.21 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 8 | 6.21 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 15 | 6.2 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 15 | 6.2 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 1 | 6.2 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 1 | 6.2 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 11 | 6.2 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 11 | 6.2 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 6 | 6.2 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 6 | 6.2 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 16 | 6.2 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 16 | 6.2 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 9 | 6.2 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 9 | 6.2 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 9 | 6.2 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 9 | 6.2 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 9 | 6.2 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 9 | 6.2 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 1 | 6.2 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 1 | 6.2 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 5 | 6.2 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 5 | 6.2 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 15 | 6.2 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 15 | 6.2 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 4 | 6.2 |
| (1,8931) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 4 | 6.2 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 4 | 6.2 |
| (1,8931) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 4 | 6.2 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 13 | 6.2 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 13 | 6.2 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 6 | 6.2 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 6 | 6.2 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 4 | 6.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 4 | 6.2 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 4 | 6.2 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 4 | 6.2 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 8 | 6.2 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 8 | 6.2 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 8 | 6.2 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 8 | 6.2 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 8 | 6.2 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 8 | 6.2 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 2 | 6.2 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 2 | 6.2 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 2 | 6.2 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 2 | 6.2 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 9 | 6.2 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 9 | 6.2 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 9 | 6.2 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 9 | 6.2 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 19 | 6.2 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 19 | 6.2 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 7 | 6.2 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 9 | 6.2 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 9 | 6.2 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 9 | 6.2 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 4 | 6.2 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 4 | 6.2 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 6 | 6.2 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 12 | 6.2 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 9 | 6.2 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 9 | 6.2 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 19 | 6.2 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 19 | 6.2 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 19 | 6.2 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 12 | 6.2 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 8 | 6.2 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 16 | 6.2 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 16 | 6.2 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 16 | 6.2 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 16 | 6.2 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 16 | 6.2 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 16 | 6.2 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 15 | 6.2 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 15 | 6.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 20 | 6.2 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 20 | 6.2 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 20 | 6.2 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 12 | 6.2 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 12 | 6.2 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 12 | 6.2 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 6 | 6.2 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 6 | 6.2 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 6 | 6.2 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 20 | 6.2 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 18 | 6.2 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 13 | 6.2 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 13 | 6.2 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 13 | 6.2 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 19 | 6.2 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 19 | 6.2 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 19 | 6.2 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 2 | 6.2 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 2 | 6.2 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 2 | 6.2 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 9 | 6.2 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 14 | 6.2 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 9 | 6.2 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 9 | 6.2 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 9 | 6.2 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 1 | 6.2 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 2 | 6.2 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 1 | 6.2 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 2 | 6.2 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 17 | 6.2 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 16 | 6.2 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 16 | 6.2 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 16 | 6.2 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 16 | 6.2 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 16 | 6.2 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 16 | 6.2 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 18 | 6.2 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 18 | 6.2 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 18 | 6.2 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 16 | 6.2 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 17 | 6.2 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 17 | 6.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 1 | 6.2 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 1 | 6.2 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 1 | 6.2 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 6 | 6.2 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 10 | 6.2 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 10 | 6.2 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 10 | 6.2 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 8 | 6.2 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 8 | 6.2 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 8 | 6.2 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 15 | 6.2 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 15 | 6.2 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 15 | 6.2 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 19 | 6.2 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 19 | 6.2 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 19 | 6.2 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 5 | 6.2 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 5 | 6.2 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 5 | 6.2 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 1 | 6.2 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 1 | 6.2 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 1 | 6.2 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 13 | 6.2 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 13 | 6.2 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 9 | 6.2 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 9 | 6.2 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 9 | 6.2 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 12 | 6.2 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 12 | 6.2 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 12 | 6.2 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 7 | 6.2 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 7 | 6.2 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 7 | 6.2 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 3 | 6.2 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 3 | 6.2 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 17 | 6.2 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 5 | 6.2 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 14 | 6.2 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 14 | 6.2 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 14 | 6.2 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 6 | 6.2 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 6 | 6.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 9 | 6.2 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 9 | 6.2 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 9 | 6.2 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 9 | 6.2 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 9 | 6.2 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 9 | 6.2 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 3 | 6.2 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 4 | 6.2 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 4 | 6.2 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 4 | 6.2 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 13 | 6.2 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 13 | 6.2 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 12 | 6.2 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 4 | 6.2 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 4 | 6.2 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 4 | 6.2 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 4 | 6.2 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 8 | 6.2 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 8 | 6.2 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 8 | 6.2 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 8 | 6.2 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 8 | 6.2 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 8 | 6.2 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 13 | 6.2 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 9 | 6.2 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 16 | 6.2 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 16 | 6.2 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 17 | 6.2 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 17 | 6.2 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 6.2 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 6.2 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 7 | 6.2 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 7 | 6.2 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 7 | 6.2 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 7 | 6.2 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 1 | 6.2 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 1 | 6.2 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 1 | 6.2 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 6 | 6.2 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 10 | 6.2 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 10 | 6.2 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 10 | 6.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 15 | 6.2 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 15 | 6.2 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 15 | 6.2 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 8 | 6.2 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 19 | 6.2 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 19 | 6.2 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 19 | 6.2 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 5 | 6.2 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 5 | 6.2 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 5 | 6.2 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 12 | 6.2 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 1 | 6.2 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 1 | 6.2 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 1 | 6.2 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 13 | 6.2 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 13 | 6.2 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 12 | 6.2 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 12 | 6.2 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 12 | 6.2 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 16 | 6.19 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 6 | 6.19 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 6 | 6.19 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 6 | 6.19 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 6 | 6.19 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 20 | 6.19 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 20 | 6.19 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 20 | 6.19 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 20 | 6.19 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 20 | 6.19 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 20 | 6.19 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 19 | 6.19 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 19 | 6.19 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 19 | 6.19 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 19 | 6.19 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 19 | 6.19 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 19 | 6.19 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 1 | 6.19 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 1 | 6.19 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 7 | 6.19 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 7 | 6.19 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 11 | 6.19 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 11 | 6.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 4 | 6.19 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 4 | 6.19 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 13 | 6.19 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 13 | 6.19 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 13 | 6.19 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 13 | 6.19 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 4 | 6.19 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 4 | 6.19 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 16 | 6.19 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 16 | 6.19 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 9 | 6.19 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 9 | 6.19 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 9 | 6.19 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 9 | 6.19 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 9 | 6.19 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 9 | 6.19 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 2 | 6.19 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 2 | 6.19 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 2 | 6.19 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 2 | 6.19 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 2 | 6.19 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 2 | 6.19 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 2 | 6.19 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 2 | 6.19 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 5 | 6.19 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 5 | 6.19 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 5 | 6.19 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 5 | 6.19 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 8 | 6.19 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 8 | 6.19 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 20 | 6.19 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 15 | 6.19 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 15 | 6.19 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 15 | 6.19 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 15 | 6.19 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 15 | 6.19 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 15 | 6.19 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 15 | 6.19 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 15 | 6.19 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 15 | 6.19 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 19 | 6.19 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 18 | 6.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 5 | 6.19 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 5 | 6.19 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 5 | 6.19 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 9 | 6.19 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 9 | 6.19 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 9 | 6.19 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 17 | 6.19 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 17 | 6.19 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 17 | 6.19 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 20 | 6.19 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 15 | 6.19 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 15 | 6.19 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 15 | 6.19 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 18 | 6.19 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 18 | 6.19 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 4 | 6.19 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 7 | 6.19 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 7 | 6.19 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 7 | 6.19 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 15 | 6.19 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 15 | 6.19 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 15 | 6.19 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 6 | 6.19 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 6 | 6.19 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 6 | 6.19 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 15 | 6.19 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 13 | 6.19 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 13 | 6.19 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 19 | 6.19 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 19 | 6.19 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 12 | 6.19 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 14 | 6.19 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 17 | 6.19 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 17 | 6.19 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 17 | 6.19 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 14 | 6.19 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 14 | 6.19 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 14 | 6.19 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 16 | 6.19 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 16 | 6.19 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 11 | 6.19 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 11 | 6.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 8 | 6.19 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 8 | 6.19 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 17 | 6.19 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 11 | 6.19 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 11 | 6.19 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 11 | 6.19 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 6 | 6.19 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 6 | 6.19 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 8 | 6.19 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 2 | 6.19 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 4 | 6.19 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 4 | 6.19 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 4 | 6.19 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 7 | 6.19 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 7 | 6.19 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 7 | 6.19 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 12 | 6.19 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 2 | 6.19 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 17 | 6.19 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 17 | 6.19 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 17 | 6.19 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 7 | 6.19 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 7 | 6.19 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 14 | 6.19 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 14 | 6.19 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 14 | 6.19 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 15 | 6.19 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 8 | 6.19 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 8 | 6.19 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 8 | 6.19 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 11 | 6.19 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 11 | 6.19 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 1 | 6.19 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 1 | 6.19 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 1 | 6.19 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 19 | 6.19 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 19 | 6.19 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 19 | 6.19 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 19 | 6.19 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 19 | 6.19 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 19 | 6.19 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 7 | 6.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 18 | 6.19 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 6 | 6.19 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 14 | 6.19 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 17 | 6.19 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 7 | 6.19 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 7 | 6.19 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 7 | 6.19 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 14 | 6.19 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 14 | 6.19 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 7 | 6.19 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 2 | 6.19 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 2 | 6.19 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 2 | 6.19 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 2 | 6.19 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 2 | 6.19 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 2 | 6.19 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 10 | 6.19 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 19 | 6.19 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 10 | 6.19 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 8 | 6.19 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 8 | 6.19 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 17 | 6.19 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 11 | 6.19 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 11 | 6.19 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 11 | 6.19 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 6 | 6.19 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 6 | 6.19 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 8 | 6.19 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 2 | 6.19 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 1 | 6.19 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 6.19 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 4 | 6.19 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 4 | 6.19 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 4 | 6.19 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 12 | 6.19 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 4 | 6.19 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 4 | 6.19 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 4 | 6.19 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 16 | 6.19 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 7 | 6.19 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 7 | 6.19 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 7 | 6.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 12 | 6.19 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 9 | 6.19 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 9 | 6.19 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 2 | 6.19 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 19 | 6.18 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 15 | 6.18 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 15 | 6.18 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 5 | 6.18 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 5 | 6.18 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 2 | 6.18 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 2 | 6.18 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 7 | 6.18 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 7 | 6.18 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 7 | 6.18 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 7 | 6.18 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 18 | 6.18 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 18 | 6.18 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 2 | 6.18 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 2 | 6.18 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 2 | 6.18 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 2 | 6.18 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 17 | 6.18 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 17 | 6.18 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 10 | 6.18 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 10 | 6.18 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 13 | 6.18 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 13 | 6.18 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 13 | 6.18 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 13 | 6.18 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 18 | 6.18 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 18 | 6.18 |
| (1,8729) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 18 | 6.18 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 18 | 6.18 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 18 | 6.18 |
| (1,8729) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 18 | 6.18 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 5 | 6.18 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 5 | 6.18 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 12 | 6.18 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 12 | 6.18 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 3 | 6.18 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 3 | 6.18 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 7 | 6.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 7 | 6.18 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 2 | 6.18 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 12 | 6.18 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 17 | 6.18 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 1 | 6.18 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 1 | 6.18 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 1 | 6.18 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 18 | 6.18 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 18 | 6.18 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 18 | 6.18 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 8 | 6.18 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 8 | 6.18 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 8 | 6.18 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 7 | 6.18 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 19 | 6.18 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 15 | 6.18 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 15 | 6.18 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 18 | 6.18 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 18 | 6.18 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 8 | 6.18 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 13 | 6.18 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 20 | 6.18 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 14 | 6.18 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 6 | 6.18 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 10 | 6.18 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 10 | 6.18 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 10 | 6.18 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 12 | 6.18 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 12 | 6.18 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 12 | 6.18 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 15 | 6.18 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 2 | 6.18 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 2 | 6.18 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 2 | 6.18 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 18 | 6.18 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 18 | 6.18 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 18 | 6.18 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 10 | 6.18 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 20 | 6.18 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 4 | 6.18 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 4 | 6.18 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 4 | 6.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 9 | 6.18 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 5 | 6.18 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 5 | 6.18 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 5 | 6.18 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 15 | 6.18 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 15 | 6.18 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 15 | 6.18 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 6 | 6.18 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 6 | 6.18 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 6 | 6.18 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 18 | 6.18 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 6 | 6.18 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 8 | 6.18 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 14 | 6.18 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 14 | 6.18 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 14 | 6.18 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 18 | 6.18 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 9 | 6.18 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 9 | 6.18 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 9 | 6.18 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 11 | 6.18 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 15 | 6.18 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 2 | 6.18 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 15 | 6.18 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 8 | 6.18 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 4 | 6.18 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 4 | 6.18 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 4 | 6.18 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 4 | 6.18 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 4 | 6.18 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 4 | 6.18 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 7 | 6.18 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 13 | 6.18 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 6.18 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 15 | 6.18 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 18 | 6.18 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 18 | 6.18 |
| (1,3692) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 18 | 6.18 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 18 | 6.18 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 18 | 6.18 |
| (1,3692) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 18 | 6.18 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 3 | 6.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 3 | 6.18 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 3 | 6.18 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 3 | 6.18 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 1 | 6.18 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 14 | 6.18 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 6 | 6.18 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 10 | 6.18 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 10 | 6.18 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 10 | 6.18 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 12 | 6.18 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 12 | 6.18 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 12 | 6.18 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 15 | 6.18 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 2 | 6.18 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 2 | 6.18 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 2 | 6.18 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 18 | 6.18 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 18 | 6.18 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 18 | 6.18 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 10 | 6.18 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 20 | 6.18 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 11 | 6.18 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 11 | 6.18 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 4 | 6.18 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 4 | 6.18 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 4 | 6.18 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 9 | 6.18 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 5 | 6.18 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 5 | 6.18 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 5 | 6.18 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 4 | 6.18 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 4 | 6.18 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 4 | 6.18 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 4 | 6.18 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 4 | 6.18 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 4 | 6.18 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 15 | 6.18 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 15 | 6.18 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 15 | 6.18 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 4 | 6.18 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 6 | 6.18 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 2 | 6.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 4 | 6.18 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 10 | 6.18 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 7 | 6.18 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 10 | 6.17 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 20 | 6.17 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 20 | 6.17 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 11 | 6.17 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 11 | 6.17 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 1 | 6.17 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 1 | 6.17 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 16 | 6.17 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 16 | 6.17 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 16 | 6.17 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 16 | 6.17 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 17 | 6.17 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 17 | 6.17 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 1 | 6.17 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 1 | 6.17 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 13 | 6.17 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 13 | 6.17 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 6 | 6.17 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 6 | 6.17 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 6 | 6.17 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 6 | 6.17 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 6 | 6.17 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 6 | 6.17 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 19 | 6.17 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 19 | 6.17 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 19 | 6.17 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 19 | 6.17 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 17 | 6.17 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 17 | 6.17 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 17 | 6.17 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 2 | 6.17 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 18 | 6.17 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 18 | 6.17 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 18 | 6.17 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 10 | 6.17 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 10 | 6.17 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 10 | 6.17 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 12 | 6.17 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 14 | 6.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 14 | 6.17 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 14 | 6.17 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 14 | 6.17 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 14 | 6.17 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 14 | 6.17 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 17 | 6.17 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 17 | 6.17 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 17 | 6.17 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 17 | 6.17 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 17 | 6.17 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 17 | 6.17 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 12 | 6.17 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 6 | 6.17 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 8 | 6.17 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 8 | 6.17 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 8 | 6.17 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 19 | 6.17 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 19 | 6.17 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 19 | 6.17 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 5 | 6.17 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 5 | 6.17 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 5 | 6.17 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 10 | 6.17 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 10 | 6.17 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 10 | 6.17 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 17 | 6.17 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 17 | 6.17 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 17 | 6.17 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 17 | 6.17 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 17 | 6.17 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 17 | 6.17 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 17 | 6.17 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 17 | 6.17 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 17 | 6.17 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 9 | 6.17 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 11 | 6.17 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 11 | 6.17 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 7 | 6.17 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 7 | 6.17 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 7 | 6.17 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 19 | 6.17 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 19 | 6.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 19 | 6.17 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 10 | 6.17 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 17 | 6.17 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 17 | 6.17 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 17 | 6.17 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 13 | 6.17 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 3 | 6.17 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 3 | 6.17 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 3 | 6.17 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 7 | 6.17 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 7 | 6.17 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 7 | 6.17 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 17 | 6.17 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 17 | 6.17 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 17 | 6.17 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 12 | 6.17 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 12 | 6.17 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 12 | 6.17 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 4 | 6.17 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 19 | 6.17 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 16 | 6.17 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 16 | 6.17 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 16 | 6.17 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 20 | 6.17 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 3 | 6.17 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 3 | 6.17 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 3 | 6.17 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 3 | 6.17 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 3 | 6.17 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 3 | 6.17 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 6 | 6.17 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 16 | 6.17 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 16 | 6.17 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 16 | 6.17 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 19 | 6.17 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 19 | 6.17 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 8 | 6.17 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 8 | 6.17 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 8 | 6.17 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 4 | 6.17 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 4 | 6.17 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 4 | 6.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 1 | 6.17 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 10 | 6.17 |
| (1,5761) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 10 | 6.17 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 6 | 6.17 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 6 | 6.17 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 6 | 6.17 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 8 | 6.17 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 8 | 6.17 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 8 | 6.17 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 7 | 6.17 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 7 | 6.17 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 7 | 6.17 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 6 | 6.17 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 6 | 6.17 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 6 | 6.17 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 4 | 6.17 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 4 | 6.17 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 4 | 6.17 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 6.17 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 6.17 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 6.17 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 6.17 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 6.17 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 6.17 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 2 | 6.17 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 11 | 6.17 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 11 | 6.17 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 18 | 6.17 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 18 | 6.17 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 18 | 6.17 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 2 | 6.17 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 2 | 6.17 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 14 | 6.17 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 14 | 6.17 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 14 | 6.17 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 11 | 6.17 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 5 | 6.17 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 8 | 6.17 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 6.17 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 1 | 6.17 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 1 | 6.17 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 7 | 6.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 4 | 6.17 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 4 | 6.17 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 4 | 6.17 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 6.17 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 11 | 6.17 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 3 | 6.17 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 3 | 6.17 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 5 | 6.17 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 5 | 6.17 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 6 | 6.17 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 1 | 6.17 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 1 | 6.17 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 1 | 6.17 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 11 | 6.17 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 11 | 6.17 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 11 | 6.17 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 16 | 6.17 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 16 | 6.17 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 16 | 6.17 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 19 | 6.17 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 19 | 6.17 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 14 | 6.17 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 14 | 6.17 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 14 | 6.17 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 14 | 6.17 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 14 | 6.17 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 14 | 6.17 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 7 | 6.17 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 4 | 6.17 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 8 | 6.17 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 8 | 6.17 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 8 | 6.17 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 7 | 6.17 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 7 | 6.17 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 7 | 6.17 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 1 | 6.17 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 10 | 6.17 |
| (1,1098) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 10 | 6.17 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 17 | 6.17 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 17 | 6.17 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 17 | 6.17 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 4 | 6.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 6 | 6.17 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 6 | 6.17 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 6 | 6.17 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 4 | 6.16 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 4 | 6.16 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 13 | 6.16 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 13 | 6.16 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 12 | 6.16 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 12 | 6.16 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 8 | 6.16 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 8 | 6.16 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 8 | 6.16 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 8 | 6.16 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 8 | 6.16 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 8 | 6.16 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 11 | 6.16 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 11 | 6.16 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 1 | 6.16 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 1 | 6.16 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 9 | 6.16 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 9 | 6.16 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 12 | 6.16 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 12 | 6.16 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 11 | 6.16 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 11 | 6.16 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 15 | 6.16 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 15 | 6.16 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 3 | 6.16 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 3 | 6.16 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 11 | 6.16 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 11 | 6.16 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 11 | 6.16 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 11 | 6.16 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 11 | 6.16 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 11 | 6.16 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 5 | 6.16 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 5 | 6.16 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 3 | 6.16 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 3 | 6.16 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 2 | 6.16 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 2 | 6.16 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 1 | 6.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 1 | 6.16 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 12 | 6.16 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 12 | 6.16 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 11 | 6.16 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 11 | 6.16 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 11 | 6.16 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 11 | 6.16 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 10 | 6.16 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 10 | 6.16 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 5 | 6.16 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 5 | 6.16 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 17 | 6.16 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 12 | 6.16 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 12 | 6.16 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 12 | 6.16 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 3 | 6.16 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 3 | 6.16 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 3 | 6.16 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 2 | 6.16 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 2 | 6.16 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 6.16 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 6.16 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 6.16 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 1 | 6.16 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 14 | 6.16 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 14 | 6.16 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 6 | 6.16 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 6 | 6.16 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 6 | 6.16 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 12 | 6.16 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 12 | 6.16 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 3 | 6.16 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 3 | 6.16 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 18 | 6.16 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 18 | 6.16 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 18 | 6.16 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 1 | 6.16 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 1 | 6.16 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 2 | 6.16 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 2 | 6.16 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 4 | 6.16 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 2 | 6.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 1 | 6.16 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 9 | 6.16 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 11 | 6.16 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 11 | 6.16 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 4 | 6.16 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 15 | 6.16 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 9 | 6.16 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 9 | 6.16 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 16 | 6.16 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 7 | 6.16 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 7 | 6.16 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 7 | 6.16 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 6 | 6.16 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 8 | 6.16 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 8 | 6.16 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 8 | 6.16 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 8 | 6.16 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 8 | 6.16 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 8 | 6.16 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 5 | 6.16 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 5 | 6.16 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 5 | 6.16 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 9 | 6.16 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 9 | 6.16 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 5 | 6.16 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 5 | 6.16 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 5 | 6.16 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 4 | 6.16 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 9 | 6.16 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 5 | 6.16 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 5 | 6.16 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 5 | 6.16 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 16 | 6.16 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 16 | 6.16 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 2 | 6.16 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 8 | 6.16 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 5 | 6.16 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 5 | 6.16 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 5 | 6.16 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 5 | 6.16 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 7 | 6.16 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 7 | 6.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 7 | 6.16 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 13 | 6.16 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 13 | 6.16 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 13 | 6.16 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 12 | 6.16 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 13 | 6.16 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 15 | 6.16 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 15 | 6.16 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 15 | 6.16 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 17 | 6.16 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 17 | 6.16 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 17 | 6.16 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 8 | 6.16 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 19 | 6.16 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 19 | 6.16 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 19 | 6.16 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 19 | 6.16 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 19 | 6.16 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 19 | 6.16 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 20 | 6.16 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 20 | 6.16 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 20 | 6.16 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 4 | 6.16 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 4 | 6.16 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 4 | 6.16 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 19 | 6.16 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 19 | 6.16 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 5 | 6.16 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 5 | 6.16 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 5 | 6.16 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 5 | 6.16 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 13 | 6.16 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 13 | 6.16 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 13 | 6.16 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 13 | 6.16 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 13 | 6.16 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 13 | 6.16 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 8 | 6.16 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 8 | 6.16 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 8 | 6.16 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 8 | 6.16 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 8 | 6.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 8 | 6.16 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 6.16 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 6.16 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 13 | 6.16 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 13 | 6.16 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 13 | 6.16 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 13 | 6.16 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 9 | 6.16 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 9 | 6.16 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 8 | 6.16 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 8 | 6.16 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 8 | 6.16 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 13 | 6.16 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 13 | 6.16 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 13 | 6.16 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 11 | 6.16 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 11 | 6.16 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 11 | 6.16 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 11 | 6.16 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 11 | 6.16 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 11 | 6.16 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 3 | 6.16 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 11 | 6.16 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 11 | 6.16 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 11 | 6.16 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 11 | 6.16 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 1 | 6.16 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 1 | 6.16 |
| (1,3698) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 15 | 6.16 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 4 | 6.16 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 10 | 6.16 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 10 | 6.16 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 5 | 6.16 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 5 | 6.16 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 5 | 6.16 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 19 | 6.16 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 19 | 6.16 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 19 | 6.16 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 4 | 6.16 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 17 | 6.16 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 9 | 6.16 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 5 | 6.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 5 | 6.16 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 5 | 6.16 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 16 | 6.16 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 16 | 6.16 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 2 | 6.16 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 8 | 6.16 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 2 | 6.16 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 2 | 6.16 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 2 | 6.16 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 5 | 6.16 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 5 | 6.16 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 5 | 6.16 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 5 | 6.16 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 19 | 6.16 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 7 | 6.16 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 7 | 6.16 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 7 | 6.16 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 13 | 6.16 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 13 | 6.16 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 13 | 6.16 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 12 | 6.16 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 13 | 6.16 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 6.16 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 15 | 6.16 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 15 | 6.16 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 15 | 6.16 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 17 | 6.16 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 17 | 6.16 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 17 | 6.16 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 8 | 6.16 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 19 | 6.16 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 19 | 6.16 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 19 | 6.16 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 19 | 6.16 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 19 | 6.16 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 19 | 6.16 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 9 | 6.16 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 20 | 6.16 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 11 | 6.15 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 11 | 6.15 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 17 | 6.15 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 17 | 6.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 6 | 6.15 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 6 | 6.15 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 11 | 6.15 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 11 | 6.15 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 11 | 6.15 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 11 | 6.15 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 19 | 6.15 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 19 | 6.15 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 19 | 6.15 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 19 | 6.15 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 19 | 6.15 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 19 | 6.15 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 2 | 6.15 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 2 | 6.15 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 17 | 6.15 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 17 | 6.15 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 19 | 6.15 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 19 | 6.15 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 19 | 6.15 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 19 | 6.15 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 19 | 6.15 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 19 | 6.15 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 10 | 6.15 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 10 | 6.15 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 5 | 6.15 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 5 | 6.15 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 4 | 6.15 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 4 | 6.15 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 9 | 6.15 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 9 | 6.15 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 13 | 6.15 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 13 | 6.15 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 18 | 6.15 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 18 | 6.15 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 18 | 6.15 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 8 | 6.15 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 8 | 6.15 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 8 | 6.15 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 11 | 6.15 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 11 | 6.15 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 11 | 6.15 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 12 | 6.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 12 | 6.15 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 12 | 6.15 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 12 | 6.15 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 19 | 6.15 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 19 | 6.15 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 19 | 6.15 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 13 | 6.15 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 6 | 6.15 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 6 | 6.15 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 6 | 6.15 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 6 | 6.15 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 6 | 6.15 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 6 | 6.15 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 6 | 6.15 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 6 | 6.15 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 6 | 6.15 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 10 | 6.15 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 19 | 6.15 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 6 | 6.15 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 6 | 6.15 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 6 | 6.15 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 4 | 6.15 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 19 | 6.15 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 19 | 6.15 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 19 | 6.15 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 4 | 6.15 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 4 | 6.15 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 3 | 6.15 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 3 | 6.15 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 3 | 6.15 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 12 | 6.15 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 12 | 6.15 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 12 | 6.15 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 14 | 6.15 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 14 | 6.15 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 14 | 6.15 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 9 | 6.15 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 9 | 6.15 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 9 | 6.15 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 2 | 6.15 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 17 | 6.15 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 3 | 6.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 11 | 6.15 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 11 | 6.15 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 11 | 6.15 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 8 | 6.15 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 8 | 6.15 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 8 | 6.15 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 2 | 6.15 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 2 | 6.15 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 1 | 6.15 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 1 | 6.15 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 1 | 6.15 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 1 | 6.15 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 1 | 6.15 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 1 | 6.15 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 15 | 6.15 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 15 | 6.15 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 15 | 6.15 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 4 | 6.15 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 4 | 6.15 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 4 | 6.15 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 4 | 6.15 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 4 | 6.15 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 4 | 6.15 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 18 | 6.15 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 19 | 6.15 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 19 | 6.15 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 19 | 6.15 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 14 | 6.15 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 14 | 6.15 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 12 | 6.15 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 16 | 6.15 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 18 | 6.15 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 7 | 6.15 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 5 | 6.15 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 5 | 6.15 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 5 | 6.15 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 11 | 6.15 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 11 | 6.15 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 16 | 6.15 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 16 | 6.15 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 16 | 6.15 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 16 | 6.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 16 | 6.15 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 18 | 6.15 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 7 | 6.15 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 7 | 6.15 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 7 | 6.15 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 11 | 6.15 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 10 | 6.15 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 11 | 6.15 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 11 | 6.15 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 11 | 6.15 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 14 | 6.15 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 20 | 6.15 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 5 | 6.15 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 5 | 6.15 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 5 | 6.15 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 19 | 6.15 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 19 | 6.15 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 19 | 6.15 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 8 | 6.15 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 10 | 6.15 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 10 | 6.15 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 10 | 6.15 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 8 | 6.15 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 8 | 6.15 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 4 | 6.15 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 4 | 6.15 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 17 | 6.15 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 17 | 6.15 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 19 | 6.15 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 19 | 6.15 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 19 | 6.15 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 15 | 6.15 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 15 | 6.15 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 14 | 6.15 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 6.15 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 6.15 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 6.15 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 17 | 6.15 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 13 | 6.15 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 8 | 6.15 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 12 | 6.15 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 13 | 6.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 12 | 6.15 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 19 | 6.15 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 19 | 6.15 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 19 | 6.15 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 19 | 6.15 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 19 | 6.15 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 19 | 6.15 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 6.15 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 5 | 6.15 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 5 | 6.15 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 5 | 6.15 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 14 | 6.15 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 14 | 6.15 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 8 | 6.15 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 18 | 6.15 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 9 | 6.15 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 9 | 6.15 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 13 | 6.15 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 13 | 6.15 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 6 | 6.15 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 3 | 6.15 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 3 | 6.15 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 12 | 6.15 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 18 | 6.15 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 7 | 6.15 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 7 | 6.15 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 7 | 6.15 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 11 | 6.15 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 2 | 6.15 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 2 | 6.15 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 2 | 6.15 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 10 | 6.15 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 8 | 6.15 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 11 | 6.15 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 11 | 6.15 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 11 | 6.15 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 14 | 6.15 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 20 | 6.15 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 5 | 6.15 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 5 | 6.15 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 5 | 6.15 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 19 | 6.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 19 | 6.15 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 19 | 6.15 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 8 | 6.15 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 8 | 6.15 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 8 | 6.15 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 6 | 6.15 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 8 | 6.15 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 20 | 6.15 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 19 | 6.14 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 8 | 6.14 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 8 | 6.14 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 8 | 6.14 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 8 | 6.14 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 8 | 6.14 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 8 | 6.14 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 3 | 6.14 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 3 | 6.14 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 3 | 6.14 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 3 | 6.14 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 3 | 6.14 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 3 | 6.14 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 1 | 6.14 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 1 | 6.14 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 18 | 6.14 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 18 | 6.14 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 18 | 6.14 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 18 | 6.14 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 16 | 6.14 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 16 | 6.14 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 3 | 6.14 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 3 | 6.14 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 2 | 6.14 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 2 | 6.14 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 1 | 6.14 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 1 | 6.14 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 10 | 6.14 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 10 | 6.14 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 14 | 6.14 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 14 | 6.14 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 14 | 6.14 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 14 | 6.14 |
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 16 | 6.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8930) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 16 | 6.14 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 1 | 6.14 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 1 | 6.14 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 1 | 6.14 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 1 | 6.14 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 1 | 6.14 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 1 | 6.14 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 20 | 6.14 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 20 | 6.14 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 14 | 6.14 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 14 | 6.14 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 11 | 6.14 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 11 | 6.14 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 11 | 6.14 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 11 | 6.14 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 11 | 6.14 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 11 | 6.14 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 3 | 6.14 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 3 | 6.14 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 10 | 6.14 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 10 | 6.14 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 3 | 6.14 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 3 | 6.14 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 3 | 6.14 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 3 | 6.14 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 11 | 6.14 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 11 | 6.14 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 11 | 6.14 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 11 | 6.14 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 7 | 6.14 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 7 | 6.14 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 11 | 6.14 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 11 | 6.14 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 11 | 6.14 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 18 | 6.14 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 18 | 6.14 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 1 | 6.14 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 17 | 6.14 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 17 | 6.14 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 17 | 6.14 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 5 | 6.14 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 5 | 6.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 5 | 6.14 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 3 | 6.14 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 3 | 6.14 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 3 | 6.14 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 3 | 6.14 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 3 | 6.14 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 3 | 6.14 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 17 | 6.14 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 20 | 6.14 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 7 | 6.14 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 17 | 6.14 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 17 | 6.14 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 17 | 6.14 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 20 | 6.14 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 20 | 6.14 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 20 | 6.14 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 11 | 6.14 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 4 | 6.14 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 4 | 6.14 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 12 | 6.14 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 13 | 6.14 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 13 | 6.14 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 13 | 6.14 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 16 | 6.14 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 16 | 6.14 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 4 | 6.14 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 4 | 6.14 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 4 | 6.14 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 16 | 6.14 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 16 | 6.14 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 16 | 6.14 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 1 | 6.14 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 1 | 6.14 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 1 | 6.14 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 1 | 6.14 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 1 | 6.14 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 1 | 6.14 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 1 | 6.14 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 1 | 6.14 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 1 | 6.14 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 19 | 6.14 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 19 | 6.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 19 | 6.14 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 1 | 6.14 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 1 | 6.14 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 1 | 6.14 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 20 | 6.14 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 20 | 6.14 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 20 | 6.14 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 10 | 6.14 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 13 | 6.14 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 3 | 6.14 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 3 | 6.14 |
| (1,7536) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 5 | 6.14 |
| (1,7536) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 5 | 6.14 |
| (1,7536) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 5 | 6.14 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 11 | 6.14 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 11 | 6.14 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 11 | 6.14 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 15 | 6.14 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 9 | 6.14 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 9 | 6.14 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 9 | 6.14 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 19 | 6.14 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 19 | 6.14 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 19 | 6.14 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 2 | 6.14 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 2 | 6.14 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 12 | 6.14 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 12 | 6.14 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 12 | 6.14 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 17 | 6.14 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 7 | 6.14 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 7 | 6.14 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 7 | 6.14 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 3 | 6.14 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 10 | 6.14 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 2 | 6.14 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 2 | 6.14 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 2 | 6.14 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 2 | 6.14 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 2 | 6.14 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 2 | 6.14 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 9 | 6.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 9 | 6.14 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 9 | 6.14 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 11 | 6.14 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 11 | 6.14 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 11 | 6.14 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 1 | 6.14 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 19 | 6.14 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 1 | 6.14 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 1 | 6.14 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 2 | 6.14 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 2 | 6.14 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 17 | 6.14 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 18 | 6.14 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 12 | 6.14 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 16 | 6.14 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 16 | 6.14 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 10 | 6.14 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 10 | 6.14 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 6 | 6.14 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 6 | 6.14 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 6 | 6.14 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 16 | 6.14 |
| (1,3904) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 16 | 6.14 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 1 | 6.14 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 10 | 6.14 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 10 | 6.14 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 10 | 6.14 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 14 | 6.14 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 14 | 6.14 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 17 | 6.14 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 11 | 6.14 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 11 | 6.14 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 11 | 6.14 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 11 | 6.14 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 11 | 6.14 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 11 | 6.14 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 2 | 6.14 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 9 | 6.14 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 9 | 6.14 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 9 | 6.14 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 17 | 6.14 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 17 | 6.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 17 | 6.14 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 19 | 6.14 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 19 | 6.14 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 19 | 6.14 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 2 | 6.14 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 2 | 6.14 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 6.14 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 6.14 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 12 | 6.14 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 12 | 6.14 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 12 | 6.14 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 10 | 6.14 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 7 | 6.14 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 7 | 6.14 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 7 | 6.14 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 3 | 6.14 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 10 | 6.14 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 6.14 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 6.14 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 6.14 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 2 | 6.14 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 2 | 6.14 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 2 | 6.14 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 2 | 6.14 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 2 | 6.14 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 2 | 6.14 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 9 | 6.14 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 9 | 6.14 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 9 | 6.14 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 4 | 6.14 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 4 | 6.14 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 4 | 6.14 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 11 | 6.14 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 9 | 6.14 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 11 | 6.14 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 8 | 6.14 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 8 | 6.14 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 11 | 6.14 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 11 | 6.14 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 11 | 6.14 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 7 | 6.14 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 12 | 6.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 12 | 6.14 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 12 | 6.14 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 18 | 6.13 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 4 | 6.13 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 2 | 6.13 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 1 | 6.13 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 1 | 6.13 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 1 | 6.13 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 1 | 6.13 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 1 | 6.13 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 1 | 6.13 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 1 | 6.13 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 1 | 6.13 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 1 | 6.13 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 1 | 6.13 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 18 | 6.13 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 18 | 6.13 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 18 | 6.13 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 18 | 6.13 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 18 | 6.13 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 18 | 6.13 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 7 | 6.13 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 7 | 6.13 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 7 | 6.13 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 7 | 6.13 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 3 | 6.13 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 3 | 6.13 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 8 | 6.13 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 8 | 6.13 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 18 | 6.13 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 18 | 6.13 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 5 | 6.13 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 5 | 6.13 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 2 | 6.13 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 2 | 6.13 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 7 | 6.13 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 7 | 6.13 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 19 | 6.13 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 19 | 6.13 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 19 | 6.13 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 19 | 6.13 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 6.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 20 | 6.13 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 11 | 6.13 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 11 | 6.13 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 5 | 6.13 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 5 | 6.13 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 6 | 6.13 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 6 | 6.13 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 11 | 6.13 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 11 | 6.13 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 11 | 6.13 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 11 | 6.13 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 5 | 6.13 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 5 | 6.13 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 2 | 6.13 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 2 | 6.13 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 2 | 6.13 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 2 | 6.13 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 2 | 6.13 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 8 | 6.13 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 8 | 6.13 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 8 | 6.13 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 19 | 6.13 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 10 | 6.13 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 13 | 6.13 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 13 | 6.13 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 6 | 6.13 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 2 | 6.13 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 2 | 6.13 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 11 | 6.13 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 4 | 6.13 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 4 | 6.13 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 4 | 6.13 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 4 | 6.13 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 17 | 6.13 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 20 | 6.13 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 2 | 6.13 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 2 | 6.13 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 2 | 6.13 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 8 | 6.13 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 8 | 6.13 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 10 | 6.13 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 10 | 6.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 18 | 6.13 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 18 | 6.13 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 11 | 6.13 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 11 | 6.13 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 11 | 6.13 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 11 | 6.13 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 11 | 6.13 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 11 | 6.13 |
| (1,7995) | 1:81:A:THR:H | 1:84:A:GLU:HA | 12 | 6.13 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 8 | 6.13 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 6 | 6.13 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 6 | 6.13 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 6 | 6.13 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 18 | 6.13 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 18 | 6.13 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 18 | 6.13 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 10 | 6.13 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 10 | 6.13 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 13 | 6.13 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 13 | 6.13 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 3 | 6.13 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 9 | 6.13 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 5 | 6.13 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 5 | 6.13 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 1 | 6.13 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 1 | 6.13 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 1 | 6.13 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 20 | 6.13 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 20 | 6.13 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 20 | 6.13 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 11 | 6.13 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 11 | 6.13 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 11 | 6.13 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 11 | 6.13 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 11 | 6.13 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 11 | 6.13 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 2 | 6.13 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 2 | 6.13 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 20 | 6.13 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 8 | 6.13 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 7 | 6.13 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 16 | 6.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 13 | 6.13 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 13 | 6.13 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 13 | 6.13 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 7 | 6.13 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 8 | 6.13 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 8 | 6.13 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 8 | 6.13 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 8 | 6.13 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 8 | 6.13 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 8 | 6.13 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 10 | 6.13 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 10 | 6.13 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 10 | 6.13 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 2 | 6.13 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 7 | 6.13 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 7 | 6.13 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 3 | 6.13 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 3 | 6.13 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 3 | 6.13 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 9 | 6.13 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 20 | 6.13 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 20 | 6.13 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 20 | 6.13 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 8 | 6.13 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 8 | 6.13 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 8 | 6.13 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 11 | 6.13 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 17 | 6.13 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 17 | 6.13 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 17 | 6.13 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 5 | 6.13 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 12 | 6.13 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 12 | 6.13 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 12 | 6.13 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 8 | 6.13 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 8 | 6.13 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 8 | 6.13 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 2 | 6.13 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 2 | 6.13 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 2 | 6.13 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 7 | 6.13 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 7 | 6.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 7 | 6.13 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 18 | 6.13 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 18 | 6.13 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 9 | 6.13 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 2 | 6.13 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 13 | 6.13 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 7 | 6.13 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 7 | 6.13 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 6.13 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 13 | 6.13 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 13 | 6.13 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 6.13 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 20 | 6.13 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 5 | 6.13 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 5 | 6.13 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 2 | 6.13 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 2 | 6.13 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 20 | 6.13 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 8 | 6.13 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 7 | 6.13 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 16 | 6.13 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 13 | 6.13 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 13 | 6.13 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 13 | 6.13 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 17 | 6.13 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 17 | 6.13 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 7 | 6.13 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 8 | 6.13 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 8 | 6.13 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 8 | 6.13 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 8 | 6.13 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 8 | 6.13 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 8 | 6.13 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 10 | 6.13 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 10 | 6.13 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 10 | 6.13 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 2 | 6.13 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 7 | 6.13 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 7 | 6.13 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 10 | 6.13 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 10 | 6.13 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 10 | 6.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 3 | 6.13 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 3 | 6.13 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 3 | 6.13 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 15 | 6.13 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 9 | 6.13 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 20 | 6.13 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 20 | 6.13 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 20 | 6.13 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 18 | 6.13 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 8 | 6.13 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 8 | 6.13 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 8 | 6.13 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 11 | 6.13 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 13 | 6.12 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 13 | 6.12 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 6 | 6.12 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 6 | 6.12 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 6 | 6.12 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 6 | 6.12 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 12 | 6.12 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 12 | 6.12 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 12 | 6.12 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 12 | 6.12 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 4 | 6.12 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 4 | 6.12 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 5 | 6.12 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 5 | 6.12 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 5 | 6.12 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 5 | 6.12 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 5 | 6.12 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 5 | 6.12 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 9 | 6.12 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 9 | 6.12 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 19 | 6.12 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 19 | 6.12 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 1 | 6.12 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 1 | 6.12 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 1 | 6.12 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 1 | 6.12 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 13 | 6.12 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 13 | 6.12 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 12 | 6.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 12 | 6.12 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 12 | 6.12 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 12 | 6.12 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 12 | 6.12 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 12 | 6.12 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 15 | 6.12 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 15 | 6.12 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 6 | 6.12 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 6 | 6.12 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 6 | 6.12 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 6 | 6.12 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 20 | 6.12 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 20 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 10 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 10 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 10 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 10 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 10 | 6.12 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 10 | 6.12 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 15 | 6.12 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 15 | 6.12 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 14 | 6.12 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 14 | 6.12 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 14 | 6.12 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 13 | 6.12 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 13 | 6.12 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 13 | 6.12 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 9 | 6.12 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 16 | 6.12 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 3 | 6.12 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 3 | 6.12 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 3 | 6.12 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 13 | 6.12 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 5 | 6.12 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 6 | 6.12 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 10 | 6.12 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 8 | 6.12 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 4 | 6.12 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 12 | 6.12 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 17 | 6.12 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 17 | 6.12 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 17 | 6.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 4 | 6.12 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 14 | 6.12 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 3 | 6.12 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 3 | 6.12 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 16 | 6.12 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 16 | 6.12 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 13 | 6.12 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 12 | 6.12 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 12 | 6.12 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 12 | 6.12 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 18 | 6.12 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 18 | 6.12 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 4 | 6.12 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 4 | 6.12 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 8 | 6.12 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 8 | 6.12 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 8 | 6.12 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 16 | 6.12 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 16 | 6.12 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 7 | 6.12 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 7 | 6.12 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 7 | 6.12 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 18 | 6.12 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 18 | 6.12 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 18 | 6.12 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 18 | 6.12 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 18 | 6.12 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 18 | 6.12 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 12 | 6.12 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 14 | 6.12 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 14 | 6.12 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 14 | 6.12 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 14 | 6.12 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 14 | 6.12 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 14 | 6.12 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 13 | 6.12 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 18 | 6.12 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 1 | 6.12 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 20 | 6.12 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 20 | 6.12 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 20 | 6.12 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 6.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 17 | 6.12 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 17 | 6.12 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 17 | 6.12 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 16 | 6.12 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 18 | 6.12 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 18 | 6.12 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 18 | 6.12 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 8 | 6.12 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 12 | 6.12 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 4 | 6.12 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 19 | 6.12 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 19 | 6.12 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 19 | 6.12 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 10 | 6.12 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 10 | 6.12 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 10 | 6.12 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 3 | 6.12 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 15 | 6.12 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 1 | 6.12 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 1 | 6.12 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 1 | 6.12 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 17 | 6.12 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 19 | 6.12 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 19 | 6.12 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 19 | 6.12 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 13 | 6.12 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 13 | 6.12 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 5 | 6.12 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 17 | 6.12 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 11 | 6.12 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 11 | 6.12 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 11 | 6.12 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 6 | 6.12 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 6 | 6.12 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 6 | 6.12 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 6 | 6.12 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 13 | 6.12 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 10 | 6.12 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 15 | 6.12 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 19 | 6.12 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 4 | 6.12 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 4 | 6.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 18 | 6.12 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 6 | 6.12 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 6 | 6.12 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 5 | 6.12 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 5 | 6.12 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 5 | 6.12 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 5 | 6.12 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 5 | 6.12 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 5 | 6.12 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 2 | 6.12 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 13 | 6.12 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 12 | 6.12 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 12 | 6.12 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 12 | 6.12 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 12 | 6.12 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 12 | 6.12 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 12 | 6.12 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 15 | 6.12 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 15 | 6.12 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 4 | 6.12 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 17 | 6.12 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 12 | 6.12 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 13 | 6.12 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 18 | 6.12 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 14 | 6.12 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 1 | 6.12 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 20 | 6.12 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 20 | 6.12 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 20 | 6.12 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 6.12 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 17 | 6.12 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 17 | 6.12 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 17 | 6.12 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 16 | 6.12 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 18 | 6.12 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 18 | 6.12 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 18 | 6.12 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 6 | 6.12 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 12 | 6.12 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 12 | 6.12 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 12 | 6.12 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 12 | 6.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 8 | 6.12 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 12 | 6.12 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 4 | 6.12 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 19 | 6.12 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 19 | 6.12 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 19 | 6.12 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 14 | 6.12 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 1 | 6.12 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 7 | 6.11 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 7 | 6.11 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 7 | 6.11 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 12 | 6.11 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 11 | 6.11 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 8 | 6.11 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 8 | 6.11 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 15 | 6.11 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 15 | 6.11 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 16 | 6.11 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 16 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 6.11 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 6.11 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 9 | 6.11 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 9 | 6.11 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 8 | 6.11 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 8 | 6.11 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 19 | 6.11 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 19 | 6.11 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 5 | 6.11 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 5 | 6.11 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 5 | 6.11 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 5 | 6.11 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 18 | 6.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 18 | 6.11 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 20 | 6.11 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 20 | 6.11 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 18 | 6.11 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 18 | 6.11 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 18 | 6.11 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 18 | 6.11 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 12 | 6.11 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 12 | 6.11 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 18 | 6.11 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 18 | 6.11 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 18 | 6.11 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 18 | 6.11 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 18 | 6.11 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 18 | 6.11 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 20 | 6.11 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 20 | 6.11 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 20 | 6.11 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 17 | 6.11 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 19 | 6.11 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 15 | 6.11 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 15 | 6.11 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 15 | 6.11 |
| (1,8148) | 1:96:A:ILE:HD11 | 1:98:A:SER:H | 3 | 6.11 |
| (1,8148) | 1:96:A:ILE:HD12 | 1:98:A:SER:H | 3 | 6.11 |
| (1,8148) | 1:96:A:ILE:HD13 | 1:98:A:SER:H | 3 | 6.11 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 9 | 6.11 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 17 | 6.11 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 17 | 6.11 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 17 | 6.11 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 17 | 6.11 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 18 | 6.11 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 18 | 6.11 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 18 | 6.11 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 7 | 6.11 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 16 | 6.11 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 6 | 6.11 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 6 | 6.11 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 6 | 6.11 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 6 | 6.11 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 6 | 6.11 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 6 | 6.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 9 | 6.11 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 9 | 6.11 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 9 | 6.11 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 13 | 6.11 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 13 | 6.11 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 13 | 6.11 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 15 | 6.11 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 15 | 6.11 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 15 | 6.11 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 15 | 6.11 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 15 | 6.11 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 15 | 6.11 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 15 | 6.11 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 15 | 6.11 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 15 | 6.11 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 15 | 6.11 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 15 | 6.11 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 15 | 6.11 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 16 | 6.11 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 16 | 6.11 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 16 | 6.11 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 17 | 6.11 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 17 | 6.11 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 9 | 6.11 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 14 | 6.11 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 14 | 6.11 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 14 | 6.11 |
| (1,7442) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 18 | 6.11 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 15 | 6.11 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 7 | 6.11 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 16 | 6.11 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 16 | 6.11 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 16 | 6.11 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 20 | 6.11 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 3 | 6.11 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 6.11 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 6.11 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 12 | 6.11 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 12 | 6.11 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 12 | 6.11 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 7 | 6.11 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 7 | 6.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 7 | 6.11 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 20 | 6.11 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 12 | 6.11 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 10 | 6.11 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 10 | 6.11 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 10 | 6.11 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 15 | 6.11 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 15 | 6.11 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 15 | 6.11 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 5 | 6.11 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 5 | 6.11 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 20 | 6.11 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 5 | 6.11 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 5 | 6.11 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 5 | 6.11 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 1 | 6.11 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 1 | 6.11 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 1 | 6.11 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 18 | 6.11 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 18 | 6.11 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 19 | 6.11 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 19 | 6.11 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 19 | 6.11 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 14 | 6.11 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 8 | 6.11 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 11 | 6.11 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 1 | 6.11 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 1 | 6.11 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 1 | 6.11 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 5 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 6.11 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 6.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 15 | 6.11 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 8 | 6.11 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 8 | 6.11 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 19 | 6.11 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 13 | 6.11 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 19 | 6.11 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 12 | 6.11 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 12 | 6.11 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 7 | 6.11 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 2 | 6.11 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 16 | 6.11 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 16 | 6.11 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 16 | 6.11 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 20 | 6.11 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 3 | 6.11 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 6.11 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 6.11 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 12 | 6.11 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 12 | 6.11 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 12 | 6.11 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 7 | 6.11 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 7 | 6.11 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 7 | 6.11 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 16 | 6.11 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 16 | 6.11 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 16 | 6.11 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 20 | 6.11 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 12 | 6.11 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 10 | 6.11 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 10 | 6.11 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 10 | 6.11 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 15 | 6.11 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 15 | 6.11 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 15 | 6.11 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 5 | 6.11 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 5 | 6.11 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 20 | 6.11 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 6.11 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 5 | 6.11 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 5 | 6.11 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 5 | 6.11 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 4 | 6.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 4 | 6.11 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 1 | 6.11 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 1 | 6.11 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 1 | 6.11 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 12 | 6.11 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 20 | 6.11 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 9 | 6.1 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 10 | 6.1 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 17 | 6.1 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 17 | 6.1 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 4 | 6.1 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 4 | 6.1 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 4 | 6.1 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 4 | 6.1 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 4 | 6.1 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 4 | 6.1 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 14 | 6.1 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 14 | 6.1 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 19 | 6.1 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 19 | 6.1 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 15 | 6.1 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 15 | 6.1 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 18 | 6.1 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 18 | 6.1 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 4 | 6.1 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 4 | 6.1 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 11 | 6.1 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 11 | 6.1 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 11 | 6.1 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 11 | 6.1 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 11 | 6.1 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 11 | 6.1 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 20 | 6.1 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 20 | 6.1 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 11 | 6.1 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 11 | 6.1 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 13 | 6.1 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 13 | 6.1 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 13 | 6.1 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 13 | 6.1 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 13 | 6.1 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 13 | 6.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 13 | 6.1 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 13 | 6.1 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 13 | 6.1 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 10 | 6.1 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 11 | 6.1 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 11 | 6.1 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 11 | 6.1 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 8 | 6.1 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 3 | 6.1 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 14 | 6.1 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 20 | 6.1 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 15 | 6.1 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 15 | 6.1 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 15 | 6.1 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 13 | 6.1 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 13 | 6.1 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 13 | 6.1 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 9 | 6.1 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 9 | 6.1 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 19 | 6.1 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 19 | 6.1 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 19 | 6.1 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 3 | 6.1 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 3 | 6.1 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 5 | 6.1 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 5 | 6.1 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 5 | 6.1 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 4 | 6.1 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 4 | 6.1 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 11 | 6.1 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 20 | 6.1 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 20 | 6.1 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 10 | 6.1 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 10 | 6.1 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 10 | 6.1 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 10 | 6.1 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 19 | 6.1 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 19 | 6.1 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 19 | 6.1 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 2 | 6.1 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 2 | 6.1 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 2 | 6.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 3 | 6.1 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 3 | 6.1 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 3 | 6.1 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 10 | 6.1 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 17 | 6.1 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 3 | 6.1 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 3 | 6.1 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 3 | 6.1 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 11 | 6.1 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 11 | 6.1 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 11 | 6.1 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 11 | 6.1 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 11 | 6.1 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 11 | 6.1 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 2 | 6.1 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 18 | 6.1 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 18 | 6.1 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 18 | 6.1 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 2 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 2 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 2 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 2 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 2 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 2 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 2 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 16 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 16 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 16 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 16 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 16 | 6.1 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 16 | 6.1 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 15 | 6.1 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 15 | 6.1 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 9 | 6.1 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 9 | 6.1 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 9 | 6.1 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 18 | 6.1 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 17 | 6.1 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 16 | 6.1 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 6 | 6.1 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 6 | 6.1 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 6 | 6.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 16 | 6.1 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 16 | 6.1 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 16 | 6.1 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 16 | 6.1 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 6 | 6.1 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 6 | 6.1 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 14 | 6.1 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 14 | 6.1 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 8 | 6.1 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 8 | 6.1 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 4 | 6.1 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 4 | 6.1 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 4 | 6.1 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 9 | 6.1 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 9 | 6.1 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 9 | 6.1 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 9 | 6.1 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 9 | 6.1 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 9 | 6.1 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 3 | 6.1 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 18 | 6.1 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 18 | 6.1 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 18 | 6.1 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 18 | 6.1 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 8 | 6.1 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 8 | 6.1 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 8 | 6.1 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 9 | 6.1 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 13 | 6.1 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 13 | 6.1 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 13 | 6.1 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 7 | 6.1 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 7 | 6.1 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 7 | 6.1 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 7 | 6.1 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 7 | 6.1 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 7 | 6.1 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 17 | 6.1 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 17 | 6.1 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 17 | 6.1 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 16 | 6.1 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 17 | 6.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 17 | 6.1 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 11 | 6.1 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 11 | 6.1 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 11 | 6.1 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 16 | 6.1 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 16 | 6.1 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 16 | 6.1 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 4 | 6.1 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 4 | 6.1 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 4 | 6.1 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 4 | 6.1 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 4 | 6.1 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 4 | 6.1 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 14 | 6.1 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 14 | 6.1 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 19 | 6.1 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 19 | 6.1 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 19 | 6.1 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 19 | 6.1 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 4 | 6.1 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 16 | 6.1 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 16 | 6.1 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 16 | 6.1 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 18 | 6.1 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 18 | 6.1 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 4 | 6.1 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 4 | 6.1 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 16 | 6.1 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 13 | 6.1 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 13 | 6.1 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 14 | 6.1 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 6.1 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 6.1 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 6.1 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 6.1 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 13 | 6.1 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 13 | 6.1 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 13 | 6.1 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 11 | 6.1 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 11 | 6.1 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 15 | 6.1 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 15 | 6.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 18 | 6.1 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 6 | 6.1 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 6 | 6.1 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 14 | 6.1 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 14 | 6.1 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 11 | 6.1 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 11 | 6.1 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 8 | 6.1 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 8 | 6.1 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 4 | 6.1 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 4 | 6.1 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 4 | 6.1 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 9 | 6.1 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 9 | 6.1 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 9 | 6.1 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 9 | 6.1 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 9 | 6.1 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 9 | 6.1 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 13 | 6.1 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 13 | 6.1 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 13 | 6.1 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 6.1 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 6.1 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 6.1 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 3 | 6.1 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 9 | 6.1 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 9 | 6.1 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 18 | 6.1 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 8 | 6.1 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 8 | 6.1 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 13 | 6.1 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 13 | 6.1 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 18 | 6.1 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 18 | 6.1 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 18 | 6.1 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 6 | 6.1 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 6 | 6.1 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 6 | 6.1 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 8 | 6.1 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 8 | 6.1 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 8 | 6.1 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 9 | 6.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 13 | 6.1 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 13 | 6.1 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 13 | 6.1 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 7 | 6.1 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 7 | 6.1 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 7 | 6.1 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 7 | 6.1 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 7 | 6.1 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 7 | 6.1 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 18 | 6.1 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 17 | 6.09 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 8 | 6.09 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 8 | 6.09 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 2 | 6.09 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 2 | 6.09 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 16 | 6.09 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 16 | 6.09 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 14 | 6.09 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 14 | 6.09 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 13 | 6.09 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 13 | 6.09 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 3 | 6.09 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 3 | 6.09 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 3 | 6.09 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 3 | 6.09 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 3 | 6.09 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 3 | 6.09 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 14 | 6.09 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 14 | 6.09 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 17 | 6.09 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 17 | 6.09 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 17 | 6.09 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 17 | 6.09 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 17 | 6.09 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 17 | 6.09 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 20 | 6.09 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 20 | 6.09 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 4 | 6.09 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 4 | 6.09 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 7 | 6.09 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 7 | 6.09 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 11 | 6.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 11 | 6.09 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 19 | 6.09 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 19 | 6.09 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 9 | 6.09 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 9 | 6.09 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 3 | 6.09 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 3 | 6.09 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 3 | 6.09 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 3 | 6.09 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 18 | 6.09 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 18 | 6.09 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 18 | 6.09 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 18 | 6.09 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 8 | 6.09 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 8 | 6.09 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 8 | 6.09 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 19 | 6.09 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 19 | 6.09 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 19 | 6.09 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 19 | 6.09 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 19 | 6.09 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 19 | 6.09 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 19 | 6.09 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 19 | 6.09 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 19 | 6.09 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 6 | 6.09 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 19 | 6.09 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 19 | 6.09 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 19 | 6.09 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 1 | 6.09 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 1 | 6.09 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 1 | 6.09 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 2 | 6.09 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 10 | 6.09 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 10 | 6.09 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 10 | 6.09 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 14 | 6.09 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 14 | 6.09 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 18 | 6.09 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 18 | 6.09 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 1 | 6.09 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 1 | 6.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 1 | 6.09 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 1 | 6.09 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 1 | 6.09 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 1 | 6.09 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 1 | 6.09 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 1 | 6.09 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 1 | 6.09 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 9 | 6.09 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 7 | 6.09 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 7 | 6.09 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 13 | 6.09 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 13 | 6.09 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 8 | 6.09 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 8 | 6.09 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 8 | 6.09 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 14 | 6.09 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 14 | 6.09 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 14 | 6.09 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 19 | 6.09 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 16 | 6.09 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 6 | 6.09 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 6 | 6.09 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 6 | 6.09 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 8 | 6.09 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 8 | 6.09 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 8 | 6.09 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 12 | 6.09 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 10 | 6.09 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 10 | 6.09 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 10 | 6.09 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 10 | 6.09 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 10 | 6.09 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 10 | 6.09 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 1 | 6.09 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 12 | 6.09 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 12 | 6.09 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 12 | 6.09 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 1 | 6.09 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 1 | 6.09 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 1 | 6.09 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 10 | 6.09 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 10 | 6.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 10 | 6.09 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 7 | 6.09 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 7 | 6.09 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 20 | 6.09 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 20 | 6.09 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 20 | 6.09 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 7 | 6.09 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 7 | 6.09 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 10 | 6.09 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 1 | 6.09 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 1 | 6.09 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 1 | 6.09 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 1 | 6.09 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 1 | 6.09 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 1 | 6.09 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 17 | 6.09 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 17 | 6.09 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 17 | 6.09 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 16 | 6.09 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 16 | 6.09 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 12 | 6.09 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 1 | 6.09 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 8 | 6.09 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 8 | 6.09 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 8 | 6.09 |
| (1,5937) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 18 | 6.09 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 11 | 6.09 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 11 | 6.09 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 11 | 6.09 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 18 | 6.09 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 18 | 6.09 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 18 | 6.09 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 7 | 6.09 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 6 | 6.09 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 6 | 6.09 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 6 | 6.09 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 19 | 6.09 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 19 | 6.09 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 19 | 6.09 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 5 | 6.09 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 17 | 6.09 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 19 | 6.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 14 | 6.09 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 14 | 6.09 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 14 | 6.09 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 13 | 6.09 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 13 | 6.09 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 3 | 6.09 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 17 | 6.09 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 17 | 6.09 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 9 | 6.09 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 9 | 6.09 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 7 | 6.09 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 7 | 6.09 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 11 | 6.09 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 11 | 6.09 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 19 | 6.09 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 19 | 6.09 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 18 | 6.09 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 16 | 6.09 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 16 | 6.09 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 12 | 6.09 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 1 | 6.09 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 8 | 6.09 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 8 | 6.09 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 8 | 6.09 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 8 | 6.09 |
| (1,1362) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 18 | 6.09 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 17 | 6.09 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 17 | 6.09 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 17 | 6.09 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 17 | 6.09 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 17 | 6.09 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 17 | 6.09 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 11 | 6.09 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 11 | 6.09 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 11 | 6.09 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 19 | 6.09 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 19 | 6.09 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 19 | 6.09 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 3 | 6.09 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 19 | 6.08 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 13 | 6.08 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 14 | 6.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 14 | 6.08 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 10 | 6.08 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 10 | 6.08 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 15 | 6.08 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 15 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 4 | 6.08 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 4 | 6.08 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 11 | 6.08 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 11 | 6.08 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 11 | 6.08 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 11 | 6.08 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 12 | 6.08 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 12 | 6.08 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 13 | 6.08 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 13 | 6.08 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 16 | 6.08 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 16 | 6.08 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 16 | 6.08 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 16 | 6.08 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 4 | 6.08 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 4 | 6.08 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 12 | 6.08 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 12 | 6.08 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 16 | 6.08 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 16 | 6.08 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 14 | 6.08 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 14 | 6.08 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 10 | 6.08 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 10 | 6.08 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 10 | 6.08 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 10 | 6.08 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 10 | 6.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 10 | 6.08 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 10 | 6.08 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 10 | 6.08 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 19 | 6.08 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 19 | 6.08 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 4 | 6.08 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 4 | 6.08 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 4 | 6.08 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 4 | 6.08 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 16 | 6.08 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 16 | 6.08 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 16 | 6.08 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 16 | 6.08 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 16 | 6.08 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 16 | 6.08 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 3 | 6.08 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 3 | 6.08 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 14 | 6.08 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 14 | 6.08 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 2 | 6.08 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 2 | 6.08 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 2 | 6.08 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 15 | 6.08 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 15 | 6.08 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 15 | 6.08 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 13 | 6.08 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 13 | 6.08 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 13 | 6.08 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 16 | 6.08 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 16 | 6.08 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 16 | 6.08 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 5 | 6.08 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 5 | 6.08 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 5 | 6.08 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 6 | 6.08 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 13 | 6.08 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 5 | 6.08 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 5 | 6.08 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 5 | 6.08 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 16 | 6.08 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 2 | 6.08 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 13 | 6.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 18 | 6.08 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 4 | 6.08 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 13 | 6.08 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 13 | 6.08 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 13 | 6.08 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 17 | 6.08 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 17 | 6.08 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 17 | 6.08 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 1 | 6.08 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 1 | 6.08 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 1 | 6.08 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 20 | 6.08 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 20 | 6.08 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 20 | 6.08 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 7 | 6.08 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 2 | 6.08 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 17 | 6.08 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 17 | 6.08 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 17 | 6.08 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 19 | 6.08 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 19 | 6.08 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 19 | 6.08 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 19 | 6.08 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 6 | 6.08 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 6 | 6.08 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 11 | 6.08 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 14 | 6.08 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 14 | 6.08 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 14 | 6.08 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 10 | 6.08 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 20 | 6.08 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 20 | 6.08 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 20 | 6.08 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 20 | 6.08 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 20 | 6.08 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 20 | 6.08 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 11 | 6.08 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 11 | 6.08 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 11 | 6.08 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 12 | 6.08 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 17 | 6.08 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 16 | 6.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 15 | 6.08 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 19 | 6.08 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 19 | 6.08 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 1 | 6.08 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 5 | 6.08 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 5 | 6.08 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 5 | 6.08 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 3 | 6.08 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 19 | 6.08 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 19 | 6.08 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 19 | 6.08 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 7 | 6.08 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 7 | 6.08 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 7 | 6.08 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 2 | 6.08 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 2 | 6.08 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 2 | 6.08 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 2 | 6.08 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 2 | 6.08 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 2 | 6.08 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 2 | 6.08 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 2 | 6.08 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 2 | 6.08 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 1 | 6.08 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 8 | 6.08 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 8 | 6.08 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 8 | 6.08 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 8 | 6.08 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 8 | 6.08 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 8 | 6.08 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 8 | 6.08 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 8 | 6.08 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 8 | 6.08 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 9 | 6.08 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 9 | 6.08 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 10 | 6.08 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 10 | 6.08 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 10 | 6.08 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 10 | 6.08 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 10 | 6.08 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 12 | 6.08 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 5 | 6.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 5 | 6.08 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 5 | 6.08 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 5 | 6.08 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 5 | 6.08 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 5 | 6.08 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 12 | 6.08 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 16 | 6.08 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 16 | 6.08 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 4 | 6.08 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 4 | 6.08 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 1 | 6.08 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 7 | 6.08 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 13 | 6.08 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 13 | 6.08 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 13 | 6.08 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 14 | 6.08 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 14 | 6.08 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 19 | 6.08 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 10 | 6.08 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 10 | 6.08 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 10 | 6.08 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 10 | 6.08 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 10 | 6.08 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 10 | 6.08 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 16 | 6.08 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 2 | 6.08 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 5 | 6.08 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 2 | 6.08 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 6 | 6.08 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 6 | 6.08 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 6 | 6.08 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 10 | 6.08 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 6 | 6.08 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 15 | 6.08 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 15 | 6.08 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 11 | 6.08 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 12 | 6.08 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 11 | 6.08 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 17 | 6.08 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 17 | 6.08 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 17 | 6.08 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 17 | 6.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 16 | 6.08 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 18 | 6.08 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 18 | 6.08 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 18 | 6.08 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 4 | 6.08 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 9 | 6.08 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 11 | 6.08 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 15 | 6.08 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 17 | 6.08 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 17 | 6.08 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 17 | 6.08 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 19 | 6.08 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 19 | 6.08 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 18 | 6.08 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 18 | 6.08 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 18 | 6.08 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 1 | 6.08 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 5 | 6.08 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 5 | 6.08 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 5 | 6.08 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 9 | 6.08 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 9 | 6.08 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 9 | 6.08 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 3 | 6.08 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 19 | 6.08 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 19 | 6.08 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 19 | 6.08 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 17 | 6.08 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 17 | 6.08 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 17 | 6.08 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 17 | 6.08 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 17 | 6.08 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 17 | 6.08 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 5 | 6.07 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 17 | 6.07 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 17 | 6.07 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 3 | 6.07 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 3 | 6.07 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 3 | 6.07 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 3 | 6.07 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 3 | 6.07 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 3 | 6.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 13 | 6.07 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 13 | 6.07 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 7 | 6.07 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 7 | 6.07 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 2 | 6.07 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 2 | 6.07 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 2 | 6.07 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 2 | 6.07 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 2 | 6.07 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 2 | 6.07 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 2 | 6.07 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 2 | 6.07 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 2 | 6.07 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 2 | 6.07 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 2 | 6.07 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 2 | 6.07 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 10 | 6.07 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 10 | 6.07 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 10 | 6.07 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 10 | 6.07 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 10 | 6.07 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 10 | 6.07 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 16 | 6.07 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 16 | 6.07 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 7 | 6.07 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 7 | 6.07 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 2 | 6.07 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 2 | 6.07 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 2 | 6.07 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 2 | 6.07 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 12 | 6.07 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 12 | 6.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 17 | 6.07 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 17 | 6.07 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 8 | 6.07 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 8 | 6.07 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 8 | 6.07 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 8 | 6.07 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 8 | 6.07 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 8 | 6.07 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 5 | 6.07 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 5 | 6.07 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 14 | 6.07 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 14 | 6.07 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 14 | 6.07 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 14 | 6.07 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 14 | 6.07 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 14 | 6.07 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 1 | 6.07 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 1 | 6.07 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 1 | 6.07 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 1 | 6.07 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 1 | 6.07 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 1 | 6.07 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 1 | 6.07 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 1 | 6.07 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 1 | 6.07 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 1 | 6.07 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 1 | 6.07 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 20 | 6.07 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 2 | 6.07 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 3 | 6.07 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 7 | 6.07 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 3 | 6.07 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 3 | 6.07 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 3 | 6.07 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 9 | 6.07 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 9 | 6.07 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 9 | 6.07 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 5 | 6.07 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 11 | 6.07 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 4 | 6.07 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 3 | 6.07 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 4 | 6.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 20 | 6.07 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 20 | 6.07 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 18 | 6.07 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 5 | 6.07 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 16 | 6.07 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 1 | 6.07 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 1 | 6.07 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 11 | 6.07 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 11 | 6.07 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 19 | 6.07 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 19 | 6.07 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 19 | 6.07 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 19 | 6.07 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 18 | 6.07 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 18 | 6.07 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 18 | 6.07 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 10 | 6.07 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 10 | 6.07 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 10 | 6.07 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 16 | 6.07 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 16 | 6.07 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 16 | 6.07 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 11 | 6.07 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 13 | 6.07 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 13 | 6.07 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 13 | 6.07 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 18 | 6.07 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 19 | 6.07 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 16 | 6.07 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 16 | 6.07 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 16 | 6.07 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 16 | 6.07 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 16 | 6.07 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 15 | 6.07 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 15 | 6.07 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 15 | 6.07 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 1 | 6.07 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 7 | 6.07 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 7 | 6.07 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 7 | 6.07 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 6 | 6.07 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 5 | 6.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 4 | 6.07 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 20 | 6.07 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 20 | 6.07 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 20 | 6.07 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 20 | 6.07 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 5 | 6.07 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 5 | 6.07 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 19 | 6.07 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 7 | 6.07 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 7 | 6.07 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 7 | 6.07 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 7 | 6.07 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 7 | 6.07 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 7 | 6.07 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 17 | 6.07 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 17 | 6.07 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 17 | 6.07 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 17 | 6.07 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 17 | 6.07 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 17 | 6.07 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 4 | 6.07 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 4 | 6.07 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 4 | 6.07 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 9 | 6.07 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 6 | 6.07 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 12 | 6.07 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 10 | 6.07 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 10 | 6.07 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 10 | 6.07 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 6 | 6.07 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 7 | 6.07 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 7 | 6.07 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 7 | 6.07 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 4 | 6.07 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 4 | 6.07 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 4 | 6.07 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 6 | 6.07 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 6 | 6.07 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 6 | 6.07 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 8 | 6.07 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 9 | 6.07 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 9 | 6.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 9 | 6.07 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 17 | 6.07 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 17 | 6.07 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 17 | 6.07 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 20 | 6.07 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 20 | 6.07 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 20 | 6.07 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 16 | 6.07 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 15 | 6.07 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 15 | 6.07 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 15 | 6.07 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 15 | 6.07 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 15 | 6.07 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 15 | 6.07 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 16 | 6.07 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 16 | 6.07 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 16 | 6.07 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 13 | 6.07 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 13 | 6.07 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 13 | 6.07 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 15 | 6.07 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 13 | 6.07 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 16 | 6.07 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 16 | 6.07 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 2 | 6.07 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 8 | 6.07 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 10 | 6.07 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 2 | 6.07 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 2 | 6.07 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 2 | 6.07 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 4 | 6.07 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 4 | 6.07 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 4 | 6.07 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 4 | 6.07 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 7 | 6.07 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 2 | 6.07 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 2 | 6.07 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 2 | 6.07 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 2 | 6.07 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 2 | 6.07 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 2 | 6.07 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 18 | 6.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 18 | 6.07 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 18 | 6.07 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 16 | 6.07 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 6.07 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 2 | 6.07 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 2 | 6.07 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 2 | 6.07 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 2 | 6.07 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 2 | 6.07 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 2 | 6.07 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 16 | 6.07 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 16 | 6.07 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 12 | 6.07 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 12 | 6.07 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 12 | 6.07 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 18 | 6.07 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 18 | 6.07 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 18 | 6.07 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 2 | 6.07 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 15 | 6.07 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 7 | 6.07 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 7 | 6.07 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 2 | 6.07 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 2 | 6.07 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 2 | 6.07 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 2 | 6.07 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 4 | 6.07 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 11 | 6.07 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 3 | 6.07 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 8 | 6.07 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 6 | 6.07 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 1 | 6.07 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 12 | 6.07 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 10 | 6.07 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 10 | 6.07 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 10 | 6.07 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 6 | 6.07 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 7 | 6.07 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 7 | 6.07 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 7 | 6.07 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 4 | 6.07 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 4 | 6.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 4 | 6.07 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 9 | 6.07 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 9 | 6.07 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 9 | 6.07 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 18 | 6.07 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 18 | 6.07 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 18 | 6.07 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 8 | 6.07 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 8 | 6.07 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 6 | 6.07 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 6 | 6.07 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 6 | 6.07 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 13 | 6.07 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 13 | 6.07 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 13 | 6.07 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 20 | 6.07 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 20 | 6.07 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 20 | 6.07 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 8 | 6.07 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 9 | 6.07 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 9 | 6.07 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 9 | 6.07 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 17 | 6.07 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 17 | 6.07 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 17 | 6.07 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 19 | 6.07 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 20 | 6.07 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 20 | 6.07 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 20 | 6.07 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 16 | 6.07 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 15 | 6.07 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 15 | 6.07 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 15 | 6.07 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 15 | 6.07 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 15 | 6.07 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 15 | 6.07 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 18 | 6.06 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 4 | 6.06 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 20 | 6.06 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 5 | 6.06 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 5 | 6.06 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 7 | 6.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 7 | 6.06 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 3 | 6.06 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 3 | 6.06 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 12 | 6.06 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 12 | 6.06 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 14 | 6.06 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 14 | 6.06 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 14 | 6.06 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 14 | 6.06 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 19 | 6.06 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 19 | 6.06 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 10 | 6.06 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 10 | 6.06 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 6.06 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 6.06 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 6.06 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 6.06 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 6.06 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 6.06 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 12 | 6.06 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 12 | 6.06 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 12 | 6.06 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 12 | 6.06 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 12 | 6.06 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 12 | 6.06 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 1 | 6.06 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 1 | 6.06 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 12 | 6.06 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 12 | 6.06 |
| (1,8919) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 4 | 6.06 |
| (1,8919) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 4 | 6.06 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 18 | 6.06 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 18 | 6.06 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 18 | 6.06 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 18 | 6.06 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 18 | 6.06 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 18 | 6.06 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 9 | 6.06 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 9 | 6.06 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 7 | 6.06 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 7 | 6.06 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 20 | 6.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 20 | 6.06 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 13 | 6.06 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 13 | 6.06 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 11 | 6.06 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 11 | 6.06 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 11 | 6.06 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 11 | 6.06 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 11 | 6.06 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 11 | 6.06 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 1 | 6.06 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 1 | 6.06 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 12 | 6.06 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 12 | 6.06 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 19 | 6.06 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 19 | 6.06 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 19 | 6.06 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 19 | 6.06 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 19 | 6.06 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 19 | 6.06 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 7 | 6.06 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 7 | 6.06 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 7 | 6.06 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 12 | 6.06 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 12 | 6.06 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 12 | 6.06 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 10 | 6.06 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 10 | 6.06 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 10 | 6.06 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 13 | 6.06 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 13 | 6.06 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 5 | 6.06 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 5 | 6.06 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 5 | 6.06 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 19 | 6.06 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 3 | 6.06 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 17 | 6.06 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 17 | 6.06 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 4 | 6.06 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 5 | 6.06 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 13 | 6.06 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 13 | 6.06 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 13 | 6.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 16 | 6.06 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 16 | 6.06 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 4 | 6.06 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 4 | 6.06 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 11 | 6.06 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 16 | 6.06 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 16 | 6.06 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 16 | 6.06 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 12 | 6.06 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 12 | 6.06 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 8 | 6.06 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 6 | 6.06 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 18 | 6.06 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 18 | 6.06 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 18 | 6.06 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 8 | 6.06 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 8 | 6.06 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 8 | 6.06 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 14 | 6.06 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 14 | 6.06 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 13 | 6.06 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 3 | 6.06 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 3 | 6.06 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 3 | 6.06 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 17 | 6.06 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 3 | 6.06 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 3 | 6.06 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 10 | 6.06 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 20 | 6.06 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 15 | 6.06 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 15 | 6.06 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 15 | 6.06 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 2 | 6.06 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 2 | 6.06 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 2 | 6.06 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 9 | 6.06 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 12 | 6.06 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 12 | 6.06 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 13 | 6.06 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 13 | 6.06 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 13 | 6.06 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 13 | 6.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 13 | 6.06 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 13 | 6.06 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 7 | 6.06 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 7 | 6.06 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 7 | 6.06 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 9 | 6.06 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 11 | 6.06 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 11 | 6.06 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 11 | 6.06 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 15 | 6.06 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 15 | 6.06 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 15 | 6.06 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 11 | 6.06 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 10 | 6.06 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 10 | 6.06 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 19 | 6.06 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 19 | 6.06 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 9 | 6.06 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 9 | 6.06 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 9 | 6.06 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 2 | 6.06 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 11 | 6.06 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 19 | 6.06 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 3 | 6.06 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 3 | 6.06 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 3 | 6.06 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 13 | 6.06 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 3 | 6.06 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 4 | 6.06 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 20 | 6.06 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 20 | 6.06 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 20 | 6.06 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 20 | 6.06 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 9 | 6.06 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 9 | 6.06 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 9 | 6.06 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 7 | 6.06 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 7 | 6.06 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 19 | 6.06 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 19 | 6.06 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 19 | 6.06 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 1 | 6.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 12 | 6.06 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 12 | 6.06 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 12 | 6.06 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 12 | 6.06 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 12 | 6.06 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 12 | 6.06 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 12 | 6.06 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 12 | 6.06 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 12 | 6.06 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 11 | 6.06 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 11 | 6.06 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 11 | 6.06 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 1 | 6.06 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 1 | 6.06 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 1 | 6.06 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 4 | 6.06 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 4 | 6.06 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 4 | 6.06 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 15 | 6.06 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 15 | 6.06 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 13 | 6.06 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 13 | 6.06 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 13 | 6.06 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 13 | 6.06 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 13 | 6.06 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 13 | 6.06 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 13 | 6.06 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 13 | 6.06 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 13 | 6.06 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 12 | 6.06 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 12 | 6.06 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 12 | 6.06 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 7 | 6.06 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 7 | 6.06 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 19 | 6.06 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 12 | 6.06 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 11 | 6.06 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 11 | 6.06 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 11 | 6.06 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 17 | 6.06 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 12 | 6.06 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 12 | 6.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 4 | 6.06 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 4 | 6.06 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 6.06 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 6.06 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 6.06 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 6.06 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 6.06 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 6.06 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 9 | 6.06 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 9 | 6.06 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 9 | 6.06 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 9 | 6.06 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 16 | 6.06 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 16 | 6.06 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 16 | 6.06 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 8 | 6.06 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 13 | 6.06 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 13 | 6.06 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 19 | 6.06 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 19 | 6.06 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 19 | 6.06 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 19 | 6.06 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 19 | 6.06 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 19 | 6.06 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 19 | 6.06 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 19 | 6.06 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 19 | 6.06 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 19 | 6.06 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 2 | 6.06 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 11 | 6.06 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 19 | 6.06 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 5 | 6.06 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 3 | 6.06 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 3 | 6.06 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 3 | 6.06 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 13 | 6.06 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 3 | 6.06 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 4 | 6.06 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 20 | 6.06 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 3 | 6.06 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 13 | 6.06 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 13 | 6.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 13 | 6.06 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 12 | 6.06 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 20 | 6.06 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 20 | 6.06 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 20 | 6.06 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 2 | 6.06 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 2 | 6.06 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 2 | 6.06 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 9 | 6.06 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 9 | 6.06 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 9 | 6.06 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 6.06 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 6.06 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 6.06 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 7 | 6.06 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 7 | 6.06 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 19 | 6.06 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 19 | 6.06 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 19 | 6.06 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 1 | 6.06 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 16 | 6.06 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 16 | 6.06 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 16 | 6.06 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 12 | 6.06 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 12 | 6.06 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 12 | 6.06 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 12 | 6.06 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 12 | 6.06 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 12 | 6.06 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 12 | 6.06 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 12 | 6.06 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 12 | 6.06 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 10 | 6.05 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 9 | 6.05 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 9 | 6.05 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 3 | 6.05 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 3 | 6.05 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 3 | 6.05 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 3 | 6.05 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 3 | 6.05 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 3 | 6.05 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 4 | 6.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 4 | 6.05 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 4 | 6.05 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 4 | 6.05 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 4 | 6.05 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 4 | 6.05 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 2 | 6.05 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 2 | 6.05 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 2 | 6.05 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 2 | 6.05 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 5 | 6.05 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 5 | 6.05 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 2 | 6.05 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 2 | 6.05 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 15 | 6.05 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 15 | 6.05 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 13 | 6.05 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 13 | 6.05 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 15 | 6.05 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 15 | 6.05 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 15 | 6.05 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 15 | 6.05 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 15 | 6.05 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 15 | 6.05 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 15 | 6.05 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 15 | 6.05 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 18 | 6.05 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 18 | 6.05 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 5 | 6.05 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 5 | 6.05 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 2 | 6.05 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 2 | 6.05 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 2 | 6.05 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 2 | 6.05 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 18 | 6.05 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 18 | 6.05 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 14 | 6.05 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 14 | 6.05 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 14 | 6.05 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 5 | 6.05 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 5 | 6.05 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 5 | 6.05 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 14 | 6.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 16 | 6.05 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 16 | 6.05 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 7 | 6.05 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 18 | 6.05 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 18 | 6.05 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 18 | 6.05 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 10 | 6.05 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 10 | 6.05 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 10 | 6.05 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 14 | 6.05 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 14 | 6.05 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 14 | 6.05 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 5 | 6.05 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 5 | 6.05 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 4 | 6.05 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 4 | 6.05 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 1 | 6.05 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 1 | 6.05 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 20 | 6.05 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 20 | 6.05 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 20 | 6.05 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 7 | 6.05 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 7 | 6.05 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 7 | 6.05 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 13 | 6.05 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 13 | 6.05 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 13 | 6.05 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 13 | 6.05 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 13 | 6.05 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 5 | 6.05 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 5 | 6.05 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 5 | 6.05 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 3 | 6.05 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 3 | 6.05 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 3 | 6.05 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 13 | 6.05 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 13 | 6.05 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 13 | 6.05 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 13 | 6.05 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 13 | 6.05 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 13 | 6.05 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 13 | 6.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 13 | 6.05 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 13 | 6.05 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 14 | 6.05 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 17 | 6.05 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 17 | 6.05 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 17 | 6.05 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 6 | 6.05 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 18 | 6.05 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 13 | 6.05 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 18 | 6.05 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 18 | 6.05 |
| (1,7497) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 18 | 6.05 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 20 | 6.05 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 20 | 6.05 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 5 | 6.05 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 17 | 6.05 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 6 | 6.05 |
| (1,7413) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 9 | 6.05 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 2 | 6.05 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 2 | 6.05 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 2 | 6.05 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 2 | 6.05 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 2 | 6.05 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 2 | 6.05 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 6 | 6.05 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 15 | 6.05 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 14 | 6.05 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 3 | 6.05 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 3 | 6.05 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 3 | 6.05 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 9 | 6.05 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 9 | 6.05 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 9 | 6.05 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 1 | 6.05 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 1 | 6.05 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 1 | 6.05 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 12 | 6.05 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 12 | 6.05 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 12 | 6.05 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 12 | 6.05 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 12 | 6.05 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 12 | 6.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 17 | 6.05 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 17 | 6.05 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 14 | 6.05 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 14 | 6.05 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 14 | 6.05 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 14 | 6.05 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 14 | 6.05 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 14 | 6.05 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 5 | 6.05 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 5 | 6.05 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 3 | 6.05 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 3 | 6.05 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 3 | 6.05 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 7 | 6.05 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 13 | 6.05 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 13 | 6.05 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 13 | 6.05 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 13 | 6.05 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 13 | 6.05 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 13 | 6.05 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 3 | 6.05 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 3 | 6.05 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 3 | 6.05 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 9 | 6.05 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 5 | 6.05 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 8 | 6.05 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 8 | 6.05 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 8 | 6.05 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 10 | 6.05 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 3 | 6.05 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 3 | 6.05 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 3 | 6.05 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 3 | 6.05 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 3 | 6.05 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 3 | 6.05 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 15 | 6.05 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 4 | 6.05 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 4 | 6.05 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 4 | 6.05 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 4 | 6.05 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 4 | 6.05 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 4 | 6.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 2 | 6.05 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 2 | 6.05 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 2 | 6.05 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 2 | 6.05 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 19 | 6.05 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 18 | 6.05 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 11 | 6.05 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 9 | 6.05 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 9 | 6.05 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 13 | 6.05 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 13 | 6.05 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 6 | 6.05 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 6 | 6.05 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 6 | 6.05 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 3 | 6.05 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 12 | 6.05 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 18 | 6.05 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 18 | 6.05 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 15 | 6.05 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 15 | 6.05 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 5 | 6.05 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 5 | 6.05 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 5 | 6.05 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 3 | 6.05 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 3 | 6.05 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 3 | 6.05 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 17 | 6.05 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 9 | 6.05 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 6.05 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 3 | 6.05 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 6 | 6.05 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 7 | 6.05 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 15 | 6.05 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 14 | 6.05 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 3 | 6.05 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 3 | 6.05 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 3 | 6.05 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 9 | 6.05 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 9 | 6.05 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 9 | 6.05 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 1 | 6.05 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 1 | 6.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 1 | 6.05 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 18 | 6.05 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 12 | 6.05 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 12 | 6.05 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 12 | 6.05 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 12 | 6.05 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 12 | 6.05 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 12 | 6.05 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 17 | 6.05 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 17 | 6.05 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 14 | 6.05 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 14 | 6.05 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 14 | 6.05 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 14 | 6.05 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 14 | 6.05 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 14 | 6.05 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 5 | 6.05 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 5 | 6.05 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 3 | 6.05 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 3 | 6.05 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 3 | 6.05 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 11 | 6.05 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 7 | 6.05 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 6.05 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 13 | 6.05 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 13 | 6.05 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 13 | 6.05 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 13 | 6.05 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 13 | 6.05 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 13 | 6.05 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 5 | 6.04 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 8 | 6.04 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 9 | 6.04 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 1 | 6.04 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 19 | 6.04 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 19 | 6.04 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 18 | 6.04 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 18 | 6.04 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 3 | 6.04 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 3 | 6.04 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 6 | 6.04 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 6 | 6.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 5 | 6.04 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 5 | 6.04 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 5 | 6.04 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 5 | 6.04 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 5 | 6.04 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 5 | 6.04 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 8 | 6.04 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 8 | 6.04 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 9 | 6.04 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 9 | 6.04 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 9 | 6.04 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 9 | 6.04 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 9 | 6.04 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 9 | 6.04 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 9 | 6.04 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 9 | 6.04 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 11 | 6.04 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 11 | 6.04 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 11 | 6.04 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 11 | 6.04 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 6 | 6.04 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 6 | 6.04 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 19 | 6.04 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 19 | 6.04 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 6.04 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 6.04 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 6.04 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 6.04 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 6.04 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 6.04 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 6 | 6.04 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 6 | 6.04 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 6 | 6.04 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 6 | 6.04 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 6 | 6.04 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 6 | 6.04 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 1 | 6.04 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 1 | 6.04 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 6 | 6.04 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 6 | 6.04 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 6 | 6.04 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 6 | 6.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 6 | 6.04 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 6 | 6.04 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 6 | 6.04 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 6 | 6.04 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 1 | 6.04 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 1 | 6.04 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 7 | 6.04 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 7 | 6.04 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 7 | 6.04 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 7 | 6.04 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 17 | 6.04 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 17 | 6.04 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 17 | 6.04 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 17 | 6.04 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 9 | 6.04 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 9 | 6.04 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 9 | 6.04 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 9 | 6.04 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 9 | 6.04 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 9 | 6.04 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 13 | 6.04 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 13 | 6.04 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 13 | 6.04 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 13 | 6.04 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 13 | 6.04 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 13 | 6.04 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 18 | 6.04 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 18 | 6.04 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 16 | 6.04 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 16 | 6.04 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 16 | 6.04 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 16 | 6.04 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 16 | 6.04 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 16 | 6.04 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 8 | 6.04 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 8 | 6.04 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 8 | 6.04 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 8 | 6.04 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 11 | 6.04 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 11 | 6.04 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 11 | 6.04 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 11 | 6.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 11 | 6.04 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 11 | 6.04 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 16 | 6.04 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 16 | 6.04 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 7 | 6.04 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 8 | 6.04 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 8 | 6.04 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 1 | 6.04 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 1 | 6.04 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 1 | 6.04 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 4 | 6.04 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 4 | 6.04 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 6 | 6.04 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 6 | 6.04 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 15 | 6.04 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 3 | 6.04 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 3 | 6.04 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 3 | 6.04 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 9 | 6.04 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 9 | 6.04 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 9 | 6.04 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 13 | 6.04 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 13 | 6.04 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 13 | 6.04 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 15 | 6.04 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 15 | 6.04 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 15 | 6.04 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 3 | 6.04 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 3 | 6.04 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 3 | 6.04 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 6 | 6.04 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 6 | 6.04 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 6 | 6.04 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 6 | 6.04 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 6 | 6.04 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 6 | 6.04 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 6 | 6.04 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 6 | 6.04 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 6 | 6.04 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 2 | 6.04 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 2 | 6.04 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 2 | 6.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 16 | 6.04 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 16 | 6.04 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 16 | 6.04 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 16 | 6.04 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 16 | 6.04 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 16 | 6.04 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 16 | 6.04 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 16 | 6.04 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 16 | 6.04 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 16 | 6.04 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 16 | 6.04 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 16 | 6.04 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 5 | 6.04 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 11 | 6.04 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 18 | 6.04 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 18 | 6.04 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 18 | 6.04 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 17 | 6.04 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 17 | 6.04 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 17 | 6.04 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 17 | 6.04 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 17 | 6.04 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 17 | 6.04 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 12 | 6.04 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 18 | 6.04 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 18 | 6.04 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 19 | 6.04 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 1 | 6.04 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 6 | 6.04 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 6 | 6.04 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 15 | 6.04 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 10 | 6.04 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 10 | 6.04 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 10 | 6.04 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 14 | 6.04 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 16 | 6.04 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 12 | 6.04 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 12 | 6.04 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 8 | 6.04 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 15 | 6.04 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 5 | 6.04 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 2 | 6.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 14 | 6.04 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 14 | 6.04 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 14 | 6.04 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 9 | 6.04 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 3 | 6.04 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 3 | 6.04 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 3 | 6.04 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 5 | 6.04 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 14 | 6.04 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 14 | 6.04 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 16 | 6.04 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 11 | 6.04 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 9 | 6.04 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 18 | 6.04 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 11 | 6.04 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 15 | 6.04 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 2 | 6.04 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 2 | 6.04 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 14 | 6.04 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 14 | 6.04 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 14 | 6.04 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 2 | 6.04 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 2 | 6.04 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 3 | 6.04 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 14 | 6.04 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 14 | 6.04 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 14 | 6.04 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 1 | 6.04 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 20 | 6.04 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 20 | 6.04 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 20 | 6.04 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 20 | 6.04 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 20 | 6.04 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 20 | 6.04 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 5 | 6.04 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 5 | 6.04 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 5 | 6.04 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 5 | 6.04 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 5 | 6.04 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 5 | 6.04 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 17 | 6.04 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 4 | 6.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 4 | 6.04 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 4 | 6.04 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 4 | 6.04 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 4 | 6.04 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 4 | 6.04 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 18 | 6.04 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 18 | 6.04 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 3 | 6.04 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 3 | 6.04 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 6 | 6.04 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 6 | 6.04 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 12 | 6.04 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 12 | 6.04 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 9 | 6.04 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 9 | 6.04 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 9 | 6.04 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 9 | 6.04 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 9 | 6.04 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 9 | 6.04 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 11 | 6.04 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 11 | 6.04 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 11 | 6.04 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 11 | 6.04 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 16 | 6.04 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 7 | 6.04 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 7 | 6.04 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 6 | 6.04 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 6 | 6.04 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 6 | 6.04 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 6.04 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 6.04 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 6.04 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 6.04 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 6.04 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 6.04 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 1 | 6.04 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 1 | 6.04 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 1 | 6.04 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 1 | 6.04 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 1 | 6.04 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 6 | 6.04 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 6 | 6.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 6 | 6.04 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 6 | 6.04 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 6 | 6.04 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 6 | 6.04 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 3 | 6.04 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 3 | 6.04 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 13 | 6.04 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 7 | 6.04 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 7 | 6.04 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 7 | 6.04 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 7 | 6.04 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 17 | 6.04 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 17 | 6.04 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 17 | 6.04 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 17 | 6.04 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 16 | 6.04 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 9 | 6.04 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 9 | 6.04 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 13 | 6.04 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 13 | 6.04 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 13 | 6.04 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 13 | 6.04 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 13 | 6.04 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 13 | 6.04 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 16 | 6.04 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 16 | 6.04 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 16 | 6.04 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 16 | 6.04 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 16 | 6.04 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 16 | 6.04 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 11 | 6.04 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 11 | 6.04 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 14 | 6.04 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 14 | 6.04 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 14 | 6.04 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 9 | 6.04 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 3 | 6.04 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 3 | 6.04 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 3 | 6.04 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 5 | 6.04 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 14 | 6.04 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 14 | 6.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 16 | 6.04 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 11 | 6.04 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 19 | 6.04 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 19 | 6.04 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 19 | 6.04 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 9 | 6.04 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 18 | 6.04 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 11 | 6.04 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 15 | 6.04 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 11 | 6.04 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 3 | 6.04 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 3 | 6.04 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 2 | 6.04 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 2 | 6.04 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 14 | 6.04 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 14 | 6.04 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 14 | 6.04 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 9 | 6.04 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 2 | 6.04 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 2 | 6.04 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 3 | 6.04 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 14 | 6.04 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 14 | 6.04 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 14 | 6.04 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 1 | 6.04 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 20 | 6.04 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 20 | 6.04 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 20 | 6.04 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 20 | 6.04 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 20 | 6.04 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 20 | 6.04 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 5 | 6.04 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 5 | 6.04 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 5 | 6.04 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 5 | 6.04 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 5 | 6.04 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 5 | 6.04 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 5 | 6.03 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 5 | 6.03 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 9 | 6.03 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 2 | 6.03 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 2 | 6.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 17 | 6.03 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 17 | 6.03 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 17 | 6.03 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 17 | 6.03 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 13 | 6.03 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 13 | 6.03 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 18 | 6.03 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 18 | 6.03 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 11 | 6.03 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 11 | 6.03 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 11 | 6.03 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 11 | 6.03 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 11 | 6.03 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 11 | 6.03 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 12 | 6.03 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 12 | 6.03 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 6 | 6.03 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 6 | 6.03 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 18 | 6.03 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 18 | 6.03 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 10 | 6.03 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 10 | 6.03 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 12 | 6.03 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 12 | 6.03 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 16 | 6.03 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 16 | 6.03 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 8 | 6.03 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 8 | 6.03 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 13 | 6.03 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 13 | 6.03 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 16 | 6.03 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 16 | 6.03 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 19 | 6.03 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 19 | 6.03 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 19 | 6.03 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 19 | 6.03 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 19 | 6.03 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 19 | 6.03 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 12 | 6.03 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 12 | 6.03 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 12 | 6.03 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 12 | 6.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 13 | 6.03 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 13 | 6.03 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 13 | 6.03 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 13 | 6.03 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 11 | 6.03 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 11 | 6.03 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 15 | 6.03 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 15 | 6.03 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 15 | 6.03 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 15 | 6.03 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 15 | 6.03 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 15 | 6.03 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 4 | 6.03 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 4 | 6.03 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 17 | 6.03 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 17 | 6.03 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 17 | 6.03 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 4 | 6.03 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 20 | 6.03 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 20 | 6.03 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 20 | 6.03 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 17 | 6.03 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 17 | 6.03 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 6 | 6.03 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 12 | 6.03 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 5 | 6.03 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 5 | 6.03 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 14 | 6.03 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 14 | 6.03 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 15 | 6.03 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 15 | 6.03 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 15 | 6.03 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 11 | 6.03 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 11 | 6.03 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 11 | 6.03 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 2 | 6.03 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 2 | 6.03 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 2 | 6.03 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 10 | 6.03 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 10 | 6.03 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 10 | 6.03 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 7 | 6.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 19 | 6.03 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 19 | 6.03 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 19 | 6.03 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 5 | 6.03 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 5 | 6.03 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 5 | 6.03 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 14 | 6.03 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 18 | 6.03 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 15 | 6.03 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 15 | 6.03 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 15 | 6.03 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 20 | 6.03 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 20 | 6.03 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 20 | 6.03 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 10 | 6.03 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 10 | 6.03 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 10 | 6.03 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 8 | 6.03 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 3 | 6.03 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 3 | 6.03 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 3 | 6.03 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 17 | 6.03 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 17 | 6.03 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 3 | 6.03 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 8 | 6.03 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 8 | 6.03 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 8 | 6.03 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 14 | 6.03 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 4 | 6.03 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 9 | 6.03 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 9 | 6.03 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 19 | 6.03 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 19 | 6.03 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 19 | 6.03 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 19 | 6.03 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 19 | 6.03 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 19 | 6.03 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 11 | 6.03 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 11 | 6.03 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 10 | 6.03 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 10 | 6.03 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 10 | 6.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 10 | 6.03 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 10 | 6.03 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 10 | 6.03 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 2 | 6.03 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 6 | 6.03 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 6 | 6.03 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 6 | 6.03 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 14 | 6.03 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 15 | 6.03 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 15 | 6.03 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 15 | 6.03 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 2 | 6.03 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 19 | 6.03 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 19 | 6.03 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 19 | 6.03 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 5 | 6.03 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 5 | 6.03 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 5 | 6.03 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 3 | 6.03 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 13 | 6.03 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 9 | 6.03 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 9 | 6.03 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 9 | 6.03 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 14 | 6.03 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 18 | 6.03 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 18 | 6.03 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 18 | 6.03 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 18 | 6.03 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 18 | 6.03 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 18 | 6.03 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 18 | 6.03 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 18 | 6.03 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 18 | 6.03 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 6 | 6.03 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 6 | 6.03 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 6 | 6.03 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 4 | 6.03 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 8 | 6.03 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 10 | 6.03 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 10 | 6.03 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 10 | 6.03 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 12 | 6.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 10 | 6.03 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 10 | 6.03 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 10 | 6.03 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 13 | 6.03 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 5 | 6.03 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 5 | 6.03 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 5 | 6.03 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 8 | 6.03 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 8 | 6.03 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 8 | 6.03 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 11 | 6.03 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 11 | 6.03 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 11 | 6.03 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 15 | 6.03 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 15 | 6.03 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 12 | 6.03 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 12 | 6.03 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 6 | 6.03 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 6 | 6.03 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 8 | 6.03 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 7 | 6.03 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 7 | 6.03 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 7 | 6.03 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 19 | 6.03 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 12 | 6.03 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 6 | 6.03 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 13 | 6.03 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 13 | 6.03 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 2 | 6.03 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 2 | 6.03 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 16 | 6.03 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 13 | 6.03 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 13 | 6.03 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 13 | 6.03 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 13 | 6.03 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 19 | 6.03 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 19 | 6.03 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 19 | 6.03 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 8 | 6.03 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 2 | 6.03 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 11 | 6.03 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 11 | 6.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 15 | 6.03 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 15 | 6.03 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 15 | 6.03 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 2 | 6.03 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 8 | 6.03 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 8 | 6.03 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 8 | 6.03 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 19 | 6.03 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 19 | 6.03 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 19 | 6.03 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 5 | 6.03 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 5 | 6.03 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 5 | 6.03 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 3 | 6.03 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 13 | 6.03 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 9 | 6.03 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 9 | 6.03 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 9 | 6.03 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 14 | 6.03 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 18 | 6.03 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 18 | 6.03 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 18 | 6.03 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 18 | 6.03 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 18 | 6.03 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 18 | 6.03 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 18 | 6.03 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 18 | 6.03 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 18 | 6.03 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 6 | 6.03 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 6 | 6.03 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 6 | 6.03 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 8 | 6.03 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 8 | 6.03 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 8 | 6.03 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 4 | 6.03 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 12 | 6.03 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 8 | 6.03 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 15 | 6.03 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 13 | 6.03 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 10 | 6.03 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 10 | 6.03 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 10 | 6.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 14 | 6.03 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 7 | 6.03 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 7 | 6.03 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 7 | 6.03 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 12 | 6.03 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 4 | 6.02 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 9 | 6.02 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 8 | 6.02 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 13 | 6.02 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 19 | 6.02 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 19 | 6.02 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 17 | 6.02 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 17 | 6.02 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 17 | 6.02 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 17 | 6.02 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 6 | 6.02 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 6 | 6.02 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 18 | 6.02 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 18 | 6.02 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 6 | 6.02 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 6 | 6.02 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 20 | 6.02 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 20 | 6.02 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 20 | 6.02 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 20 | 6.02 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 20 | 6.02 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 20 | 6.02 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 13 | 6.02 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 13 | 6.02 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 13 | 6.02 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 13 | 6.02 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 13 | 6.02 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 13 | 6.02 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 8 | 6.02 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 8 | 6.02 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 5 | 6.02 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 5 | 6.02 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 3 | 6.02 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 3 | 6.02 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 12 | 6.02 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 12 | 6.02 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 1 | 6.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 1 | 6.02 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 13 | 6.02 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 13 | 6.02 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 13 | 6.02 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 13 | 6.02 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 10 | 6.02 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 10 | 6.02 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 4 | 6.02 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 4 | 6.02 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 16 | 6.02 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 16 | 6.02 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 16 | 6.02 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 16 | 6.02 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 16 | 6.02 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 16 | 6.02 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 16 | 6.02 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 16 | 6.02 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 16 | 6.02 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 9 | 6.02 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 9 | 6.02 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 9 | 6.02 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 9 | 6.02 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 9 | 6.02 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 9 | 6.02 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 4 | 6.02 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 4 | 6.02 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 3 | 6.02 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 3 | 6.02 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 17 | 6.02 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 10 | 6.02 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 15 | 6.02 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 12 | 6.02 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 2 | 6.02 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 2 | 6.02 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 16 | 6.02 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 3 | 6.02 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 3 | 6.02 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 3 | 6.02 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 18 | 6.02 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 18 | 6.02 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 18 | 6.02 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 6 | 6.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 18 | 6.02 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 7 | 6.02 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 4 | 6.02 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 4 | 6.02 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 4 | 6.02 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 7 | 6.02 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 7 | 6.02 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 7 | 6.02 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 15 | 6.02 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 15 | 6.02 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 15 | 6.02 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 15 | 6.02 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 17 | 6.02 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 10 | 6.02 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 10 | 6.02 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 9 | 6.02 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 6 | 6.02 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 17 | 6.02 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 17 | 6.02 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 17 | 6.02 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 2 | 6.02 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 2 | 6.02 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 2 | 6.02 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 5 | 6.02 |
| (1,7813) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 7 | 6.02 |
| (1,7813) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 7 | 6.02 |
| (1,7813) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 7 | 6.02 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 14 | 6.02 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 4 | 6.02 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 4 | 6.02 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 4 | 6.02 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 2 | 6.02 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 2 | 6.02 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 12 | 6.02 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 12 | 6.02 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 12 | 6.02 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 11 | 6.02 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 15 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 12 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 12 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 12 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 12 | 6.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 12 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 12 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 16 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 16 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 16 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 16 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 16 | 6.02 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 16 | 6.02 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 18 | 6.02 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 18 | 6.02 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 18 | 6.02 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 18 | 6.02 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 18 | 6.02 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 18 | 6.02 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 6 | 6.02 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 6 | 6.02 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 20 | 6.02 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 20 | 6.02 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 5 | 6.02 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 5 | 6.02 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 5 | 6.02 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 5 | 6.02 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 5 | 6.02 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 5 | 6.02 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 19 | 6.02 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 9 | 6.02 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 5 | 6.02 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 14 | 6.02 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 14 | 6.02 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 14 | 6.02 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 4 | 6.02 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 11 | 6.02 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 11 | 6.02 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 14 | 6.02 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 14 | 6.02 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 20 | 6.02 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 9 | 6.02 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 9 | 6.02 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 9 | 6.02 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 9 | 6.02 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 9 | 6.02 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 9 | 6.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 7 | 6.02 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 7 | 6.02 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 7 | 6.02 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 7 | 6.02 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 7 | 6.02 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 5 | 6.02 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 16 | 6.02 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 16 | 6.02 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 16 | 6.02 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 20 | 6.02 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 20 | 6.02 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 18 | 6.02 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 4 | 6.02 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 4 | 6.02 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 4 | 6.02 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 2 | 6.02 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 2 | 6.02 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 2 | 6.02 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 13 | 6.02 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 13 | 6.02 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 13 | 6.02 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 13 | 6.02 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 13 | 6.02 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 13 | 6.02 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 12 | 6.02 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 12 | 6.02 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 1 | 6.02 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 1 | 6.02 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 1 | 6.02 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 1 | 6.02 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 1 | 6.02 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 4 | 6.02 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 4 | 6.02 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 19 | 6.02 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 4 | 6.02 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 11 | 6.02 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 11 | 6.02 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 4 | 6.02 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 7 | 6.02 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 7 | 6.02 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 7 | 6.02 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 15 | 6.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 8 | 6.02 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 20 | 6.02 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 20 | 6.02 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 16 | 6.02 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 16 | 6.02 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 16 | 6.02 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 1 | 6.02 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 1 | 6.02 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 1 | 6.02 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 5 | 6.02 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 5 | 6.02 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 5 | 6.02 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 5 | 6.02 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 5 | 6.02 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 5 | 6.02 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 11 | 6.02 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 19 | 6.02 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 6 | 6.02 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 6 | 6.02 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 9 | 6.02 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 5 | 6.02 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 16 | 6.02 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 16 | 6.02 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 16 | 6.02 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 1 | 6.02 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 1 | 6.02 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 1 | 6.02 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 14 | 6.02 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 14 | 6.02 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 14 | 6.02 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 4 | 6.02 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 10 | 6.02 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 10 | 6.02 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 10 | 6.02 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 11 | 6.02 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 11 | 6.02 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 14 | 6.02 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 14 | 6.02 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 9 | 6.02 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 20 | 6.02 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 9 | 6.02 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 9 | 6.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 9 | 6.02 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 9 | 6.02 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 9 | 6.02 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 9 | 6.02 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 7 | 6.02 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 7 | 6.02 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 10 | 6.02 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 2 | 6.02 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 2 | 6.02 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 2 | 6.02 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 3 | 6.01 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 5 | 6.01 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 11 | 6.01 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 11 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 9 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 9 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 9 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 9 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 9 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 9 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 14 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 14 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 14 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 14 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 14 | 6.01 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 14 | 6.01 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 8 | 6.01 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 8 | 6.01 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 8 | 6.01 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 8 | 6.01 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 8 | 6.01 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 8 | 6.01 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 2 | 6.01 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 2 | 6.01 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 20 | 6.01 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 20 | 6.01 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 1 | 6.01 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 1 | 6.01 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 6 | 6.01 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 6 | 6.01 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 17 | 6.01 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 17 | 6.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 7 | 6.01 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 7 | 6.01 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 18 | 6.01 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 18 | 6.01 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 8 | 6.01 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 8 | 6.01 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 17 | 6.01 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 17 | 6.01 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 17 | 6.01 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 17 | 6.01 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 6 | 6.01 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 6 | 6.01 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 5 | 6.01 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 5 | 6.01 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 17 | 6.01 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 17 | 6.01 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 14 | 6.01 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 14 | 6.01 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 15 | 6.01 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 15 | 6.01 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 15 | 6.01 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 15 | 6.01 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 15 | 6.01 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 15 | 6.01 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 1 | 6.01 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 1 | 6.01 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 6 | 6.01 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 6 | 6.01 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 6 | 6.01 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 6 | 6.01 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 14 | 6.01 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 14 | 6.01 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 13 | 6.01 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 13 | 6.01 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 16 | 6.01 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 16 | 6.01 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 1 | 6.01 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 1 | 6.01 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 1 | 6.01 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 5 | 6.01 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 5 | 6.01 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 5 | 6.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 15 | 6.01 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 15 | 6.01 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 15 | 6.01 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 11 | 6.01 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 2 | 6.01 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 2 | 6.01 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 2 | 6.01 |
| (1,8209) | 1:107:A:ALA:HB1 | 1:116:A:ALA:H | 2 | 6.01 |
| (1,8209) | 1:107:A:ALA:HB2 | 1:116:A:ALA:H | 2 | 6.01 |
| (1,8209) | 1:107:A:ALA:HB3 | 1:116:A:ALA:H | 2 | 6.01 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 14 | 6.01 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 14 | 6.01 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 14 | 6.01 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 8 | 6.01 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 10 | 6.01 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 2 | 6.01 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 1 | 6.01 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 1 | 6.01 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 1 | 6.01 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 1 | 6.01 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 8 | 6.01 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 8 | 6.01 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 13 | 6.01 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 13 | 6.01 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 13 | 6.01 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 10 | 6.01 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 6 | 6.01 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 8 | 6.01 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 8 | 6.01 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 8 | 6.01 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 8 | 6.01 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 12 | 6.01 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 12 | 6.01 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 12 | 6.01 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 17 | 6.01 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 9 | 6.01 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 9 | 6.01 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 16 | 6.01 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 10 | 6.01 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 10 | 6.01 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 17 | 6.01 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 9 | 6.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 14 | 6.01 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 14 | 6.01 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 14 | 6.01 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 14 | 6.01 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 14 | 6.01 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 14 | 6.01 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 10 | 6.01 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 10 | 6.01 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 10 | 6.01 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 6 | 6.01 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 17 | 6.01 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 17 | 6.01 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 17 | 6.01 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 12 | 6.01 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 4 | 6.01 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 14 | 6.01 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 17 | 6.01 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 17 | 6.01 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 17 | 6.01 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 17 | 6.01 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 17 | 6.01 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 17 | 6.01 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 2 | 6.01 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 2 | 6.01 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 2 | 6.01 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 4 | 6.01 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 4 | 6.01 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 4 | 6.01 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 4 | 6.01 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 4 | 6.01 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 4 | 6.01 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 6 | 6.01 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 5 | 6.01 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 5 | 6.01 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 5 | 6.01 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 4 | 6.01 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 4 | 6.01 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 4 | 6.01 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 2 | 6.01 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 2 | 6.01 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 2 | 6.01 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 5 | 6.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 5 | 6.01 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 5 | 6.01 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 7 | 6.01 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 9 | 6.01 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 12 | 6.01 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 12 | 6.01 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 12 | 6.01 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 9 | 6.01 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 9 | 6.01 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 9 | 6.01 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 6 | 6.01 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 6 | 6.01 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 6 | 6.01 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 7 | 6.01 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 12 | 6.01 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 19 | 6.01 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 19 | 6.01 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 19 | 6.01 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 19 | 6.01 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 19 | 6.01 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 19 | 6.01 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 19 | 6.01 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 19 | 6.01 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 19 | 6.01 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 10 | 6.01 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 10 | 6.01 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 10 | 6.01 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 11 | 6.01 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 13 | 6.01 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 13 | 6.01 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 13 | 6.01 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 15 | 6.01 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 15 | 6.01 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 15 | 6.01 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 7 | 6.01 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 18 | 6.01 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 7 | 6.01 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 7 | 6.01 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 10 | 6.01 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 18 | 6.01 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 18 | 6.01 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 2 | 6.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 16 | 6.01 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 17 | 6.01 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 17 | 6.01 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 6 | 6.01 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 6 | 6.01 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 19 | 6.01 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 19 | 6.01 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 9 | 6.01 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 1 | 6.01 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 1 | 6.01 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 1 | 6.01 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 15 | 6.01 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 17 | 6.01 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 17 | 6.01 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 17 | 6.01 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 1 | 6.01 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 4 | 6.01 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 13 | 6.01 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 14 | 6.01 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 14 | 6.01 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 3 | 6.01 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 17 | 6.01 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 17 | 6.01 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 17 | 6.01 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 14 | 6.01 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 14 | 6.01 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 12 | 6.01 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 10 | 6.01 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 4 | 6.01 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 14 | 6.01 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 17 | 6.01 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 17 | 6.01 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 17 | 6.01 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 17 | 6.01 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 17 | 6.01 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 17 | 6.01 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 12 | 6.01 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 2 | 6.01 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 2 | 6.01 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 2 | 6.01 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 6 | 6.01 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 18 | 6.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 5 | 6.01 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 5 | 6.01 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 5 | 6.01 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 4 | 6.01 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 4 | 6.01 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 4 | 6.01 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 2 | 6.01 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 2 | 6.01 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 2 | 6.01 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 5 | 6.01 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 5 | 6.01 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 5 | 6.01 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 5 | 6.01 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 5 | 6.01 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 5 | 6.01 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 7 | 6.01 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 9 | 6.01 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 12 | 6.01 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 12 | 6.01 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 12 | 6.01 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 9 | 6.01 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 9 | 6.01 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 9 | 6.01 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 5 | 6.01 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 5 | 6.01 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 1 | 6.01 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 1 | 6.01 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 1 | 6.01 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 4 | 6.01 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 13 | 6.01 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 13 | 6.01 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 13 | 6.01 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 6 | 6.0 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 12 | 6.0 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 19 | 6.0 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 19 | 6.0 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 19 | 6.0 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 19 | 6.0 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 16 | 6.0 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 16 | 6.0 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 18 | 6.0 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 18 | 6.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 16 | 6.0 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 16 | 6.0 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 2 | 6.0 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 2 | 6.0 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 8 | 6.0 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 8 | 6.0 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 6 | 6.0 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 6 | 6.0 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 5 | 6.0 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 5 | 6.0 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 9 | 6.0 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 9 | 6.0 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 5 | 6.0 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 5 | 6.0 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 2 | 6.0 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 2 | 6.0 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 2 | 6.0 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 2 | 6.0 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 2 | 6.0 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 2 | 6.0 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 3 | 6.0 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 3 | 6.0 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE21 | 17 | 6.0 |
| (1,8882) | 1:64:A:HIS:H | 1:66:A:GLN:HE22 | 17 | 6.0 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 11 | 6.0 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 11 | 6.0 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 1 | 6.0 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 1 | 6.0 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 3 | 6.0 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 3 | 6.0 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 3 | 6.0 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 3 | 6.0 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 17 | 6.0 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 17 | 6.0 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 17 | 6.0 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 17 | 6.0 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 17 | 6.0 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 17 | 6.0 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 18 | 6.0 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 18 | 6.0 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 18 | 6.0 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 18 | 6.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 6 | 6.0 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 12 | 6.0 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 19 | 6.0 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 19 | 6.0 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 19 | 6.0 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 13 | 6.0 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 13 | 6.0 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 11 | 6.0 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 11 | 6.0 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 11 | 6.0 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 19 | 6.0 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 12 | 6.0 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 13 | 6.0 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 13 | 6.0 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 4 | 6.0 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 1 | 6.0 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 1 | 6.0 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 1 | 6.0 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 9 | 6.0 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 9 | 6.0 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 9 | 6.0 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 14 | 6.0 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 8 | 6.0 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 8 | 6.0 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 8 | 6.0 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 13 | 6.0 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 9 | 6.0 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 9 | 6.0 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 9 | 6.0 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 11 | 6.0 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 17 | 6.0 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 5 | 6.0 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 5 | 6.0 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 9 | 6.0 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 9 | 6.0 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 1 | 6.0 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 1 | 6.0 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 1 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 16 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 16 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 16 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 16 | 6.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 16 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 16 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 17 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 17 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 17 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 17 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 17 | 6.0 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 17 | 6.0 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 6 | 6.0 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 20 | 6.0 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 20 | 6.0 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 20 | 6.0 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 13 | 6.0 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 13 | 6.0 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 13 | 6.0 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 15 | 6.0 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 15 | 6.0 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 15 | 6.0 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 16 | 6.0 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 10 | 6.0 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 10 | 6.0 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 9 | 6.0 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 7 | 6.0 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 7 | 6.0 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 8 | 6.0 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 8 | 6.0 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 7 | 6.0 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 1 | 6.0 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 6 | 6.0 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 6 | 6.0 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 6 | 6.0 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 6 | 6.0 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 6 | 6.0 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 6 | 6.0 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 10 | 6.0 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 13 | 6.0 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 20 | 6.0 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 20 | 6.0 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 11 | 6.0 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 11 | 6.0 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 14 | 6.0 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 14 | 6.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 14 | 6.0 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 14 | 6.0 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 14 | 6.0 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 14 | 6.0 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 15 | 6.0 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 15 | 6.0 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 15 | 6.0 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 11 | 6.0 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 11 | 6.0 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 11 | 6.0 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 17 | 6.0 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 18 | 6.0 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 18 | 6.0 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 18 | 6.0 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 16 | 6.0 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 16 | 6.0 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 18 | 6.0 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 18 | 6.0 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 9 | 6.0 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 9 | 6.0 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 10 | 6.0 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 17 | 6.0 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 18 | 6.0 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 17 | 6.0 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 17 | 6.0 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 17 | 6.0 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 9 | 6.0 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 9 | 6.0 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 7 | 6.0 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 7 | 6.0 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 12 | 6.0 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 12 | 6.0 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 12 | 6.0 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 3 | 6.0 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 3 | 6.0 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 11 | 6.0 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 11 | 6.0 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 11 | 6.0 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 11 | 6.0 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 11 | 6.0 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 17 | 6.0 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 17 | 6.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 17 | 6.0 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 17 | 6.0 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 17 | 6.0 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 17 | 6.0 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 11 | 6.0 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 16 | 6.0 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 10 | 6.0 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 10 | 6.0 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 6.0 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 9 | 6.0 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 4 | 6.0 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 7 | 6.0 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 7 | 6.0 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 8 | 6.0 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 8 | 6.0 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 6.0 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 7 | 6.0 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 1 | 6.0 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 6 | 6.0 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 6 | 6.0 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 6 | 6.0 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 6 | 6.0 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 6 | 6.0 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 6 | 6.0 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 10 | 6.0 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 13 | 6.0 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 9 | 6.0 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 9 | 6.0 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 9 | 6.0 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 15 | 6.0 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 20 | 6.0 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 20 | 6.0 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 11 | 6.0 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 11 | 6.0 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 14 | 6.0 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 14 | 6.0 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 14 | 6.0 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 14 | 6.0 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 14 | 6.0 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 14 | 6.0 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 10 | 6.0 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 10 | 6.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 10 | 6.0 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 3 | 6.0 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 3 | 6.0 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 3 | 6.0 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 8 | 6.0 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 8 | 6.0 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 8 | 6.0 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 18 | 6.0 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 15 | 6.0 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 2 | 6.0 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 2 | 6.0 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 2 | 6.0 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 6.0 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 6.0 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 6.0 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 1 | 5.99 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 18 | 5.99 |
| (4,183) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 1 | 5.99 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 5 | 5.99 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 17 | 5.99 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 14 | 5.99 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 14 | 5.99 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 14 | 5.99 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 14 | 5.99 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 20 | 5.99 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 20 | 5.99 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 7 | 5.99 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 7 | 5.99 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 7 | 5.99 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 7 | 5.99 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 7 | 5.99 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 7 | 5.99 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 12 | 5.99 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 12 | 5.99 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 9 | 5.99 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 9 | 5.99 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 9 | 5.99 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 9 | 5.99 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 9 | 5.99 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 9 | 5.99 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 4 | 5.99 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 4 | 5.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 14 | 5.99 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 14 | 5.99 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 8 | 5.99 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 8 | 5.99 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 17 | 5.99 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 17 | 5.99 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 1 | 5.99 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 1 | 5.99 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 19 | 5.99 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 19 | 5.99 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 19 | 5.99 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 19 | 5.99 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 19 | 5.99 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 19 | 5.99 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 13 | 5.99 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 13 | 5.99 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 14 | 5.99 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 14 | 5.99 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 18 | 5.99 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 18 | 5.99 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 3 | 5.99 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 3 | 5.99 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 3 | 5.99 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 3 | 5.99 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 3 | 5.99 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 3 | 5.99 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 6 | 5.99 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 6 | 5.99 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 19 | 5.99 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 19 | 5.99 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 5 | 5.99 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 5 | 5.99 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 5 | 5.99 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 20 | 5.99 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 20 | 5.99 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 20 | 5.99 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 20 | 5.99 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 20 | 5.99 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 20 | 5.99 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 20 | 5.99 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 20 | 5.99 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 20 | 5.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 5 | 5.99 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 5 | 5.99 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 9 | 5.99 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 9 | 5.99 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 9 | 5.99 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 8 | 5.99 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 8 | 5.99 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 8 | 5.99 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 13 | 5.99 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 13 | 5.99 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 13 | 5.99 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 10 | 5.99 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 10 | 5.99 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 10 | 5.99 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 1 | 5.99 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 13 | 5.99 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 15 | 5.99 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 15 | 5.99 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 14 | 5.99 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 19 | 5.99 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 19 | 5.99 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 19 | 5.99 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 19 | 5.99 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 19 | 5.99 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 10 | 5.99 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 10 | 5.99 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 11 | 5.99 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 11 | 5.99 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 11 | 5.99 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 4 | 5.99 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 4 | 5.99 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 4 | 5.99 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 5 | 5.99 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 17 | 5.99 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 6 | 5.99 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 6 | 5.99 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 13 | 5.99 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 13 | 5.99 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 14 | 5.99 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 19 | 5.99 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 20 | 5.99 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 20 | 5.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 20 | 5.99 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 19 | 5.99 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 19 | 5.99 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 19 | 5.99 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 11 | 5.99 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 11 | 5.99 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 20 | 5.99 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 7 | 5.99 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 13 | 5.99 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 10 | 5.99 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 6 | 5.99 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 6 | 5.99 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 6 | 5.99 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 6 | 5.99 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 13 | 5.99 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 13 | 5.99 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 6 | 5.99 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 11 | 5.99 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 20 | 5.99 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 20 | 5.99 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 20 | 5.99 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 7 | 5.99 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 7 | 5.99 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 7 | 5.99 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 1 | 5.99 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 1 | 5.99 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 1 | 5.99 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 8 | 5.99 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 8 | 5.99 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 8 | 5.99 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 8 | 5.99 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 8 | 5.99 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 8 | 5.99 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 11 | 5.99 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 11 | 5.99 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 11 | 5.99 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 20 | 5.99 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 20 | 5.99 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 20 | 5.99 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 5 | 5.99 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 5 | 5.99 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 5 | 5.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 5 | 5.99 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 5 | 5.99 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 5 | 5.99 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 10 | 5.99 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 4 | 5.99 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 4 | 5.99 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 4 | 5.99 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 10 | 5.99 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 10 | 5.99 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 10 | 5.99 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 20 | 5.99 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 20 | 5.99 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 20 | 5.99 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 5 | 5.99 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 5 | 5.99 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 5 | 5.99 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 5 | 5.99 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 5 | 5.99 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 5 | 5.99 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 4 | 5.99 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 4 | 5.99 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 4 | 5.99 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 4 | 5.99 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 4 | 5.99 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 4 | 5.99 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 18 | 5.99 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 18 | 5.99 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 18 | 5.99 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 18 | 5.99 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 18 | 5.99 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 18 | 5.99 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 18 | 5.99 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 18 | 5.99 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 18 | 5.99 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 20 | 5.99 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 14 | 5.99 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 14 | 5.99 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 14 | 5.99 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 6 | 5.99 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 11 | 5.99 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 11 | 5.99 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 11 | 5.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 5 | 5.99 |
| (1,4582) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 19 | 5.99 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 14 | 5.99 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 14 | 5.99 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 14 | 5.99 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 18 | 5.99 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 9 | 5.99 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 9 | 5.99 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 9 | 5.99 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 4 | 5.99 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 4 | 5.99 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 14 | 5.99 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 14 | 5.99 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 14 | 5.99 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 14 | 5.99 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 14 | 5.99 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 14 | 5.99 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 17 | 5.99 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 17 | 5.99 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 17 | 5.99 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 17 | 5.99 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 17 | 5.99 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 16 | 5.99 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 16 | 5.99 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 19 | 5.99 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 19 | 5.99 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 19 | 5.99 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 19 | 5.99 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 19 | 5.99 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 19 | 5.99 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 13 | 5.99 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 5 | 5.99 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 4 | 5.99 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 18 | 5.99 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 18 | 5.99 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 3 | 5.99 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 3 | 5.99 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 3 | 5.99 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 3 | 5.99 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 3 | 5.99 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 3 | 5.99 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 6 | 5.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 6 | 5.99 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 6 | 5.99 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 15 | 5.99 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 15 | 5.99 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 15 | 5.99 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 6 | 5.99 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 13 | 5.99 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 13 | 5.99 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 6 | 5.99 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 11 | 5.99 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 20 | 5.99 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 20 | 5.99 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 20 | 5.99 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 7 | 5.99 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 7 | 5.99 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 7 | 5.99 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 1 | 5.99 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 1 | 5.99 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 1 | 5.99 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 6 | 5.99 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 17 | 5.99 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 8 | 5.99 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 8 | 5.99 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 8 | 5.99 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 8 | 5.99 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 8 | 5.99 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 8 | 5.99 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 11 | 5.99 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 11 | 5.99 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 11 | 5.99 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 9 | 5.99 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 9 | 5.99 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 9 | 5.99 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 3 | 5.99 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 3 | 5.99 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 3 | 5.99 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 20 | 5.99 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 20 | 5.99 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 20 | 5.99 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 5 | 5.99 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 5 | 5.99 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 5 | 5.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 5 | 5.99 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 5 | 5.99 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 5 | 5.99 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 16 | 5.99 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 16 | 5.99 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 16 | 5.99 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 16 | 5.99 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 10 | 5.99 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 18 | 5.99 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 18 | 5.99 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 18 | 5.99 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 4 | 5.99 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 4 | 5.99 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 4 | 5.99 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 10 | 5.99 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 10 | 5.99 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 10 | 5.99 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 20 | 5.99 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 20 | 5.99 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 20 | 5.99 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 5 | 5.99 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 5 | 5.99 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 5 | 5.99 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 5 | 5.99 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 5 | 5.99 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 5 | 5.99 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 4 | 5.99 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 4 | 5.99 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 4 | 5.99 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 4 | 5.99 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 4 | 5.99 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 4 | 5.99 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 4 | 5.98 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 12 | 5.98 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 12 | 5.98 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 4 | 5.98 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 5 | 5.98 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 10 | 5.98 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 10 | 5.98 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 4 | 5.98 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 4 | 5.98 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 4 | 5.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 4 | 5.98 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 11 | 5.98 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 11 | 5.98 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 14 | 5.98 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 14 | 5.98 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 6 | 5.98 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 6 | 5.98 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 14 | 5.98 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 14 | 5.98 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 6 | 5.98 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 6 | 5.98 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 11 | 5.98 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 11 | 5.98 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 3 | 5.98 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 3 | 5.98 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 1 | 5.98 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 1 | 5.98 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 2 | 5.98 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 2 | 5.98 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 5 | 5.98 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 5 | 5.98 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 5 | 5.98 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 5 | 5.98 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 15 | 5.98 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 15 | 5.98 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 4 | 5.98 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 4 | 5.98 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 4 | 5.98 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 12 | 5.98 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 12 | 5.98 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 12 | 5.98 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 10 | 5.98 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 10 | 5.98 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 10 | 5.98 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 14 | 5.98 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 14 | 5.98 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 14 | 5.98 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 6 | 5.98 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 6 | 5.98 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 6 | 5.98 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 13 | 5.98 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 12 | 5.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 14 | 5.98 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 14 | 5.98 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 14 | 5.98 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 17 | 5.98 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 8 | 5.98 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 15 | 5.98 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 1 | 5.98 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 1 | 5.98 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 14 | 5.98 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 14 | 5.98 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 4 | 5.98 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 4 | 5.98 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 4 | 5.98 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 2 | 5.98 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 16 | 5.98 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 18 | 5.98 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 5 | 5.98 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 5 | 5.98 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 8 | 5.98 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 8 | 5.98 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 8 | 5.98 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 6 | 5.98 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 6 | 5.98 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 6 | 5.98 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 12 | 5.98 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 12 | 5.98 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 12 | 5.98 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 7 | 5.98 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 13 | 5.98 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 13 | 5.98 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 5 | 5.98 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 18 | 5.98 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 13 | 5.98 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 6 | 5.98 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 8 | 5.98 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 2 | 5.98 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 10 | 5.98 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 15 | 5.98 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 15 | 5.98 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 15 | 5.98 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 19 | 5.98 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 19 | 5.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 12 | 5.98 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 12 | 5.98 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 12 | 5.98 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 16 | 5.98 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 19 | 5.98 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 19 | 5.98 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 19 | 5.98 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 7 | 5.98 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 7 | 5.98 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 15 | 5.98 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 15 | 5.98 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 15 | 5.98 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 20 | 5.98 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 13 | 5.98 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 13 | 5.98 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 13 | 5.98 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 13 | 5.98 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 13 | 5.98 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 13 | 5.98 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 8 | 5.98 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 6 | 5.98 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 6 | 5.98 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 6 | 5.98 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 3 | 5.98 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 17 | 5.98 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 17 | 5.98 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 3 | 5.98 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 16 | 5.98 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 15 | 5.98 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 11 | 5.98 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 3 | 5.98 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 16 | 5.98 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 15 | 5.98 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 15 | 5.98 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 15 | 5.98 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 10 | 5.98 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 18 | 5.98 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 18 | 5.98 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 18 | 5.98 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 18 | 5.98 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 18 | 5.98 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 18 | 5.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 5 | 5.98 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 5 | 5.98 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 5 | 5.98 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 4 | 5.98 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 4 | 5.98 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 4 | 5.98 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 10 | 5.98 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 10 | 5.98 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 19 | 5.98 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 19 | 5.98 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 4 | 5.98 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 4 | 5.98 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 4 | 5.98 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 4 | 5.98 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 16 | 5.98 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 11 | 5.98 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 10 | 5.98 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 12 | 5.98 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 12 | 5.98 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 12 | 5.98 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 5 | 5.98 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 14 | 5.98 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 14 | 5.98 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 3 | 5.98 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 3 | 5.98 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 7 | 5.98 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 6 | 5.98 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 6 | 5.98 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 17 | 5.98 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 12 | 5.98 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 16 | 5.98 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 5.98 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 15 | 5.98 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 11 | 5.98 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 11 | 5.98 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 11 | 5.98 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 15 | 5.98 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 15 | 5.98 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 15 | 5.98 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 20 | 5.98 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 13 | 5.98 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 13 | 5.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 13 | 5.98 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 13 | 5.98 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 13 | 5.98 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 13 | 5.98 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 8 | 5.98 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 6 | 5.98 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 6 | 5.98 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 6 | 5.98 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 3 | 5.98 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 17 | 5.98 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 17 | 5.98 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 3 | 5.98 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 16 | 5.98 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 15 | 5.98 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 5 | 5.98 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 11 | 5.98 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 12 | 5.98 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 3 | 5.98 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 11 | 5.98 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 11 | 5.98 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 11 | 5.98 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 12 | 5.98 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 16 | 5.98 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 12 | 5.98 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 12 | 5.98 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 12 | 5.98 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 1 | 5.98 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 18 | 5.98 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 18 | 5.98 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 18 | 5.98 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 17 | 5.98 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 13 | 5.98 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 17 | 5.98 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 1 | 5.97 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 1 | 5.97 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 1 | 5.97 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 1 | 5.97 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 1 | 5.97 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 1 | 5.97 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 9 | 5.97 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 9 | 5.97 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 9 | 5.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 9 | 5.97 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 9 | 5.97 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 9 | 5.97 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 4 | 5.97 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 4 | 5.97 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 17 | 5.97 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 17 | 5.97 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 11 | 5.97 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 11 | 5.97 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 15 | 5.97 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 15 | 5.97 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 15 | 5.97 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 15 | 5.97 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 15 | 5.97 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 15 | 5.97 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 14 | 5.97 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 14 | 5.97 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 12 | 5.97 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 12 | 5.97 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 12 | 5.97 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 12 | 5.97 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 12 | 5.97 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 12 | 5.97 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 14 | 5.97 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 14 | 5.97 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 2 | 5.97 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 2 | 5.97 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 2 | 5.97 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 2 | 5.97 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 11 | 5.97 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 11 | 5.97 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 3 | 5.97 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 3 | 5.97 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 16 | 5.97 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 16 | 5.97 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 9 | 5.97 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 9 | 5.97 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 9 | 5.97 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 9 | 5.97 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 9 | 5.97 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 9 | 5.97 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 2 | 5.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 2 | 5.97 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 2 | 5.97 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 9 | 5.97 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 7 | 5.97 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 7 | 5.97 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 14 | 5.97 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 14 | 5.97 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 19 | 5.97 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 3 | 5.97 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 8 | 5.97 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 8 | 5.97 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 8 | 5.97 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 17 | 5.97 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 17 | 5.97 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 17 | 5.97 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 13 | 5.97 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 13 | 5.97 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 13 | 5.97 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 3 | 5.97 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 19 | 5.97 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 19 | 5.97 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 19 | 5.97 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 15 | 5.97 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 15 | 5.97 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 15 | 5.97 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 17 | 5.97 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 17 | 5.97 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 17 | 5.97 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 20 | 5.97 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 20 | 5.97 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 20 | 5.97 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 6 | 5.97 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 6 | 5.97 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 6 | 5.97 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 10 | 5.97 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 10 | 5.97 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 10 | 5.97 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 10 | 5.97 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 10 | 5.97 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 10 | 5.97 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 10 | 5.97 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 10 | 5.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 10 | 5.97 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 17 | 5.97 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 17 | 5.97 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 7 | 5.97 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 7 | 5.97 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 7 | 5.97 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 9 | 5.97 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 9 | 5.97 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 9 | 5.97 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 11 | 5.97 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 11 | 5.97 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 11 | 5.97 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 14 | 5.97 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 14 | 5.97 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 14 | 5.97 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 5 | 5.97 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 19 | 5.97 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 19 | 5.97 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 19 | 5.97 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 20 | 5.97 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 18 | 5.97 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 18 | 5.97 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 18 | 5.97 |
| (1,7793) | 1:59:A:HIS:H | 1:120:A:GLY:H | 16 | 5.97 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 3 | 5.97 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 3 | 5.97 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 3 | 5.97 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 2 | 5.97 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 2 | 5.97 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 2 | 5.97 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 2 | 5.97 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 2 | 5.97 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 2 | 5.97 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 14 | 5.97 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 14 | 5.97 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 14 | 5.97 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 11 | 5.97 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 11 | 5.97 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 10 | 5.97 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 10 | 5.97 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 11 | 5.97 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 11 | 5.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 19 | 5.97 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 9 | 5.97 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 9 | 5.97 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 9 | 5.97 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 9 | 5.97 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 9 | 5.97 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 2 | 5.97 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 2 | 5.97 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 2 | 5.97 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 8 | 5.97 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 8 | 5.97 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 8 | 5.97 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 17 | 5.97 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 17 | 5.97 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 4 | 5.97 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 4 | 5.97 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 4 | 5.97 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 15 | 5.97 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 17 | 5.97 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 10 | 5.97 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 19 | 5.97 |
| (1,6733) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 20 | 5.97 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 14 | 5.97 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 3 | 5.97 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 9 | 5.97 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 12 | 5.97 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 12 | 5.97 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 12 | 5.97 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 11 | 5.97 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 11 | 5.97 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 6 | 5.97 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 6 | 5.97 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 6 | 5.97 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 2 | 5.97 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 2 | 5.97 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 2 | 5.97 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 8 | 5.97 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 8 | 5.97 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 8 | 5.97 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 9 | 5.97 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 9 | 5.97 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 9 | 5.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 1 | 5.97 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 1 | 5.97 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 1 | 5.97 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 4 | 5.97 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 4 | 5.97 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 4 | 5.97 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 10 | 5.97 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 10 | 5.97 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 10 | 5.97 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 18 | 5.97 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 18 | 5.97 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 18 | 5.97 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 10 | 5.97 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 10 | 5.97 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 10 | 5.97 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 2 | 5.97 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 1 | 5.97 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 1 | 5.97 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 1 | 5.97 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 1 | 5.97 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 1 | 5.97 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 1 | 5.97 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 1 | 5.97 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 17 | 5.97 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 17 | 5.97 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 14 | 5.97 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 14 | 5.97 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 14 | 5.97 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 14 | 5.97 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 16 | 5.97 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 7 | 5.97 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 6 | 5.97 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 6 | 5.97 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 6 | 5.97 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 14 | 5.97 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 14 | 5.97 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 5.97 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 5.97 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 5.97 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 16 | 5.97 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 5.97 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 14 | 5.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 14 | 5.97 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 7 | 5.97 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 2 | 5.97 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 4 | 5.97 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 4 | 5.97 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 4 | 5.97 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 15 | 5.97 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 1 | 5.97 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 1 | 5.97 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 17 | 5.97 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 10 | 5.97 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 13 | 5.97 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 19 | 5.97 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 14 | 5.97 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 14 | 5.97 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 2 | 5.97 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 2 | 5.97 |
| (1,2668) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 20 | 5.97 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 19 | 5.97 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 3 | 5.97 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 19 | 5.97 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 5.97 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 5.97 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 5.97 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 5.97 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 9 | 5.97 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 12 | 5.97 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 12 | 5.97 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 12 | 5.97 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 11 | 5.97 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 11 | 5.97 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 6 | 5.97 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 6 | 5.97 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 6 | 5.97 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 7 | 5.97 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 13 | 5.97 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 6 | 5.97 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 6 | 5.97 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 6 | 5.97 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 19 | 5.97 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 19 | 5.97 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 19 | 5.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 5.97 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 18 | 5.97 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 18 | 5.97 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 18 | 5.97 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 2 | 5.97 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 2 | 5.97 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 2 | 5.97 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 8 | 5.97 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 8 | 5.97 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 8 | 5.97 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 12 | 5.97 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 16 | 5.97 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 16 | 5.97 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 16 | 5.97 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 12 | 5.96 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 5 | 5.96 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 4 | 5.96 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 14 | 5.96 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 14 | 5.96 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 5 | 5.96 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 5 | 5.96 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 5 | 5.96 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 5 | 5.96 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 2 | 5.96 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 2 | 5.96 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 2 | 5.96 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 2 | 5.96 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 2 | 5.96 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 2 | 5.96 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 18 | 5.96 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 18 | 5.96 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 18 | 5.96 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 18 | 5.96 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 18 | 5.96 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 18 | 5.96 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 17 | 5.96 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 17 | 5.96 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 17 | 5.96 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 17 | 5.96 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 17 | 5.96 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 17 | 5.96 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 17 | 5.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 17 | 5.96 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 17 | 5.96 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 17 | 5.96 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 17 | 5.96 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 17 | 5.96 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 17 | 5.96 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 17 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 3 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 3 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 3 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 3 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 3 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 3 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 16 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 16 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 16 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 16 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 16 | 5.96 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 16 | 5.96 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 3 | 5.96 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 3 | 5.96 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 3 | 5.96 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 3 | 5.96 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 3 | 5.96 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 3 | 5.96 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 3 | 5.96 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 3 | 5.96 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 14 | 5.96 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 14 | 5.96 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 3 | 5.96 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 3 | 5.96 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 20 | 5.96 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 20 | 5.96 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 20 | 5.96 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 20 | 5.96 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 20 | 5.96 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 20 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 10 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 10 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 10 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 10 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 10 | 5.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 10 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 16 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 16 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 16 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 16 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 16 | 5.96 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 16 | 5.96 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 9 | 5.96 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 9 | 5.96 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 16 | 5.96 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 16 | 5.96 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 4 | 5.96 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 4 | 5.96 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 5 | 5.96 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 5 | 5.96 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 11 | 5.96 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 11 | 5.96 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 11 | 5.96 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 11 | 5.96 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 11 | 5.96 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 11 | 5.96 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 11 | 5.96 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 11 | 5.96 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 11 | 5.96 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 11 | 5.96 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 11 | 5.96 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 11 | 5.96 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 11 | 5.96 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 11 | 5.96 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 11 | 5.96 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 9 | 5.96 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 9 | 5.96 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 9 | 5.96 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 12 | 5.96 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 16 | 5.96 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 16 | 5.96 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 14 | 5.96 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 14 | 5.96 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 14 | 5.96 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 5 | 5.96 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 5 | 5.96 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 5 | 5.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 7 | 5.96 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 7 | 5.96 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 7 | 5.96 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 7 | 5.96 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 7 | 5.96 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 7 | 5.96 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 18 | 5.96 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 12 | 5.96 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD21 | 7 | 5.96 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD22 | 7 | 5.96 |
| (1,8177) | 1:101:A:GLU:H | 1:106:A:LEU:HD23 | 7 | 5.96 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 5 | 5.96 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 4 | 5.96 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 4 | 5.96 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 17 | 5.96 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 17 | 5.96 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 17 | 5.96 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 8 | 5.96 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 1 | 5.96 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 1 | 5.96 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 1 | 5.96 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 2 | 5.96 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 5 | 5.96 |
| (1,8026) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 18 | 5.96 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 3 | 5.96 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 16 | 5.96 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 4 | 5.96 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 4 | 5.96 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 4 | 5.96 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 11 | 5.96 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 17 | 5.96 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 17 | 5.96 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 2 | 5.96 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 17 | 5.96 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 1 | 5.96 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 1 | 5.96 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 1 | 5.96 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 3 | 5.96 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 3 | 5.96 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 3 | 5.96 |
| (1,7847) | 1:62:A:VAL:HG21 | 1:85:A:ALA:H | 17 | 5.96 |
| (1,7847) | 1:62:A:VAL:HG22 | 1:85:A:ALA:H | 17 | 5.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7847) | 1:62:A:VAL:HG23 | 1:85:A:ALA:H | 17 | 5.96 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 16 | 5.96 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 16 | 5.96 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 16 | 5.96 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 19 | 5.96 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 19 | 5.96 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 19 | 5.96 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 4 | 5.96 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 4 | 5.96 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 4 | 5.96 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 9 | 5.96 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 17 | 5.96 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 17 | 5.96 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 17 | 5.96 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 7 | 5.96 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 20 | 5.96 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 20 | 5.96 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 20 | 5.96 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 14 | 5.96 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 14 | 5.96 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 14 | 5.96 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 11 | 5.96 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 11 | 5.96 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 7 | 5.96 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 7 | 5.96 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 7 | 5.96 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 16 | 5.96 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 16 | 5.96 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 10 | 5.96 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 12 | 5.96 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 7 | 5.96 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 5 | 5.96 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 5 | 5.96 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 5 | 5.96 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 5 | 5.96 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 5 | 5.96 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 5 | 5.96 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 15 | 5.96 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 15 | 5.96 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 16 | 5.96 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 9 | 5.96 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 10 | 5.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 10 | 5.96 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 20 | 5.96 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 20 | 5.96 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 20 | 5.96 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 20 | 5.96 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 1 | 5.96 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 20 | 5.96 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 20 | 5.96 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 20 | 5.96 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 8 | 5.96 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 8 | 5.96 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 8 | 5.96 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 8 | 5.96 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 13 | 5.96 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 18 | 5.96 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 18 | 5.96 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 18 | 5.96 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 9 | 5.96 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 9 | 5.96 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 16 | 5.96 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 3 | 5.96 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 3 | 5.96 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 3 | 5.96 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 2 | 5.96 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 9 | 5.96 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 9 | 5.96 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 9 | 5.96 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 7 | 5.96 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 7 | 5.96 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 7 | 5.96 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 19 | 5.96 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 11 | 5.96 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 16 | 5.96 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 16 | 5.96 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 16 | 5.96 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 17 | 5.96 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 17 | 5.96 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 17 | 5.96 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 17 | 5.96 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 17 | 5.96 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 17 | 5.96 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 17 | 5.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 17 | 5.96 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 17 | 5.96 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 15 | 5.96 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 19 | 5.96 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 14 | 5.96 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 14 | 5.96 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 7 | 5.96 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 7 | 5.96 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 7 | 5.96 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 5 | 5.96 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 5 | 5.96 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 5 | 5.96 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 2 | 5.96 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 2 | 5.96 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 2 | 5.96 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 2 | 5.96 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 2 | 5.96 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 2 | 5.96 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 18 | 5.96 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 18 | 5.96 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 18 | 5.96 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 18 | 5.96 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 18 | 5.96 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 18 | 5.96 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 9 | 5.96 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 17 | 5.96 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 17 | 5.96 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 17 | 5.96 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 17 | 5.96 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 5.96 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 5.96 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 1 | 5.96 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 18 | 5.96 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 12 | 5.96 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 12 | 5.96 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 12 | 5.96 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 13 | 5.96 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 13 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 3 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 3 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 3 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 3 | 5.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 3 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 3 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 16 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 16 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 16 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 16 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 16 | 5.96 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 16 | 5.96 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 12 | 5.96 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 3 | 5.96 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 19 | 5.96 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 9 | 5.96 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 5 | 5.96 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 14 | 5.96 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 8 | 5.96 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 3 | 5.96 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 16 | 5.96 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 16 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 10 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 10 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 10 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 10 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 10 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 10 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 16 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 16 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 16 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 16 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 16 | 5.96 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 16 | 5.96 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 5.96 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 5.96 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 13 | 5.96 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 9 | 5.96 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 9 | 5.96 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 16 | 5.96 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 16 | 5.96 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 16 | 5.96 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 16 | 5.96 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 16 | 5.96 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 9 | 5.96 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 10 | 5.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 10 | 5.96 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 5.96 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 5.96 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 19 | 5.96 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 5.96 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 19 | 5.96 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 12 | 5.96 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 12 | 5.96 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 12 | 5.96 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 20 | 5.96 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 20 | 5.96 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 20 | 5.96 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 14 | 5.96 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 20 | 5.96 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 1 | 5.96 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 2 | 5.96 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 2 | 5.96 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 20 | 5.96 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 20 | 5.96 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 20 | 5.96 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 8 | 5.96 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 8 | 5.96 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 8 | 5.96 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 8 | 5.96 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 13 | 5.96 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 18 | 5.96 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 18 | 5.96 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 18 | 5.96 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 9 | 5.96 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 9 | 5.96 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 16 | 5.96 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 3 | 5.96 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 3 | 5.96 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 3 | 5.96 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 2 | 5.96 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 19 | 5.96 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 10 | 5.96 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 10 | 5.96 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 10 | 5.96 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 10 | 5.96 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 10 | 5.96 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 10 | 5.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 10 | 5.96 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 10 | 5.96 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 9 | 5.96 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 9 | 5.96 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 9 | 5.96 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 5 | 5.96 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 10 | 5.96 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 7 | 5.96 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 7 | 5.96 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 7 | 5.96 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 11 | 5.96 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 11 | 5.96 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 11 | 5.96 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 16 | 5.95 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 16 | 5.95 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 12 | 5.95 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 12 | 5.95 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 12 | 5.95 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 12 | 5.95 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 4 | 5.95 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 4 | 5.95 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 19 | 5.95 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 19 | 5.95 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 11 | 5.95 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 11 | 5.95 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 15 | 5.95 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 15 | 5.95 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 15 | 5.95 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 15 | 5.95 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 15 | 5.95 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 15 | 5.95 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 15 | 5.95 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 15 | 5.95 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 1 | 5.95 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 1 | 5.95 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 20 | 5.95 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 20 | 5.95 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 9 | 5.95 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 9 | 5.95 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 9 | 5.95 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 9 | 5.95 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 9 | 5.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 9 | 5.95 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 20 | 5.95 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 20 | 5.95 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 11 | 5.95 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 11 | 5.95 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 11 | 5.95 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 11 | 5.95 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 18 | 5.95 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 18 | 5.95 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 18 | 5.95 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 18 | 5.95 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 16 | 5.95 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 16 | 5.95 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 16 | 5.95 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 16 | 5.95 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 18 | 5.95 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 18 | 5.95 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 18 | 5.95 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 18 | 5.95 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 1 | 5.95 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 1 | 5.95 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 1 | 5.95 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 1 | 5.95 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 1 | 5.95 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 1 | 5.95 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 15 | 5.95 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 15 | 5.95 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 15 | 5.95 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 15 | 5.95 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 17 | 5.95 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 17 | 5.95 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 12 | 5.95 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 12 | 5.95 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 10 | 5.95 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 1 | 5.95 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 7 | 5.95 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 1 | 5.95 |
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 7 | 5.95 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 1 | 5.95 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 3 | 5.95 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 3 | 5.95 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 3 | 5.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 10 | 5.95 |
| (1,8197) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 11 | 5.95 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 4 | 5.95 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 4 | 5.95 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 4 | 5.95 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 11 | 5.95 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 8 | 5.95 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 8 | 5.95 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 10 | 5.95 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 10 | 5.95 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 10 | 5.95 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 13 | 5.95 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 13 | 5.95 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 5 | 5.95 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 5 | 5.95 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 5 | 5.95 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 5 | 5.95 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 18 | 5.95 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 2 | 5.95 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 5 | 5.95 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 13 | 5.95 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 14 | 5.95 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 14 | 5.95 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 19 | 5.95 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 19 | 5.95 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 19 | 5.95 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 9 | 5.95 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 11 | 5.95 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 11 | 5.95 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 11 | 5.95 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 9 | 5.95 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 9 | 5.95 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 9 | 5.95 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 13 | 5.95 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 13 | 5.95 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 13 | 5.95 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 15 | 5.95 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 5 | 5.95 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 5 | 5.95 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 5 | 5.95 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 9 | 5.95 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 9 | 5.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 9 | 5.95 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 7 | 5.95 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 19 | 5.95 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 17 | 5.95 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 16 | 5.95 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 16 | 5.95 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 16 | 5.95 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 13 | 5.95 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 13 | 5.95 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 13 | 5.95 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 3 | 5.95 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 3 | 5.95 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 3 | 5.95 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 11 | 5.95 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 13 | 5.95 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 13 | 5.95 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 10 | 5.95 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 10 | 5.95 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 2 | 5.95 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 2 | 5.95 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 16 | 5.95 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 18 | 5.95 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 18 | 5.95 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 18 | 5.95 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 12 | 5.95 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 11 | 5.95 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 11 | 5.95 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 11 | 5.95 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 7 | 5.95 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 10 | 5.95 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 10 | 5.95 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 10 | 5.95 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 10 | 5.95 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 10 | 5.95 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 10 | 5.95 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 7 | 5.95 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 7 | 5.95 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 7 | 5.95 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 7 | 5.95 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 7 | 5.95 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 7 | 5.95 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 7 | 5.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 7 | 5.95 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 7 | 5.95 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 1 | 5.95 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 1 | 5.95 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 1 | 5.95 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 20 | 5.95 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 20 | 5.95 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 20 | 5.95 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 3 | 5.95 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 16 | 5.95 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 9 | 5.95 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 9 | 5.95 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 9 | 5.95 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 18 | 5.95 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 18 | 5.95 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 18 | 5.95 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 18 | 5.95 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 18 | 5.95 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 18 | 5.95 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 1 | 5.95 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 20 | 5.95 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 3 | 5.95 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 3 | 5.95 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 3 | 5.95 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 20 | 5.95 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 9 | 5.95 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 10 | 5.95 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 10 | 5.95 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 10 | 5.95 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 18 | 5.95 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 18 | 5.95 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 18 | 5.95 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 4 | 5.95 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 4 | 5.95 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 16 | 5.95 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 16 | 5.95 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 9 | 5.95 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 16 | 5.95 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 16 | 5.95 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 12 | 5.95 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 12 | 5.95 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 12 | 5.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 12 | 5.95 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 13 | 5.95 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 11 | 5.95 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 15 | 5.95 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 15 | 5.95 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 15 | 5.95 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 15 | 5.95 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 15 | 5.95 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 15 | 5.95 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 7 | 5.95 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 7 | 5.95 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 7 | 5.95 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 8 | 5.95 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 18 | 5.95 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 18 | 5.95 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 18 | 5.95 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 18 | 5.95 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 11 | 5.95 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 11 | 5.95 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 13 | 5.95 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 13 | 5.95 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 1 | 5.95 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 1 | 5.95 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 1 | 5.95 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 1 | 5.95 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 1 | 5.95 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 1 | 5.95 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 3 | 5.95 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 3 | 5.95 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 3 | 5.95 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 17 | 5.95 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 17 | 5.95 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 17 | 5.95 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 16 | 5.95 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 11 | 5.95 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 13 | 5.95 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 13 | 5.95 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 10 | 5.95 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 10 | 5.95 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 2 | 5.95 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 2 | 5.95 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 5 | 5.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 5 | 5.95 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 16 | 5.95 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 18 | 5.95 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 18 | 5.95 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 18 | 5.95 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 12 | 5.95 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 11 | 5.95 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 11 | 5.95 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 11 | 5.95 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 7 | 5.95 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 10 | 5.95 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 10 | 5.95 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 10 | 5.95 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 10 | 5.95 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 10 | 5.95 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 10 | 5.95 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 7 | 5.95 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 7 | 5.95 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 7 | 5.95 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 7 | 5.95 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 7 | 5.95 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 7 | 5.95 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 7 | 5.95 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 7 | 5.95 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 7 | 5.95 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 1 | 5.95 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 1 | 5.95 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 1 | 5.95 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 20 | 5.95 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 20 | 5.95 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 20 | 5.95 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 5 | 5.95 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 5 | 5.95 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 5 | 5.95 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 3 | 5.95 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 3 | 5.95 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 3 | 5.95 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 3 | 5.95 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 3 | 5.95 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 3 | 5.95 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 3 | 5.95 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 16 | 5.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 8 | 5.95 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 14 | 5.95 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 9 | 5.95 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 9 | 5.95 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 9 | 5.95 |
| (1,968) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 8 | 5.95 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 18 | 5.95 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 18 | 5.95 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 18 | 5.95 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 18 | 5.95 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 18 | 5.95 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 18 | 5.95 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 1 | 5.95 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 20 | 5.95 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 18 | 5.94 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 1 | 5.94 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 19 | 5.94 |
| (4,148) | 1:98:A:SER:CB | 1:7:A:LEU:H | 9 | 5.94 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 13 | 5.94 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 3 | 5.94 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 8 | 5.94 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 7 | 5.94 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 16 | 5.94 |
| (1,9589) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 16 | 5.94 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 12 | 5.94 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 12 | 5.94 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 11 | 5.94 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 11 | 5.94 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 14 | 5.94 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 14 | 5.94 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 14 | 5.94 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 14 | 5.94 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 4 | 5.94 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 4 | 5.94 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 4 | 5.94 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 4 | 5.94 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 4 | 5.94 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 4 | 5.94 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 7 | 5.94 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 7 | 5.94 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 13 | 5.94 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 13 | 5.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 5 | 5.94 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 5 | 5.94 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 2 | 5.94 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 2 | 5.94 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 12 | 5.94 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 12 | 5.94 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 20 | 5.94 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 20 | 5.94 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 12 | 5.94 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 12 | 5.94 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 1 | 5.94 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 1 | 5.94 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 9 | 5.94 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 9 | 5.94 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 9 | 5.94 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 9 | 5.94 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 9 | 5.94 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 9 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 6 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 6 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 6 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 6 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 9 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 9 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 9 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 9 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 18 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 18 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 18 | 5.94 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 18 | 5.94 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 13 | 5.94 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 13 | 5.94 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 13 | 5.94 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 13 | 5.94 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 8 | 5.94 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 12 | 5.94 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 12 | 5.94 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 12 | 5.94 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 2 | 5.94 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 9 | 5.94 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 11 | 5.94 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 11 | 5.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8237) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 9 | 5.94 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 18 | 5.94 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 18 | 5.94 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 18 | 5.94 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 17 | 5.94 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 17 | 5.94 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 4 | 5.94 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 4 | 5.94 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 4 | 5.94 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 9 | 5.94 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 9 | 5.94 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 9 | 5.94 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 9 | 5.94 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 9 | 5.94 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 9 | 5.94 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 9 | 5.94 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 9 | 5.94 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 9 | 5.94 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 10 | 5.94 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 10 | 5.94 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 10 | 5.94 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 20 | 5.94 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 20 | 5.94 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 20 | 5.94 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 19 | 5.94 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 19 | 5.94 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 19 | 5.94 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 2 | 5.94 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 2 | 5.94 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 2 | 5.94 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 13 | 5.94 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 13 | 5.94 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 13 | 5.94 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 7 | 5.94 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 7 | 5.94 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 7 | 5.94 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 7 | 5.94 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 7 | 5.94 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 7 | 5.94 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 12 | 5.94 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 10 | 5.94 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 10 | 5.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 10 | 5.94 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 6 | 5.94 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 6 | 5.94 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 17 | 5.94 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 2 | 5.94 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 2 | 5.94 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 14 | 5.94 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 14 | 5.94 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 1 | 5.94 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 1 | 5.94 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 1 | 5.94 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 1 | 5.94 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 17 | 5.94 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 17 | 5.94 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 17 | 5.94 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 18 | 5.94 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 5 | 5.94 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 5 | 5.94 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 1 | 5.94 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 1 | 5.94 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 14 | 5.94 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 11 | 5.94 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 19 | 5.94 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 19 | 5.94 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 19 | 5.94 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 17 | 5.94 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 17 | 5.94 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 5 | 5.94 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 8 | 5.94 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 9 | 5.94 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 1 | 5.94 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 1 | 5.94 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 4 | 5.94 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 4 | 5.94 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 4 | 5.94 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 5 | 5.94 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 5 | 5.94 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 5 | 5.94 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 11 | 5.94 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 13 | 5.94 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 13 | 5.94 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 13 | 5.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 15 | 5.94 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 15 | 5.94 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 15 | 5.94 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 18 | 5.94 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 18 | 5.94 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 18 | 5.94 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 2 | 5.94 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 2 | 5.94 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 2 | 5.94 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 4 | 5.94 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 4 | 5.94 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 4 | 5.94 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 2 | 5.94 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 2 | 5.94 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 2 | 5.94 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 2 | 5.94 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 2 | 5.94 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 2 | 5.94 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 11 | 5.94 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 11 | 5.94 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 11 | 5.94 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 19 | 5.94 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 19 | 5.94 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 18 | 5.94 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 18 | 5.94 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 17 | 5.94 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 2 | 5.94 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 2 | 5.94 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 2 | 5.94 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 2 | 5.94 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 2 | 5.94 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 2 | 5.94 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 2 | 5.94 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 2 | 5.94 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 2 | 5.94 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 18 | 5.94 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 18 | 5.94 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 18 | 5.94 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 12 | 5.94 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 12 | 5.94 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 12 | 5.94 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 9 | 5.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 9 | 5.94 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 9 | 5.94 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 9 | 5.94 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 10 | 5.94 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 10 | 5.94 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 17 | 5.94 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 17 | 5.94 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 6 | 5.94 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 6 | 5.94 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 6 | 5.94 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 11 | 5.94 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 11 | 5.94 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 11 | 5.94 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 12 | 5.94 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 4 | 5.94 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 12 | 5.94 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 12 | 5.94 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 11 | 5.94 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 11 | 5.94 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 10 | 5.94 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 10 | 5.94 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 10 | 5.94 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 10 | 5.94 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 14 | 5.94 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 14 | 5.94 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 14 | 5.94 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 14 | 5.94 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 1 | 5.94 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 1 | 5.94 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 5.94 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 5.94 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 5.94 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 4 | 5.94 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 4 | 5.94 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 4 | 5.94 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 4 | 5.94 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 4 | 5.94 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 4 | 5.94 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 10 | 5.94 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 10 | 5.94 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 2 | 5.94 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 2 | 5.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 10 | 5.94 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 10 | 5.94 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 1 | 5.94 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 9 | 5.94 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 12 | 5.94 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 12 | 5.94 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 1 | 5.94 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 1 | 5.94 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 9 | 5.94 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 9 | 5.94 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 9 | 5.94 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 9 | 5.94 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 9 | 5.94 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 9 | 5.94 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 8 | 5.94 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 5 | 5.94 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 8 | 5.94 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 5.94 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 5.94 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 5.94 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 8 | 5.94 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 8 | 5.94 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 1 | 5.94 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 1 | 5.94 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 4 | 5.94 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 4 | 5.94 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 4 | 5.94 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 5 | 5.94 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 5 | 5.94 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 5 | 5.94 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 3 | 5.94 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 3 | 5.94 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 3 | 5.94 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 11 | 5.94 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 4 | 5.94 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 18 | 5.94 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 13 | 5.94 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 13 | 5.94 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 13 | 5.94 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 15 | 5.94 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 15 | 5.94 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 15 | 5.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 18 | 5.94 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 18 | 5.94 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 18 | 5.94 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 2 | 5.94 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 2 | 5.94 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 2 | 5.94 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 4 | 5.94 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 4 | 5.94 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 4 | 5.94 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 2 | 5.94 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 2 | 5.94 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 2 | 5.94 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 2 | 5.94 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 2 | 5.94 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 2 | 5.94 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 11 | 5.94 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 11 | 5.94 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 11 | 5.94 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 19 | 5.94 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 19 | 5.94 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 18 | 5.94 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 18 | 5.94 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 17 | 5.94 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 17 | 5.94 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 17 | 5.94 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 2 | 5.94 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 2 | 5.94 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 2 | 5.94 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 5.94 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 2 | 5.94 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 2 | 5.94 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 2 | 5.94 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 2 | 5.94 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 2 | 5.94 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 2 | 5.94 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 2 | 5.94 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 2 | 5.94 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 2 | 5.94 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 18 | 5.94 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 18 | 5.94 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 18 | 5.94 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 16 | 5.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 16 | 5.94 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 16 | 5.94 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 15 | 5.93 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 5 | 5.93 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 5 | 5.93 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 5 | 5.93 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 5 | 5.93 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 5 | 5.93 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 5 | 5.93 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 9 | 5.93 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 9 | 5.93 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 9 | 5.93 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 9 | 5.93 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 5.93 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 5.93 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 5.93 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 5.93 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 5.93 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 5.93 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 12 | 5.93 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 12 | 5.93 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 4 | 5.93 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 4 | 5.93 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 4 | 5.93 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 4 | 5.93 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 15 | 5.93 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 15 | 5.93 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 8 | 5.93 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 8 | 5.93 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 3 | 5.93 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 3 | 5.93 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 1 | 5.93 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 1 | 5.93 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 1 | 5.93 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 1 | 5.93 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 1 | 5.93 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 1 | 5.93 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 1 | 5.93 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 1 | 5.93 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 4 | 5.93 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 4 | 5.93 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 4 | 5.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 4 | 5.93 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 4 | 5.93 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 4 | 5.93 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 11 | 5.93 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 11 | 5.93 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 10 | 5.93 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 10 | 5.93 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 12 | 5.93 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 12 | 5.93 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 3 | 5.93 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 3 | 5.93 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 3 | 5.93 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 3 | 5.93 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 3 | 5.93 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 3 | 5.93 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 7 | 5.93 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 7 | 5.93 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 6 | 5.93 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 6 | 5.93 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 16 | 5.93 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 16 | 5.93 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 16 | 5.93 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 16 | 5.93 |
| (1,8537) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 17 | 5.93 |
| (1,8537) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 17 | 5.93 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 18 | 5.93 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 6 | 5.93 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 6 | 5.93 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 6 | 5.93 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 2 | 5.93 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 2 | 5.93 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 2 | 5.93 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 2 | 5.93 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 2 | 5.93 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 2 | 5.93 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 2 | 5.93 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 2 | 5.93 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 2 | 5.93 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 19 | 5.93 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 19 | 5.93 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 19 | 5.93 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 16 | 5.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 6 | 5.93 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 6 | 5.93 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 6 | 5.93 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 6 | 5.93 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 6 | 5.93 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 6 | 5.93 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 19 | 5.93 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 10 | 5.93 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 10 | 5.93 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 10 | 5.93 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 18 | 5.93 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 1 | 5.93 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 8 | 5.93 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 8 | 5.93 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 16 | 5.93 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 16 | 5.93 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 16 | 5.93 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 6 | 5.93 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 6 | 5.93 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 6 | 5.93 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 19 | 5.93 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 10 | 5.93 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 19 | 5.93 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 19 | 5.93 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 19 | 5.93 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 1 | 5.93 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 18 | 5.93 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 3 | 5.93 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 18 | 5.93 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 9 | 5.93 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 9 | 5.93 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 9 | 5.93 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 7 | 5.93 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 19 | 5.93 |
| (1,7742) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 11 | 5.93 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 15 | 5.93 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 15 | 5.93 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 15 | 5.93 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 18 | 5.93 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 20 | 5.93 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 20 | 5.93 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 20 | 5.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 18 | 5.93 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 18 | 5.93 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 18 | 5.93 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 15 | 5.93 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 18 | 5.93 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 5 | 5.93 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 5 | 5.93 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 11 | 5.93 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 2 | 5.93 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 2 | 5.93 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 2 | 5.93 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 8 | 5.93 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 20 | 5.93 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 20 | 5.93 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 20 | 5.93 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 20 | 5.93 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 20 | 5.93 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 20 | 5.93 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 16 | 5.93 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 15 | 5.93 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 15 | 5.93 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 15 | 5.93 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 19 | 5.93 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 3 | 5.93 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 18 | 5.93 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 18 | 5.93 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 7 | 5.93 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 7 | 5.93 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 7 | 5.93 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 7 | 5.93 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 17 | 5.93 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 6 | 5.93 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 1 | 5.93 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 1 | 5.93 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 1 | 5.93 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 4 | 5.93 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 13 | 5.93 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 13 | 5.93 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 13 | 5.93 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 4 | 5.93 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 4 | 5.93 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 9 | 5.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 5 | 5.93 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 5 | 5.93 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 5 | 5.93 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 5 | 5.93 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 5 | 5.93 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 5 | 5.93 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 2 | 5.93 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 2 | 5.93 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 2 | 5.93 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 5 | 5.93 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 5 | 5.93 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 5 | 5.93 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 5 | 5.93 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 5 | 5.93 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 5 | 5.93 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 13 | 5.93 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 13 | 5.93 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 13 | 5.93 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 8 | 5.93 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 8 | 5.93 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 8 | 5.93 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 5 | 5.93 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 5 | 5.93 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 19 | 5.93 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 19 | 5.93 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 19 | 5.93 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 13 | 5.93 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 3 | 5.93 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 13 | 5.93 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 1 | 5.93 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 1 | 5.93 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 1 | 5.93 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 12 | 5.93 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 12 | 5.93 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 12 | 5.93 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 4 | 5.93 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 2 | 5.93 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 2 | 5.93 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 2 | 5.93 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 2 | 5.93 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 2 | 5.93 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 2 | 5.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 9 | 5.93 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 9 | 5.93 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 9 | 5.93 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 9 | 5.93 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 9 | 5.93 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 9 | 5.93 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 5.93 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 5.93 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 5.93 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 5.93 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 5.93 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 5.93 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 3 | 5.93 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 15 | 5.93 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 15 | 5.93 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 6 | 5.93 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 5.93 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 1 | 5.93 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 1 | 5.93 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 1 | 5.93 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 1 | 5.93 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 1 | 5.93 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 1 | 5.93 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 16 | 5.93 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 16 | 5.93 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 16 | 5.93 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 1 | 5.93 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 1 | 5.93 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 4 | 5.93 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 4 | 5.93 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 4 | 5.93 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 4 | 5.93 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 4 | 5.93 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 4 | 5.93 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 4 | 5.93 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 12 | 5.93 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 12 | 5.93 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 6 | 5.93 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 3 | 5.93 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 3 | 5.93 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 3 | 5.93 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 3 | 5.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 3 | 5.93 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 3 | 5.93 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 15 | 5.93 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 15 | 5.93 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 15 | 5.93 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 17 | 5.93 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 17 | 5.93 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 16 | 5.93 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 16 | 5.93 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 16 | 5.93 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 16 | 5.93 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 3 | 5.93 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 3 | 5.93 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 5 | 5.93 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 6 | 5.93 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 6 | 5.93 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 6 | 5.93 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 6 | 5.93 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 15 | 5.93 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 17 | 5.93 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 10 | 5.93 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 10 | 5.93 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 19 | 5.93 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 3 | 5.93 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 18 | 5.93 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 18 | 5.93 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 7 | 5.93 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 7 | 5.93 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 7 | 5.93 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 7 | 5.93 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 5.93 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 17 | 5.93 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 6 | 5.93 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 1 | 5.93 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 1 | 5.93 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 1 | 5.93 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 4 | 5.93 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 17 | 5.93 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 17 | 5.93 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 17 | 5.93 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 13 | 5.93 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 13 | 5.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 13 | 5.93 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 4 | 5.93 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 4 | 5.93 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 2 | 5.93 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 2 | 5.93 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 2 | 5.93 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 9 | 5.93 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 15 | 5.93 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 5 | 5.93 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 5 | 5.93 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 5 | 5.93 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 5 | 5.93 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 5 | 5.93 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 5 | 5.93 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 8 | 5.93 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 2 | 5.93 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 2 | 5.93 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 2 | 5.93 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 15 | 5.93 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 2 | 5.93 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 2 | 5.93 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 2 | 5.93 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 5 | 5.93 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 5 | 5.93 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 5 | 5.93 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 5 | 5.93 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 5 | 5.93 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 5 | 5.93 |
| (4,204) | 1:131:A:GLN:CB | 1:32:A:SER:H | 20 | 5.92 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 12 | 5.92 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 12 | 5.92 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 12 | 5.92 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 12 | 5.92 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 12 | 5.92 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 12 | 5.92 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 1 | 5.92 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 1 | 5.92 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 11 | 5.92 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 11 | 5.92 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 11 | 5.92 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 11 | 5.92 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 18 | 5.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 18 | 5.92 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 13 | 5.92 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 13 | 5.92 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 13 | 5.92 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 13 | 5.92 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 9 | 5.92 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 9 | 5.92 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 13 | 5.92 |
| (1,9144) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 13 | 5.92 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 16 | 5.92 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 16 | 5.92 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 5 | 5.92 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 5 | 5.92 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 6 | 5.92 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 6 | 5.92 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 6 | 5.92 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 6 | 5.92 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 6 | 5.92 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 6 | 5.92 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 11 | 5.92 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 11 | 5.92 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 14 | 5.92 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 14 | 5.92 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 14 | 5.92 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 14 | 5.92 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 14 | 5.92 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 14 | 5.92 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 5 | 5.92 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 5 | 5.92 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 16 | 5.92 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 16 | 5.92 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 17 | 5.92 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 17 | 5.92 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 1 | 5.92 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 1 | 5.92 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 1 | 5.92 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 1 | 5.92 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 5 | 5.92 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 5 | 5.92 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 5 | 5.92 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 5 | 5.92 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 9 | 5.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 9 | 5.92 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 9 | 5.92 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 9 | 5.92 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 5 | 5.92 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 5 | 5.92 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 2 | 5.92 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 11 | 5.92 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 11 | 5.92 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 11 | 5.92 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 4 | 5.92 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 17 | 5.92 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 1 | 5.92 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 4 | 5.92 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 4 | 5.92 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 4 | 5.92 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 6 | 5.92 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 6 | 5.92 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 6 | 5.92 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 17 | 5.92 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 17 | 5.92 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 18 | 5.92 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 18 | 5.92 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 18 | 5.92 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 11 | 5.92 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 11 | 5.92 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 11 | 5.92 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 3 | 5.92 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 15 | 5.92 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 15 | 5.92 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 15 | 5.92 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 2 | 5.92 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 6 | 5.92 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 6 | 5.92 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 3 | 5.92 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 6 | 5.92 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 6 | 5.92 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 6 | 5.92 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 19 | 5.92 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 10 | 5.92 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 10 | 5.92 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 10 | 5.92 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 20 | 5.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 20 | 5.92 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 20 | 5.92 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 15 | 5.92 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 16 | 5.92 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 19 | 5.92 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 7 | 5.92 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 7 | 5.92 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 7 | 5.92 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 10 | 5.92 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 1 | 5.92 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 1 | 5.92 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 1 | 5.92 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 12 | 5.92 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 12 | 5.92 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 12 | 5.92 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 5 | 5.92 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 3 | 5.92 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 3 | 5.92 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 3 | 5.92 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 14 | 5.92 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 14 | 5.92 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 4 | 5.92 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 4 | 5.92 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 18 | 5.92 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 18 | 5.92 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 18 | 5.92 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 18 | 5.92 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 18 | 5.92 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 18 | 5.92 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 11 | 5.92 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 7 | 5.92 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 7 | 5.92 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 12 | 5.92 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 12 | 5.92 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 12 | 5.92 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 3 | 5.92 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 3 | 5.92 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 3 | 5.92 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 1 | 5.92 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 1 | 5.92 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 1 | 5.92 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 1 | 5.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 1 | 5.92 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 1 | 5.92 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 15 | 5.92 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 15 | 5.92 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 15 | 5.92 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 20 | 5.92 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 20 | 5.92 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 20 | 5.92 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 3 | 5.92 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 3 | 5.92 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 3 | 5.92 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 9 | 5.92 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 5 | 5.92 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 5 | 5.92 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 5 | 5.92 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 18 | 5.92 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 8 | 5.92 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 8 | 5.92 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 9 | 5.92 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 6 | 5.92 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 6 | 5.92 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 6 | 5.92 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 4 | 5.92 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 5 | 5.92 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 5 | 5.92 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 5 | 5.92 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 4 | 5.92 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 4 | 5.92 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 4 | 5.92 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 13 | 5.92 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 13 | 5.92 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 13 | 5.92 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 19 | 5.92 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 19 | 5.92 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 19 | 5.92 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 13 | 5.92 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 15 | 5.92 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 15 | 5.92 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 15 | 5.92 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 19 | 5.92 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 19 | 5.92 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 12 | 5.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 12 | 5.92 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 12 | 5.92 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 8 | 5.92 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 8 | 5.92 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 8 | 5.92 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 7 | 5.92 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 7 | 5.92 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 7 | 5.92 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 12 | 5.92 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 9 | 5.92 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 14 | 5.92 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 14 | 5.92 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 12 | 5.92 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 12 | 5.92 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 12 | 5.92 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 12 | 5.92 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 12 | 5.92 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 12 | 5.92 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 1 | 5.92 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 1 | 5.92 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 5 | 5.92 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 1 | 5.92 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 6 | 5.92 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 8 | 5.92 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 10 | 5.92 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 9 | 5.92 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 5 | 5.92 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 5 | 5.92 |
| (1,4052) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 18 | 5.92 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 8 | 5.92 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 15 | 5.92 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 15 | 5.92 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 15 | 5.92 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 15 | 5.92 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 15 | 5.92 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 15 | 5.92 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 4 | 5.92 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 17 | 5.92 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 17 | 5.92 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 9 | 5.92 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 14 | 5.92 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 14 | 5.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 14 | 5.92 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 4 | 5.92 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 4 | 5.92 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 18 | 5.92 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 18 | 5.92 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 18 | 5.92 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 18 | 5.92 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 18 | 5.92 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 18 | 5.92 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 11 | 5.92 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 7 | 5.92 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 7 | 5.92 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 8 | 5.92 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 5.92 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 12 | 5.92 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 12 | 5.92 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 12 | 5.92 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 12 | 5.92 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 12 | 5.92 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 12 | 5.92 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 1 | 5.92 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 3 | 5.92 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 3 | 5.92 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 3 | 5.92 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 1 | 5.92 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 1 | 5.92 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 1 | 5.92 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 1 | 5.92 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 1 | 5.92 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 1 | 5.92 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 1 | 5.92 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 12 | 5.92 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 12 | 5.92 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 15 | 5.92 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 15 | 5.92 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 15 | 5.92 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 1 | 5.92 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 20 | 5.92 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 20 | 5.92 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 20 | 5.92 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 3 | 5.92 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 3 | 5.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 3 | 5.92 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 9 | 5.92 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 5 | 5.92 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 5 | 5.92 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 5 | 5.92 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 18 | 5.92 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 3 | 5.92 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 6 | 5.92 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 6 | 5.92 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 8 | 5.92 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 8 | 5.92 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 9 | 5.92 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 6 | 5.92 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 6 | 5.92 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 6 | 5.92 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 4 | 5.92 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 5 | 5.92 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 5 | 5.92 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 5 | 5.92 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 9 | 5.92 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 4 | 5.92 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 4 | 5.92 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 4 | 5.92 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 7 | 5.92 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 7 | 5.92 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 7 | 5.92 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 19 | 5.92 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 4 | 5.92 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 4 | 5.92 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 4 | 5.92 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 3 | 5.91 |
| (4,248) | 1:15:A:MET:CB | 1:142:A:ARG:H | 14 | 5.91 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 16 | 5.91 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 15 | 5.91 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 16 | 5.91 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 16 | 5.91 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 11 | 5.91 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 11 | 5.91 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 11 | 5.91 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 11 | 5.91 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 11 | 5.91 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 11 | 5.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 17 | 5.91 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 17 | 5.91 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 17 | 5.91 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 17 | 5.91 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 14 | 5.91 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 14 | 5.91 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 14 | 5.91 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 14 | 5.91 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 1 | 5.91 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 1 | 5.91 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 8 | 5.91 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 8 | 5.91 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 3 | 5.91 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 3 | 5.91 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 3 | 5.91 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 3 | 5.91 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 8 | 5.91 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 8 | 5.91 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 8 | 5.91 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 8 | 5.91 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 3 | 5.91 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 3 | 5.91 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 3 | 5.91 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 3 | 5.91 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 3 | 5.91 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 3 | 5.91 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 16 | 5.91 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 16 | 5.91 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 11 | 5.91 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 11 | 5.91 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 11 | 5.91 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 11 | 5.91 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 6 | 5.91 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 6 | 5.91 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 6 | 5.91 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 6 | 5.91 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 20 | 5.91 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 20 | 5.91 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 13 | 5.91 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 13 | 5.91 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 13 | 5.91 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 6 | 5.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 6 | 5.91 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 6 | 5.91 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 4 | 5.91 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 8 | 5.91 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 8 | 5.91 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 10 | 5.91 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 7 | 5.91 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 7 | 5.91 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 7 | 5.91 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 16 | 5.91 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 16 | 5.91 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 16 | 5.91 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 5 | 5.91 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 5 | 5.91 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 19 | 5.91 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 11 | 5.91 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 11 | 5.91 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 11 | 5.91 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG2 | 20 | 5.91 |
| (1,8098) | 1:93:A:ILE:H | 1:94:A:GLN:HG3 | 20 | 5.91 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 13 | 5.91 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 18 | 5.91 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 18 | 5.91 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 18 | 5.91 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 13 | 5.91 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 13 | 5.91 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 13 | 5.91 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 11 | 5.91 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 11 | 5.91 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 11 | 5.91 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 2 | 5.91 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 2 | 5.91 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 4 | 5.91 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 4 | 5.91 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 8 | 5.91 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 11 | 5.91 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 11 | 5.91 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 11 | 5.91 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 19 | 5.91 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 19 | 5.91 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 19 | 5.91 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 12 | 5.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 12 | 5.91 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 3 | 5.91 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 10 | 5.91 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 1 | 5.91 |
| (1,7478) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 5 | 5.91 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 20 | 5.91 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 20 | 5.91 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 20 | 5.91 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 13 | 5.91 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 20 | 5.91 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 20 | 5.91 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 20 | 5.91 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 15 | 5.91 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 3 | 5.91 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 3 | 5.91 |
| (1,7173) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 13 | 5.91 |
| (1,7173) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 13 | 5.91 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 3 | 5.91 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 2 | 5.91 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 5 | 5.91 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 17 | 5.91 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 17 | 5.91 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 17 | 5.91 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 17 | 5.91 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 12 | 5.91 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 12 | 5.91 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 12 | 5.91 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 7 | 5.91 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 7 | 5.91 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 7 | 5.91 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 13 | 5.91 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 2 | 5.91 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 2 | 5.91 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 2 | 5.91 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 8 | 5.91 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 6 | 5.91 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 6 | 5.91 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 6 | 5.91 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 8 | 5.91 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 8 | 5.91 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 8 | 5.91 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 12 | 5.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 12 | 5.91 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 12 | 5.91 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 12 | 5.91 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 12 | 5.91 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 12 | 5.91 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 18 | 5.91 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 18 | 5.91 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 18 | 5.91 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 15 | 5.91 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 16 | 5.91 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 16 | 5.91 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 16 | 5.91 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 16 | 5.91 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 16 | 5.91 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 16 | 5.91 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 17 | 5.91 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 6 | 5.91 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 6 | 5.91 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 6 | 5.91 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 16 | 5.91 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 6 | 5.91 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 6 | 5.91 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 1 | 5.91 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 14 | 5.91 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 14 | 5.91 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 18 | 5.91 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 2 | 5.91 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 2 | 5.91 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 2 | 5.91 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 3 | 5.91 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 3 | 5.91 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 14 | 5.91 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 11 | 5.91 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 13 | 5.91 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 13 | 5.91 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 13 | 5.91 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 12 | 5.91 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 10 | 5.91 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 10 | 5.91 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 10 | 5.91 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 10 | 5.91 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 11 | 5.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 11 | 5.91 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 11 | 5.91 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 11 | 5.91 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 4 | 5.91 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 4 | 5.91 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 4 | 5.91 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 2 | 5.91 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 2 | 5.91 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 13 | 5.91 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 9 | 5.91 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 9 | 5.91 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 9 | 5.91 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 9 | 5.91 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 5 | 5.91 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 5 | 5.91 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 5 | 5.91 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 5 | 5.91 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 4 | 5.91 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 4 | 5.91 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 14 | 5.91 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 4 | 5.91 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 4 | 5.91 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 9 | 5.91 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 9 | 5.91 |
| (1,3292) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 13 | 5.91 |
| (1,3292) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 13 | 5.91 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 3 | 5.91 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 2 | 5.91 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 5 | 5.91 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 17 | 5.91 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 17 | 5.91 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 17 | 5.91 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 19 | 5.91 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 12 | 5.91 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 12 | 5.91 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 12 | 5.91 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 7 | 5.91 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 7 | 5.91 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 7 | 5.91 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 13 | 5.91 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 2 | 5.91 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 2 | 5.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 2 | 5.91 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 12 | 5.91 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 12 | 5.91 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 12 | 5.91 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 11 | 5.91 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 6 | 5.91 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 6 | 5.91 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 6 | 5.91 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 8 | 5.91 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 8 | 5.91 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 8 | 5.91 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 12 | 5.91 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 12 | 5.91 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 12 | 5.91 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 12 | 5.91 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 12 | 5.91 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 12 | 5.91 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 5.91 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 5.91 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 5.91 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 18 | 5.91 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 18 | 5.91 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 18 | 5.91 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 15 | 5.91 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 2 | 5.91 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 14 | 5.91 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 16 | 5.91 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 16 | 5.91 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 16 | 5.91 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 16 | 5.91 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 16 | 5.91 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 16 | 5.91 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 12 | 5.91 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 16 | 5.9 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 4 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 4 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 4 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 4 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 4 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 4 | 5.9 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 4 | 5.9 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 4 | 5.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 4 | 5.9 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 10 | 5.9 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 10 | 5.9 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 10 | 5.9 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 10 | 5.9 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 10 | 5.9 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 10 | 5.9 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 1 | 5.9 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 1 | 5.9 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 1 | 5.9 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 1 | 5.9 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 12 | 5.9 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 12 | 5.9 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 18 | 5.9 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 18 | 5.9 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 3 | 5.9 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 3 | 5.9 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 17 | 5.9 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 17 | 5.9 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 6 | 5.9 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 6 | 5.9 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 7 | 5.9 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 7 | 5.9 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 16 | 5.9 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 16 | 5.9 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 16 | 5.9 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 16 | 5.9 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 11 | 5.9 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 11 | 5.9 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 11 | 5.9 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 11 | 5.9 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 4 | 5.9 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 4 | 5.9 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 16 | 5.9 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 16 | 5.9 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 16 | 5.9 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 16 | 5.9 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 2 | 5.9 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 2 | 5.9 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 7 | 5.9 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 7 | 5.9 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 5 | 5.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 5 | 5.9 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 6 | 5.9 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 6 | 5.9 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 4 | 5.9 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 4 | 5.9 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 15 | 5.9 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 15 | 5.9 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 13 | 5.9 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 13 | 5.9 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 13 | 5.9 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 20 | 5.9 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 20 | 5.9 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 20 | 5.9 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 13 | 5.9 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 8 | 5.9 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 8 | 5.9 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 8 | 5.9 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 13 | 5.9 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 20 | 5.9 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 20 | 5.9 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 19 | 5.9 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 19 | 5.9 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 3 | 5.9 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 3 | 5.9 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 12 | 5.9 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 12 | 5.9 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 12 | 5.9 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 13 | 5.9 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 13 | 5.9 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 13 | 5.9 |
| (1,8143) | 1:96:A:ILE:HB | 1:101:A:GLU:H | 13 | 5.9 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 19 | 5.9 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 19 | 5.9 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 19 | 5.9 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 6 | 5.9 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 6 | 5.9 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 6 | 5.9 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 15 | 5.9 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 15 | 5.9 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 4 | 5.9 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 4 | 5.9 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 4 | 5.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 9 | 5.9 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 9 | 5.9 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 9 | 5.9 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 9 | 5.9 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 9 | 5.9 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 9 | 5.9 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 9 | 5.9 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 9 | 5.9 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 9 | 5.9 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 4 | 5.9 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 4 | 5.9 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 4 | 5.9 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 17 | 5.9 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 17 | 5.9 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 17 | 5.9 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 7 | 5.9 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 7 | 5.9 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 7 | 5.9 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 9 | 5.9 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 9 | 5.9 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 9 | 5.9 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 19 | 5.9 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 19 | 5.9 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 19 | 5.9 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 13 | 5.9 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 13 | 5.9 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 13 | 5.9 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 6 | 5.9 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 13 | 5.9 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 13 | 5.9 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 13 | 5.9 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 3 | 5.9 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 3 | 5.9 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 7 | 5.9 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 7 | 5.9 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 18 | 5.9 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 18 | 5.9 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 18 | 5.9 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 15 | 5.9 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 15 | 5.9 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 15 | 5.9 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 1 | 5.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 1 | 5.9 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 1 | 5.9 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 1 | 5.9 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 1 | 5.9 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 1 | 5.9 |
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 16 | 5.9 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 2 | 5.9 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 19 | 5.9 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 9 | 5.9 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 9 | 5.9 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 20 | 5.9 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 20 | 5.9 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 6 | 5.9 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 6 | 5.9 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 6 | 5.9 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 8 | 5.9 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 18 | 5.9 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 1 | 5.9 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 7 | 5.9 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 3 | 5.9 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 5 | 5.9 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 5 | 5.9 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 5 | 5.9 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 13 | 5.9 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 13 | 5.9 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 13 | 5.9 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 18 | 5.9 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 18 | 5.9 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 18 | 5.9 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 8 | 5.9 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 4 | 5.9 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 12 | 5.9 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 10 | 5.9 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 10 | 5.9 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 10 | 5.9 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 10 | 5.9 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 1 | 5.9 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 14 | 5.9 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 14 | 5.9 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 16 | 5.9 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 16 | 5.9 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 12 | 5.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 12 | 5.9 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 12 | 5.9 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 12 | 5.9 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 16 | 5.9 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 19 | 5.9 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 19 | 5.9 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 7 | 5.9 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 7 | 5.9 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 7 | 5.9 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 13 | 5.9 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 13 | 5.9 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 13 | 5.9 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 13 | 5.9 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 13 | 5.9 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 13 | 5.9 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 7 | 5.9 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 7 | 5.9 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 3 | 5.9 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 5.9 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 2 | 5.9 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 2 | 5.9 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 2 | 5.9 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 18 | 5.9 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 7 | 5.9 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 7 | 5.9 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 3 | 5.9 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 3 | 5.9 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 3 | 5.9 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 13 | 5.9 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 13 | 5.9 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 13 | 5.9 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 5.9 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 17 | 5.9 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 18 | 5.9 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 18 | 5.9 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 18 | 5.9 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 2 | 5.9 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 2 | 5.9 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 6 | 5.9 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 6 | 5.9 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 6 | 5.9 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 8 | 5.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 18 | 5.9 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 1 | 5.9 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 6 | 5.9 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 6 | 5.9 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 19 | 5.9 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 7 | 5.9 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 3 | 5.9 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 10 | 5.9 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 5 | 5.9 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 5 | 5.9 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 5 | 5.9 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 13 | 5.9 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 13 | 5.9 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 13 | 5.9 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 18 | 5.9 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 18 | 5.9 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 18 | 5.9 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 8 | 5.9 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 4 | 5.9 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 12 | 5.9 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 15 | 5.9 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 16 | 5.9 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 16 | 5.9 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 10 | 5.9 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 8 | 5.9 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 10 | 5.9 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 10 | 5.9 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 10 | 5.9 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 18 | 5.9 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 20 | 5.89 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 9 | 5.89 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 9 | 5.89 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 9 | 5.89 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 9 | 5.89 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 9 | 5.89 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 9 | 5.89 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 9 | 5.89 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 12 | 5.89 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 12 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 5 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 5 | 5.89 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 5 | 5.89 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 7 | 5.89 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 7 | 5.89 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 10 | 5.89 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 10 | 5.89 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 11 | 5.89 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 11 | 5.89 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 11 | 5.89 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 11 | 5.89 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 11 | 5.89 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 11 | 5.89 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 11 | 5.89 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 11 | 5.89 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 9 | 5.89 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 9 | 5.89 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 15 | 5.89 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 15 | 5.89 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 9 | 5.89 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 9 | 5.89 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 9 | 5.89 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 9 | 5.89 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 3 | 5.89 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 3 | 5.89 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 20 | 5.89 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 20 | 5.89 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 1 | 5.89 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 1 | 5.89 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 7 | 5.89 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 7 | 5.89 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 19 | 5.89 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 19 | 5.89 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 19 | 5.89 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 19 | 5.89 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 19 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 19 | 5.89 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 11 | 5.89 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 11 | 5.89 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 11 | 5.89 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 11 | 5.89 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 11 | 5.89 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 11 | 5.89 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 7 | 5.89 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 7 | 5.89 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 14 | 5.89 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 14 | 5.89 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 14 | 5.89 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 14 | 5.89 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 14 | 5.89 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 14 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 4 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 4 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 4 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 4 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 4 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 4 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 7 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 7 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 7 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 7 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 7 | 5.89 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 7 | 5.89 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 2 | 5.89 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 2 | 5.89 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 2 | 5.89 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 2 | 5.89 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 18 | 5.89 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 18 | 5.89 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 18 | 5.89 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 18 | 5.89 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 6 | 5.89 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 6 | 5.89 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 1 | 5.89 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 1 | 5.89 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 19 | 5.89 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 19 | 5.89 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 6 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 6 | 5.89 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 13 | 5.89 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 13 | 5.89 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 13 | 5.89 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 13 | 5.89 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 13 | 5.89 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 13 | 5.89 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 1 | 5.89 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 1 | 5.89 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 7 | 5.89 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 7 | 5.89 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 7 | 5.89 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 7 | 5.89 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 5 | 5.89 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 5 | 5.89 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 2 | 5.89 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 2 | 5.89 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 2 | 5.89 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 14 | 5.89 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 14 | 5.89 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 8 | 5.89 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 1 | 5.89 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 1 | 5.89 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 1 | 5.89 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 10 | 5.89 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 6 | 5.89 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 10 | 5.89 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 10 | 5.89 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 10 | 5.89 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 7 | 5.89 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 7 | 5.89 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 7 | 5.89 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 5 | 5.89 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 1 | 5.89 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 1 | 5.89 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 1 | 5.89 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 20 | 5.89 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 20 | 5.89 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 20 | 5.89 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 13 | 5.89 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 19 | 5.89 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 19 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 8 | 5.89 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 8 | 5.89 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 8 | 5.89 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 11 | 5.89 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 16 | 5.89 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 1 | 5.89 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 16 | 5.89 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 11 | 5.89 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 20 | 5.89 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 20 | 5.89 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 20 | 5.89 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 6 | 5.89 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 6 | 5.89 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 6 | 5.89 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 13 | 5.89 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 1 | 5.89 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 1 | 5.89 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 12 | 5.89 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 12 | 5.89 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 20 | 5.89 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 20 | 5.89 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 13 | 5.89 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 3 | 5.89 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 3 | 5.89 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 12 | 5.89 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 20 | 5.89 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 12 | 5.89 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 4 | 5.89 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 14 | 5.89 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 5 | 5.89 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 5 | 5.89 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 5 | 5.89 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 13 | 5.89 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 19 | 5.89 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 19 | 5.89 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 16 | 5.89 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 12 | 5.89 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 12 | 5.89 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 12 | 5.89 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 7 | 5.89 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 7 | 5.89 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 7 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 7 | 5.89 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 7 | 5.89 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 16 | 5.89 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 12 | 5.89 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 12 | 5.89 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 12 | 5.89 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 12 | 5.89 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 12 | 5.89 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 12 | 5.89 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 12 | 5.89 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 12 | 5.89 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 12 | 5.89 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 5 | 5.89 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 5 | 5.89 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 5 | 5.89 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 1 | 5.89 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 1 | 5.89 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 1 | 5.89 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 19 | 5.89 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 19 | 5.89 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 8 | 5.89 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 8 | 5.89 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 8 | 5.89 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 15 | 5.89 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 15 | 5.89 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 15 | 5.89 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 15 | 5.89 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 15 | 5.89 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 15 | 5.89 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 7 | 5.89 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 7 | 5.89 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 7 | 5.89 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 13 | 5.89 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 13 | 5.89 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 13 | 5.89 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 9 | 5.89 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 9 | 5.89 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 9 | 5.89 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 15 | 5.89 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 15 | 5.89 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 15 | 5.89 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 18 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 18 | 5.89 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 18 | 5.89 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 8 | 5.89 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 8 | 5.89 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 8 | 5.89 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 20 | 5.89 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 20 | 5.89 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 20 | 5.89 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 8 | 5.89 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 8 | 5.89 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 8 | 5.89 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 8 | 5.89 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 8 | 5.89 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 8 | 5.89 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 1 | 5.89 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 1 | 5.89 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 1 | 5.89 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 1 | 5.89 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 1 | 5.89 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 1 | 5.89 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 1 | 5.89 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 1 | 5.89 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 1 | 5.89 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 5 | 5.89 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 3 | 5.89 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 3 | 5.89 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 3 | 5.89 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 15 | 5.89 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 7 | 5.89 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 7 | 5.89 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 7 | 5.89 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 18 | 5.89 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 18 | 5.89 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 12 | 5.89 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 9 | 5.89 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 9 | 5.89 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 9 | 5.89 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 4 | 5.89 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 4 | 5.89 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 4 | 5.89 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 7 | 5.89 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 11 | 5.89 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 11 | 5.89 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 11 | 5.89 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 11 | 5.89 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 10 | 5.89 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 16 | 5.89 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 9 | 5.89 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 9 | 5.89 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 9 | 5.89 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 9 | 5.89 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 9 | 5.89 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 3 | 5.89 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 3 | 5.89 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 8 | 5.89 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 6 | 5.89 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 5 | 5.89 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 19 | 5.89 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 19 | 5.89 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 19 | 5.89 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 19 | 5.89 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 19 | 5.89 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 19 | 5.89 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 11 | 5.89 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 11 | 5.89 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 11 | 5.89 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 11 | 5.89 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 11 | 5.89 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 11 | 5.89 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 8 | 5.89 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 8 | 5.89 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 1 | 5.89 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 1 | 5.89 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 1 | 5.89 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 1 | 5.89 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 19 | 5.89 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 19 | 5.89 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 13 | 5.89 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 13 | 5.89 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 13 | 5.89 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 13 | 5.89 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 13 | 5.89 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 13 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 1 | 5.89 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 1 | 5.89 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 3 | 5.89 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 3 | 5.89 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 3 | 5.89 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 5.89 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 12 | 5.89 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 12 | 5.89 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 12 | 5.89 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 12 | 5.89 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 12 | 5.89 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 12 | 5.89 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 12 | 5.89 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 12 | 5.89 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 12 | 5.89 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 10 | 5.89 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 10 | 5.89 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 10 | 5.89 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 15 | 5.89 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 5 | 5.89 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 5 | 5.89 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 1 | 5.89 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 1 | 5.89 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 1 | 5.89 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 19 | 5.89 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 19 | 5.89 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 8 | 5.89 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 8 | 5.89 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 4 | 5.89 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 8 | 5.89 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 8 | 5.89 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 8 | 5.89 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 1 | 5.89 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 15 | 5.89 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 15 | 5.89 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 15 | 5.89 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 15 | 5.89 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 15 | 5.89 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 15 | 5.89 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 18 | 5.89 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 7 | 5.89 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 7 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 7 | 5.89 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 13 | 5.89 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 13 | 5.89 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 13 | 5.89 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 9 | 5.89 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 4 | 5.89 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 5.89 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 5.89 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 5.89 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 9 | 5.89 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 9 | 5.89 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 9 | 5.89 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 7 | 5.89 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 10 | 5.89 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 15 | 5.89 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 15 | 5.89 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 15 | 5.89 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 18 | 5.89 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 18 | 5.89 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 18 | 5.89 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 8 | 5.89 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 8 | 5.89 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 8 | 5.89 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 20 | 5.89 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 20 | 5.89 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 20 | 5.89 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 16 | 5.89 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 16 | 5.89 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 16 | 5.89 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 8 | 5.89 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 8 | 5.89 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 8 | 5.89 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 8 | 5.89 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 8 | 5.89 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 8 | 5.89 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 1 | 5.89 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 1 | 5.89 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 1 | 5.89 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 5.89 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 17 | 5.89 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 1 | 5.89 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 1 | 5.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 1 | 5.89 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 1 | 5.89 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 1 | 5.89 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 1 | 5.89 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 19 | 5.88 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 5 | 5.88 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 20 | 5.88 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 6 | 5.88 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 6 | 5.88 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 12 | 5.88 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 10 | 5.88 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 10 | 5.88 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 10 | 5.88 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 10 | 5.88 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 10 | 5.88 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 10 | 5.88 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 8 | 5.88 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 8 | 5.88 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 8 | 5.88 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 8 | 5.88 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 8 | 5.88 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 8 | 5.88 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 6 | 5.88 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 6 | 5.88 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 6 | 5.88 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 6 | 5.88 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 6 | 5.88 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 6 | 5.88 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 8 | 5.88 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 8 | 5.88 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 8 | 5.88 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 8 | 5.88 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 8 | 5.88 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 8 | 5.88 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 2 | 5.88 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 2 | 5.88 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 3 | 5.88 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 3 | 5.88 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 2 | 5.88 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 2 | 5.88 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 2 | 5.88 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 2 | 5.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 2 | 5.88 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 2 | 5.88 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 5 | 5.88 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 5 | 5.88 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 4 | 5.88 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 4 | 5.88 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 4 | 5.88 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 4 | 5.88 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 16 | 5.88 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 16 | 5.88 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 16 | 5.88 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 16 | 5.88 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 6 | 5.88 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 6 | 5.88 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 9 | 5.88 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 9 | 5.88 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 15 | 5.88 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 15 | 5.88 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 4 | 5.88 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 4 | 5.88 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 4 | 5.88 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 4 | 5.88 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 4 | 5.88 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 4 | 5.88 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 6 | 5.88 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 6 | 5.88 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 11 | 5.88 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 11 | 5.88 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 20 | 5.88 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 20 | 5.88 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 4 | 5.88 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 4 | 5.88 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 6 | 5.88 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 6 | 5.88 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 6 | 5.88 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 6 | 5.88 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 16 | 5.88 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 16 | 5.88 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 5 | 5.88 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 5 | 5.88 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 5 | 5.88 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 5 | 5.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 5 | 5.88 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 5 | 5.88 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 19 | 5.88 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 19 | 5.88 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 19 | 5.88 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 14 | 5.88 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 14 | 5.88 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 14 | 5.88 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 7 | 5.88 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 7 | 5.88 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 7 | 5.88 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 11 | 5.88 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 11 | 5.88 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 11 | 5.88 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 2 | 5.88 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 2 | 5.88 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 2 | 5.88 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 9 | 5.88 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 9 | 5.88 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 9 | 5.88 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 9 | 5.88 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 9 | 5.88 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 9 | 5.88 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 9 | 5.88 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 9 | 5.88 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 9 | 5.88 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 9 | 5.88 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 9 | 5.88 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 9 | 5.88 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 4 | 5.88 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 4 | 5.88 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 4 | 5.88 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 10 | 5.88 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 10 | 5.88 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 18 | 5.88 |
| (1,8342) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 18 | 5.88 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 13 | 5.88 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 5 | 5.88 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 10 | 5.88 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 10 | 5.88 |
| (1,8212) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 5 | 5.88 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 8 | 5.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 13 | 5.88 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 13 | 5.88 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 13 | 5.88 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 6 | 5.88 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 6 | 5.88 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 6 | 5.88 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 11 | 5.88 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 11 | 5.88 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 11 | 5.88 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 10 | 5.88 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 10 | 5.88 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 10 | 5.88 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 14 | 5.88 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 14 | 5.88 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 14 | 5.88 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 18 | 5.88 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 18 | 5.88 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 18 | 5.88 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 13 | 5.88 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 8 | 5.88 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 8 | 5.88 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 8 | 5.88 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 8 | 5.88 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 8 | 5.88 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 8 | 5.88 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 8 | 5.88 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 8 | 5.88 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 8 | 5.88 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 8 | 5.88 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 8 | 5.88 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 8 | 5.88 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 15 | 5.88 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 15 | 5.88 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 15 | 5.88 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 18 | 5.88 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 18 | 5.88 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 18 | 5.88 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 19 | 5.88 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 19 | 5.88 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 19 | 5.88 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 9 | 5.88 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 9 | 5.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 9 | 5.88 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 9 | 5.88 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 6 | 5.88 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 18 | 5.88 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 18 | 5.88 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 18 | 5.88 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 16 | 5.88 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 16 | 5.88 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 12 | 5.88 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 12 | 5.88 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 12 | 5.88 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 2 | 5.88 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 2 | 5.88 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 2 | 5.88 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 2 | 5.88 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 8 | 5.88 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 19 | 5.88 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 9 | 5.88 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 14 | 5.88 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 14 | 5.88 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 14 | 5.88 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 20 | 5.88 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 20 | 5.88 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 20 | 5.88 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 18 | 5.88 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 18 | 5.88 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 18 | 5.88 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 18 | 5.88 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 18 | 5.88 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 18 | 5.88 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 10 | 5.88 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 8 | 5.88 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 11 | 5.88 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 11 | 5.88 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 3 | 5.88 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 7 | 5.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 7 | 5.88 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 7 | 5.88 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 14 | 5.88 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 13 | 5.88 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 13 | 5.88 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 13 | 5.88 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 7 | 5.88 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 7 | 5.88 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 7 | 5.88 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 9 | 5.88 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 9 | 5.88 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 9 | 5.88 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 8 | 5.88 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 8 | 5.88 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 8 | 5.88 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 14 | 5.88 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 14 | 5.88 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 14 | 5.88 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 1 | 5.88 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 1 | 5.88 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 1 | 5.88 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 18 | 5.88 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 18 | 5.88 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 18 | 5.88 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 12 | 5.88 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 12 | 5.88 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 12 | 5.88 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 11 | 5.88 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 11 | 5.88 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 3 | 5.88 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 16 | 5.88 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 10 | 5.88 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 10 | 5.88 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 10 | 5.88 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 10 | 5.88 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 10 | 5.88 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 10 | 5.88 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 14 | 5.88 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 6 | 5.88 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 6 | 5.88 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 6 | 5.88 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 6 | 5.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 6 | 5.88 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 6 | 5.88 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 3 | 5.88 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 3 | 5.88 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 3 | 5.88 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 8 | 5.88 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 8 | 5.88 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 8 | 5.88 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 8 | 5.88 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 8 | 5.88 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 8 | 5.88 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 2 | 5.88 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 2 | 5.88 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 6 | 5.88 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 1 | 5.88 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 5.88 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 4 | 5.88 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 15 | 5.88 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 8 | 5.88 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 5 | 5.88 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 6 | 5.88 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 6 | 5.88 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 19 | 5.88 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 4 | 5.88 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 4 | 5.88 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 4 | 5.88 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 4 | 5.88 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 4 | 5.88 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 4 | 5.88 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 6 | 5.88 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 6 | 5.88 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 4 | 5.88 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 4 | 5.88 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 10 | 5.88 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 10 | 5.88 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 10 | 5.88 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 18 | 5.88 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 18 | 5.88 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 18 | 5.88 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 18 | 5.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 18 | 5.88 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 18 | 5.88 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 18 | 5.88 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 18 | 5.88 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 10 | 5.88 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 8 | 5.88 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 11 | 5.88 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 11 | 5.88 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 3 | 5.88 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 7 | 5.88 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 7 | 5.88 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 7 | 5.88 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 14 | 5.88 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 1 | 5.88 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 5 | 5.88 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 15 | 5.88 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 15 | 5.88 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 4 | 5.88 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 13 | 5.88 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 13 | 5.88 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 13 | 5.88 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 17 | 5.88 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 17 | 5.88 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 17 | 5.88 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 13 | 5.88 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 13 | 5.88 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 13 | 5.88 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 9 | 5.88 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 9 | 5.88 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 7 | 5.88 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 7 | 5.88 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 7 | 5.88 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 9 | 5.88 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 9 | 5.88 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 9 | 5.88 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 8 | 5.88 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 8 | 5.88 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 8 | 5.88 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 13 | 5.88 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 13 | 5.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 5 | 5.88 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 5 | 5.88 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 5 | 5.88 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 17 | 5.88 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 3 | 5.88 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 14 | 5.88 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 14 | 5.88 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 14 | 5.88 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 1 | 5.88 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 1 | 5.88 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 1 | 5.88 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 19 | 5.87 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 9 | 5.87 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 9 | 5.87 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 3 | 5.87 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 3 | 5.87 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 3 | 5.87 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 3 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 1 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 1 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 1 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 1 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 1 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 1 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 18 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 18 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 18 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 18 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 18 | 5.87 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 18 | 5.87 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 17 | 5.87 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 17 | 5.87 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 19 | 5.87 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 19 | 5.87 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 20 | 5.87 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 20 | 5.87 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 15 | 5.87 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 15 | 5.87 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 15 | 5.87 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 15 | 5.87 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 12 | 5.87 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 12 | 5.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 11 | 5.87 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 11 | 5.87 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 12 | 5.87 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 12 | 5.87 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 10 | 5.87 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 10 | 5.87 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 10 | 5.87 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 10 | 5.87 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 10 | 5.87 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 10 | 5.87 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 13 | 5.87 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 13 | 5.87 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 13 | 5.87 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 13 | 5.87 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 11 | 5.87 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 11 | 5.87 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 20 | 5.87 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 20 | 5.87 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 18 | 5.87 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 18 | 5.87 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 11 | 5.87 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 11 | 5.87 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 12 | 5.87 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 12 | 5.87 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 19 | 5.87 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 19 | 5.87 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 19 | 5.87 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 19 | 5.87 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 19 | 5.87 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 19 | 5.87 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 10 | 5.87 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 10 | 5.87 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 2 | 5.87 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 2 | 5.87 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 2 | 5.87 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 2 | 5.87 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 15 | 5.87 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 15 | 5.87 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 16 | 5.87 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 16 | 5.87 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 16 | 5.87 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 16 | 5.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 17 | 5.87 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 17 | 5.87 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 17 | 5.87 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 17 | 5.87 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 1 | 5.87 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 1 | 5.87 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 1 | 5.87 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 1 | 5.87 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 6 | 5.87 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 6 | 5.87 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 11 | 5.87 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 11 | 5.87 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 11 | 5.87 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 20 | 5.87 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 20 | 5.87 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 20 | 5.87 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 8 | 5.87 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 15 | 5.87 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 15 | 5.87 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 15 | 5.87 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 15 | 5.87 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 15 | 5.87 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 15 | 5.87 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 1 | 5.87 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 1 | 5.87 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 1 | 5.87 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 14 | 5.87 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 14 | 5.87 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 14 | 5.87 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 3 | 5.87 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 3 | 5.87 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 16 | 5.87 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 16 | 5.87 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 16 | 5.87 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 16 | 5.87 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 15 | 5.87 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 15 | 5.87 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 15 | 5.87 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 7 | 5.87 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 16 | 5.87 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 16 | 5.87 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 19 | 5.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 19 | 5.87 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 12 | 5.87 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 6 | 5.87 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 6 | 5.87 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 19 | 5.87 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 19 | 5.87 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 19 | 5.87 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 17 | 5.87 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 17 | 5.87 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 17 | 5.87 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 8 | 5.87 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 8 | 5.87 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 8 | 5.87 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 3 | 5.87 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 3 | 5.87 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 3 | 5.87 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 2 | 5.87 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 3 | 5.87 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 3 | 5.87 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 3 | 5.87 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 5 | 5.87 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 4 | 5.87 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 7 | 5.87 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 7 | 5.87 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 11 | 5.87 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 8 | 5.87 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 8 | 5.87 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 14 | 5.87 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 14 | 5.87 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 4 | 5.87 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 19 | 5.87 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 19 | 5.87 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 19 | 5.87 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 12 | 5.87 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 12 | 5.87 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 12 | 5.87 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 14 | 5.87 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 3 | 5.87 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 4 | 5.87 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 15 | 5.87 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 6 | 5.87 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 13 | 5.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 13 | 5.87 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 13 | 5.87 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 14 | 5.87 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 14 | 5.87 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 9 | 5.87 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 9 | 5.87 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 9 | 5.87 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 1 | 5.87 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 1 | 5.87 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 18 | 5.87 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 18 | 5.87 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 18 | 5.87 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 10 | 5.87 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 10 | 5.87 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 10 | 5.87 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 3 | 5.87 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 11 | 5.87 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 5 | 5.87 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 5 | 5.87 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 14 | 5.87 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 18 | 5.87 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 9 | 5.87 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 9 | 5.87 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 9 | 5.87 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 9 | 5.87 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 12 | 5.87 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 12 | 5.87 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 10 | 5.87 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 10 | 5.87 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 10 | 5.87 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 13 | 5.87 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 13 | 5.87 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 13 | 5.87 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 9 | 5.87 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 9 | 5.87 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 9 | 5.87 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 9 | 5.87 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 9 | 5.87 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 9 | 5.87 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 12 | 5.87 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 12 | 5.87 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 12 | 5.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 8 | 5.87 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 8 | 5.87 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 8 | 5.87 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 20 | 5.87 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 20 | 5.87 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 20 | 5.87 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 15 | 5.87 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 15 | 5.87 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 16 | 5.87 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 16 | 5.87 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 16 | 5.87 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 16 | 5.87 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 16 | 5.87 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 16 | 5.87 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 9 | 5.87 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 7 | 5.87 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 7 | 5.87 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 7 | 5.87 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 17 | 5.87 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 17 | 5.87 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 17 | 5.87 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 17 | 5.87 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 17 | 5.87 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 17 | 5.87 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 16 | 5.87 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 16 | 5.87 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 16 | 5.87 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 15 | 5.87 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 15 | 5.87 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 15 | 5.87 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 5 | 5.87 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 5 | 5.87 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 5 | 5.87 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 14 | 5.87 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 14 | 5.87 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 14 | 5.87 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 1 | 5.87 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 1 | 5.87 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 6 | 5.87 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 6 | 5.87 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 12 | 5.87 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 15 | 5.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 15 | 5.87 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 15 | 5.87 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 15 | 5.87 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 15 | 5.87 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 15 | 5.87 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 7 | 5.87 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 7 | 5.87 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 7 | 5.87 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 7 | 5.87 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 13 | 5.87 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 13 | 5.87 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 16 | 5.87 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 5.87 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 17 | 5.87 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 12 | 5.87 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 12 | 5.87 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 13 | 5.87 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 13 | 5.87 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 19 | 5.87 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 11 | 5.87 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 11 | 5.87 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 8 | 5.87 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 11 | 5.87 |
| (1,3930) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 4 | 5.87 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 11 | 5.87 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 11 | 5.87 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 19 | 5.87 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 19 | 5.87 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 19 | 5.87 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 19 | 5.87 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 19 | 5.87 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 19 | 5.87 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 19 | 5.87 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 19 | 5.87 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 19 | 5.87 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 2 | 5.87 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 2 | 5.87 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 2 | 5.87 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 2 | 5.87 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 17 | 5.87 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 17 | 5.87 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 17 | 5.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 17 | 5.87 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 5.87 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 5.87 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 18 | 5.87 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 18 | 5.87 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 18 | 5.87 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 10 | 5.87 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 10 | 5.87 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 10 | 5.87 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 3 | 5.87 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 11 | 5.87 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 5 | 5.87 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 5 | 5.87 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 14 | 5.87 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 18 | 5.87 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 9 | 5.87 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 9 | 5.87 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 9 | 5.87 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 9 | 5.87 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 12 | 5.87 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 12 | 5.87 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 10 | 5.87 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 10 | 5.87 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 10 | 5.87 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 2 | 5.87 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 2 | 5.87 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 2 | 5.87 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 2 | 5.87 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 13 | 5.87 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 13 | 5.87 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 13 | 5.87 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 9 | 5.87 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 9 | 5.87 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 9 | 5.87 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 9 | 5.87 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 9 | 5.87 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 9 | 5.87 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 9 | 5.87 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 12 | 5.87 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 12 | 5.87 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 12 | 5.87 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 2 | 5.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 8 | 5.87 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 8 | 5.87 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 8 | 5.87 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 12 | 5.87 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 12 | 5.87 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 12 | 5.87 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 20 | 5.87 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 20 | 5.87 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 20 | 5.87 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 15 | 5.87 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 15 | 5.87 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 16 | 5.87 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 16 | 5.87 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 16 | 5.87 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 16 | 5.87 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 16 | 5.87 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 16 | 5.87 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 9 | 5.87 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 14 | 5.87 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 11 | 5.87 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 11 | 5.87 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 11 | 5.87 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 11 | 5.87 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 7 | 5.87 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 7 | 5.87 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 7 | 5.87 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 17 | 5.87 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 17 | 5.87 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 17 | 5.87 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 17 | 5.87 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 17 | 5.87 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 17 | 5.87 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 18 | 5.86 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 8 | 5.86 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 11 | 5.86 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 14 | 5.86 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 10 | 5.86 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 10 | 5.86 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 10 | 5.86 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 10 | 5.86 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 10 | 5.86 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 10 | 5.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 1 | 5.86 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 1 | 5.86 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 16 | 5.86 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 16 | 5.86 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 9 | 5.86 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 9 | 5.86 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 9 | 5.86 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 9 | 5.86 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 1 | 5.86 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 1 | 5.86 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 19 | 5.86 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 19 | 5.86 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 19 | 5.86 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 19 | 5.86 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 4 | 5.86 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 4 | 5.86 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 4 | 5.86 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 4 | 5.86 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 4 | 5.86 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 4 | 5.86 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 13 | 5.86 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 13 | 5.86 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 17 | 5.86 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 17 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 11 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 11 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 11 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 11 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 11 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 11 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 13 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 13 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 13 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 13 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 13 | 5.86 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 13 | 5.86 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 18 | 5.86 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 18 | 5.86 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 7 | 5.86 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 7 | 5.86 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 11 | 5.86 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 11 | 5.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 11 | 5.86 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 11 | 5.86 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 11 | 5.86 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 11 | 5.86 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 11 | 5.86 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 11 | 5.86 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 3 | 5.86 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 3 | 5.86 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 5 | 5.86 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 5 | 5.86 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 12 | 5.86 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 12 | 5.86 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 12 | 5.86 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 4 | 5.86 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 4 | 5.86 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 4 | 5.86 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 13 | 5.86 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 2 | 5.86 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 2 | 5.86 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 2 | 5.86 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 18 | 5.86 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 18 | 5.86 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 18 | 5.86 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 20 | 5.86 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 20 | 5.86 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 20 | 5.86 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 9 | 5.86 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 9 | 5.86 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 12 | 5.86 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 15 | 5.86 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 15 | 5.86 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 15 | 5.86 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 14 | 5.86 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 14 | 5.86 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 14 | 5.86 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 7 | 5.86 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 7 | 5.86 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 7 | 5.86 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 19 | 5.86 |
| (1,8312) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 18 | 5.86 |
| (1,8312) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 18 | 5.86 |
| (1,8312) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 18 | 5.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 2 | 5.86 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 2 | 5.86 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 2 | 5.86 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 2 | 5.86 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 2 | 5.86 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 2 | 5.86 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 8 | 5.86 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 1 | 5.86 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 3 | 5.86 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 3 | 5.86 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 3 | 5.86 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 10 | 5.86 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 11 | 5.86 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 18 | 5.86 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 18 | 5.86 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 9 | 5.86 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 9 | 5.86 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 9 | 5.86 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 7 | 5.86 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 7 | 5.86 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 7 | 5.86 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 1 | 5.86 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 3 | 5.86 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 6 | 5.86 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 9 | 5.86 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 4 | 5.86 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 3 | 5.86 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 3 | 5.86 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 3 | 5.86 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 6 | 5.86 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 6 | 5.86 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 6 | 5.86 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 6 | 5.86 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 6 | 5.86 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 6 | 5.86 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 6 | 5.86 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 6 | 5.86 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 6 | 5.86 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 3 | 5.86 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 3 | 5.86 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 3 | 5.86 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 18 | 5.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 18 | 5.86 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 18 | 5.86 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 10 | 5.86 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 10 | 5.86 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 10 | 5.86 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 10 | 5.86 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 10 | 5.86 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 10 | 5.86 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 10 | 5.86 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 10 | 5.86 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 10 | 5.86 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 10 | 5.86 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 14 | 5.86 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 14 | 5.86 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 14 | 5.86 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 14 | 5.86 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 14 | 5.86 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 11 | 5.86 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 9 | 5.86 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 20 | 5.86 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 3 | 5.86 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 2 | 5.86 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 2 | 5.86 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 2 | 5.86 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 9 | 5.86 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 9 | 5.86 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 1 | 5.86 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 1 | 5.86 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 10 | 5.86 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 10 | 5.86 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 1 | 5.86 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 12 | 5.86 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 12 | 5.86 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 12 | 5.86 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 12 | 5.86 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 12 | 5.86 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 12 | 5.86 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 8 | 5.86 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 8 | 5.86 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 8 | 5.86 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 8 | 5.86 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 8 | 5.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 8 | 5.86 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 3 | 5.86 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 3 | 5.86 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 3 | 5.86 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 20 | 5.86 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 20 | 5.86 |
| (1,7232) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 20 | 5.86 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 2 | 5.86 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 2 | 5.86 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 2 | 5.86 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 16 | 5.86 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 12 | 5.86 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 12 | 5.86 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 12 | 5.86 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 13 | 5.86 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 2 | 5.86 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 20 | 5.86 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 20 | 5.86 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 8 | 5.86 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 8 | 5.86 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 8 | 5.86 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 1 | 5.86 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 4 | 5.86 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 20 | 5.86 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 13 | 5.86 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 20 | 5.86 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 20 | 5.86 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 20 | 5.86 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 4 | 5.86 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 15 | 5.86 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 15 | 5.86 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 15 | 5.86 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 6 | 5.86 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 6 | 5.86 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 6 | 5.86 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 18 | 5.86 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 7 | 5.86 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 7 | 5.86 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 7 | 5.86 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 15 | 5.86 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 15 | 5.86 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 4 | 5.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 4 | 5.86 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 4 | 5.86 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 4 | 5.86 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 4 | 5.86 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 4 | 5.86 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 5 | 5.86 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 5 | 5.86 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 5 | 5.86 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 13 | 5.86 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 13 | 5.86 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 13 | 5.86 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 4 | 5.86 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 14 | 5.86 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 14 | 5.86 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 14 | 5.86 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 20 | 5.86 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 20 | 5.86 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 20 | 5.86 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 16 | 5.86 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 16 | 5.86 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 16 | 5.86 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 5 | 5.86 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 5 | 5.86 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 5 | 5.86 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 2 | 5.86 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 2 | 5.86 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 2 | 5.86 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 5 | 5.86 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 7 | 5.86 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 8 | 5.86 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 8 | 5.86 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 8 | 5.86 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 5 | 5.86 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 5 | 5.86 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 6 | 5.86 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 6 | 5.86 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 1 | 5.86 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 1 | 5.86 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 1 | 5.86 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 11 | 5.86 |
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 5 | 5.86 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 5 | 5.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 5 | 5.86 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 20 | 5.86 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 10 | 5.86 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 10 | 5.86 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 10 | 5.86 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 10 | 5.86 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 10 | 5.86 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 10 | 5.86 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 17 | 5.86 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 6 | 5.86 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 19 | 5.86 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 14 | 5.86 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 18 | 5.86 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 18 | 5.86 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 18 | 5.86 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 1 | 5.86 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 1 | 5.86 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 5 | 5.86 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 19 | 5.86 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 15 | 5.86 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 17 | 5.86 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 17 | 5.86 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 12 | 5.86 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 12 | 5.86 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 12 | 5.86 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 18 | 5.86 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 18 | 5.86 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 1 | 5.86 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 1 | 5.86 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 1 | 5.86 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 11 | 5.86 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 11 | 5.86 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 11 | 5.86 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 11 | 5.86 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 11 | 5.86 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 11 | 5.86 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 11 | 5.86 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 11 | 5.86 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 11 | 5.86 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 15 | 5.86 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 15 | 5.86 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 15 | 5.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 1 | 5.86 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 20 | 5.86 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 20 | 5.86 |
| (1,3428) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 20 | 5.86 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 7 | 5.86 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 7 | 5.86 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 2 | 5.86 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 2 | 5.86 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 2 | 5.86 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 16 | 5.86 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 12 | 5.86 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 12 | 5.86 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 12 | 5.86 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 13 | 5.86 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 2 | 5.86 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 20 | 5.86 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 20 | 5.86 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 12 | 5.86 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 12 | 5.86 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 12 | 5.86 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 8 | 5.86 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 8 | 5.86 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 8 | 5.86 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 19 | 5.86 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 19 | 5.86 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 19 | 5.86 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 1 | 5.86 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 4 | 5.86 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 20 | 5.86 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 13 | 5.86 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 15 | 5.86 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 20 | 5.86 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 20 | 5.86 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 20 | 5.86 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 15 | 5.86 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 15 | 5.86 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 15 | 5.86 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 6 | 5.86 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 6 | 5.86 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 6 | 5.86 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 18 | 5.86 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 7 | 5.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 7 | 5.86 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 7 | 5.86 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 15 | 5.86 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 15 | 5.86 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 4 | 5.86 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 4 | 5.86 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 4 | 5.86 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 4 | 5.86 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 4 | 5.86 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 4 | 5.86 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 19 | 5.86 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 19 | 5.86 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 19 | 5.86 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 5 | 5.86 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 5 | 5.86 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 5 | 5.86 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 13 | 5.86 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 13 | 5.86 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 13 | 5.86 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 4 | 5.86 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 14 | 5.86 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 14 | 5.86 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 14 | 5.86 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 13 | 5.86 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 13 | 5.86 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 14 | 5.86 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 14 | 5.86 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 14 | 5.86 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 20 | 5.86 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 20 | 5.86 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 20 | 5.86 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 11 | 5.86 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 10 | 5.86 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 16 | 5.86 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 9 | 5.85 |
| (4,100) | 1:15:A:MET:CB | 1:161:A:ARG:H | 20 | 5.85 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 13 | 5.85 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 13 | 5.85 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 5 | 5.85 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 5 | 5.85 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 5 | 5.85 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 5 | 5.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 5 | 5.85 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 5 | 5.85 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 5 | 5.85 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 5 | 5.85 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 5 | 5.85 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 5 | 5.85 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 12 | 5.85 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 12 | 5.85 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 12 | 5.85 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 12 | 5.85 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 12 | 5.85 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 12 | 5.85 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 3 | 5.85 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 3 | 5.85 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 4 | 5.85 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 4 | 5.85 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 17 | 5.85 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 17 | 5.85 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 7 | 5.85 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 7 | 5.85 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 18 | 5.85 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 18 | 5.85 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 13 | 5.85 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 13 | 5.85 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 13 | 5.85 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 13 | 5.85 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 13 | 5.85 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 13 | 5.85 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 7 | 5.85 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 7 | 5.85 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 6 | 5.85 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 6 | 5.85 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 19 | 5.85 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 19 | 5.85 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 10 | 5.85 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 10 | 5.85 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 10 | 5.85 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 10 | 5.85 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 20 | 5.85 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 20 | 5.85 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 8 | 5.85 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 8 | 5.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 8 | 5.85 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 8 | 5.85 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 8 | 5.85 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 8 | 5.85 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 18 | 5.85 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 18 | 5.85 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 5 | 5.85 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 5 | 5.85 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 15 | 5.85 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 15 | 5.85 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 3 | 5.85 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 3 | 5.85 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 3 | 5.85 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 3 | 5.85 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 14 | 5.85 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 14 | 5.85 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 7 | 5.85 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 7 | 5.85 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 7 | 5.85 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 7 | 5.85 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 11 | 5.85 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 11 | 5.85 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 11 | 5.85 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 11 | 5.85 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 13 | 5.85 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 13 | 5.85 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 13 | 5.85 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 6 | 5.85 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 6 | 5.85 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 6 | 5.85 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 4 | 5.85 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 4 | 5.85 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 4 | 5.85 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 9 | 5.85 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 9 | 5.85 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 9 | 5.85 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 18 | 5.85 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 16 | 5.85 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 16 | 5.85 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 16 | 5.85 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 11 | 5.85 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 11 | 5.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 11 | 5.85 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 3 | 5.85 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 3 | 5.85 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 3 | 5.85 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 8 | 5.85 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 8 | 5.85 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 8 | 5.85 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 7 | 5.85 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 12 | 5.85 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 12 | 5.85 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 13 | 5.85 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 13 | 5.85 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 13 | 5.85 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 13 | 5.85 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 13 | 5.85 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 13 | 5.85 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 17 | 5.85 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 17 | 5.85 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 17 | 5.85 |
| (1,7858) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 10 | 5.85 |
| (1,7858) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 10 | 5.85 |
| (1,7858) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 10 | 5.85 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 10 | 5.85 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 10 | 5.85 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 10 | 5.85 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 9 | 5.85 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 9 | 5.85 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 9 | 5.85 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 9 | 5.85 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 9 | 5.85 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 9 | 5.85 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 9 | 5.85 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 9 | 5.85 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 9 | 5.85 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 10 | 5.85 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 16 | 5.85 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 2 | 5.85 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 2 | 5.85 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 14 | 5.85 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 14 | 5.85 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 9 | 5.85 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 9 | 5.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 14 | 5.85 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 14 | 5.85 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 15 | 5.85 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 15 | 5.85 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 7 | 5.85 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 7 | 5.85 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 7 | 5.85 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 1 | 5.85 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 1 | 5.85 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 1 | 5.85 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 1 | 5.85 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 1 | 5.85 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 1 | 5.85 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 14 | 5.85 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 14 | 5.85 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 14 | 5.85 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 20 | 5.85 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 2 | 5.85 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 2 | 5.85 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 2 | 5.85 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 11 | 5.85 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 11 | 5.85 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 19 | 5.85 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 20 | 5.85 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 20 | 5.85 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 20 | 5.85 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 20 | 5.85 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 20 | 5.85 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 20 | 5.85 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 15 | 5.85 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 4 | 5.85 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 4 | 5.85 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 4 | 5.85 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 20 | 5.85 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 20 | 5.85 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 20 | 5.85 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 15 | 5.85 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 15 | 5.85 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 15 | 5.85 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 15 | 5.85 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 15 | 5.85 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 15 | 5.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 15 | 5.85 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 15 | 5.85 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 15 | 5.85 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 13 | 5.85 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 13 | 5.85 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 13 | 5.85 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 10 | 5.85 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 10 | 5.85 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 10 | 5.85 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 1 | 5.85 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 6 | 5.85 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 13 | 5.85 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 13 | 5.85 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 13 | 5.85 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 6 | 5.85 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 6 | 5.85 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 6 | 5.85 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 3 | 5.85 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 3 | 5.85 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 3 | 5.85 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 19 | 5.85 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 19 | 5.85 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 19 | 5.85 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 11 | 5.85 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 11 | 5.85 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 11 | 5.85 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 13 | 5.85 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 20 | 5.85 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 8 | 5.85 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 8 | 5.85 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 8 | 5.85 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 6 | 5.85 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 6 | 5.85 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 6 | 5.85 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 6 | 5.85 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 5 | 5.85 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 5 | 5.85 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 5 | 5.85 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 5 | 5.85 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 12 | 5.85 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 12 | 5.85 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 12 | 5.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 12 | 5.85 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 12 | 5.85 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 12 | 5.85 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 4 | 5.85 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 4 | 5.85 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 4 | 5.85 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 4 | 5.85 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 15 | 5.85 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 8 | 5.85 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 14 | 5.85 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 7 | 5.85 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 11 | 5.85 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 5.85 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 13 | 5.85 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 13 | 5.85 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 13 | 5.85 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 13 | 5.85 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 13 | 5.85 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 13 | 5.85 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 18 | 5.85 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 18 | 5.85 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 4 | 5.85 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 12 | 5.85 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 12 | 5.85 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 12 | 5.85 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 2 | 5.85 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 14 | 5.85 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 14 | 5.85 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 16 | 5.85 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 7 | 5.85 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 7 | 5.85 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 7 | 5.85 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 1 | 5.85 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 1 | 5.85 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 1 | 5.85 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 1 | 5.85 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 1 | 5.85 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 1 | 5.85 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 14 | 5.85 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 14 | 5.85 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 14 | 5.85 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 18 | 5.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 2 | 5.85 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 2 | 5.85 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 2 | 5.85 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 11 | 5.85 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 11 | 5.85 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 19 | 5.85 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 20 | 5.85 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 20 | 5.85 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 20 | 5.85 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 20 | 5.85 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 20 | 5.85 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 20 | 5.85 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 10 | 5.85 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 10 | 5.85 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 10 | 5.85 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 16 | 5.85 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 16 | 5.85 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 20 | 5.85 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 20 | 5.85 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 20 | 5.85 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 15 | 5.85 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 15 | 5.85 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 15 | 5.85 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 15 | 5.85 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 15 | 5.85 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 15 | 5.85 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 15 | 5.85 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 15 | 5.85 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 15 | 5.85 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 5.85 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 5.85 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 5.85 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 13 | 5.85 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 13 | 5.85 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 13 | 5.85 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 13 | 5.85 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 10 | 5.85 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 10 | 5.85 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 10 | 5.85 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 9 | 5.85 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 9 | 5.85 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 9 | 5.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 5 | 5.85 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 5 | 5.85 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 5 | 5.85 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 10 | 5.85 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 10 | 5.85 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 10 | 5.85 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 1 | 5.85 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 6 | 5.85 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 13 | 5.85 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 13 | 5.85 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 13 | 5.85 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 8 | 5.84 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 15 | 5.84 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 8 | 5.84 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 19 | 5.84 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 19 | 5.84 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 1 | 5.84 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 1 | 5.84 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 1 | 5.84 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 1 | 5.84 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 13 | 5.84 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 13 | 5.84 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 4 | 5.84 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 4 | 5.84 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 9 | 5.84 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 9 | 5.84 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 9 | 5.84 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 9 | 5.84 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 20 | 5.84 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 20 | 5.84 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 20 | 5.84 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 20 | 5.84 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 9 | 5.84 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 9 | 5.84 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 9 | 5.84 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 9 | 5.84 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 9 | 5.84 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 9 | 5.84 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 18 | 5.84 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 18 | 5.84 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 14 | 5.84 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 14 | 5.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 13 | 5.84 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 13 | 5.84 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 5.84 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 20 | 5.84 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 6 | 5.84 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 6 | 5.84 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 6 | 5.84 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 6 | 5.84 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 6 | 5.84 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 6 | 5.84 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 14 | 5.84 |
| (1,8804) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 14 | 5.84 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 15 | 5.84 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 15 | 5.84 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 20 | 5.84 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 20 | 5.84 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 7 | 5.84 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 7 | 5.84 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 3 | 5.84 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 3 | 5.84 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 12 | 5.84 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 12 | 5.84 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 12 | 5.84 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 12 | 5.84 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 11 | 5.84 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 11 | 5.84 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 15 | 5.84 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 4 | 5.84 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 4 | 5.84 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 4 | 5.84 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 9 | 5.84 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 8 | 5.84 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 8 | 5.84 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 8 | 5.84 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 8 | 5.84 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 8 | 5.84 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 8 | 5.84 |
| (1,8249) | 1:116:A:ALA:H | 1:119:A:ARG:H | 10 | 5.84 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 15 | 5.84 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 14 | 5.84 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 14 | 5.84 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 14 | 5.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 15 | 5.84 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 9 | 5.84 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 9 | 5.84 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 9 | 5.84 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 10 | 5.84 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 10 | 5.84 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 17 | 5.84 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 17 | 5.84 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 20 | 5.84 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 20 | 5.84 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 1 | 5.84 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 1 | 5.84 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 1 | 5.84 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 17 | 5.84 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 1 | 5.84 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 1 | 5.84 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 1 | 5.84 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 20 | 5.84 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 20 | 5.84 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 20 | 5.84 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 20 | 5.84 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 20 | 5.84 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 1 | 5.84 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 1 | 5.84 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 1 | 5.84 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 1 | 5.84 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 1 | 5.84 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 1 | 5.84 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 1 | 5.84 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 1 | 5.84 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 1 | 5.84 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 8 | 5.84 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 8 | 5.84 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 8 | 5.84 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 3 | 5.84 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 9 | 5.84 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 9 | 5.84 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 9 | 5.84 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 2 | 5.84 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 2 | 5.84 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 9 | 5.84 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 9 | 5.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7520) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 3 | 5.84 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 8 | 5.84 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 8 | 5.84 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 8 | 5.84 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 8 | 5.84 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 18 | 5.84 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 20 | 5.84 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 14 | 5.84 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 14 | 5.84 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 14 | 5.84 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 11 | 5.84 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 11 | 5.84 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 11 | 5.84 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 12 | 5.84 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 12 | 5.84 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 12 | 5.84 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 18 | 5.84 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 18 | 5.84 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 17 | 5.84 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 17 | 5.84 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 1 | 5.84 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 6 | 5.84 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 6 | 5.84 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 13 | 5.84 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 8 | 5.84 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 11 | 5.84 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 19 | 5.84 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 19 | 5.84 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 19 | 5.84 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 18 | 5.84 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 18 | 5.84 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 18 | 5.84 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 8 | 5.84 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 15 | 5.84 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 15 | 5.84 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 15 | 5.84 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 15 | 5.84 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 15 | 5.84 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 15 | 5.84 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 4 | 5.84 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 4 | 5.84 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 4 | 5.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 17 | 5.84 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 4 | 5.84 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 4 | 5.84 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 11 | 5.84 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 11 | 5.84 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 15 | 5.84 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 15 | 5.84 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 15 | 5.84 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 14 | 5.84 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 14 | 5.84 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 14 | 5.84 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 2 | 5.84 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 20 | 5.84 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 20 | 5.84 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 10 | 5.84 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 10 | 5.84 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 10 | 5.84 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 5 | 5.84 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 5 | 5.84 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 5 | 5.84 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 15 | 5.84 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 15 | 5.84 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 15 | 5.84 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 11 | 5.84 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 11 | 5.84 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 11 | 5.84 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 6 | 5.84 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 19 | 5.84 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 19 | 5.84 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 5 | 5.84 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 5 | 5.84 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 1 | 5.84 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 1 | 5.84 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 1 | 5.84 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 1 | 5.84 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 14 | 5.84 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 14 | 5.84 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 10 | 5.84 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 12 | 5.84 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 12 | 5.84 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 12 | 5.84 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 17 | 5.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 9 | 5.84 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 9 | 5.84 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 9 | 5.84 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 9 | 5.84 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 9 | 5.84 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 9 | 5.84 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 13 | 5.84 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 14 | 5.84 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 14 | 5.84 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 13 | 5.84 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 13 | 5.84 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 5.84 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 20 | 5.84 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 17 | 5.84 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 6 | 5.84 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 6 | 5.84 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 6 | 5.84 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 6 | 5.84 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 6 | 5.84 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 6 | 5.84 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 6 | 5.84 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 6 | 5.84 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 6 | 5.84 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 15 | 5.84 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 18 | 5.84 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 18 | 5.84 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 18 | 5.84 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 3 | 5.84 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 3 | 5.84 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 2 | 5.84 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 18 | 5.84 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 2 | 5.84 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 2 | 5.84 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 9 | 5.84 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 9 | 5.84 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 10 | 5.84 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 2 | 5.84 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 17 | 5.84 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 17 | 5.84 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 12 | 5.84 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 12 | 5.84 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 1 | 5.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 6 | 5.84 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 6 | 5.84 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 13 | 5.84 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 8 | 5.84 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 11 | 5.84 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 19 | 5.84 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 19 | 5.84 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 19 | 5.84 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 18 | 5.84 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 18 | 5.84 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 18 | 5.84 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 13 | 5.84 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 2 | 5.84 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 8 | 5.84 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 8 | 5.84 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 8 | 5.84 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 8 | 5.84 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 15 | 5.84 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 15 | 5.84 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 15 | 5.84 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 15 | 5.84 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 15 | 5.84 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 15 | 5.84 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 4 | 5.84 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 4 | 5.84 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 4 | 5.84 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 17 | 5.84 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 4 | 5.84 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 4 | 5.84 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 11 | 5.84 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 2 | 5.84 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 2 | 5.84 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 7 | 5.84 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 7 | 5.84 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 7 | 5.84 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 11 | 5.84 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 6 | 5.84 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 12 | 5.83 |
| (4,195) | 1:131:A:GLN:CB | 1:24:A:TYR:H | 20 | 5.83 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 19 | 5.83 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 9 | 5.83 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 16 | 5.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 1 | 5.83 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 12 | 5.83 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 12 | 5.83 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 12 | 5.83 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 12 | 5.83 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 12 | 5.83 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 12 | 5.83 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 14 | 5.83 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 14 | 5.83 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 6 | 5.83 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 6 | 5.83 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 9 | 5.83 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 9 | 5.83 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 6 | 5.83 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 6 | 5.83 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 6 | 5.83 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 6 | 5.83 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 10 | 5.83 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 10 | 5.83 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 18 | 5.83 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 18 | 5.83 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 18 | 5.83 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 18 | 5.83 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 18 | 5.83 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 18 | 5.83 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 12 | 5.83 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 12 | 5.83 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 13 | 5.83 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 13 | 5.83 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 5 | 5.83 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 5 | 5.83 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 5.83 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 20 | 5.83 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 6 | 5.83 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 6 | 5.83 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 6 | 5.83 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 6 | 5.83 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 6 | 5.83 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 6 | 5.83 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 6 | 5.83 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 6 | 5.83 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 17 | 5.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 17 | 5.83 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 11 | 5.83 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 11 | 5.83 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 11 | 5.83 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 11 | 5.83 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 11 | 5.83 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 11 | 5.83 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 2 | 5.83 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 2 | 5.83 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 2 | 5.83 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 2 | 5.83 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 2 | 5.83 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 2 | 5.83 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 12 | 5.83 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 12 | 5.83 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 4 | 5.83 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 4 | 5.83 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 7 | 5.83 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 7 | 5.83 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 7 | 5.83 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 7 | 5.83 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 7 | 5.83 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 7 | 5.83 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 9 | 5.83 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 9 | 5.83 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 19 | 5.83 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 19 | 5.83 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 19 | 5.83 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 19 | 5.83 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 19 | 5.83 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 19 | 5.83 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 2 | 5.83 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 14 | 5.83 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 12 | 5.83 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 20 | 5.83 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 20 | 5.83 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 20 | 5.83 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 1 | 5.83 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 2 | 5.83 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 12 | 5.83 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 12 | 5.83 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 12 | 5.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 4 | 5.83 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 4 | 5.83 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 9 | 5.83 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 9 | 5.83 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 9 | 5.83 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 2 | 5.83 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 14 | 5.83 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 13 | 5.83 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 13 | 5.83 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 8 | 5.83 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 1 | 5.83 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 1 | 5.83 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 1 | 5.83 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 19 | 5.83 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 3 | 5.83 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 3 | 5.83 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 3 | 5.83 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 14 | 5.83 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 14 | 5.83 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 14 | 5.83 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 13 | 5.83 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 13 | 5.83 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 13 | 5.83 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 13 | 5.83 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 13 | 5.83 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 13 | 5.83 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 13 | 5.83 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 13 | 5.83 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 13 | 5.83 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 17 | 5.83 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 5 | 5.83 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 5 | 5.83 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 5 | 5.83 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 20 | 5.83 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 20 | 5.83 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 6 | 5.83 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 5 | 5.83 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 10 | 5.83 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 10 | 5.83 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 10 | 5.83 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 10 | 5.83 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 10 | 5.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 10 | 5.83 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 14 | 5.83 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 10 | 5.83 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 5 | 5.83 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 20 | 5.83 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 19 | 5.83 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 19 | 5.83 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 19 | 5.83 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 19 | 5.83 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 19 | 5.83 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 19 | 5.83 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 3 | 5.83 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 3 | 5.83 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 6 | 5.83 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 6 | 5.83 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 6 | 5.83 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 18 | 5.83 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 18 | 5.83 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 18 | 5.83 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 3 | 5.83 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 3 | 5.83 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 6 | 5.83 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 6 | 5.83 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 6 | 5.83 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 3 | 5.83 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 3 | 5.83 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 3 | 5.83 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 12 | 5.83 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 12 | 5.83 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 12 | 5.83 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 18 | 5.83 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 20 | 5.83 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 20 | 5.83 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 20 | 5.83 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 12 | 5.83 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 12 | 5.83 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 12 | 5.83 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 10 | 5.83 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 11 | 5.83 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 11 | 5.83 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 11 | 5.83 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 12 | 5.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 12 | 5.83 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 12 | 5.83 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 19 | 5.83 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 19 | 5.83 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 19 | 5.83 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 20 | 5.83 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 20 | 5.83 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 20 | 5.83 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 12 | 5.83 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 12 | 5.83 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 12 | 5.83 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 18 | 5.83 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 14 | 5.83 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 7 | 5.83 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 7 | 5.83 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 7 | 5.83 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 8 | 5.83 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 12 | 5.83 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 12 | 5.83 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 12 | 5.83 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 12 | 5.83 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 12 | 5.83 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 12 | 5.83 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 10 | 5.83 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 10 | 5.83 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 10 | 5.83 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 10 | 5.83 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 10 | 5.83 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 10 | 5.83 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 10 | 5.83 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 10 | 5.83 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 5.83 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 5.83 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 5.83 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 9 | 5.83 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 18 | 5.83 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 18 | 5.83 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 18 | 5.83 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 18 | 5.83 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 18 | 5.83 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 18 | 5.83 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 3 | 5.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 13 | 5.83 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 13 | 5.83 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 5.83 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 20 | 5.83 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 15 | 5.83 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 11 | 5.83 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 11 | 5.83 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 11 | 5.83 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 11 | 5.83 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 11 | 5.83 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 11 | 5.83 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 2 | 5.83 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 2 | 5.83 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 2 | 5.83 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 2 | 5.83 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 2 | 5.83 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 2 | 5.83 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 19 | 5.83 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 12 | 5.83 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 12 | 5.83 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 4 | 5.83 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 4 | 5.83 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 7 | 5.83 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 7 | 5.83 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 7 | 5.83 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 7 | 5.83 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 7 | 5.83 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 7 | 5.83 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 5 | 5.83 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 14 | 5.83 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 14 | 5.83 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 14 | 5.83 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 14 | 5.83 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 3 | 5.83 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 3 | 5.83 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 6 | 5.83 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 6 | 5.83 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 6 | 5.83 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 18 | 5.83 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 18 | 5.83 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 18 | 5.83 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 3 | 5.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 3 | 5.83 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 5.83 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 16 | 5.83 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 16 | 5.83 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 16 | 5.83 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 6 | 5.83 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 6 | 5.83 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 6 | 5.83 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 5.83 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 5.83 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 3 | 5.83 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 3 | 5.83 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 3 | 5.83 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 12 | 5.83 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 12 | 5.83 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 12 | 5.83 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 18 | 5.83 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 20 | 5.83 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 20 | 5.83 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 20 | 5.83 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 12 | 5.83 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 12 | 5.83 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 12 | 5.83 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 5 | 5.83 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 5 | 5.83 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 5 | 5.83 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 10 | 5.83 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 11 | 5.83 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 11 | 5.83 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 11 | 5.83 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 12 | 5.83 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 12 | 5.83 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 12 | 5.83 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 3 | 5.83 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 9 | 5.82 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 6 | 5.82 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 6 | 5.82 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 6 | 5.82 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 6 | 5.82 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 6 | 5.82 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 6 | 5.82 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 17 | 5.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 17 | 5.82 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 17 | 5.82 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 17 | 5.82 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 3 | 5.82 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 3 | 5.82 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 3 | 5.82 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 3 | 5.82 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 15 | 5.82 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 15 | 5.82 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 15 | 5.82 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 15 | 5.82 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 15 | 5.82 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 15 | 5.82 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 11 | 5.82 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 11 | 5.82 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 9 | 5.82 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 9 | 5.82 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 10 | 5.82 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 10 | 5.82 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 2 | 5.82 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 2 | 5.82 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 4 | 5.82 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 4 | 5.82 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 4 | 5.82 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 4 | 5.82 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 9 | 5.82 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 9 | 5.82 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 9 | 5.82 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 9 | 5.82 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 20 | 5.82 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 20 | 5.82 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 4 | 5.82 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 4 | 5.82 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 4 | 5.82 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 4 | 5.82 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 7 | 5.82 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 7 | 5.82 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 7 | 5.82 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 7 | 5.82 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 13 | 5.82 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 13 | 5.82 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 19 | 5.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 19 | 5.82 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 19 | 5.82 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 8 | 5.82 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 8 | 5.82 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 8 | 5.82 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 7 | 5.82 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 7 | 5.82 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 7 | 5.82 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 8 | 5.82 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 11 | 5.82 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 11 | 5.82 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 11 | 5.82 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 8 | 5.82 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 5 | 5.82 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 5 | 5.82 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 5 | 5.82 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 6 | 5.82 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 6 | 5.82 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 15 | 5.82 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 15 | 5.82 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 15 | 5.82 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 6 | 5.82 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 6 | 5.82 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 6 | 5.82 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 1 | 5.82 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 1 | 5.82 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 1 | 5.82 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 15 | 5.82 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 15 | 5.82 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 15 | 5.82 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 1 | 5.82 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 1 | 5.82 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 12 | 5.82 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 12 | 5.82 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 7 | 5.82 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 6 | 5.82 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 9 | 5.82 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 9 | 5.82 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 9 | 5.82 |
| (1,7989) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 12 | 5.82 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 3 | 5.82 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 18 | 5.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 18 | 5.82 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 18 | 5.82 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 9 | 5.82 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 20 | 5.82 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 3 | 5.82 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 3 | 5.82 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 3 | 5.82 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 20 | 5.82 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 20 | 5.82 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 6 | 5.82 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 1 | 5.82 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 1 | 5.82 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 1 | 5.82 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 1 | 5.82 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 1 | 5.82 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 1 | 5.82 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 1 | 5.82 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 1 | 5.82 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 1 | 5.82 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 7 | 5.82 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 7 | 5.82 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 7 | 5.82 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 11 | 5.82 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 11 | 5.82 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 11 | 5.82 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 5 | 5.82 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 20 | 5.82 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 20 | 5.82 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 20 | 5.82 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 11 | 5.82 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 7 | 5.82 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 7 | 5.82 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 7 | 5.82 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 1 | 5.82 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 1 | 5.82 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 13 | 5.82 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 13 | 5.82 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 11 | 5.82 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 6 | 5.82 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 15 | 5.82 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 15 | 5.82 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 15 | 5.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 4 | 5.82 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 4 | 5.82 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 13 | 5.82 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 13 | 5.82 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 2 | 5.82 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 9 | 5.82 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 9 | 5.82 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 9 | 5.82 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 9 | 5.82 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 11 | 5.82 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 16 | 5.82 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 6 | 5.82 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 6 | 5.82 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 6 | 5.82 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 14 | 5.82 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 19 | 5.82 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 15 | 5.82 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 20 | 5.82 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 3 | 5.82 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 9 | 5.82 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 6 | 5.82 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 14 | 5.82 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 18 | 5.82 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 18 | 5.82 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 18 | 5.82 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 20 | 5.82 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 5 | 5.82 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 5 | 5.82 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 5 | 5.82 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 13 | 5.82 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 13 | 5.82 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 13 | 5.82 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 7 | 5.82 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 7 | 5.82 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 7 | 5.82 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 16 | 5.82 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 16 | 5.82 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 16 | 5.82 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 20 | 5.82 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 20 | 5.82 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 17 | 5.82 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 13 | 5.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 20 | 5.82 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 3 | 5.82 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 3 | 5.82 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 3 | 5.82 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 12 | 5.82 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 12 | 5.82 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 12 | 5.82 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 12 | 5.82 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 12 | 5.82 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 12 | 5.82 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 16 | 5.82 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 7 | 5.82 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 6 | 5.82 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 6 | 5.82 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 6 | 5.82 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 15 | 5.82 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 15 | 5.82 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 6 | 5.82 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 11 | 5.82 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 11 | 5.82 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 11 | 5.82 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 14 | 5.82 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 8 | 5.82 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 8 | 5.82 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 8 | 5.82 |
| (1,4502) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 8 | 5.82 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 15 | 5.82 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 15 | 5.82 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 13 | 5.82 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 6 | 5.82 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 19 | 5.82 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 19 | 5.82 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 19 | 5.82 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 15 | 5.82 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 15 | 5.82 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 11 | 5.82 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 11 | 5.82 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 18 | 5.82 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 18 | 5.82 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 18 | 5.82 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 14 | 5.82 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 14 | 5.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 14 | 5.82 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 5 | 5.82 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 5 | 5.82 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 5 | 5.82 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 4 | 5.82 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 4 | 5.82 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 4 | 5.82 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 4 | 5.82 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 13 | 5.82 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 13 | 5.82 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 4 | 5.82 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 17 | 5.82 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 12 | 5.82 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 16 | 5.82 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 9 | 5.82 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 6 | 5.82 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 6 | 5.82 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 6 | 5.82 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 14 | 5.82 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 19 | 5.82 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 15 | 5.82 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 20 | 5.82 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 3 | 5.82 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 9 | 5.82 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 9 | 5.82 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 9 | 5.82 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 7 | 5.82 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 7 | 5.82 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 6 | 5.82 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 14 | 5.82 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 18 | 5.82 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 18 | 5.82 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 18 | 5.82 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 20 | 5.82 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 5 | 5.82 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 5 | 5.82 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 5 | 5.82 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 10 | 5.82 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 13 | 5.82 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 13 | 5.82 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 13 | 5.82 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 7 | 5.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 7 | 5.82 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 7 | 5.82 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 5 | 5.82 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 15 | 5.82 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 16 | 5.82 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 16 | 5.82 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 16 | 5.82 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 4 | 5.82 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 18 | 5.82 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 18 | 5.82 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 18 | 5.82 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 18 | 5.82 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 18 | 5.82 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 18 | 5.82 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 18 | 5.82 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 20 | 5.82 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 20 | 5.82 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 17 | 5.82 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 18 | 5.82 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 18 | 5.82 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 13 | 5.82 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 20 | 5.82 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 12 | 5.82 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 10 | 5.82 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 3 | 5.82 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 3 | 5.82 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 3 | 5.82 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 12 | 5.82 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 12 | 5.82 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 12 | 5.82 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 12 | 5.82 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 12 | 5.82 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 12 | 5.82 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 10 | 5.81 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 18 | 5.81 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 7 | 5.81 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 5 | 5.81 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 15 | 5.81 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 2 | 5.81 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 2 | 5.81 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 13 | 5.81 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 13 | 5.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 6 | 5.81 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 6 | 5.81 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 6 | 5.81 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 6 | 5.81 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 20 | 5.81 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 20 | 5.81 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 20 | 5.81 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 5.81 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 5.81 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 5.81 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 4 | 5.81 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 4 | 5.81 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 3 | 5.81 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 3 | 5.81 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 13 | 5.81 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 13 | 5.81 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 13 | 5.81 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 13 | 5.81 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 13 | 5.81 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 13 | 5.81 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 13 | 5.81 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 13 | 5.81 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 2 | 5.81 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 2 | 5.81 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 2 | 5.81 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 2 | 5.81 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 3 | 5.81 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 3 | 5.81 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 2 | 5.81 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 2 | 5.81 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 13 | 5.81 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 13 | 5.81 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 13 | 5.81 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 13 | 5.81 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 13 | 5.81 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 13 | 5.81 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 18 | 5.81 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 18 | 5.81 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 18 | 5.81 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 18 | 5.81 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 18 | 5.81 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 18 | 5.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 15 | 5.81 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 15 | 5.81 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 15 | 5.81 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 15 | 5.81 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 15 | 5.81 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 15 | 5.81 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 5 | 5.81 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 5 | 5.81 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 5 | 5.81 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 5 | 5.81 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 5 | 5.81 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 5 | 5.81 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 9 | 5.81 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 9 | 5.81 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 20 | 5.81 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 20 | 5.81 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 20 | 5.81 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 20 | 5.81 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 6 | 5.81 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 6 | 5.81 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 6 | 5.81 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 15 | 5.81 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 15 | 5.81 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 4 | 5.81 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 18 | 5.81 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 18 | 5.81 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 3 | 5.81 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 5 | 5.81 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 6 | 5.81 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 6 | 5.81 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 6 | 5.81 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 13 | 5.81 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 13 | 5.81 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 1 | 5.81 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 1 | 5.81 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 15 | 5.81 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 15 | 5.81 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 19 | 5.81 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 19 | 5.81 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 1 | 5.81 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 11 | 5.81 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 15 | 5.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 20 | 5.81 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 20 | 5.81 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 18 | 5.81 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 17 | 5.81 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 17 | 5.81 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 2 | 5.81 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 1 | 5.81 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 1 | 5.81 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 1 | 5.81 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 5 | 5.81 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 5 | 5.81 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 5 | 5.81 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 5 | 5.81 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 5 | 5.81 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 5 | 5.81 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 5 | 5.81 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 5 | 5.81 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 5 | 5.81 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 19 | 5.81 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 19 | 5.81 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 19 | 5.81 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 1 | 5.81 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 8 | 5.81 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 10 | 5.81 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 10 | 5.81 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 10 | 5.81 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 16 | 5.81 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 16 | 5.81 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 3 | 5.81 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 10 | 5.81 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 10 | 5.81 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 5 | 5.81 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 3 | 5.81 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 2 | 5.81 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 2 | 5.81 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 13 | 5.81 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 6 | 5.81 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 6 | 5.81 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 3 | 5.81 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 3 | 5.81 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 3 | 5.81 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 3 | 5.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 3 | 5.81 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 3 | 5.81 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 20 | 5.81 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 5 | 5.81 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 5 | 5.81 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 5 | 5.81 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 10 | 5.81 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 10 | 5.81 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 10 | 5.81 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 10 | 5.81 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 15 | 5.81 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 15 | 5.81 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 15 | 5.81 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 16 | 5.81 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 16 | 5.81 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 16 | 5.81 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 6 | 5.81 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 8 | 5.81 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 8 | 5.81 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 8 | 5.81 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 6 | 5.81 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 13 | 5.81 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 13 | 5.81 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 13 | 5.81 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 9 | 5.81 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 4 | 5.81 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 4 | 5.81 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 6 | 5.81 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 10 | 5.81 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 13 | 5.81 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 19 | 5.81 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 1 | 5.81 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 3 | 5.81 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 3 | 5.81 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 3 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 8 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 8 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 8 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 8 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 8 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 8 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 9 | 5.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 9 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 9 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 9 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 9 | 5.81 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 9 | 5.81 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 18 | 5.81 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 18 | 5.81 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 18 | 5.81 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 13 | 5.81 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 13 | 5.81 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 13 | 5.81 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 5 | 5.81 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 13 | 5.81 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 10 | 5.81 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 10 | 5.81 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 10 | 5.81 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 3 | 5.81 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 3 | 5.81 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 13 | 5.81 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 13 | 5.81 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 5 | 5.81 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 20 | 5.81 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 20 | 5.81 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 20 | 5.81 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 5.81 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 5.81 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 5.81 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 11 | 5.81 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 11 | 5.81 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 11 | 5.81 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 11 | 5.81 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 18 | 5.81 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 3 | 5.81 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 2 | 5.81 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 5 | 5.81 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 5 | 5.81 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 18 | 5.81 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 13 | 5.81 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 13 | 5.81 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 13 | 5.81 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 13 | 5.81 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 13 | 5.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 13 | 5.81 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 11 | 5.81 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 11 | 5.81 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 11 | 5.81 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 14 | 5.81 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 18 | 5.81 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 17 | 5.81 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 17 | 5.81 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 11 | 5.81 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 11 | 5.81 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 5 | 5.81 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 5.81 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 20 | 5.81 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 6 | 5.81 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 2 | 5.81 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 2 | 5.81 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 2 | 5.81 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 5.81 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 5 | 5.81 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 5 | 5.81 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 5 | 5.81 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 10 | 5.81 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 10 | 5.81 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 10 | 5.81 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 10 | 5.81 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 15 | 5.81 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 15 | 5.81 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 15 | 5.81 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 16 | 5.81 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 16 | 5.81 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 17 | 5.81 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 17 | 5.81 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 16 | 5.81 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 15 | 5.81 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 15 | 5.81 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 6 | 5.81 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 12 | 5.81 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 8 | 5.81 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 8 | 5.81 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 8 | 5.81 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 10 | 5.81 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 6 | 5.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 13 | 5.81 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 13 | 5.81 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 13 | 5.81 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 19 | 5.81 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 19 | 5.81 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 19 | 5.81 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 9 | 5.81 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 11 | 5.81 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 11 | 5.81 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 11 | 5.81 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 4 | 5.81 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 4 | 5.81 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 6 | 5.81 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 10 | 5.81 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 5.81 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 5.81 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 5.81 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 13 | 5.81 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 19 | 5.81 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 8 | 5.81 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 8 | 5.81 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 8 | 5.81 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 1 | 5.81 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 3 | 5.81 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 3 | 5.81 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 3 | 5.81 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 8 | 5.81 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 8 | 5.81 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 8 | 5.81 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 8 | 5.81 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 8 | 5.81 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 8 | 5.81 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 9 | 5.81 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 9 | 5.81 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 9 | 5.81 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 9 | 5.81 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 9 | 5.81 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 9 | 5.81 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 4 | 5.8 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 12 | 5.8 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 12 | 5.8 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 4 | 5.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 19 | 5.8 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 19 | 5.8 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 19 | 5.8 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 19 | 5.8 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 19 | 5.8 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 19 | 5.8 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 17 | 5.8 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 17 | 5.8 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 5.8 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 5.8 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 5.8 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 5.8 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 5.8 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 5.8 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 17 | 5.8 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 17 | 5.8 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 9 | 5.8 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 9 | 5.8 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 10 | 5.8 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 10 | 5.8 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 9 | 5.8 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 9 | 5.8 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 12 | 5.8 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 12 | 5.8 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 12 | 5.8 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 12 | 5.8 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 12 | 5.8 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 12 | 5.8 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 3 | 5.8 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 3 | 5.8 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 3 | 5.8 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 3 | 5.8 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 15 | 5.8 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 15 | 5.8 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 14 | 5.8 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 14 | 5.8 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 14 | 5.8 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 7 | 5.8 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 7 | 5.8 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 7 | 5.8 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 11 | 5.8 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 11 | 5.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 11 | 5.8 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 17 | 5.8 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 17 | 5.8 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 17 | 5.8 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 10 | 5.8 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 10 | 5.8 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 10 | 5.8 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 13 | 5.8 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 13 | 5.8 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 13 | 5.8 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 13 | 5.8 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 13 | 5.8 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 13 | 5.8 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 13 | 5.8 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 13 | 5.8 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 13 | 5.8 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 4 | 5.8 |
| (1,8329) | 1:131:A:GLN:H | 1:133:A:PRO:HD3 | 14 | 5.8 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 16 | 5.8 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 16 | 5.8 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 16 | 5.8 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 4 | 5.8 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 8 | 5.8 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 14 | 5.8 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 17 | 5.8 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 14 | 5.8 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 18 | 5.8 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 18 | 5.8 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 18 | 5.8 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 11 | 5.8 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 11 | 5.8 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 11 | 5.8 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 3 | 5.8 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 3 | 5.8 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 9 | 5.8 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 9 | 5.8 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 9 | 5.8 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 11 | 5.8 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 11 | 5.8 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 11 | 5.8 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 10 | 5.8 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 10 | 5.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 10 | 5.8 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 10 | 5.8 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 10 | 5.8 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 10 | 5.8 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 10 | 5.8 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 10 | 5.8 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 10 | 5.8 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 20 | 5.8 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 20 | 5.8 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 20 | 5.8 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 18 | 5.8 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 18 | 5.8 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 18 | 5.8 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 16 | 5.8 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 16 | 5.8 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 16 | 5.8 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 11 | 5.8 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 10 | 5.8 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 10 | 5.8 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 10 | 5.8 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 11 | 5.8 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 11 | 5.8 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 11 | 5.8 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 15 | 5.8 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 2 | 5.8 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 6 | 5.8 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 6 | 5.8 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 6 | 5.8 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 2 | 5.8 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 2 | 5.8 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 2 | 5.8 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 9 | 5.8 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 9 | 5.8 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 9 | 5.8 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 10 | 5.8 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 10 | 5.8 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 10 | 5.8 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 15 | 5.8 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 2 | 5.8 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 2 | 5.8 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 2 | 5.8 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 2 | 5.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 2 | 5.8 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 2 | 5.8 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 15 | 5.8 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 15 | 5.8 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 15 | 5.8 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 19 | 5.8 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 19 | 5.8 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 19 | 5.8 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 19 | 5.8 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 19 | 5.8 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 19 | 5.8 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 11 | 5.8 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 11 | 5.8 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 11 | 5.8 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 19 | 5.8 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 2 | 5.8 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 2 | 5.8 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 2 | 5.8 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 2 | 5.8 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 2 | 5.8 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 14 | 5.8 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 19 | 5.8 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 19 | 5.8 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 19 | 5.8 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 8 | 5.8 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 8 | 5.8 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 8 | 5.8 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 18 | 5.8 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 18 | 5.8 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 18 | 5.8 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 20 | 5.8 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 20 | 5.8 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 20 | 5.8 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 10 | 5.8 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 10 | 5.8 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 10 | 5.8 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 16 | 5.8 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 16 | 5.8 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 16 | 5.8 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 17 | 5.8 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 13 | 5.8 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 13 | 5.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 13 | 5.8 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 14 | 5.8 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 13 | 5.8 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 5 | 5.8 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 5 | 5.8 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 5 | 5.8 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 12 | 5.8 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 12 | 5.8 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 12 | 5.8 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 16 | 5.8 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 16 | 5.8 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 16 | 5.8 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 6 | 5.8 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 4 | 5.8 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 6 | 5.8 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 6 | 5.8 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 6 | 5.8 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 11 | 5.8 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 1 | 5.8 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 1 | 5.8 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 1 | 5.8 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 14 | 5.8 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 14 | 5.8 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 14 | 5.8 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 18 | 5.8 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 18 | 5.8 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 18 | 5.8 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 3 | 5.8 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 20 | 5.8 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 1 | 5.8 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 1 | 5.8 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 1 | 5.8 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 8 | 5.8 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 8 | 5.8 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 8 | 5.8 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 12 | 5.8 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 12 | 5.8 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 12 | 5.8 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 16 | 5.8 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 2 | 5.8 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 2 | 5.8 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 2 | 5.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 5.8 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 5.8 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 5.8 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 5.8 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 5.8 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 5.8 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 5.8 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 18 | 5.8 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 5.8 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 5 | 5.8 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 5 | 5.8 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 6 | 5.8 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 15 | 5.8 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 15 | 5.8 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 15 | 5.8 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 5 | 5.8 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 5 | 5.8 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 5 | 5.8 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 5 | 5.8 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 5 | 5.8 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 5 | 5.8 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 5 | 5.8 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 6 | 5.8 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 6 | 5.8 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 6 | 5.8 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 6 | 5.8 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 11 | 5.8 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 11 | 5.8 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 11 | 5.8 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 11 | 5.8 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 11 | 5.8 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 11 | 5.8 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 11 | 5.8 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 9 | 5.8 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 9 | 5.8 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 9 | 5.8 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 19 | 5.8 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 2 | 5.8 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 2 | 5.8 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 2 | 5.8 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 2 | 5.8 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 2 | 5.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 6 | 5.8 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 6 | 5.8 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 6 | 5.8 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 18 | 5.8 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 18 | 5.8 |
| (1,2552) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 18 | 5.8 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 19 | 5.8 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 19 | 5.8 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 19 | 5.8 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 14 | 5.8 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 16 | 5.8 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 16 | 5.8 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 16 | 5.8 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 19 | 5.8 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 19 | 5.8 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 19 | 5.8 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 5.8 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 5.8 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 5.8 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 11 | 5.8 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 8 | 5.8 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 8 | 5.8 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 8 | 5.8 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 18 | 5.8 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 18 | 5.8 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 18 | 5.8 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 20 | 5.8 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 20 | 5.8 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 20 | 5.8 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 10 | 5.8 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 10 | 5.8 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 10 | 5.8 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 16 | 5.8 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 16 | 5.8 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 16 | 5.8 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 14 | 5.8 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 3 | 5.8 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 3 | 5.8 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 7 | 5.8 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 7 | 5.8 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 7 | 5.8 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 17 | 5.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 13 | 5.8 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 13 | 5.8 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 13 | 5.8 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 14 | 5.8 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 13 | 5.8 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 5 | 5.8 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 5 | 5.8 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 5 | 5.8 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 12 | 5.8 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 12 | 5.8 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 12 | 5.8 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 16 | 5.8 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 16 | 5.8 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 16 | 5.8 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 8 | 5.8 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 6 | 5.8 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 9 | 5.8 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 9 | 5.8 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 9 | 5.8 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 8 | 5.79 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 8 | 5.79 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 8 | 5.79 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 15 | 5.79 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 15 | 5.79 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 5.79 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 5.79 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 5.79 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 5.79 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 7 | 5.79 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 7 | 5.79 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 7 | 5.79 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 7 | 5.79 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 4 | 5.79 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 4 | 5.79 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 1 | 5.79 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 1 | 5.79 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 14 | 5.79 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 14 | 5.79 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 14 | 5.79 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 14 | 5.79 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 14 | 5.79 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 14 | 5.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 4 | 5.79 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 4 | 5.79 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 4 | 5.79 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 4 | 5.79 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 4 | 5.79 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 4 | 5.79 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 14 | 5.79 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 14 | 5.79 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 15 | 5.79 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 15 | 5.79 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 4 | 5.79 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 4 | 5.79 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 10 | 5.79 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 10 | 5.79 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 13 | 5.79 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 13 | 5.79 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 19 | 5.79 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 19 | 5.79 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 19 | 5.79 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 19 | 5.79 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 14 | 5.79 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 14 | 5.79 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 14 | 5.79 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 14 | 5.79 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 11 | 5.79 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 11 | 5.79 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 17 | 5.79 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 17 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 7 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 7 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 7 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 7 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 7 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 7 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 7 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 7 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 7 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 10 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 10 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 10 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 10 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 10 | 5.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 10 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 10 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 10 | 5.79 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 10 | 5.79 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 13 | 5.79 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 13 | 5.79 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 13 | 5.79 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 13 | 5.79 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 19 | 5.79 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 19 | 5.79 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 19 | 5.79 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 1 | 5.79 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 1 | 5.79 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 1 | 5.79 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 2 | 5.79 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 7 | 5.79 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 7 | 5.79 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 9 | 5.79 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 9 | 5.79 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 9 | 5.79 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 1 | 5.79 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 1 | 5.79 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 1 | 5.79 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 7 | 5.79 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 7 | 5.79 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 7 | 5.79 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 8 | 5.79 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 8 | 5.79 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 8 | 5.79 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 11 | 5.79 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 11 | 5.79 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 11 | 5.79 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 8 | 5.79 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 8 | 5.79 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 8 | 5.79 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 2 | 5.79 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 2 | 5.79 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 6 | 5.79 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 6 | 5.79 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 6 | 5.79 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 12 | 5.79 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 2 | 5.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 5 | 5.79 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 4 | 5.79 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 3 | 5.79 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 3 | 5.79 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 7 | 5.79 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 7 | 5.79 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 11 | 5.79 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 11 | 5.79 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 11 | 5.79 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 19 | 5.79 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 19 | 5.79 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 19 | 5.79 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 15 | 5.79 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 15 | 5.79 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 15 | 5.79 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 7 | 5.79 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 18 | 5.79 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 11 | 5.79 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 11 | 5.79 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 11 | 5.79 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 19 | 5.79 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 19 | 5.79 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 2 | 5.79 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 6 | 5.79 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 6 | 5.79 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 6 | 5.79 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 1 | 5.79 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 1 | 5.79 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 1 | 5.79 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 11 | 5.79 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 11 | 5.79 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 18 | 5.79 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 4 | 5.79 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 4 | 5.79 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 4 | 5.79 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 4 | 5.79 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 4 | 5.79 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 4 | 5.79 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 2 | 5.79 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 9 | 5.79 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 19 | 5.79 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 8 | 5.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 8 | 5.79 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 2 | 5.79 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 2 | 5.79 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 2 | 5.79 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 13 | 5.79 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 20 | 5.79 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 20 | 5.79 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 20 | 5.79 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 4 | 5.79 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 4 | 5.79 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 10 | 5.79 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 12 | 5.79 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 5.79 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 5.79 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 5.79 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 5 | 5.79 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 5 | 5.79 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 5 | 5.79 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 10 | 5.79 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 10 | 5.79 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 10 | 5.79 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 18 | 5.79 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 18 | 5.79 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 18 | 5.79 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 12 | 5.79 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 20 | 5.79 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 20 | 5.79 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 20 | 5.79 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 20 | 5.79 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 20 | 5.79 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 20 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 4 | 5.79 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 4 | 5.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 4 | 5.79 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 6 | 5.79 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 6 | 5.79 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 6 | 5.79 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 4 | 5.79 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 18 | 5.79 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 14 | 5.79 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 10 | 5.79 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 10 | 5.79 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 10 | 5.79 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 16 | 5.79 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 16 | 5.79 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 16 | 5.79 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 16 | 5.79 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 16 | 5.79 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 16 | 5.79 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 16 | 5.79 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 16 | 5.79 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 16 | 5.79 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 10 | 5.79 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 10 | 5.79 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 10 | 5.79 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 20 | 5.79 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 20 | 5.79 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 20 | 5.79 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 11 | 5.79 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 11 | 5.79 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 11 | 5.79 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 12 | 5.79 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 14 | 5.79 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 14 | 5.79 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 14 | 5.79 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 17 | 5.79 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 17 | 5.79 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 17 | 5.79 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 10 | 5.79 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 10 | 5.79 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 18 | 5.79 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 5.79 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 12 | 5.79 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 12 | 5.79 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 12 | 5.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 5.79 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 5.79 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 5.79 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 5.79 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 6 | 5.79 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 4 | 5.79 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 10 | 5.79 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 7 | 5.79 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 7 | 5.79 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 7 | 5.79 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 7 | 5.79 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 13 | 5.79 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 2 | 5.79 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 4 | 5.79 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 4 | 5.79 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 4 | 5.79 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 6 | 5.79 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 6 | 5.79 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 6 | 5.79 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 5.79 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 14 | 5.79 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 17 | 5.79 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 17 | 5.79 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 17 | 5.79 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 4 | 5.79 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 4 | 5.79 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 5.79 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 9 | 5.79 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 13 | 5.79 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 13 | 5.79 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 8 | 5.79 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 8 | 5.79 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 14 | 5.79 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 14 | 5.79 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 14 | 5.79 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 14 | 5.79 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 8 | 5.79 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 8 | 5.79 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 8 | 5.79 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 2 | 5.79 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 8 | 5.79 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 8 | 5.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 2 | 5.79 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 2 | 5.79 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 2 | 5.79 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 15 | 5.79 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 15 | 5.79 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 15 | 5.79 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 13 | 5.79 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 20 | 5.79 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 20 | 5.79 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 20 | 5.79 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 16 | 5.79 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 16 | 5.79 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 4 | 5.79 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 4 | 5.79 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 5.79 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 17 | 5.79 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 5.79 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 17 | 5.79 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 10 | 5.79 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 12 | 5.79 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 18 | 5.79 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 6 | 5.79 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 5.79 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 5.79 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 5.79 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 4 | 5.79 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 5 | 5.79 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 5 | 5.79 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 5 | 5.79 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 10 | 5.79 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 10 | 5.79 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 10 | 5.79 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 18 | 5.79 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 18 | 5.79 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 18 | 5.79 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 15 | 5.79 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 12 | 5.79 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 20 | 5.79 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 20 | 5.79 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 20 | 5.79 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 20 | 5.79 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 20 | 5.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 20 | 5.79 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 19 | 5.79 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 19 | 5.79 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 19 | 5.79 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 19 | 5.79 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 19 | 5.79 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 19 | 5.79 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 6 | 5.79 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 6 | 5.79 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 6 | 5.79 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 4 | 5.79 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 4 | 5.79 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 4 | 5.79 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 4 | 5.79 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 18 | 5.79 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 16 | 5.79 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 14 | 5.79 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 18 | 5.79 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 2 | 5.78 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 19 | 5.78 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 4 | 5.78 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 4 | 5.78 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 11 | 5.78 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 11 | 5.78 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 13 | 5.78 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 13 | 5.78 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 12 | 5.78 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 12 | 5.78 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 1 | 5.78 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 1 | 5.78 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 12 | 5.78 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 12 | 5.78 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 12 | 5.78 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 12 | 5.78 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 12 | 5.78 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 12 | 5.78 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 5 | 5.78 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 5 | 5.78 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 13 | 5.78 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 13 | 5.78 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 15 | 5.78 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 15 | 5.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 15 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 15 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 15 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 15 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 15 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 15 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 19 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 19 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 19 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 19 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 19 | 5.78 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 19 | 5.78 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 16 | 5.78 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 16 | 5.78 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 15 | 5.78 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 15 | 5.78 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 19 | 5.78 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 19 | 5.78 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 19 | 5.78 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 19 | 5.78 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 3 | 5.78 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 3 | 5.78 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 3 | 5.78 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 3 | 5.78 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 3 | 5.78 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 3 | 5.78 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 8 | 5.78 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 8 | 5.78 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 9 | 5.78 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 9 | 5.78 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 9 | 5.78 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 9 | 5.78 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 9 | 5.78 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 9 | 5.78 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 9 | 5.78 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 9 | 5.78 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 9 | 5.78 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 2 | 5.78 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 2 | 5.78 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 2 | 5.78 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 2 | 5.78 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 2 | 5.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 2 | 5.78 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 5 | 5.78 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 14 | 5.78 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 14 | 5.78 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 14 | 5.78 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 2 | 5.78 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 17 | 5.78 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 17 | 5.78 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 17 | 5.78 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 20 | 5.78 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 20 | 5.78 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 20 | 5.78 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 12 | 5.78 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 12 | 5.78 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 20 | 5.78 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 20 | 5.78 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 20 | 5.78 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 8 | 5.78 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 8 | 5.78 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 8 | 5.78 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 11 | 5.78 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 2 | 5.78 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 2 | 5.78 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 8 | 5.78 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 15 | 5.78 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 6 | 5.78 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 6 | 5.78 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 6 | 5.78 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 14 | 5.78 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 15 | 5.78 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 15 | 5.78 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 6 | 5.78 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 2 | 5.78 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 3 | 5.78 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 3 | 5.78 |
| (1,7521) | 1:14:A:ARG:HG2 | 1:23:A:TYR:H | 12 | 5.78 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 19 | 5.78 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 16 | 5.78 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 9 | 5.78 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 9 | 5.78 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 16 | 5.78 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 20 | 5.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 20 | 5.78 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 20 | 5.78 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 20 | 5.78 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 20 | 5.78 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 20 | 5.78 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 13 | 5.78 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 13 | 5.78 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 9 | 5.78 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 20 | 5.78 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 20 | 5.78 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 2 | 5.78 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 2 | 5.78 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 2 | 5.78 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 11 | 5.78 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 6 | 5.78 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 16 | 5.78 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 5 | 5.78 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 18 | 5.78 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 18 | 5.78 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 18 | 5.78 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 16 | 5.78 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 16 | 5.78 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 16 | 5.78 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 16 | 5.78 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 16 | 5.78 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 16 | 5.78 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 16 | 5.78 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 16 | 5.78 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 16 | 5.78 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 18 | 5.78 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 1 | 5.78 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 1 | 5.78 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 1 | 5.78 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 10 | 5.78 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 10 | 5.78 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 10 | 5.78 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 5 | 5.78 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 5 | 5.78 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 5 | 5.78 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 5 | 5.78 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 5 | 5.78 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 5 | 5.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 2 | 5.78 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 3 | 5.78 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 3 | 5.78 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 3 | 5.78 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 8 | 5.78 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 17 | 5.78 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 17 | 5.78 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 17 | 5.78 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 20 | 5.78 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 20 | 5.78 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 4 | 5.78 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 17 | 5.78 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 1 | 5.78 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 10 | 5.78 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 10 | 5.78 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 10 | 5.78 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 17 | 5.78 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 17 | 5.78 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 17 | 5.78 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 11 | 5.78 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 11 | 5.78 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 11 | 5.78 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 11 | 5.78 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 7 | 5.78 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 7 | 5.78 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 4 | 5.78 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 2 | 5.78 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 6 | 5.78 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 5 | 5.78 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 5 | 5.78 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 9 | 5.78 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 10 | 5.78 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 10 | 5.78 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 10 | 5.78 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 2 | 5.78 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 2 | 5.78 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 6 | 5.78 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 9 | 5.78 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 9 | 5.78 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 9 | 5.78 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 4 | 5.78 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 4 | 5.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 19 | 5.78 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 15 | 5.78 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 15 | 5.78 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 2 | 5.78 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 2 | 5.78 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 2 | 5.78 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 13 | 5.78 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 13 | 5.78 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 9 | 5.78 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 20 | 5.78 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 20 | 5.78 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 2 | 5.78 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 2 | 5.78 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 2 | 5.78 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 11 | 5.78 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 6 | 5.78 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 17 | 5.78 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 17 | 5.78 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 17 | 5.78 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 16 | 5.78 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 5 | 5.78 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 16 | 5.78 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 16 | 5.78 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 16 | 5.78 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 8 | 5.78 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 17 | 5.78 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 19 | 5.78 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 19 | 5.78 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 18 | 5.78 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 18 | 5.78 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 18 | 5.78 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 16 | 5.78 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 16 | 5.78 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 16 | 5.78 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 16 | 5.78 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 16 | 5.78 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 16 | 5.78 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 16 | 5.78 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 16 | 5.78 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 16 | 5.78 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 18 | 5.78 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 1 | 5.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 1 | 5.78 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 1 | 5.78 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 10 | 5.78 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 10 | 5.78 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 10 | 5.78 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 5 | 5.78 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 5 | 5.78 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 5 | 5.78 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 6 | 5.78 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 6 | 5.78 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 6 | 5.78 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 1 | 5.78 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 11 | 5.78 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 11 | 5.78 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 11 | 5.78 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 5 | 5.78 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 5 | 5.78 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 5 | 5.78 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 14 | 5.78 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 14 | 5.78 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 14 | 5.78 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 2 | 5.78 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 4 | 5.77 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 6 | 5.77 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 9 | 5.77 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 9 | 5.77 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 9 | 5.77 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 9 | 5.77 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 5.77 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 5.77 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 5.77 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 5.77 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 2 | 5.77 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 2 | 5.77 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 19 | 5.77 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 19 | 5.77 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 16 | 5.77 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 16 | 5.77 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 19 | 5.77 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 19 | 5.77 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 13 | 5.77 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 13 | 5.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 9 | 5.77 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 9 | 5.77 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 9 | 5.77 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 9 | 5.77 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 20 | 5.77 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 20 | 5.77 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 20 | 5.77 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 20 | 5.77 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 20 | 5.77 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 20 | 5.77 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 4 | 5.77 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 4 | 5.77 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 4 | 5.77 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 4 | 5.77 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 4 | 5.77 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 4 | 5.77 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 17 | 5.77 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 17 | 5.77 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 19 | 5.77 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 19 | 5.77 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 19 | 5.77 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 19 | 5.77 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 19 | 5.77 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 19 | 5.77 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 15 | 5.77 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 15 | 5.77 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 7 | 5.77 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 7 | 5.77 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 7 | 5.77 |
| (1,8383) | 1:138:A:SER:H | 1:139:A:PHE:HB3 | 16 | 5.77 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 12 | 5.77 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 12 | 5.77 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 5 | 5.77 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 17 | 5.77 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 17 | 5.77 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 8 | 5.77 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 15 | 5.77 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 15 | 5.77 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 5 | 5.77 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 5 | 5.77 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 5 | 5.77 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 5 | 5.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 5 | 5.77 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 5 | 5.77 |
| (1,8149) | 1:96:A:ILE:HD11 | 1:104:A:GLU:H | 8 | 5.77 |
| (1,8149) | 1:96:A:ILE:HD12 | 1:104:A:GLU:H | 8 | 5.77 |
| (1,8149) | 1:96:A:ILE:HD13 | 1:104:A:GLU:H | 8 | 5.77 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 17 | 5.77 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 17 | 5.77 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 17 | 5.77 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 17 | 5.77 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 17 | 5.77 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 17 | 5.77 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 20 | 5.77 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 20 | 5.77 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 20 | 5.77 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 10 | 5.77 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 10 | 5.77 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 10 | 5.77 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 17 | 5.77 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 6 | 5.77 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 6 | 5.77 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 6 | 5.77 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 6 | 5.77 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 6 | 5.77 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 9 | 5.77 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 9 | 5.77 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 14 | 5.77 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 14 | 5.77 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 14 | 5.77 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 11 | 5.77 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 11 | 5.77 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 11 | 5.77 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 6 | 5.77 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 15 | 5.77 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 5 | 5.77 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 5 | 5.77 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 5 | 5.77 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 13 | 5.77 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 13 | 5.77 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 18 | 5.77 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 18 | 5.77 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 13 | 5.77 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 13 | 5.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 13 | 5.77 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 13 | 5.77 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 13 | 5.77 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 13 | 5.77 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 18 | 5.77 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 18 | 5.77 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 18 | 5.77 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 6 | 5.77 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 10 | 5.77 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 10 | 5.77 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 10 | 5.77 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 16 | 5.77 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 16 | 5.77 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 16 | 5.77 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 3 | 5.77 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 3 | 5.77 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 7 | 5.77 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 7 | 5.77 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 7 | 5.77 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 7 | 5.77 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 4 | 5.77 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 4 | 5.77 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 3 | 5.77 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 3 | 5.77 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 3 | 5.77 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 3 | 5.77 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 3 | 5.77 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 3 | 5.77 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 13 | 5.77 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 13 | 5.77 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 13 | 5.77 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 20 | 5.77 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 20 | 5.77 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 20 | 5.77 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 1 | 5.77 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 20 | 5.77 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 17 | 5.77 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 17 | 5.77 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 9 | 5.77 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 9 | 5.77 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 9 | 5.77 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 18 | 5.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 18 | 5.77 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 18 | 5.77 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 18 | 5.77 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 18 | 5.77 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 18 | 5.77 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 1 | 5.77 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 10 | 5.77 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 3 | 5.77 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 3 | 5.77 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 3 | 5.77 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 15 | 5.77 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 15 | 5.77 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 15 | 5.77 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 12 | 5.77 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 12 | 5.77 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 12 | 5.77 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 2 | 5.77 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 7 | 5.77 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 7 | 5.77 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 7 | 5.77 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 1 | 5.77 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 1 | 5.77 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 1 | 5.77 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 1 | 5.77 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 1 | 5.77 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 1 | 5.77 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 20 | 5.77 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 20 | 5.77 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 20 | 5.77 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 7 | 5.77 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 7 | 5.77 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 7 | 5.77 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 7 | 5.77 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 7 | 5.77 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 7 | 5.77 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 18 | 5.77 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 14 | 5.77 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 2 | 5.77 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 2 | 5.77 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 3 | 5.77 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 3 | 5.77 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 4 | 5.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 4 | 5.77 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 15 | 5.77 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 15 | 5.77 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 15 | 5.77 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 9 | 5.77 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 9 | 5.77 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 9 | 5.77 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 4 | 5.77 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 4 | 5.77 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 4 | 5.77 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 13 | 5.77 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 13 | 5.77 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 13 | 5.77 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 13 | 5.77 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 9 | 5.77 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 9 | 5.77 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 9 | 5.77 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 9 | 5.77 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 9 | 5.77 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 9 | 5.77 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 5.77 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 5.77 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 10 | 5.77 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 5.77 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 5.77 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 14 | 5.77 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 14 | 5.77 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 14 | 5.77 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 17 | 5.77 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 17 | 5.77 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 12 | 5.77 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 12 | 5.77 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 12 | 5.77 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 12 | 5.77 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 16 | 5.77 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 16 | 5.77 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 2 | 5.77 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 2 | 5.77 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 2 | 5.77 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 19 | 5.77 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 19 | 5.77 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 16 | 5.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 16 | 5.77 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 7 | 5.77 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 13 | 5.77 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 13 | 5.77 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 8 | 5.77 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 7 | 5.77 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 7 | 5.77 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 7 | 5.77 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 8 | 5.77 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 7 | 5.77 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 17 | 5.77 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 17 | 5.77 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 5 | 5.77 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 5 | 5.77 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 19 | 5.77 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 19 | 5.77 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 3 | 5.77 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 3 | 5.77 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 3 | 5.77 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 16 | 5.77 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 13 | 5.77 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 13 | 5.77 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 13 | 5.77 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 20 | 5.77 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 20 | 5.77 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 20 | 5.77 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 1 | 5.77 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 20 | 5.77 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 17 | 5.77 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 17 | 5.77 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 8 | 5.77 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 5.77 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 8 | 5.77 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 9 | 5.77 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 9 | 5.77 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 9 | 5.77 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 20 | 5.77 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 18 | 5.77 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 18 | 5.77 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 18 | 5.77 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 18 | 5.77 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 18 | 5.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 18 | 5.77 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 1 | 5.77 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 10 | 5.77 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 17 | 5.77 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 3 | 5.77 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 3 | 5.77 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 3 | 5.77 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 15 | 5.77 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 15 | 5.77 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 15 | 5.77 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 12 | 5.77 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 12 | 5.77 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 12 | 5.77 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 2 | 5.77 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 7 | 5.77 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 7 | 5.77 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 7 | 5.77 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 1 | 5.77 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 1 | 5.77 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 1 | 5.77 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 1 | 5.77 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 1 | 5.77 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 1 | 5.77 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 11 | 5.77 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 11 | 5.77 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 11 | 5.77 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 20 | 5.77 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 20 | 5.77 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 20 | 5.77 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 5.77 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 10 | 5.77 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 10 | 5.77 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 10 | 5.77 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 9 | 5.77 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 9 | 5.77 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 9 | 5.77 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 9 | 5.77 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 9 | 5.77 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 9 | 5.77 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 7 | 5.77 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 7 | 5.77 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 7 | 5.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 7 | 5.77 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 7 | 5.77 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 7 | 5.77 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 18 | 5.77 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 16 | 5.76 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 14 | 5.76 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 14 | 5.76 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 18 | 5.76 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 18 | 5.76 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 18 | 5.76 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 18 | 5.76 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 4 | 5.76 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 4 | 5.76 |
| (1,9205) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 14 | 5.76 |
| (1,9205) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 14 | 5.76 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 19 | 5.76 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 19 | 5.76 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 10 | 5.76 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 10 | 5.76 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 5 | 5.76 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 5 | 5.76 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 5 | 5.76 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 5 | 5.76 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 5 | 5.76 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 5 | 5.76 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 18 | 5.76 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 18 | 5.76 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 10 | 5.76 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 10 | 5.76 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 1 | 5.76 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 1 | 5.76 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 1 | 5.76 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 1 | 5.76 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 1 | 5.76 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 1 | 5.76 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 5 | 5.76 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 5 | 5.76 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 7 | 5.76 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 7 | 5.76 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 7 | 5.76 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 7 | 5.76 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 7 | 5.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 7 | 5.76 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 12 | 5.76 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 12 | 5.76 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 3 | 5.76 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 3 | 5.76 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 5 | 5.76 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 5 | 5.76 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 6 | 5.76 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 6 | 5.76 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 6 | 5.76 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 6 | 5.76 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 6 | 5.76 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 6 | 5.76 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 6 | 5.76 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 6 | 5.76 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 6 | 5.76 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 1 | 5.76 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 14 | 5.76 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 14 | 5.76 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 10 | 5.76 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 10 | 5.76 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 10 | 5.76 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 6 | 5.76 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 6 | 5.76 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 6 | 5.76 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 2 | 5.76 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 18 | 5.76 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 8 | 5.76 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 8 | 5.76 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 8 | 5.76 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 8 | 5.76 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 8 | 5.76 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 8 | 5.76 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 7 | 5.76 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 11 | 5.76 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 11 | 5.76 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 5 | 5.76 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 5 | 5.76 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 5 | 5.76 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 9 | 5.76 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 3 | 5.76 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 18 | 5.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 18 | 5.76 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 10 | 5.76 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 11 | 5.76 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 11 | 5.76 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 11 | 5.76 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 11 | 5.76 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 11 | 5.76 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 19 | 5.76 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 19 | 5.76 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 15 | 5.76 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 7 | 5.76 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 7 | 5.76 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 7 | 5.76 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 6 | 5.76 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 19 | 5.76 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 11 | 5.76 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 3 | 5.76 |
| (1,7809) | 1:60:A:LEU:HD11 | 1:112:A:ASP:H | 9 | 5.76 |
| (1,7809) | 1:60:A:LEU:HD12 | 1:112:A:ASP:H | 9 | 5.76 |
| (1,7809) | 1:60:A:LEU:HD13 | 1:112:A:ASP:H | 9 | 5.76 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 15 | 5.76 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 15 | 5.76 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 15 | 5.76 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 15 | 5.76 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 15 | 5.76 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 15 | 5.76 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 1 | 5.76 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 1 | 5.76 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 1 | 5.76 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 1 | 5.76 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 1 | 5.76 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 1 | 5.76 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 1 | 5.76 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 1 | 5.76 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 1 | 5.76 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 12 | 5.76 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 12 | 5.76 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 10 | 5.76 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 10 | 5.76 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 10 | 5.76 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 12 | 5.76 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 12 | 5.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 12 | 5.76 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 18 | 5.76 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 11 | 5.76 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 12 | 5.76 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 15 | 5.76 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 15 | 5.76 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 7 | 5.76 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 13 | 5.76 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 20 | 5.76 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 20 | 5.76 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 20 | 5.76 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 20 | 5.76 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 20 | 5.76 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 20 | 5.76 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 20 | 5.76 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 20 | 5.76 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 20 | 5.76 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 11 | 5.76 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 11 | 5.76 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 11 | 5.76 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 14 | 5.76 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 14 | 5.76 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 14 | 5.76 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 4 | 5.76 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 4 | 5.76 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 4 | 5.76 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 4 | 5.76 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 4 | 5.76 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 16 | 5.76 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 16 | 5.76 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 16 | 5.76 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 6 | 5.76 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 6 | 5.76 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 5.76 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 8 | 5.76 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 8 | 5.76 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 8 | 5.76 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 6 | 5.76 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 10 | 5.76 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 6 | 5.76 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 19 | 5.76 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 19 | 5.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 14 | 5.76 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 8 | 5.76 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 14 | 5.76 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 13 | 5.76 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 13 | 5.76 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 13 | 5.76 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 9 | 5.76 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 9 | 5.76 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 9 | 5.76 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 13 | 5.76 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 13 | 5.76 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 16 | 5.76 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 16 | 5.76 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 16 | 5.76 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 16 | 5.76 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 16 | 5.76 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 16 | 5.76 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 16 | 5.76 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 13 | 5.76 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 13 | 5.76 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 13 | 5.76 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 8 | 5.76 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 4 | 5.76 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 4 | 5.76 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 4 | 5.76 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 19 | 5.76 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 19 | 5.76 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 19 | 5.76 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 11 | 5.76 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 11 | 5.76 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 11 | 5.76 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 14 | 5.76 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 6 | 5.76 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 6 | 5.76 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 6 | 5.76 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 6 | 5.76 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 6 | 5.76 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 6 | 5.76 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 6 | 5.76 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 6 | 5.76 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 6 | 5.76 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 6 | 5.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 14 | 5.76 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 14 | 5.76 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 14 | 5.76 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 6 | 5.76 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 1 | 5.76 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 5.76 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 17 | 5.76 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 9 | 5.76 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 9 | 5.76 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 9 | 5.76 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 9 | 5.76 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 5.76 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 5.76 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 5.76 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 5.76 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 5.76 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 5.76 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 5.76 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 5.76 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 5.76 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 4 | 5.76 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 4 | 5.76 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 10 | 5.76 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 10 | 5.76 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 10 | 5.76 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 19 | 5.76 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 19 | 5.76 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 19 | 5.76 |
| (1,4192) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 14 | 5.76 |
| (1,4192) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 14 | 5.76 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 12 | 5.76 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 18 | 5.76 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 18 | 5.76 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 17 | 5.76 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 17 | 5.76 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 10 | 5.76 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 5 | 5.76 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 5 | 5.76 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 7 | 5.76 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 7 | 5.76 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 7 | 5.76 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 7 | 5.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 7 | 5.76 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 7 | 5.76 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 7 | 5.76 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 3 | 5.76 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 3 | 5.76 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 15 | 5.76 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 18 | 5.76 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 17 | 5.76 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 20 | 5.76 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 20 | 5.76 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 20 | 5.76 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 20 | 5.76 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 20 | 5.76 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 20 | 5.76 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 20 | 5.76 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 20 | 5.76 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 20 | 5.76 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 11 | 5.76 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 11 | 5.76 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 11 | 5.76 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 14 | 5.76 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 14 | 5.76 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 14 | 5.76 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 4 | 5.76 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 4 | 5.76 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 4 | 5.76 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 4 | 5.76 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 4 | 5.76 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 16 | 5.76 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 16 | 5.76 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 16 | 5.76 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 6 | 5.76 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 6 | 5.76 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 5.76 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 8 | 5.76 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 8 | 5.76 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 8 | 5.76 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 6 | 5.76 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 10 | 5.76 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 9 | 5.76 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 6 | 5.76 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 19 | 5.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 19 | 5.76 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 14 | 5.76 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 8 | 5.76 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 14 | 5.76 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 10 | 5.76 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 7 | 5.76 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 19 | 5.76 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 2 | 5.76 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 9 | 5.76 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 9 | 5.76 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 9 | 5.76 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 13 | 5.76 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 13 | 5.76 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 19 | 5.76 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 19 | 5.76 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 19 | 5.76 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 1 | 5.76 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 16 | 5.76 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 16 | 5.76 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 16 | 5.76 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 16 | 5.76 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 16 | 5.76 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 16 | 5.76 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 16 | 5.76 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 7 | 5.76 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 7 | 5.76 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 7 | 5.76 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 1 | 5.76 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 13 | 5.76 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 13 | 5.76 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 13 | 5.76 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 8 | 5.76 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 6 | 5.76 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 13 | 5.76 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 8 | 5.75 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 4 | 5.75 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 8 | 5.75 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 13 | 5.75 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 11 | 5.75 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 11 | 5.75 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 13 | 5.75 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 13 | 5.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 7 | 5.75 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 7 | 5.75 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 11 | 5.75 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 11 | 5.75 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 8 | 5.75 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 8 | 5.75 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 8 | 5.75 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 8 | 5.75 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 8 | 5.75 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 8 | 5.75 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 2 | 5.75 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 2 | 5.75 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 10 | 5.75 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 10 | 5.75 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 20 | 5.75 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 20 | 5.75 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 20 | 5.75 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 20 | 5.75 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 20 | 5.75 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 20 | 5.75 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 7 | 5.75 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 7 | 5.75 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 12 | 5.75 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 12 | 5.75 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 11 | 5.75 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 11 | 5.75 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 15 | 5.75 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 15 | 5.75 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 14 | 5.75 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 14 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 2 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 2 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 2 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 2 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 2 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 2 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 16 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 16 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 16 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 16 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 16 | 5.75 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 16 | 5.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 1 | 5.75 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 1 | 5.75 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 19 | 5.75 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 19 | 5.75 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 18 | 5.75 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 18 | 5.75 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 18 | 5.75 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 18 | 5.75 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 1 | 5.75 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 1 | 5.75 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 1 | 5.75 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 1 | 5.75 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 1 | 5.75 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 1 | 5.75 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 2 | 5.75 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 2 | 5.75 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 2 | 5.75 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 2 | 5.75 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 5 | 5.75 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 5 | 5.75 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 5 | 5.75 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 5 | 5.75 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 5 | 5.75 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 5 | 5.75 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 18 | 5.75 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 18 | 5.75 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 18 | 5.75 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 18 | 5.75 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 18 | 5.75 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 18 | 5.75 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 4 | 5.75 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 18 | 5.75 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 18 | 5.75 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 18 | 5.75 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 11 | 5.75 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 11 | 5.75 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 11 | 5.75 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 11 | 5.75 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 11 | 5.75 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 11 | 5.75 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 20 | 5.75 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 5 | 5.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 5 | 5.75 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 5 | 5.75 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 1 | 5.75 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 1 | 5.75 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 1 | 5.75 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 11 | 5.75 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 1 | 5.75 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 1 | 5.75 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 14 | 5.75 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 14 | 5.75 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 5 | 5.75 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 3 | 5.75 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 3 | 5.75 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 14 | 5.75 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 14 | 5.75 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 14 | 5.75 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 19 | 5.75 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 6 | 5.75 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 6 | 5.75 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 9 | 5.75 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 9 | 5.75 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 9 | 5.75 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 2 | 5.75 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 2 | 5.75 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 2 | 5.75 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 8 | 5.75 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 13 | 5.75 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 17 | 5.75 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 17 | 5.75 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 17 | 5.75 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 20 | 5.75 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 12 | 5.75 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 7 | 5.75 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 7 | 5.75 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 7 | 5.75 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 7 | 5.75 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 7 | 5.75 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 7 | 5.75 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 7 | 5.75 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 7 | 5.75 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 7 | 5.75 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 7 | 5.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 7 | 5.75 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 7 | 5.75 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 20 | 5.75 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 20 | 5.75 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 20 | 5.75 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 20 | 5.75 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 20 | 5.75 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 20 | 5.75 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 20 | 5.75 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 20 | 5.75 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 20 | 5.75 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 4 | 5.75 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 12 | 5.75 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 12 | 5.75 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 13 | 5.75 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 19 | 5.75 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 5 | 5.75 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 6 | 5.75 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 6 | 5.75 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 6 | 5.75 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 18 | 5.75 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 18 | 5.75 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 18 | 5.75 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 19 | 5.75 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 19 | 5.75 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 19 | 5.75 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 4 | 5.75 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 4 | 5.75 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 4 | 5.75 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 3 | 5.75 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 3 | 5.75 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 3 | 5.75 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 16 | 5.75 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 18 | 5.75 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 6 | 5.75 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 6 | 5.75 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 6 | 5.75 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 2 | 5.75 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 10 | 5.75 |
| (1,7152) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 1 | 5.75 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 20 | 5.75 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 20 | 5.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 20 | 5.75 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 17 | 5.75 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 2 | 5.75 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 2 | 5.75 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 2 | 5.75 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 12 | 5.75 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 20 | 5.75 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 20 | 5.75 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 20 | 5.75 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 17 | 5.75 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 17 | 5.75 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 17 | 5.75 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 11 | 5.75 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 11 | 5.75 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 11 | 5.75 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 14 | 5.75 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 14 | 5.75 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 14 | 5.75 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 6 | 5.75 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 18 | 5.75 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 18 | 5.75 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 18 | 5.75 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 2 | 5.75 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 2 | 5.75 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 2 | 5.75 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 4 | 5.75 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 4 | 5.75 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 4 | 5.75 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 2 | 5.75 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 11 | 5.75 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 13 | 5.75 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 13 | 5.75 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 13 | 5.75 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 15 | 5.75 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 6 | 5.75 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 5 | 5.75 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 5 | 5.75 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 6 | 5.75 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 6 | 5.75 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 12 | 5.75 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 12 | 5.75 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 7 | 5.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 7 | 5.75 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 14 | 5.75 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 12 | 5.75 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 14 | 5.75 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 8 | 5.75 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 8 | 5.75 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 8 | 5.75 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 8 | 5.75 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 8 | 5.75 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 8 | 5.75 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 2 | 5.75 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 2 | 5.75 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 10 | 5.75 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 10 | 5.75 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 12 | 5.75 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 12 | 5.75 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 15 | 5.75 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 15 | 5.75 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 13 | 5.75 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 13 | 5.75 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 13 | 5.75 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 7 | 5.75 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 5 | 5.75 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 5 | 5.75 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 5 | 5.75 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 19 | 5.75 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 19 | 5.75 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 2 | 5.75 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 17 | 5.75 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 17 | 5.75 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 17 | 5.75 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 17 | 5.75 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 1 | 5.75 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 1 | 5.75 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 1 | 5.75 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 1 | 5.75 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 1 | 5.75 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 1 | 5.75 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 5 | 5.75 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 5 | 5.75 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 5 | 5.75 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 5 | 5.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 5 | 5.75 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 5 | 5.75 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 1 | 5.75 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 1 | 5.75 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 1 | 5.75 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 18 | 5.75 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 6 | 5.75 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 6 | 5.75 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 6 | 5.75 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 15 | 5.75 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 15 | 5.75 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 2 | 5.75 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 10 | 5.75 |
| (1,3260) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 1 | 5.75 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 20 | 5.75 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 20 | 5.75 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 20 | 5.75 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 17 | 5.75 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 16 | 5.75 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 2 | 5.75 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 2 | 5.75 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 2 | 5.75 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 12 | 5.75 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 20 | 5.75 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 20 | 5.75 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 20 | 5.75 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 14 | 5.75 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 14 | 5.75 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 14 | 5.75 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 17 | 5.75 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 17 | 5.75 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 17 | 5.75 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 11 | 5.75 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 11 | 5.75 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 11 | 5.75 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 14 | 5.75 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 14 | 5.75 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 14 | 5.75 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 12 | 5.75 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 12 | 5.75 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 12 | 5.75 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 19 | 5.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 6 | 5.75 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 18 | 5.75 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 18 | 5.75 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 18 | 5.75 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 5.75 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 7 | 5.75 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 7 | 5.75 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 9 | 5.75 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 5.75 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 2 | 5.75 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 2 | 5.75 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 2 | 5.75 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 8 | 5.75 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 19 | 5.74 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 19 | 5.74 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 20 | 5.74 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 20 | 5.74 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 20 | 5.74 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 20 | 5.74 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 11 | 5.74 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 11 | 5.74 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 2 | 5.74 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 2 | 5.74 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 18 | 5.74 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 18 | 5.74 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 18 | 5.74 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 18 | 5.74 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 18 | 5.74 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 18 | 5.74 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 13 | 5.74 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 13 | 5.74 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 13 | 5.74 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 13 | 5.74 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 13 | 5.74 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 13 | 5.74 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 16 | 5.74 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 16 | 5.74 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 1 | 5.74 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 1 | 5.74 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 17 | 5.74 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 17 | 5.74 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 4 | 5.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 4 | 5.74 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 2 | 5.74 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 2 | 5.74 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 4 | 5.74 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 4 | 5.74 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 3 | 5.74 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 3 | 5.74 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 2 | 5.74 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 2 | 5.74 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 14 | 5.74 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 14 | 5.74 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 9 | 5.74 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 9 | 5.74 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 8 | 5.74 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 8 | 5.74 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 8 | 5.74 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 8 | 5.74 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 13 | 5.74 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 13 | 5.74 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 13 | 5.74 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 13 | 5.74 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 13 | 5.74 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 13 | 5.74 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 8 | 5.74 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 8 | 5.74 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 8 | 5.74 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 5 | 5.74 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 5 | 5.74 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 5 | 5.74 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 2 | 5.74 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 2 | 5.74 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 2 | 5.74 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 2 | 5.74 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 2 | 5.74 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 2 | 5.74 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 12 | 5.74 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 20 | 5.74 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 17 | 5.74 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 17 | 5.74 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 17 | 5.74 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 4 | 5.74 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 19 | 5.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 15 | 5.74 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 17 | 5.74 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 12 | 5.74 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 6 | 5.74 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 8 | 5.74 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 7 | 5.74 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 7 | 5.74 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 7 | 5.74 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 6 | 5.74 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 6 | 5.74 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 6 | 5.74 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 13 | 5.74 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 13 | 5.74 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 13 | 5.74 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 4 | 5.74 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 14 | 5.74 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 14 | 5.74 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 14 | 5.74 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 20 | 5.74 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 20 | 5.74 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 20 | 5.74 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 2 | 5.74 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 5 | 5.74 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 5 | 5.74 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 5 | 5.74 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 14 | 5.74 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 14 | 5.74 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 14 | 5.74 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 4 | 5.74 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 4 | 5.74 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 4 | 5.74 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 7 | 5.74 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 7 | 5.74 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 7 | 5.74 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 7 | 5.74 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 7 | 5.74 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 7 | 5.74 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 7 | 5.74 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 7 | 5.74 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 7 | 5.74 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 17 | 5.74 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 17 | 5.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 17 | 5.74 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 20 | 5.74 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 1 | 5.74 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 18 | 5.74 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 9 | 5.74 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 9 | 5.74 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 5 | 5.74 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 17 | 5.74 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 2 | 5.74 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 2 | 5.74 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 8 | 5.74 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 8 | 5.74 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 4 | 5.74 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 4 | 5.74 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 4 | 5.74 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 15 | 5.74 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 3 | 5.74 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 2 | 5.74 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 20 | 5.74 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 20 | 5.74 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 20 | 5.74 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 20 | 5.74 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 18 | 5.74 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 18 | 5.74 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 18 | 5.74 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 18 | 5.74 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 18 | 5.74 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 18 | 5.74 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 10 | 5.74 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 10 | 5.74 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 10 | 5.74 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 4 | 5.74 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 14 | 5.74 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 14 | 5.74 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 14 | 5.74 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 11 | 5.74 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 18 | 5.74 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 15 | 5.74 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 7 | 5.74 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 7 | 5.74 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 7 | 5.74 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 4 | 5.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 4 | 5.74 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 4 | 5.74 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 15 | 5.74 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 4 | 5.74 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 2 | 5.74 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 2 | 5.74 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 2 | 5.74 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 8 | 5.74 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 8 | 5.74 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 8 | 5.74 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 2 | 5.74 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 2 | 5.74 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 2 | 5.74 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 6 | 5.74 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 13 | 5.74 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 13 | 5.74 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 17 | 5.74 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 17 | 5.74 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 16 | 5.74 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 16 | 5.74 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 16 | 5.74 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 8 | 5.74 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 9 | 5.74 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 9 | 5.74 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 9 | 5.74 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 1 | 5.74 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 1 | 5.74 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 19 | 5.74 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 4 | 5.74 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 4 | 5.74 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 6 | 5.74 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 18 | 5.74 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 13 | 5.74 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 13 | 5.74 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 13 | 5.74 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 9 | 5.74 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 9 | 5.74 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 9 | 5.74 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 18 | 5.74 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 18 | 5.74 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 18 | 5.74 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 18 | 5.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 18 | 5.74 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 18 | 5.74 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 13 | 5.74 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 13 | 5.74 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 13 | 5.74 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 13 | 5.74 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 13 | 5.74 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 13 | 5.74 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 8 | 5.74 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 5 | 5.74 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 5 | 5.74 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 4 | 5.74 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 4 | 5.74 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 2 | 5.74 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 2 | 5.74 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 2 | 5.74 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 17 | 5.74 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 8 | 5.74 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 8 | 5.74 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 8 | 5.74 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 8 | 5.74 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 2 | 5.74 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 13 | 5.74 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 13 | 5.74 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 13 | 5.74 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 13 | 5.74 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 13 | 5.74 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 13 | 5.74 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 10 | 5.74 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 10 | 5.74 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 10 | 5.74 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 4 | 5.74 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 12 | 5.74 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 14 | 5.74 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 14 | 5.74 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 14 | 5.74 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 15 | 5.74 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 15 | 5.74 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 15 | 5.74 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 9 | 5.74 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 11 | 5.74 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 3 | 5.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 3 | 5.74 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 18 | 5.74 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 4 | 5.74 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 15 | 5.74 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 1 | 5.74 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 11 | 5.74 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 7 | 5.74 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 7 | 5.74 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 7 | 5.74 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 4 | 5.74 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 4 | 5.74 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 4 | 5.74 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 12 | 5.74 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 12 | 5.74 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 12 | 5.74 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 15 | 5.74 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 9 | 5.74 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 9 | 5.74 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 9 | 5.74 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 9 | 5.74 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 9 | 5.74 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 9 | 5.74 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 4 | 5.74 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 11 | 5.74 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 11 | 5.74 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 15 | 5.74 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 5 | 5.74 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 9 | 5.74 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 20 | 5.73 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 13 | 5.73 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 5 | 5.73 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 5 | 5.73 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 19 | 5.73 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 19 | 5.73 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 15 | 5.73 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 15 | 5.73 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 8 | 5.73 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 8 | 5.73 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 8 | 5.73 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 8 | 5.73 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 17 | 5.73 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 17 | 5.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 5 | 5.73 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 5 | 5.73 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 19 | 5.73 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 19 | 5.73 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 9 | 5.73 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 9 | 5.73 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 6 | 5.73 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 6 | 5.73 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 18 | 5.73 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 18 | 5.73 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 4 | 5.73 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 4 | 5.73 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 2 | 5.73 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 2 | 5.73 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 10 | 5.73 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 10 | 5.73 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 10 | 5.73 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 10 | 5.73 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 10 | 5.73 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 10 | 5.73 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 18 | 5.73 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 18 | 5.73 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 11 | 5.73 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 11 | 5.73 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 13 | 5.73 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 13 | 5.73 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 13 | 5.73 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 13 | 5.73 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 13 | 5.73 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 13 | 5.73 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 8 | 5.73 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 8 | 5.73 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 8 | 5.73 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 8 | 5.73 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 11 | 5.73 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 11 | 5.73 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 8 | 5.73 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 8 | 5.73 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 8 | 5.73 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 8 | 5.73 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 8 | 5.73 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 8 | 5.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 3 | 5.73 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 3 | 5.73 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 3 | 5.73 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 18 | 5.73 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 18 | 5.73 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 18 | 5.73 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 2 | 5.73 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 5 | 5.73 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 9 | 5.73 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 5 | 5.73 |
| (1,8361) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 7 | 5.73 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 19 | 5.73 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 6 | 5.73 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 12 | 5.73 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 7 | 5.73 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 7 | 5.73 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 7 | 5.73 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 17 | 5.73 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 17 | 5.73 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 17 | 5.73 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 3 | 5.73 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 3 | 5.73 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 3 | 5.73 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 3 | 5.73 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 4 | 5.73 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 4 | 5.73 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 4 | 5.73 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 4 | 5.73 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 4 | 5.73 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 4 | 5.73 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 4 | 5.73 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 4 | 5.73 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 4 | 5.73 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 18 | 5.73 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 17 | 5.73 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 9 | 5.73 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 4 | 5.73 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 4 | 5.73 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 4 | 5.73 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 4 | 5.73 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 4 | 5.73 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 4 | 5.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 18 | 5.73 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 18 | 5.73 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 20 | 5.73 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 20 | 5.73 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 13 | 5.73 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 13 | 5.73 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 13 | 5.73 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 17 | 5.73 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 17 | 5.73 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 17 | 5.73 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 18 | 5.73 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 18 | 5.73 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 4 | 5.73 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 4 | 5.73 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 7 | 5.73 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 7 | 5.73 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 7 | 5.73 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 7 | 5.73 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 7 | 5.73 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 7 | 5.73 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 6 | 5.73 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 3 | 5.73 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 20 | 5.73 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 15 | 5.73 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 9 | 5.73 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 9 | 5.73 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 9 | 5.73 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 19 | 5.73 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 19 | 5.73 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 19 | 5.73 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 12 | 5.73 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 8 | 5.73 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 8 | 5.73 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 8 | 5.73 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 11 | 5.73 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 2 | 5.73 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 2 | 5.73 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 15 | 5.73 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 15 | 5.73 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 15 | 5.73 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 6 | 5.73 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 7 | 5.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 2 | 5.73 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 4 | 5.73 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 4 | 5.73 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 4 | 5.73 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 10 | 5.73 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 9 | 5.73 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 8 | 5.73 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 8 | 5.73 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 8 | 5.73 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 15 | 5.73 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 15 | 5.73 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 15 | 5.73 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 13 | 5.73 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 13 | 5.73 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 13 | 5.73 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 1 | 5.73 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 8 | 5.73 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 8 | 5.73 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 8 | 5.73 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 17 | 5.73 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 17 | 5.73 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 18 | 5.73 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 18 | 5.73 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 18 | 5.73 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 17 | 5.73 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 17 | 5.73 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 17 | 5.73 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 14 | 5.73 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 14 | 5.73 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 14 | 5.73 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 14 | 5.73 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 14 | 5.73 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 14 | 5.73 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 11 | 5.73 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 11 | 5.73 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 11 | 5.73 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 9 | 5.73 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 17 | 5.73 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 7 | 5.73 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 7 | 5.73 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 13 | 5.73 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 13 | 5.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 3 | 5.73 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 3 | 5.73 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 3 | 5.73 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 6 | 5.73 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 6 | 5.73 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 6 | 5.73 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 1 | 5.73 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 18 | 5.73 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 17 | 5.73 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 19 | 5.73 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 19 | 5.73 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 15 | 5.73 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 15 | 5.73 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 11 | 5.73 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 11 | 5.73 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 18 | 5.73 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 18 | 5.73 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 8 | 5.73 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 8 | 5.73 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 8 | 5.73 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 8 | 5.73 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 7 | 5.73 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 19 | 5.73 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 5 | 5.73 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 5 | 5.73 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 5 | 5.73 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 19 | 5.73 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 19 | 5.73 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 15 | 5.73 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 15 | 5.73 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 15 | 5.73 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 10 | 5.73 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 11 | 5.73 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 11 | 5.73 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 13 | 5.73 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 13 | 5.73 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 13 | 5.73 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 13 | 5.73 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 13 | 5.73 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 13 | 5.73 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 11 | 5.73 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 11 | 5.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 5.73 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 5.73 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 1 | 5.73 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 1 | 5.73 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 1 | 5.73 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 18 | 5.73 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 7 | 5.73 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 7 | 5.73 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 7 | 5.73 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 9 | 5.73 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 9 | 5.73 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 9 | 5.73 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 19 | 5.73 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 19 | 5.73 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 19 | 5.73 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 10 | 5.73 |
| (1,3324) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 10 | 5.73 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 17 | 5.73 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 17 | 5.73 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 12 | 5.73 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 8 | 5.73 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 8 | 5.73 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 8 | 5.73 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 11 | 5.73 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 2 | 5.73 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 2 | 5.73 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 15 | 5.73 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 15 | 5.73 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 15 | 5.73 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 6 | 5.73 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 7 | 5.73 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 2 | 5.73 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 4 | 5.73 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 4 | 5.73 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 4 | 5.73 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 10 | 5.73 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 9 | 5.73 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 8 | 5.73 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 8 | 5.73 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 8 | 5.73 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 15 | 5.73 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 15 | 5.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 15 | 5.73 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 13 | 5.73 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 13 | 5.73 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 13 | 5.73 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 13 | 5.73 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 13 | 5.73 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 13 | 5.73 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 1 | 5.73 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 4 | 5.73 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 4 | 5.73 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 4 | 5.73 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 8 | 5.73 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 8 | 5.73 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 8 | 5.73 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 12 | 5.73 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 12 | 5.73 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 12 | 5.73 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 17 | 5.73 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 17 | 5.73 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 18 | 5.73 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 18 | 5.73 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 18 | 5.73 |
| (1,570) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 18 | 5.73 |
| (1,570) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 18 | 5.73 |
| (1,570) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 18 | 5.73 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 10 | 5.73 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 10 | 5.73 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 10 | 5.73 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 17 | 5.73 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 17 | 5.73 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 17 | 5.73 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 4 | 5.73 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 4 | 5.73 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 4 | 5.73 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 4 | 5.73 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 4 | 5.73 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 4 | 5.73 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 18 | 5.72 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 14 | 5.72 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 14 | 5.72 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 12 | 5.72 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 12 | 5.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 12 | 5.72 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 12 | 5.72 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 12 | 5.72 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 12 | 5.72 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 12 | 5.72 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 12 | 5.72 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 12 | 5.72 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 12 | 5.72 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 12 | 5.72 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 12 | 5.72 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 7 | 5.72 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 7 | 5.72 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 7 | 5.72 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 7 | 5.72 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 7 | 5.72 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 7 | 5.72 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 5.72 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 5.72 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 16 | 5.72 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 16 | 5.72 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 14 | 5.72 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 14 | 5.72 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 1 | 5.72 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 1 | 5.72 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 11 | 5.72 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 11 | 5.72 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 11 | 5.72 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 11 | 5.72 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 11 | 5.72 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 11 | 5.72 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 8 | 5.72 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 8 | 5.72 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 8 | 5.72 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 8 | 5.72 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 9 | 5.72 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 9 | 5.72 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 9 | 5.72 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 9 | 5.72 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 8 | 5.72 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 8 | 5.72 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 8 | 5.72 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 8 | 5.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 2 | 5.72 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 2 | 5.72 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 7 | 5.72 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 7 | 5.72 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 7 | 5.72 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 7 | 5.72 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 7 | 5.72 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 7 | 5.72 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 8 | 5.72 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 8 | 5.72 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 17 | 5.72 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 17 | 5.72 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 17 | 5.72 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 17 | 5.72 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 17 | 5.72 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 17 | 5.72 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 18 | 5.72 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 18 | 5.72 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 4 | 5.72 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 4 | 5.72 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 8 | 5.72 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 8 | 5.72 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 7 | 5.72 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 7 | 5.72 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 2 | 5.72 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 2 | 5.72 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 2 | 5.72 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 2 | 5.72 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 2 | 5.72 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 3 | 5.72 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 3 | 5.72 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 3 | 5.72 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 18 | 5.72 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 18 | 5.72 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 4 | 5.72 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 4 | 5.72 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 1 | 5.72 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 1 | 5.72 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 8 | 5.72 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 8 | 5.72 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 15 | 5.72 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 4 | 5.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 4 | 5.72 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 4 | 5.72 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 17 | 5.72 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 3 | 5.72 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 3 | 5.72 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 1 | 5.72 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 1 | 5.72 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 1 | 5.72 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 2 | 5.72 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 2 | 5.72 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 2 | 5.72 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 18 | 5.72 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 18 | 5.72 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 18 | 5.72 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 18 | 5.72 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 18 | 5.72 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 18 | 5.72 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 10 | 5.72 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 10 | 5.72 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 10 | 5.72 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 20 | 5.72 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 12 | 5.72 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 8 | 5.72 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 8 | 5.72 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 8 | 5.72 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 19 | 5.72 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 19 | 5.72 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 19 | 5.72 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 19 | 5.72 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 19 | 5.72 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 19 | 5.72 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 19 | 5.72 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 19 | 5.72 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 19 | 5.72 |
| (1,7780) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 19 | 5.72 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 14 | 5.72 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 5 | 5.72 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 19 | 5.72 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 19 | 5.72 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 16 | 5.72 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 16 | 5.72 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 16 | 5.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 3 | 5.72 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 3 | 5.72 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 3 | 5.72 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 3 | 5.72 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 3 | 5.72 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 3 | 5.72 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 7 | 5.72 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 15 | 5.72 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 15 | 5.72 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 8 | 5.72 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 16 | 5.72 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 16 | 5.72 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 16 | 5.72 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 11 | 5.72 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 11 | 5.72 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 11 | 5.72 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 13 | 5.72 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 13 | 5.72 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 13 | 5.72 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 13 | 5.72 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 18 | 5.72 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 3 | 5.72 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 3 | 5.72 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 3 | 5.72 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 3 | 5.72 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 3 | 5.72 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 3 | 5.72 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 3 | 5.72 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 3 | 5.72 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 3 | 5.72 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 7 | 5.72 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 10 | 5.72 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 10 | 5.72 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 10 | 5.72 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 4 | 5.72 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 6 | 5.72 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 6 | 5.72 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 6 | 5.72 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 11 | 5.72 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 11 | 5.72 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 3 | 5.72 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 3 | 5.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 3 | 5.72 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 3 | 5.72 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 3 | 5.72 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 3 | 5.72 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 13 | 5.72 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 13 | 5.72 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 13 | 5.72 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 19 | 5.72 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 19 | 5.72 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 19 | 5.72 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 15 | 5.72 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 15 | 5.72 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 15 | 5.72 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 1 | 5.72 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 1 | 5.72 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 4 | 5.72 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 4 | 5.72 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 11 | 5.72 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 11 | 5.72 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 11 | 5.72 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 12 | 5.72 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 18 | 5.72 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 9 | 5.72 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 13 | 5.72 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 13 | 5.72 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 13 | 5.72 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 1 | 5.72 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 1 | 5.72 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 3 | 5.72 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 3 | 5.72 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 3 | 5.72 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 13 | 5.72 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 13 | 5.72 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 6 | 5.72 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 6 | 5.72 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 6 | 5.72 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 14 | 5.72 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 14 | 5.72 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 14 | 5.72 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 12 | 5.72 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 18 | 5.72 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 2 | 5.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 2 | 5.72 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 2 | 5.72 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 13 | 5.72 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 13 | 5.72 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 13 | 5.72 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 4 | 5.72 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 19 | 5.72 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 5.72 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 5.72 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 7 | 5.72 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 7 | 5.72 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 7 | 5.72 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 7 | 5.72 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 7 | 5.72 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 7 | 5.72 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 5.72 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 5.72 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 2 | 5.72 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 8 | 5.72 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 8 | 5.72 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 8 | 5.72 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 8 | 5.72 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 9 | 5.72 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 9 | 5.72 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 9 | 5.72 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 9 | 5.72 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 12 | 5.72 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 8 | 5.72 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 8 | 5.72 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 11 | 5.72 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 11 | 5.72 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 5.72 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 5.72 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 5 | 5.72 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 5 | 5.72 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 5 | 5.72 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 3 | 5.72 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 17 | 5.72 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 17 | 5.72 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 18 | 5.72 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 18 | 5.72 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 7 | 5.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 16 | 5.72 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 16 | 5.72 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 16 | 5.72 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 16 | 5.72 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 5.72 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 5.72 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 5.72 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 10 | 5.72 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 10 | 5.72 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 11 | 5.72 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 11 | 5.72 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 11 | 5.72 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 12 | 5.72 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 13 | 5.72 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 13 | 5.72 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 15 | 5.72 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 15 | 5.72 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 15 | 5.72 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 3 | 5.72 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 3 | 5.72 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 3 | 5.72 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 3 | 5.72 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 3 | 5.72 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 3 | 5.72 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 3 | 5.72 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 3 | 5.72 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 3 | 5.72 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 8 | 5.72 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 8 | 5.72 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 7 | 5.72 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 10 | 5.72 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 10 | 5.72 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 10 | 5.72 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 4 | 5.72 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 6 | 5.72 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 6 | 5.72 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 6 | 5.72 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 11 | 5.72 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 11 | 5.72 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 9 | 5.72 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 9 | 5.72 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 7 | 5.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 7 | 5.72 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 7 | 5.72 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 18 | 5.72 |
| (1,2064) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 6 | 5.72 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 3 | 5.72 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 3 | 5.72 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 3 | 5.72 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 3 | 5.72 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 3 | 5.72 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 3 | 5.72 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 13 | 5.72 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 13 | 5.72 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 13 | 5.72 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 13 | 5.72 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 19 | 5.72 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 19 | 5.72 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 19 | 5.72 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 15 | 5.72 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 15 | 5.72 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 15 | 5.72 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 4 | 5.72 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 4 | 5.72 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 4 | 5.72 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 13 | 5.72 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 13 | 5.72 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 13 | 5.72 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 1 | 5.72 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 1 | 5.72 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 4 | 5.72 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 4 | 5.72 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 11 | 5.72 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 11 | 5.72 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 11 | 5.72 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 12 | 5.72 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 18 | 5.72 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 3 | 5.72 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 16 | 5.71 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 2 | 5.71 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 14 | 5.71 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 11 | 5.71 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 11 | 5.71 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 11 | 5.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 11 | 5.71 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 11 | 5.71 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 11 | 5.71 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 5 | 5.71 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 5 | 5.71 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 1 | 5.71 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 1 | 5.71 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 14 | 5.71 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 14 | 5.71 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 8 | 5.71 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 8 | 5.71 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 5 | 5.71 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 5 | 5.71 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 4 | 5.71 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 4 | 5.71 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 12 | 5.71 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 12 | 5.71 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 12 | 5.71 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 12 | 5.71 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 12 | 5.71 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 12 | 5.71 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 12 | 5.71 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 12 | 5.71 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 17 | 5.71 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 17 | 5.71 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 19 | 5.71 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 19 | 5.71 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 12 | 5.71 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 12 | 5.71 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 12 | 5.71 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 12 | 5.71 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 12 | 5.71 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 12 | 5.71 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 20 | 5.71 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 20 | 5.71 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 20 | 5.71 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 20 | 5.71 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 13 | 5.71 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 13 | 5.71 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 16 | 5.71 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 16 | 5.71 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 16 | 5.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 16 | 5.71 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 14 | 5.71 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 14 | 5.71 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 10 | 5.71 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 10 | 5.71 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 5 | 5.71 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 5 | 5.71 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 5 | 5.71 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 5 | 5.71 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 19 | 5.71 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 19 | 5.71 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 2 | 5.71 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 2 | 5.71 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 7 | 5.71 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 2 | 5.71 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 2 | 5.71 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 2 | 5.71 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 2 | 5.71 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 1 | 5.71 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 11 | 5.71 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 20 | 5.71 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 11 | 5.71 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 11 | 5.71 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 11 | 5.71 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 20 | 5.71 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 20 | 5.71 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 11 | 5.71 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 17 | 5.71 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 12 | 5.71 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 12 | 5.71 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 12 | 5.71 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 12 | 5.71 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 12 | 5.71 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 12 | 5.71 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 12 | 5.71 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 12 | 5.71 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 12 | 5.71 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 12 | 5.71 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 17 | 5.71 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 4 | 5.71 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 4 | 5.71 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 4 | 5.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 2 | 5.71 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 1 | 5.71 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 1 | 5.71 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 1 | 5.71 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 2 | 5.71 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 2 | 5.71 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 2 | 5.71 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 20 | 5.71 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 20 | 5.71 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 20 | 5.71 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 20 | 5.71 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 17 | 5.71 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 17 | 5.71 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 17 | 5.71 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 7 | 5.71 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 7 | 5.71 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 7 | 5.71 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 5 | 5.71 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 5 | 5.71 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 5 | 5.71 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 18 | 5.71 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 9 | 5.71 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 18 | 5.71 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 18 | 5.71 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 5 | 5.71 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 5 | 5.71 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 11 | 5.71 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 11 | 5.71 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 15 | 5.71 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 18 | 5.71 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 20 | 5.71 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 20 | 5.71 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 20 | 5.71 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 13 | 5.71 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 13 | 5.71 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 6 | 5.71 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 6 | 5.71 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 6 | 5.71 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 1 | 5.71 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 19 | 5.71 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 19 | 5.71 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 19 | 5.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 5 | 5.71 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 16 | 5.71 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 8 | 5.71 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 8 | 5.71 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 13 | 5.71 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 13 | 5.71 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 13 | 5.71 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 18 | 5.71 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 6 | 5.71 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 11 | 5.71 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 11 | 5.71 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 3 | 5.71 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 3 | 5.71 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 1 | 5.71 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 9 | 5.71 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 3 | 5.71 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 3 | 5.71 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 3 | 5.71 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 16 | 5.71 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 16 | 5.71 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 16 | 5.71 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 15 | 5.71 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 9 | 5.71 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 9 | 5.71 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 9 | 5.71 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 9 | 5.71 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 9 | 5.71 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 9 | 5.71 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 13 | 5.71 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 18 | 5.71 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 18 | 5.71 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 18 | 5.71 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 7 | 5.71 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 14 | 5.71 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 14 | 5.71 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 14 | 5.71 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 9 | 5.71 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 9 | 5.71 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 9 | 5.71 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 12 | 5.71 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 12 | 5.71 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 12 | 5.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 4 | 5.71 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 4 | 5.71 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 6 | 5.71 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 6 | 5.71 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 6 | 5.71 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 10 | 5.71 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 10 | 5.71 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 11 | 5.71 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 11 | 5.71 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 11 | 5.71 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 11 | 5.71 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 11 | 5.71 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 11 | 5.71 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 11 | 5.71 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 11 | 5.71 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 11 | 5.71 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 14 | 5.71 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 7 | 5.71 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 7 | 5.71 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 7 | 5.71 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 8 | 5.71 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 8 | 5.71 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 8 | 5.71 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 13 | 5.71 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 16 | 5.71 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 6 | 5.71 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 6 | 5.71 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 6 | 5.71 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 18 | 5.71 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 11 | 5.71 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 11 | 5.71 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 11 | 5.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 11 | 5.71 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 11 | 5.71 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 11 | 5.71 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 13 | 5.71 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 13 | 5.71 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 13 | 5.71 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 13 | 5.71 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 13 | 5.71 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 13 | 5.71 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 5 | 5.71 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 5 | 5.71 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 2 | 5.71 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 2 | 5.71 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 2 | 5.71 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 2 | 5.71 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 5.71 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 5.71 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 8 | 5.71 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 8 | 5.71 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 17 | 5.71 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 11 | 5.71 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 4 | 5.71 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 4 | 5.71 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 12 | 5.71 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 12 | 5.71 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 12 | 5.71 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 12 | 5.71 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 12 | 5.71 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 12 | 5.71 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 13 | 5.71 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 12 | 5.71 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 12 | 5.71 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 3 | 5.71 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 6 | 5.71 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 11 | 5.71 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 11 | 5.71 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 12 | 5.71 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 14 | 5.71 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 17 | 5.71 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 17 | 5.71 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 2 | 5.71 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 2 | 5.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 2 | 5.71 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 3 | 5.71 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 16 | 5.71 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 16 | 5.71 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 16 | 5.71 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 16 | 5.71 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 14 | 5.71 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 14 | 5.71 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 8 | 5.71 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 10 | 5.71 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 10 | 5.71 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 14 | 5.71 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 14 | 5.71 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 5 | 5.71 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 5 | 5.71 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 5 | 5.71 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 5 | 5.71 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 2 | 5.71 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 2 | 5.71 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 13 | 5.71 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 13 | 5.71 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 13 | 5.71 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 18 | 5.71 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 6 | 5.71 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 6 | 5.71 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 6 | 5.71 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 13 | 5.71 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 13 | 5.71 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 13 | 5.71 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 18 | 5.71 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 6 | 5.71 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 11 | 5.71 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 11 | 5.71 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 3 | 5.71 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 3 | 5.71 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 1 | 5.71 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 9 | 5.71 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 19 | 5.71 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 19 | 5.71 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 19 | 5.71 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 3 | 5.71 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 3 | 5.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 3 | 5.71 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 16 | 5.71 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 16 | 5.71 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 16 | 5.71 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 11 | 5.71 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 9 | 5.71 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 9 | 5.71 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 9 | 5.71 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 9 | 5.71 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 9 | 5.71 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 9 | 5.71 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 13 | 5.71 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 13 | 5.71 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 13 | 5.71 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 13 | 5.71 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 18 | 5.71 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 18 | 5.71 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 18 | 5.71 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 3 | 5.71 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 3 | 5.71 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 3 | 5.71 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 15 | 5.71 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 15 | 5.71 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 5.71 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 7 | 5.71 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 19 | 5.71 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 14 | 5.71 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 14 | 5.71 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 14 | 5.71 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 9 | 5.71 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 9 | 5.71 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 9 | 5.71 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 12 | 5.71 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 12 | 5.71 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 12 | 5.71 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 15 | 5.7 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 19 | 5.7 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 16 | 5.7 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 15 | 5.7 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 15 | 5.7 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 1 | 5.7 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 1 | 5.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 5 | 5.7 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 5 | 5.7 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 1 | 5.7 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 1 | 5.7 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 5 | 5.7 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 5 | 5.7 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 5 | 5.7 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 5 | 5.7 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 9 | 5.7 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 9 | 5.7 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 20 | 5.7 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 20 | 5.7 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 5 | 5.7 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 5 | 5.7 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 3 | 5.7 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 3 | 5.7 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 6 | 5.7 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 6 | 5.7 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 6 | 5.7 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 6 | 5.7 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 2 | 5.7 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 2 | 5.7 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 8 | 5.7 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 8 | 5.7 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 8 | 5.7 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 8 | 5.7 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 8 | 5.7 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 8 | 5.7 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 20 | 5.7 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 5.7 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 6 | 5.7 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 6 | 5.7 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 11 | 5.7 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 11 | 5.7 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 18 | 5.7 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 18 | 5.7 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 20 | 5.7 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 20 | 5.7 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 8 | 5.7 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 8 | 5.7 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 19 | 5.7 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 19 | 5.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 19 | 5.7 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 1 | 5.7 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 1 | 5.7 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 1 | 5.7 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 5 | 5.7 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 14 | 5.7 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 2 | 5.7 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 2 | 5.7 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 2 | 5.7 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 2 | 5.7 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 20 | 5.7 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 20 | 5.7 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 20 | 5.7 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 19 | 5.7 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 1 | 5.7 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 1 | 5.7 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 1 | 5.7 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 14 | 5.7 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 14 | 5.7 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 14 | 5.7 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 1 | 5.7 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 17 | 5.7 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 17 | 5.7 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 17 | 5.7 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 9 | 5.7 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 9 | 5.7 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 9 | 5.7 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 20 | 5.7 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 10 | 5.7 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 10 | 5.7 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 14 | 5.7 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 18 | 5.7 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 18 | 5.7 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 2 | 5.7 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 2 | 5.7 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 2 | 5.7 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 5 | 5.7 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 5 | 5.7 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 5 | 5.7 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 5 | 5.7 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 5 | 5.7 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 5 | 5.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 5 | 5.7 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 5 | 5.7 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 5 | 5.7 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 14 | 5.7 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 6 | 5.7 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 6 | 5.7 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 19 | 5.7 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 19 | 5.7 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 19 | 5.7 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 14 | 5.7 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 10 | 5.7 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 10 | 5.7 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 10 | 5.7 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 10 | 5.7 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 9 | 5.7 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 9 | 5.7 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 9 | 5.7 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 9 | 5.7 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 9 | 5.7 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 9 | 5.7 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 13 | 5.7 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 13 | 5.7 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 7 | 5.7 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 7 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 1 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 1 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 1 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 1 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 1 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 1 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 11 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 11 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 11 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 11 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 11 | 5.7 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 11 | 5.7 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 14 | 5.7 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 14 | 5.7 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 14 | 5.7 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 13 | 5.7 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 13 | 5.7 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 13 | 5.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 17 | 5.7 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 13 | 5.7 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 15 | 5.7 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 13 | 5.7 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 13 | 5.7 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 13 | 5.7 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 7 | 5.7 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 3 | 5.7 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 10 | 5.7 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 15 | 5.7 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 8 | 5.7 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 8 | 5.7 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 8 | 5.7 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 13 | 5.7 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 13 | 5.7 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 13 | 5.7 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 15 | 5.7 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 4 | 5.7 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 4 | 5.7 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 4 | 5.7 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 15 | 5.7 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 15 | 5.7 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 15 | 5.7 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 7 | 5.7 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 7 | 5.7 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 7 | 5.7 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 11 | 5.7 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 11 | 5.7 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 11 | 5.7 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 14 | 5.7 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 17 | 5.7 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 17 | 5.7 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 17 | 5.7 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 11 | 5.7 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 4 | 5.7 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 14 | 5.7 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 14 | 5.7 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 14 | 5.7 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 1 | 5.7 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 18 | 5.7 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 18 | 5.7 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 18 | 5.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 10 | 5.7 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 10 | 5.7 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 10 | 5.7 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 2 | 5.7 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 2 | 5.7 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 2 | 5.7 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 2 | 5.7 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 7 | 5.7 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 7 | 5.7 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 5.7 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 5 | 5.7 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 5.7 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 5.7 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 5.7 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 10 | 5.7 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 9 | 5.7 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 9 | 5.7 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 9 | 5.7 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 16 | 5.7 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 16 | 5.7 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 16 | 5.7 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 13 | 5.7 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 1 | 5.7 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 1 | 5.7 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 9 | 5.7 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 6 | 5.7 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 6 | 5.7 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 6 | 5.7 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 6 | 5.7 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 2 | 5.7 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 2 | 5.7 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 16 | 5.7 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 16 | 5.7 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 16 | 5.7 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 20 | 5.7 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 5.7 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 6 | 5.7 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 6 | 5.7 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 14 | 5.7 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 4 | 5.7 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 4 | 5.7 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 4 | 5.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 15 | 5.7 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 11 | 5.7 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 11 | 5.7 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 9 | 5.7 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 4 | 5.7 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 11 | 5.7 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 12 | 5.7 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 2 | 5.7 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 5 | 5.7 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 5 | 5.7 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 7 | 5.7 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 7 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 1 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 1 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 1 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 1 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 1 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 1 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 11 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 11 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 11 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 11 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 11 | 5.7 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 11 | 5.7 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 14 | 5.7 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 14 | 5.7 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 14 | 5.7 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 13 | 5.7 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 13 | 5.7 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 13 | 5.7 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 17 | 5.7 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 13 | 5.7 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 15 | 5.7 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 13 | 5.7 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 13 | 5.7 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 13 | 5.7 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 7 | 5.7 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 3 | 5.7 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 10 | 5.7 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 10 | 5.7 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 10 | 5.7 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 10 | 5.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 15 | 5.7 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 13 | 5.7 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 8 | 5.7 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 8 | 5.7 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 8 | 5.7 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 8 | 5.7 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 8 | 5.7 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 3 | 5.7 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 13 | 5.7 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 13 | 5.7 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 13 | 5.7 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 6 | 5.7 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 6 | 5.7 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 6 | 5.7 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 6 | 5.7 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 6 | 5.7 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 6 | 5.7 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 15 | 5.7 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 15 | 5.7 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 15 | 5.7 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 15 | 5.7 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 4 | 5.7 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 4 | 5.7 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 4 | 5.7 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 15 | 5.7 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 15 | 5.7 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 15 | 5.7 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 7 | 5.7 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 7 | 5.7 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 7 | 5.7 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 11 | 5.7 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 11 | 5.7 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 11 | 5.7 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 9 | 5.7 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 14 | 5.7 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 8 | 5.7 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 5 | 5.69 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 6 | 5.69 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 6 | 5.69 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 20 | 5.69 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 4 | 5.69 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 20 | 5.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 13 | 5.69 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 13 | 5.69 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 12 | 5.69 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 12 | 5.69 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 9 | 5.69 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 9 | 5.69 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 13 | 5.69 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 13 | 5.69 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 3 | 5.69 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 3 | 5.69 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 14 | 5.69 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 14 | 5.69 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 14 | 5.69 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 14 | 5.69 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 10 | 5.69 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 10 | 5.69 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 6 | 5.69 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 6 | 5.69 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 6 | 5.69 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 6 | 5.69 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 5 | 5.69 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 5 | 5.69 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 12 | 5.69 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 12 | 5.69 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 5.69 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 5.69 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 19 | 5.69 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 19 | 5.69 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 19 | 5.69 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 19 | 5.69 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 19 | 5.69 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 19 | 5.69 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 8 | 5.69 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 8 | 5.69 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 7 | 5.69 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 7 | 5.69 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 7 | 5.69 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 7 | 5.69 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 7 | 5.69 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 7 | 5.69 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 19 | 5.69 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 19 | 5.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 10 | 5.69 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 10 | 5.69 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 17 | 5.69 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 17 | 5.69 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 17 | 5.69 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 17 | 5.69 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 11 | 5.69 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 15 | 5.69 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 15 | 5.69 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 15 | 5.69 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 15 | 5.69 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 15 | 5.69 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 15 | 5.69 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 15 | 5.69 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 15 | 5.69 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 15 | 5.69 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 7 | 5.69 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 7 | 5.69 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 7 | 5.69 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 7 | 5.69 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 7 | 5.69 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 7 | 5.69 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 12 | 5.69 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 12 | 5.69 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 12 | 5.69 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 4 | 5.69 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 4 | 5.69 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 4 | 5.69 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 19 | 5.69 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 19 | 5.69 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 19 | 5.69 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 14 | 5.69 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 6 | 5.69 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 20 | 5.69 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 8 | 5.69 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 9 | 5.69 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 9 | 5.69 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 9 | 5.69 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 7 | 5.69 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 7 | 5.69 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 7 | 5.69 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 8 | 5.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 8 | 5.69 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 7 | 5.69 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 20 | 5.69 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 16 | 5.69 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 8 | 5.69 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 8 | 5.69 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 10 | 5.69 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 17 | 5.69 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 18 | 5.69 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 18 | 5.69 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 18 | 5.69 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 20 | 5.69 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 20 | 5.69 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 20 | 5.69 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 20 | 5.69 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 20 | 5.69 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 20 | 5.69 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 20 | 5.69 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 20 | 5.69 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 20 | 5.69 |
| (1,7807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:H | 13 | 5.69 |
| (1,7807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:H | 13 | 5.69 |
| (1,7807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:H | 13 | 5.69 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 12 | 5.69 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 12 | 5.69 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 12 | 5.69 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 2 | 5.69 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 2 | 5.69 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 2 | 5.69 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 10 | 5.69 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 10 | 5.69 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 10 | 5.69 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 11 | 5.69 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 11 | 5.69 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 11 | 5.69 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 8 | 5.69 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 8 | 5.69 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 8 | 5.69 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 15 | 5.69 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 15 | 5.69 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 17 | 5.69 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 17 | 5.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 4 | 5.69 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 14 | 5.69 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 14 | 5.69 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 14 | 5.69 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 4 | 5.69 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 10 | 5.69 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 10 | 5.69 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 3 | 5.69 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 3 | 5.69 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 3 | 5.69 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 3 | 5.69 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 1 | 5.69 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 1 | 5.69 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 1 | 5.69 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 14 | 5.69 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 19 | 5.69 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 16 | 5.69 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 16 | 5.69 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 16 | 5.69 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 16 | 5.69 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 16 | 5.69 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 16 | 5.69 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 10 | 5.69 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 20 | 5.69 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 20 | 5.69 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 20 | 5.69 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 15 | 5.69 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 9 | 5.69 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 17 | 5.69 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 17 | 5.69 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 14 | 5.69 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 4 | 5.69 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 4 | 5.69 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 4 | 5.69 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 4 | 5.69 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 4 | 5.69 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 4 | 5.69 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 11 | 5.69 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 11 | 5.69 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 11 | 5.69 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 11 | 5.69 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 11 | 5.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 11 | 5.69 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 10 | 5.69 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 10 | 5.69 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 10 | 5.69 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 10 | 5.69 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 10 | 5.69 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 10 | 5.69 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 10 | 5.69 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 10 | 5.69 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 10 | 5.69 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 5 | 5.69 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 5 | 5.69 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 5 | 5.69 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 18 | 5.69 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 5.69 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 5.69 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 5.69 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 19 | 5.69 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 19 | 5.69 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 9 | 5.69 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 9 | 5.69 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 9 | 5.69 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 9 | 5.69 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 9 | 5.69 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 9 | 5.69 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 9 | 5.69 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 9 | 5.69 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 9 | 5.69 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 20 | 5.69 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 20 | 5.69 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 20 | 5.69 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 2 | 5.69 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 2 | 5.69 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 2 | 5.69 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 14 | 5.69 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 3 | 5.69 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 19 | 5.69 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 19 | 5.69 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 19 | 5.69 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 3 | 5.69 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 3 | 5.69 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 3 | 5.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4723) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 19 | 5.69 |
| (1,4723) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 19 | 5.69 |
| (1,4723) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 19 | 5.69 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 17 | 5.69 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 17 | 5.69 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 17 | 5.69 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 18 | 5.69 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 18 | 5.69 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 4 | 5.69 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 14 | 5.69 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 14 | 5.69 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 14 | 5.69 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 14 | 5.69 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 10 | 5.69 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 10 | 5.69 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 1 | 5.69 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 6 | 5.69 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 5.69 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 5.69 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 19 | 5.69 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 19 | 5.69 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 19 | 5.69 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 19 | 5.69 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 19 | 5.69 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 19 | 5.69 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 8 | 5.69 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 8 | 5.69 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 7 | 5.69 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 7 | 5.69 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 7 | 5.69 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 7 | 5.69 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 7 | 5.69 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 7 | 5.69 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 11 | 5.69 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 1 | 5.69 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 7 | 5.69 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 7 | 5.69 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 5 | 5.69 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 17 | 5.69 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 17 | 5.69 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 8 | 5.69 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 5 | 5.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 20 | 5.69 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 20 | 5.69 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 20 | 5.69 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 5.69 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 5.69 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 16 | 5.69 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 16 | 5.69 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 15 | 5.69 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 6 | 5.69 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 6 | 5.69 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 6 | 5.69 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 9 | 5.69 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 14 | 5.69 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 14 | 5.69 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 17 | 5.69 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 17 | 5.69 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 14 | 5.69 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 4 | 5.69 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 4 | 5.69 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 4 | 5.69 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 4 | 5.69 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 4 | 5.69 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 4 | 5.69 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 11 | 5.69 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 11 | 5.69 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 11 | 5.69 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 11 | 5.69 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 11 | 5.69 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 11 | 5.69 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 1 | 5.69 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 1 | 5.69 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 1 | 5.69 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 5.69 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 5.69 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 5.69 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 5 | 5.69 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 5 | 5.69 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 5 | 5.69 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 10 | 5.69 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 10 | 5.69 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 10 | 5.69 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 10 | 5.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 10 | 5.69 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 10 | 5.69 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 10 | 5.69 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 10 | 5.69 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 10 | 5.69 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 5 | 5.69 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 5 | 5.69 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 5 | 5.69 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 9 | 5.69 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 9 | 5.69 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 9 | 5.69 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 14 | 5.69 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 14 | 5.69 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 14 | 5.69 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 14 | 5.69 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 14 | 5.69 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 14 | 5.69 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 18 | 5.69 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 5.69 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 5.69 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 5.69 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 3 | 5.69 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 3 | 5.69 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 3 | 5.69 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 19 | 5.69 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 9 | 5.69 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 16 | 5.69 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 19 | 5.69 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 19 | 5.69 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 19 | 5.69 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 5 | 5.69 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 5 | 5.69 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 5 | 5.69 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 18 | 5.68 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 10 | 5.68 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 1 | 5.68 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 15 | 5.68 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 11 | 5.68 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 11 | 5.68 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 11 | 5.68 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 11 | 5.68 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 11 | 5.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 11 | 5.68 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 14 | 5.68 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 14 | 5.68 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 4 | 5.68 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 4 | 5.68 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 7 | 5.68 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 7 | 5.68 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 19 | 5.68 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 19 | 5.68 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 15 | 5.68 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 15 | 5.68 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 11 | 5.68 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 11 | 5.68 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 11 | 5.68 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 11 | 5.68 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 11 | 5.68 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 11 | 5.68 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 11 | 5.68 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 11 | 5.68 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 6 | 5.68 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 6 | 5.68 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 14 | 5.68 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 14 | 5.68 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 14 | 5.68 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 14 | 5.68 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 14 | 5.68 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 14 | 5.68 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 8 | 5.68 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 8 | 5.68 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 16 | 5.68 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 16 | 5.68 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 16 | 5.68 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 16 | 5.68 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 16 | 5.68 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 16 | 5.68 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 17 | 5.68 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 17 | 5.68 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 18 | 5.68 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 18 | 5.68 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 1 | 5.68 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 1 | 5.68 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 10 | 5.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 10 | 5.68 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 4 | 5.68 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 4 | 5.68 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 4 | 5.68 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 4 | 5.68 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 4 | 5.68 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 4 | 5.68 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 4 | 5.68 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 4 | 5.68 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 4 | 5.68 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 4 | 5.68 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 4 | 5.68 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 4 | 5.68 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 4 | 5.68 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 4 | 5.68 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 11 | 5.68 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 11 | 5.68 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 4 | 5.68 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 4 | 5.68 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 17 | 5.68 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 17 | 5.68 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 17 | 5.68 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 17 | 5.68 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 12 | 5.68 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 12 | 5.68 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 13 | 5.68 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 13 | 5.68 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 13 | 5.68 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 13 | 5.68 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 5.68 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 5.68 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 13 | 5.68 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 1 | 5.68 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 6 | 5.68 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 3 | 5.68 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 16 | 5.68 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 16 | 5.68 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 12 | 5.68 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 12 | 5.68 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 12 | 5.68 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 15 | 5.68 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 5 | 5.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 5 | 5.68 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 5 | 5.68 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 4 | 5.68 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 4 | 5.68 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 4 | 5.68 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD11 | 20 | 5.68 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD12 | 20 | 5.68 |
| (1,8095) | 1:92:A:TYR:HA | 1:158:A:ILE:HD13 | 20 | 5.68 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 10 | 5.68 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 10 | 5.68 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 10 | 5.68 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 10 | 5.68 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 1 | 5.68 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 1 | 5.68 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 1 | 5.68 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 8 | 5.68 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 9 | 5.68 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 9 | 5.68 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 14 | 5.68 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 2 | 5.68 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 2 | 5.68 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 17 | 5.68 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 17 | 5.68 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 20 | 5.68 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 3 | 5.68 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 3 | 5.68 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 3 | 5.68 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 5 | 5.68 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 5 | 5.68 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 5 | 5.68 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 15 | 5.68 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 7 | 5.68 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 7 | 5.68 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 7 | 5.68 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 7 | 5.68 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 7 | 5.68 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 7 | 5.68 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 7 | 5.68 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 7 | 5.68 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 7 | 5.68 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 6 | 5.68 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 6 | 5.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 6 | 5.68 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 17 | 5.68 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 17 | 5.68 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 17 | 5.68 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 17 | 5.68 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 17 | 5.68 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 17 | 5.68 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 17 | 5.68 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 17 | 5.68 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 17 | 5.68 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 11 | 5.68 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 11 | 5.68 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 11 | 5.68 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 11 | 5.68 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 10 | 5.68 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 7 | 5.68 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 2 | 5.68 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 2 | 5.68 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 2 | 5.68 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 10 | 5.68 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 10 | 5.68 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 10 | 5.68 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 17 | 5.68 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 20 | 5.68 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 19 | 5.68 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 19 | 5.68 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 14 | 5.68 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 13 | 5.68 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 5 | 5.68 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 19 | 5.68 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 19 | 5.68 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 19 | 5.68 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 19 | 5.68 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 15 | 5.68 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 15 | 5.68 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 15 | 5.68 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 15 | 5.68 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 15 | 5.68 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 15 | 5.68 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 18 | 5.68 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 5 | 5.68 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 18 | 5.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 18 | 5.68 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 18 | 5.68 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 7 | 5.68 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 16 | 5.68 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 16 | 5.68 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 16 | 5.68 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 15 | 5.68 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 6 | 5.68 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 6 | 5.68 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 6 | 5.68 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 12 | 5.68 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 12 | 5.68 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 12 | 5.68 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 12 | 5.68 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 12 | 5.68 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 12 | 5.68 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 5 | 5.68 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 5 | 5.68 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 5 | 5.68 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 18 | 5.68 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 18 | 5.68 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 18 | 5.68 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 18 | 5.68 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 3 | 5.68 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 6 | 5.68 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 12 | 5.68 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 12 | 5.68 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 12 | 5.68 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 11 | 5.68 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 17 | 5.68 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 19 | 5.68 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 10 | 5.68 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 10 | 5.68 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 10 | 5.68 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 20 | 5.68 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 20 | 5.68 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 20 | 5.68 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 2 | 5.68 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 2 | 5.68 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 2 | 5.68 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 20 | 5.68 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 6 | 5.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 6 | 5.68 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 6 | 5.68 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 4 | 5.68 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 4 | 5.68 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 4 | 5.68 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 7 | 5.68 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 11 | 5.68 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 9 | 5.68 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 12 | 5.68 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 7 | 5.68 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 8 | 5.68 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 8 | 5.68 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 8 | 5.68 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 4 | 5.68 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 4 | 5.68 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 7 | 5.68 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 7 | 5.68 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 7 | 5.68 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 3 | 5.68 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 19 | 5.68 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 4 | 5.68 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 4 | 5.68 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 3 | 5.68 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 3 | 5.68 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 3 | 5.68 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 3 | 5.68 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 5.68 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 5.68 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 18 | 5.68 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 5 | 5.68 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 18 | 5.68 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 18 | 5.68 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 18 | 5.68 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 10 | 5.68 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 7 | 5.68 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 4 | 5.68 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 4 | 5.68 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 4 | 5.68 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 16 | 5.68 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 16 | 5.68 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 16 | 5.68 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 15 | 5.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 6 | 5.68 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 6 | 5.68 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 6 | 5.68 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 12 | 5.68 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 12 | 5.68 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 12 | 5.68 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 12 | 5.68 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 12 | 5.68 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 12 | 5.68 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 5 | 5.68 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 5 | 5.68 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 5 | 5.68 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 18 | 5.68 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 18 | 5.68 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 18 | 5.68 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 18 | 5.68 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 3 | 5.68 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 6 | 5.68 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 3 | 5.68 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 3 | 5.68 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 11 | 5.68 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 11 | 5.68 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 11 | 5.68 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 1 | 5.68 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 1 | 5.68 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 1 | 5.68 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 12 | 5.68 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 12 | 5.68 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 12 | 5.68 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 6 | 5.68 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 5 | 5.68 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 5 | 5.68 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 5 | 5.68 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 11 | 5.68 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 5 | 5.68 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 17 | 5.68 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 19 | 5.68 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 5 | 5.68 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 8 | 5.68 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 17 | 5.67 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 17 | 5.67 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 20 | 5.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 13 | 5.67 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 5 | 5.67 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 19 | 5.67 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 18 | 5.67 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 12 | 5.67 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 1 | 5.67 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 9 | 5.67 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 9 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 10 | 5.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 10 | 5.67 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 16 | 5.67 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 16 | 5.67 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 5 | 5.67 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 5 | 5.67 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 18 | 5.67 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 18 | 5.67 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 18 | 5.67 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 18 | 5.67 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 14 | 5.67 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 14 | 5.67 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 11 | 5.67 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 11 | 5.67 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 12 | 5.67 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 12 | 5.67 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 12 | 5.67 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 12 | 5.67 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 12 | 5.67 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 12 | 5.67 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 2 | 5.67 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 2 | 5.67 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 19 | 5.67 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 19 | 5.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 19 | 5.67 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 19 | 5.67 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 9 | 5.67 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 9 | 5.67 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 18 | 5.67 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 18 | 5.67 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 4 | 5.67 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 4 | 5.67 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 16 | 5.67 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 16 | 5.67 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 6 | 5.67 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 6 | 5.67 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 11 | 5.67 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 11 | 5.67 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 11 | 5.67 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 11 | 5.67 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 11 | 5.67 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 11 | 5.67 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 3 | 5.67 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 3 | 5.67 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 7 | 5.67 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 7 | 5.67 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 13 | 5.67 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 13 | 5.67 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 1 | 5.67 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 1 | 5.67 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 1 | 5.67 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 1 | 5.67 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 1 | 5.67 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 1 | 5.67 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 3 | 5.67 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 3 | 5.67 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 3 | 5.67 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 3 | 5.67 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 7 | 5.67 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 7 | 5.67 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 5 | 5.67 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 5 | 5.67 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 4 | 5.67 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 4 | 5.67 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 4 | 5.67 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 4 | 5.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 14 | 5.67 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 14 | 5.67 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 1 | 5.67 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 6 | 5.67 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 17 | 5.67 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 17 | 5.67 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 17 | 5.67 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 13 | 5.67 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 18 | 5.67 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 18 | 5.67 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 18 | 5.67 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 5 | 5.67 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 15 | 5.67 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 15 | 5.67 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 19 | 5.67 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 19 | 5.67 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 19 | 5.67 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 14 | 5.67 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 14 | 5.67 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 9 | 5.67 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 9 | 5.67 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 16 | 5.67 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 16 | 5.67 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 16 | 5.67 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD21 | 2 | 5.67 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD22 | 2 | 5.67 |
| (1,8201) | 1:105:A:SER:H | 1:106:A:LEU:HD23 | 2 | 5.67 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 12 | 5.67 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 15 | 5.67 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 3 | 5.67 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 18 | 5.67 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 18 | 5.67 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 14 | 5.67 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 14 | 5.67 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 14 | 5.67 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 10 | 5.67 |
| (1,7987) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 17 | 5.67 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 18 | 5.67 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 18 | 5.67 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 3 | 5.67 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 3 | 5.67 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 3 | 5.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 3 | 5.67 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 3 | 5.67 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 3 | 5.67 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 3 | 5.67 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 3 | 5.67 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 3 | 5.67 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 5 | 5.67 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 5 | 5.67 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 5 | 5.67 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 5 | 5.67 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 5 | 5.67 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 5 | 5.67 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 8 | 5.67 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 2 | 5.67 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 2 | 5.67 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 2 | 5.67 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 2 | 5.67 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 15 | 5.67 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 15 | 5.67 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 15 | 5.67 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 6 | 5.67 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 11 | 5.67 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 6 | 5.67 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 9 | 5.67 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 9 | 5.67 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 9 | 5.67 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 1 | 5.67 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 1 | 5.67 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 1 | 5.67 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 7 | 5.67 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 7 | 5.67 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 7 | 5.67 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 7 | 5.67 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 7 | 5.67 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 7 | 5.67 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 17 | 5.67 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 12 | 5.67 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 12 | 5.67 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 12 | 5.67 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 18 | 5.67 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 5 | 5.67 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 8 | 5.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 8 | 5.67 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 2 | 5.67 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 8 | 5.67 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 1 | 5.67 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 4 | 5.67 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 2 | 5.67 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 14 | 5.67 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 14 | 5.67 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 14 | 5.67 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 15 | 5.67 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 15 | 5.67 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 15 | 5.67 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 6 | 5.67 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 2 | 5.67 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 2 | 5.67 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 2 | 5.67 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 19 | 5.67 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 1 | 5.67 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 1 | 5.67 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 20 | 5.67 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 13 | 5.67 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 13 | 5.67 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 13 | 5.67 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 2 | 5.67 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 2 | 5.67 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 2 | 5.67 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 9 | 5.67 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 9 | 5.67 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 9 | 5.67 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 9 | 5.67 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 9 | 5.67 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 9 | 5.67 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 3 | 5.67 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 3 | 5.67 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 3 | 5.67 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 15 | 5.67 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 15 | 5.67 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 15 | 5.67 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 6 | 5.67 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 12 | 5.67 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 12 | 5.67 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 12 | 5.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 18 | 5.67 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 18 | 5.67 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 18 | 5.67 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 8 | 5.67 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 8 | 5.67 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 13 | 5.67 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 16 | 5.67 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 16 | 5.67 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 16 | 5.67 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 6 | 5.67 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 6 | 5.67 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 6 | 5.67 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 17 | 5.67 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 17 | 5.67 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 17 | 5.67 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 9 | 5.67 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 9 | 5.67 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 18 | 5.67 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 18 | 5.67 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 18 | 5.67 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 18 | 5.67 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 11 | 5.67 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 11 | 5.67 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 19 | 5.67 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 19 | 5.67 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 19 | 5.67 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 5 | 5.67 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 16 | 5.67 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 19 | 5.67 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 19 | 5.67 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 19 | 5.67 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 19 | 5.67 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 19 | 5.67 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 18 | 5.67 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 18 | 5.67 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 16 | 5.67 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 16 | 5.67 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 20 | 5.67 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 5.67 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 5.67 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 5.67 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 13 | 5.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 16 | 5.67 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 17 | 5.67 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 7 | 5.67 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 7 | 5.67 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 5 | 5.67 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 5 | 5.67 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 12 | 5.67 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 12 | 5.67 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 12 | 5.67 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 12 | 5.67 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 10 | 5.67 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 10 | 5.67 |
| (1,3530) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 8 | 5.67 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 16 | 5.67 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 18 | 5.67 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 15 | 5.67 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 5 | 5.67 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 8 | 5.67 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 8 | 5.67 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 2 | 5.67 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 8 | 5.67 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 1 | 5.67 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 9 | 5.67 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 4 | 5.67 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 2 | 5.67 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 14 | 5.67 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 14 | 5.67 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 14 | 5.67 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 15 | 5.67 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 15 | 5.67 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 15 | 5.67 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 4 | 5.67 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 19 | 5.67 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 19 | 5.67 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 11 | 5.67 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 14 | 5.67 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 6 | 5.67 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 2 | 5.67 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 2 | 5.67 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 2 | 5.67 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 19 | 5.67 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 18 | 5.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 18 | 5.67 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 1 | 5.67 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 1 | 5.67 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 5 | 5.67 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 5 | 5.67 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 5 | 5.67 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 5 | 5.67 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 5 | 5.67 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 5 | 5.67 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 11 | 5.67 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 11 | 5.67 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 11 | 5.67 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 11 | 5.67 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 11 | 5.67 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 11 | 5.67 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 20 | 5.67 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 13 | 5.67 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 13 | 5.67 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 13 | 5.67 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 2 | 5.67 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 2 | 5.67 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 2 | 5.67 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 9 | 5.67 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 9 | 5.67 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 9 | 5.67 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 9 | 5.67 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 9 | 5.67 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 9 | 5.67 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 5.67 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 5.67 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 5.67 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 12 | 5.67 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 12 | 5.67 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 12 | 5.67 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 12 | 5.67 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 12 | 5.67 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 12 | 5.67 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 17 | 5.66 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 7 | 5.66 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 8 | 5.66 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 8 | 5.66 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 11 | 5.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 6 | 5.66 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 17 | 5.66 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 17 | 5.66 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 17 | 5.66 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 17 | 5.66 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 17 | 5.66 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 17 | 5.66 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 5 | 5.66 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 5 | 5.66 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 3 | 5.66 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 3 | 5.66 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 3 | 5.66 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 3 | 5.66 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 11 | 5.66 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 11 | 5.66 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 7 | 5.66 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 7 | 5.66 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 1 | 5.66 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 1 | 5.66 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 1 | 5.66 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 1 | 5.66 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 1 | 5.66 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 1 | 5.66 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 13 | 5.66 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 13 | 5.66 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 13 | 5.66 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 13 | 5.66 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 2 | 5.66 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 2 | 5.66 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 6 | 5.66 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 6 | 5.66 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 13 | 5.66 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 13 | 5.66 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 8 | 5.66 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 8 | 5.66 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 2 | 5.66 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 2 | 5.66 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 18 | 5.66 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 18 | 5.66 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 18 | 5.66 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 18 | 5.66 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 18 | 5.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 18 | 5.66 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 4 | 5.66 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 4 | 5.66 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 4 | 5.66 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 4 | 5.66 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 11 | 5.66 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 11 | 5.66 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 11 | 5.66 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 11 | 5.66 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 11 | 5.66 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 11 | 5.66 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 3 | 5.66 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 3 | 5.66 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 7 | 5.66 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 7 | 5.66 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 13 | 5.66 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 13 | 5.66 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 13 | 5.66 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 3 | 5.66 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 1 | 5.66 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 1 | 5.66 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 1 | 5.66 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 6 | 5.66 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 6 | 5.66 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 6 | 5.66 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 11 | 5.66 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 11 | 5.66 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 11 | 5.66 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 3 | 5.66 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 3 | 5.66 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 18 | 5.66 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 9 | 5.66 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 2 | 5.66 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 12 | 5.66 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 12 | 5.66 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 15 | 5.66 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 5 | 5.66 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 1 | 5.66 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 1 | 5.66 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 1 | 5.66 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 18 | 5.66 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 18 | 5.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 7 | 5.66 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 7 | 5.66 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 7 | 5.66 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 7 | 5.66 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 8 | 5.66 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 1 | 5.66 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 1 | 5.66 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 1 | 5.66 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 1 | 5.66 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 1 | 5.66 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 1 | 5.66 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 1 | 5.66 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 1 | 5.66 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 1 | 5.66 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 6 | 5.66 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 6 | 5.66 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 4 | 5.66 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 16 | 5.66 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 8 | 5.66 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 8 | 5.66 |
| (1,7939) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 20 | 5.66 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 2 | 5.66 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 2 | 5.66 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 2 | 5.66 |
| (1,7873) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 2 | 5.66 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 2 | 5.66 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 2 | 5.66 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 2 | 5.66 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 12 | 5.66 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 12 | 5.66 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 12 | 5.66 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 17 | 5.66 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 17 | 5.66 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 17 | 5.66 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 1 | 5.66 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 1 | 5.66 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 1 | 5.66 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 1 | 5.66 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 1 | 5.66 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 1 | 5.66 |
| (1,7729) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 8 | 5.66 |
| (1,7729) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 8 | 5.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 16 | 5.66 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 3 | 5.66 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 16 | 5.66 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 13 | 5.66 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 9 | 5.66 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 9 | 5.66 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 9 | 5.66 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 8 | 5.66 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 10 | 5.66 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 11 | 5.66 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 12 | 5.66 |
| (1,7409) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 12 | 5.66 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 19 | 5.66 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 12 | 5.66 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 14 | 5.66 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 14 | 5.66 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 14 | 5.66 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 13 | 5.66 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 7 | 5.66 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 3 | 5.66 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 17 | 5.66 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 1 | 5.66 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 1 | 5.66 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 6 | 5.66 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 3 | 5.66 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 3 | 5.66 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 3 | 5.66 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 12 | 5.66 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 12 | 5.66 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 12 | 5.66 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 13 | 5.66 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 13 | 5.66 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 13 | 5.66 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 11 | 5.66 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 11 | 5.66 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 11 | 5.66 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 13 | 5.66 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 13 | 5.66 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 13 | 5.66 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 8 | 5.66 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 8 | 5.66 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 8 | 5.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 13 | 5.66 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 13 | 5.66 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 13 | 5.66 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 15 | 5.66 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 15 | 5.66 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 15 | 5.66 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 8 | 5.66 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 3 | 5.66 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 3 | 5.66 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 9 | 5.66 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 9 | 5.66 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 9 | 5.66 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 13 | 5.66 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 13 | 5.66 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 13 | 5.66 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 15 | 5.66 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 15 | 5.66 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 15 | 5.66 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 15 | 5.66 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 15 | 5.66 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 15 | 5.66 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 10 | 5.66 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 10 | 5.66 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 10 | 5.66 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 10 | 5.66 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 10 | 5.66 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 10 | 5.66 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 14 | 5.66 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 14 | 5.66 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 14 | 5.66 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 19 | 5.66 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 19 | 5.66 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 19 | 5.66 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 17 | 5.66 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 17 | 5.66 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 17 | 5.66 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 4 | 5.66 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 11 | 5.66 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 11 | 5.66 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 11 | 5.66 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 7 | 5.66 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 7 | 5.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 7 | 5.66 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 8 | 5.66 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 5 | 5.66 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 5 | 5.66 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 3 | 5.66 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 3 | 5.66 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 3 | 5.66 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 3 | 5.66 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 4 | 5.66 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 4 | 5.66 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 4 | 5.66 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 8 | 5.66 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 8 | 5.66 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 1 | 5.66 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 13 | 5.66 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 11 | 5.66 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 11 | 5.66 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 1 | 5.66 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 1 | 5.66 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 1 | 5.66 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 1 | 5.66 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 1 | 5.66 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 1 | 5.66 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 13 | 5.66 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 13 | 5.66 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 13 | 5.66 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 13 | 5.66 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 17 | 5.66 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 5.66 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 5.66 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 5.66 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 9 | 5.66 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 9 | 5.66 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 9 | 5.66 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 4 | 5.66 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 4 | 5.66 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 2 | 5.66 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 14 | 5.66 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 3 | 5.66 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 3 | 5.66 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 4 | 5.66 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 4 | 5.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 5.66 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 5.66 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 5.66 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 6 | 5.66 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 13 | 5.66 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 7 | 5.66 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 3 | 5.66 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 17 | 5.66 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 1 | 5.66 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 1 | 5.66 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 7 | 5.66 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 7 | 5.66 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 6 | 5.66 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 4 | 5.66 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 4 | 5.66 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 4 | 5.66 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 3 | 5.66 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 3 | 5.66 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 3 | 5.66 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 12 | 5.66 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 12 | 5.66 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 12 | 5.66 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 13 | 5.66 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 13 | 5.66 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 13 | 5.66 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 11 | 5.66 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 11 | 5.66 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 11 | 5.66 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 13 | 5.66 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 13 | 5.66 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 13 | 5.66 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 8 | 5.66 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 8 | 5.66 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 8 | 5.66 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 13 | 5.66 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 13 | 5.66 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 13 | 5.66 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 15 | 5.66 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 15 | 5.66 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 15 | 5.66 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 18 | 5.66 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 8 | 5.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 3 | 5.66 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 3 | 5.66 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 7 | 5.66 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 2 | 5.66 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 11 | 5.66 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 9 | 5.66 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 9 | 5.66 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 9 | 5.66 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 13 | 5.66 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 13 | 5.66 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 13 | 5.66 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 19 | 5.66 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 19 | 5.66 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 19 | 5.66 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 15 | 5.66 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 15 | 5.66 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 15 | 5.66 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 15 | 5.66 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 15 | 5.66 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 15 | 5.66 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 10 | 5.66 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 10 | 5.66 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 10 | 5.66 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 10 | 5.66 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 10 | 5.66 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 10 | 5.66 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 3 | 5.66 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 3 | 5.66 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 3 | 5.66 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 13 | 5.66 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 16 | 5.65 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 5 | 5.65 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 10 | 5.65 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 1 | 5.65 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 20 | 5.65 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 20 | 5.65 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 20 | 5.65 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 20 | 5.65 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 20 | 5.65 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 20 | 5.65 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 11 | 5.65 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 11 | 5.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 17 | 5.65 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 17 | 5.65 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 15 | 5.65 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 15 | 5.65 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 4 | 5.65 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 4 | 5.65 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 2 | 5.65 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 2 | 5.65 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 2 | 5.65 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 2 | 5.65 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 12 | 5.65 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 12 | 5.65 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 18 | 5.65 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 18 | 5.65 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 18 | 5.65 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 18 | 5.65 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 18 | 5.65 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 18 | 5.65 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 14 | 5.65 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 14 | 5.65 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 18 | 5.65 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 18 | 5.65 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 5 | 5.65 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 5 | 5.65 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 14 | 5.65 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 14 | 5.65 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 7 | 5.65 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 7 | 5.65 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 2 | 5.65 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 2 | 5.65 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 2 | 5.65 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 2 | 5.65 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 2 | 5.65 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 2 | 5.65 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 6 | 5.65 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 6 | 5.65 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 6 | 5.65 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 6 | 5.65 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 5 | 5.65 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 5 | 5.65 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 12 | 5.65 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 12 | 5.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 17 | 5.65 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 17 | 5.65 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 11 | 5.65 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 11 | 5.65 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 6 | 5.65 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 6 | 5.65 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 6 | 5.65 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 6 | 5.65 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 15 | 5.65 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 15 | 5.65 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 6 | 5.65 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 6 | 5.65 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 6 | 5.65 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 6 | 5.65 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 6 | 5.65 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 6 | 5.65 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 6 | 5.65 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 6 | 5.65 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 9 | 5.65 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 9 | 5.65 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 1 | 5.65 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 1 | 5.65 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 1 | 5.65 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 10 | 5.65 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 13 | 5.65 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 6 | 5.65 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 4 | 5.65 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 16 | 5.65 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 19 | 5.65 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 19 | 5.65 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 19 | 5.65 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 15 | 5.65 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 9 | 5.65 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 18 | 5.65 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 18 | 5.65 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 18 | 5.65 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 18 | 5.65 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 18 | 5.65 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 18 | 5.65 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 4 | 5.65 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 4 | 5.65 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 14 | 5.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 9 | 5.65 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 9 | 5.65 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 9 | 5.65 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 9 | 5.65 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 9 | 5.65 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 9 | 5.65 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 12 | 5.65 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 8 | 5.65 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 8 | 5.65 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 8 | 5.65 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 4 | 5.65 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 4 | 5.65 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 15 | 5.65 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 15 | 5.65 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 12 | 5.65 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 19 | 5.65 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 6 | 5.65 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 6 | 5.65 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 6 | 5.65 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 10 | 5.65 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 10 | 5.65 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 10 | 5.65 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 20 | 5.65 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 20 | 5.65 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 20 | 5.65 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 16 | 5.65 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 16 | 5.65 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 16 | 5.65 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 12 | 5.65 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 11 | 5.65 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 5 | 5.65 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 15 | 5.65 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 11 | 5.65 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 16 | 5.65 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 16 | 5.65 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 11 | 5.65 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 11 | 5.65 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 11 | 5.65 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 17 | 5.65 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 19 | 5.65 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 11 | 5.65 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 17 | 5.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 19 | 5.65 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 14 | 5.65 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 14 | 5.65 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 14 | 5.65 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 5 | 5.65 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 5 | 5.65 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 5 | 5.65 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 13 | 5.65 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 13 | 5.65 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 14 | 5.65 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 14 | 5.65 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 20 | 5.65 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 5 | 5.65 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 15 | 5.65 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 11 | 5.65 |
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 7 | 5.65 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 14 | 5.65 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 8 | 5.65 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 12 | 5.65 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 9 | 5.65 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 9 | 5.65 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 9 | 5.65 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 13 | 5.65 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 13 | 5.65 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 13 | 5.65 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 13 | 5.65 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 13 | 5.65 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 13 | 5.65 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 12 | 5.65 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 12 | 5.65 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 12 | 5.65 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 10 | 5.65 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 10 | 5.65 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 1 | 5.65 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 1 | 5.65 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 1 | 5.65 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 1 | 5.65 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 1 | 5.65 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 1 | 5.65 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 16 | 5.65 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 4 | 5.65 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 19 | 5.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 19 | 5.65 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 19 | 5.65 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 6 | 5.65 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 6 | 5.65 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 6 | 5.65 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 4 | 5.65 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 4 | 5.65 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 4 | 5.65 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 11 | 5.65 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 11 | 5.65 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 11 | 5.65 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 18 | 5.65 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 18 | 5.65 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 18 | 5.65 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 7 | 5.65 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 12 | 5.65 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 2 | 5.65 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 16 | 5.65 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 3 | 5.65 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 3 | 5.65 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 8 | 5.65 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 8 | 5.65 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 6 | 5.65 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 6 | 5.65 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 6 | 5.65 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 1 | 5.65 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 15 | 5.65 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 19 | 5.65 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 10 | 5.65 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 10 | 5.65 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 10 | 5.65 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 19 | 5.65 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 19 | 5.65 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 19 | 5.65 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 18 | 5.65 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 11 | 5.65 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 11 | 5.65 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 17 | 5.65 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 17 | 5.65 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 4 | 5.65 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 4 | 5.65 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 7 | 5.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 2 | 5.65 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 12 | 5.65 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 5.65 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 5.65 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 5.65 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 5 | 5.65 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 13 | 5.65 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 13 | 5.65 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 8 | 5.65 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 8 | 5.65 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 8 | 5.65 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 18 | 5.65 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 18 | 5.65 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 18 | 5.65 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 18 | 5.65 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 18 | 5.65 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 18 | 5.65 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 10 | 5.65 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 10 | 5.65 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 10 | 5.65 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 4 | 5.65 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 4 | 5.65 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 4 | 5.65 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 1 | 5.65 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 10 | 5.65 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 7 | 5.65 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 7 | 5.65 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 12 | 5.65 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 14 | 5.65 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 14 | 5.65 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 2 | 5.65 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 2 | 5.65 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 2 | 5.65 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 2 | 5.65 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 2 | 5.65 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 2 | 5.65 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 6 | 5.65 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 6 | 5.65 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 6 | 5.65 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 6 | 5.65 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 3 | 5.65 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 7 | 5.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 2 | 5.65 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 4 | 5.65 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 4 | 5.65 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 4 | 5.65 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 4 | 5.65 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 7 | 5.65 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 7 | 5.65 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 11 | 5.65 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 6 | 5.65 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 6 | 5.65 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 6 | 5.65 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 6 | 5.65 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 15 | 5.65 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 15 | 5.65 |
| (1,3640) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 1 | 5.65 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 15 | 5.65 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 15 | 5.65 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 5 | 5.65 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 5 | 5.65 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 6 | 5.65 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 6 | 5.65 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 6 | 5.65 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 6 | 5.65 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 14 | 5.65 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 14 | 5.65 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 14 | 5.65 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 13 | 5.65 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 13 | 5.65 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 14 | 5.65 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 14 | 5.65 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 20 | 5.65 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 5 | 5.65 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 15 | 5.65 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 11 | 5.65 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 7 | 5.65 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 8 | 5.65 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 12 | 5.65 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 2 | 5.65 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 4 | 5.65 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 9 | 5.65 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 9 | 5.65 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 9 | 5.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 13 | 5.65 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 13 | 5.65 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 13 | 5.65 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 13 | 5.65 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 13 | 5.65 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 13 | 5.65 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 12 | 5.65 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 12 | 5.65 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 12 | 5.65 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 10 | 5.65 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 10 | 5.65 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 6 | 5.65 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 1 | 5.65 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 1 | 5.65 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 1 | 5.65 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 1 | 5.65 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 1 | 5.65 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 1 | 5.65 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 16 | 5.65 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 4 | 5.65 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 2 | 5.65 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 8 | 5.65 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 8 | 5.65 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 19 | 5.65 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 19 | 5.65 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 19 | 5.65 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 19 | 5.65 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 7 | 5.65 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 13 | 5.64 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 4 | 5.64 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 5 | 5.64 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 5 | 5.64 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 18 | 5.64 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 18 | 5.64 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 13 | 5.64 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 13 | 5.64 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 13 | 5.64 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 13 | 5.64 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 13 | 5.64 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 13 | 5.64 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 6 | 5.64 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 6 | 5.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 9 | 5.64 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 9 | 5.64 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 15 | 5.64 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 15 | 5.64 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 7 | 5.64 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 7 | 5.64 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 17 | 5.64 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 17 | 5.64 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 16 | 5.64 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 16 | 5.64 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 18 | 5.64 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 18 | 5.64 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 10 | 5.64 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 10 | 5.64 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 10 | 5.64 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 10 | 5.64 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 2 | 5.64 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 2 | 5.64 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 14 | 5.64 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 14 | 5.64 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 18 | 5.64 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 18 | 5.64 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 18 | 5.64 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 7 | 5.64 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 10 | 5.64 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 10 | 5.64 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 10 | 5.64 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 3 | 5.64 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 10 | 5.64 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 10 | 5.64 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 10 | 5.64 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 7 | 5.64 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 4 | 5.64 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 4 | 5.64 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 17 | 5.64 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 12 | 5.64 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 12 | 5.64 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 12 | 5.64 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 18 | 5.64 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 14 | 5.64 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 3 | 5.64 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 1 | 5.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 7 | 5.64 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 5 | 5.64 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 5 | 5.64 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 16 | 5.64 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 8 | 5.64 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 4 | 5.64 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 7 | 5.64 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 7 | 5.64 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 7 | 5.64 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 20 | 5.64 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 20 | 5.64 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 20 | 5.64 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 20 | 5.64 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 20 | 5.64 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 20 | 5.64 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 20 | 5.64 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 20 | 5.64 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 20 | 5.64 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 2 | 5.64 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 2 | 5.64 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 2 | 5.64 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 2 | 5.64 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 2 | 5.64 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 2 | 5.64 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 2 | 5.64 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 2 | 5.64 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 2 | 5.64 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 9 | 5.64 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 9 | 5.64 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 9 | 5.64 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 9 | 5.64 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 9 | 5.64 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 9 | 5.64 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 9 | 5.64 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 9 | 5.64 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 9 | 5.64 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 10 | 5.64 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 13 | 5.64 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 14 | 5.64 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 10 | 5.64 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 4 | 5.64 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 4 | 5.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 4 | 5.64 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 3 | 5.64 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 8 | 5.64 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 13 | 5.64 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 17 | 5.64 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 17 | 5.64 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 7 | 5.64 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 7 | 5.64 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 7 | 5.64 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 14 | 5.64 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 14 | 5.64 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 14 | 5.64 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 16 | 5.64 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 15 | 5.64 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 15 | 5.64 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 1 | 5.64 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 1 | 5.64 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 1 | 5.64 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 4 | 5.64 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 6 | 5.64 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 6 | 5.64 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 6 | 5.64 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 3 | 5.64 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 3 | 5.64 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 3 | 5.64 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 12 | 5.64 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 12 | 5.64 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 12 | 5.64 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 4 | 5.64 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 1 | 5.64 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 1 | 5.64 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 1 | 5.64 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 3 | 5.64 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 3 | 5.64 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 3 | 5.64 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 8 | 5.64 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 4 | 5.64 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 16 | 5.64 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 1 | 5.64 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 1 | 5.64 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 1 | 5.64 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 13 | 5.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 8 | 5.64 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 8 | 5.64 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 8 | 5.64 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 8 | 5.64 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 8 | 5.64 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 8 | 5.64 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 15 | 5.64 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 15 | 5.64 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 15 | 5.64 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 15 | 5.64 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 15 | 5.64 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 15 | 5.64 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 11 | 5.64 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 11 | 5.64 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 14 | 5.64 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 9 | 5.64 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 14 | 5.64 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 14 | 5.64 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 14 | 5.64 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 5 | 5.64 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 5 | 5.64 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 3 | 5.64 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 3 | 5.64 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 3 | 5.64 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 19 | 5.64 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 3 | 5.64 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 13 | 5.64 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 13 | 5.64 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 13 | 5.64 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 13 | 5.64 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 13 | 5.64 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 13 | 5.64 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 7 | 5.64 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 7 | 5.64 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 14 | 5.64 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 5.64 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 5.64 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 5.64 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 19 | 5.64 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 6 | 5.64 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 6 | 5.64 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 17 | 5.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 17 | 5.64 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 18 | 5.64 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 9 | 5.64 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 6 | 5.64 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 10 | 5.64 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 10 | 5.64 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 10 | 5.64 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 10 | 5.64 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 10 | 5.64 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 10 | 5.64 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 10 | 5.64 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 2 | 5.64 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 2 | 5.64 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 10 | 5.64 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 10 | 5.64 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 5.64 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 10 | 5.64 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 10 | 5.64 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 10 | 5.64 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 1 | 5.64 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 1 | 5.64 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 1 | 5.64 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 4 | 5.64 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 10 | 5.64 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 6 | 5.64 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 6 | 5.64 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 6 | 5.64 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 11 | 5.64 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 11 | 5.64 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 3 | 5.64 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 3 | 5.64 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 3 | 5.64 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 12 | 5.64 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 12 | 5.64 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 12 | 5.64 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 18 | 5.64 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 4 | 5.64 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 8 | 5.64 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 8 | 5.64 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 8 | 5.64 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 1 | 5.64 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 1 | 5.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 1 | 5.64 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 5.64 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 5.64 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 5.64 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 16 | 5.64 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 16 | 5.64 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 16 | 5.64 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 13 | 5.64 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 13 | 5.64 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 13 | 5.64 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 3 | 5.64 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 3 | 5.64 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 3 | 5.64 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 1 | 5.64 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 8 | 5.64 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 8 | 5.64 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 8 | 5.64 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 4 | 5.64 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 16 | 5.64 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 1 | 5.64 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 1 | 5.64 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 1 | 5.64 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 2 | 5.64 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 13 | 5.64 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 8 | 5.64 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 8 | 5.64 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 8 | 5.64 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 8 | 5.64 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 8 | 5.64 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 8 | 5.64 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 15 | 5.64 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 15 | 5.64 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 15 | 5.64 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 15 | 5.64 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 15 | 5.64 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 15 | 5.64 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 11 | 5.64 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 17 | 5.63 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 1 | 5.63 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 1 | 5.63 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 5 | 5.63 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 9 | 5.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 5 | 5.63 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 5 | 5.63 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 15 | 5.63 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 15 | 5.63 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 15 | 5.63 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 15 | 5.63 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 15 | 5.63 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 15 | 5.63 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 9 | 5.63 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 9 | 5.63 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 16 | 5.63 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 16 | 5.63 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 16 | 5.63 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 16 | 5.63 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 16 | 5.63 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 16 | 5.63 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 16 | 5.63 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 16 | 5.63 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 18 | 5.63 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 18 | 5.63 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 10 | 5.63 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 10 | 5.63 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 10 | 5.63 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 10 | 5.63 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 1 | 5.63 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 1 | 5.63 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 14 | 5.63 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 14 | 5.63 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 18 | 5.63 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 18 | 5.63 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 13 | 5.63 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 13 | 5.63 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 13 | 5.63 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 13 | 5.63 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 13 | 5.63 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 13 | 5.63 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 16 | 5.63 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 16 | 5.63 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 12 | 5.63 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 12 | 5.63 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 11 | 5.63 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 11 | 5.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 5 | 5.63 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 5 | 5.63 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 5 | 5.63 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 5 | 5.63 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 5 | 5.63 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 5 | 5.63 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 11 | 5.63 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 11 | 5.63 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 11 | 5.63 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 11 | 5.63 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 11 | 5.63 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 11 | 5.63 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 5 | 5.63 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 5 | 5.63 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 5.63 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 5.63 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 15 | 5.63 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 15 | 5.63 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 15 | 5.63 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 15 | 5.63 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 15 | 5.63 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 15 | 5.63 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 3 | 5.63 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 3 | 5.63 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 3 | 5.63 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 3 | 5.63 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 3 | 5.63 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 3 | 5.63 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 3 | 5.63 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 3 | 5.63 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 3 | 5.63 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 11 | 5.63 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 15 | 5.63 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 7 | 5.63 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 7 | 5.63 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 7 | 5.63 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 10 | 5.63 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 10 | 5.63 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 10 | 5.63 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 3 | 5.63 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 3 | 5.63 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 3 | 5.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 9 | 5.63 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 8 | 5.63 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 8 | 5.63 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 20 | 5.63 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 20 | 5.63 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 8 | 5.63 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 20 | 5.63 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 20 | 5.63 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 20 | 5.63 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 20 | 5.63 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 20 | 5.63 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 20 | 5.63 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 6 | 5.63 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 6 | 5.63 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 13 | 5.63 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 9 | 5.63 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 17 | 5.63 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 5 | 5.63 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 11 | 5.63 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 6 | 5.63 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 6 | 5.63 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 6 | 5.63 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 15 | 5.63 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 15 | 5.63 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 15 | 5.63 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 18 | 5.63 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 6 | 5.63 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 17 | 5.63 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 16 | 5.63 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 14 | 5.63 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 17 | 5.63 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 6 | 5.63 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 17 | 5.63 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 17 | 5.63 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 16 | 5.63 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 12 | 5.63 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 12 | 5.63 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 12 | 5.63 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 9 | 5.63 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 3 | 5.63 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 3 | 5.63 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 3 | 5.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 18 | 5.63 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 18 | 5.63 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 18 | 5.63 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 1 | 5.63 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 1 | 5.63 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 1 | 5.63 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 14 | 5.63 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 4 | 5.63 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 12 | 5.63 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 5 | 5.63 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 5 | 5.63 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 5 | 5.63 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 5 | 5.63 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 5 | 5.63 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 5 | 5.63 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 5 | 5.63 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 5 | 5.63 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 5 | 5.63 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 16 | 5.63 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 19 | 5.63 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 19 | 5.63 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 19 | 5.63 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 12 | 5.63 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 12 | 5.63 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 12 | 5.63 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 4 | 5.63 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 11 | 5.63 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 20 | 5.63 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 2 | 5.63 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 6 | 5.63 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 6 | 5.63 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 6 | 5.63 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 2 | 5.63 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 18 | 5.63 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 11 | 5.63 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 4 | 5.63 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 4 | 5.63 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 4 | 5.63 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 12 | 5.63 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 18 | 5.63 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 19 | 5.63 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 19 | 5.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 10 | 5.63 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 14 | 5.63 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 3 | 5.63 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 20 | 5.63 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 20 | 5.63 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 20 | 5.63 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 20 | 5.63 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 19 | 5.63 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 19 | 5.63 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 19 | 5.63 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 20 | 5.63 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 20 | 5.63 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 20 | 5.63 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 18 | 5.63 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 18 | 5.63 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 18 | 5.63 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 4 | 5.63 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 4 | 5.63 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 4 | 5.63 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 5 | 5.63 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 5 | 5.63 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 5 | 5.63 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 17 | 5.63 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 20 | 5.63 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 2 | 5.63 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 7 | 5.63 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 7 | 5.63 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 7 | 5.63 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 4 | 5.63 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 4 | 5.63 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 4 | 5.63 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 13 | 5.63 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 15 | 5.63 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 12 | 5.63 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 12 | 5.63 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 9 | 5.63 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 9 | 5.63 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 16 | 5.63 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 16 | 5.63 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 16 | 5.63 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 16 | 5.63 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 12 | 5.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 12 | 5.63 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 12 | 5.63 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 11 | 5.63 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 15 | 5.63 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 12 | 5.63 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 18 | 5.63 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 18 | 5.63 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 2 | 5.63 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 7 | 5.63 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 15 | 5.63 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 14 | 5.63 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 19 | 5.63 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 1 | 5.63 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 1 | 5.63 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 9 | 5.63 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 2 | 5.63 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 6 | 5.63 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 16 | 5.63 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 13 | 5.63 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 13 | 5.63 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 13 | 5.63 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 13 | 5.63 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 13 | 5.63 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 13 | 5.63 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 2 | 5.63 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 4 | 5.63 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 4 | 5.63 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 4 | 5.63 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 16 | 5.63 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 16 | 5.63 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 16 | 5.63 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 11 | 5.63 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 9 | 5.63 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 5.63 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 5.63 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 5.63 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 5.63 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 4 | 5.63 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 11 | 5.63 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 19 | 5.63 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 4 | 5.63 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 4 | 5.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 4 | 5.63 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 12 | 5.63 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 18 | 5.63 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 17 | 5.63 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 17 | 5.63 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 17 | 5.63 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 19 | 5.63 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 19 | 5.63 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 10 | 5.63 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 14 | 5.63 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 3 | 5.63 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 12 | 5.63 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 12 | 5.63 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 12 | 5.63 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 12 | 5.63 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 12 | 5.63 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 12 | 5.63 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 20 | 5.63 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 20 | 5.63 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 7 | 5.63 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 7 | 5.63 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 7 | 5.63 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 20 | 5.63 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 20 | 5.63 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 20 | 5.63 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 20 | 5.63 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 20 | 5.63 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 20 | 5.63 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 16 | 5.63 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 19 | 5.63 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 19 | 5.63 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 19 | 5.63 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 20 | 5.63 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 20 | 5.63 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 20 | 5.63 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 3 | 5.63 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 18 | 5.63 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 18 | 5.63 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 18 | 5.63 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 4 | 5.63 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 4 | 5.63 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 4 | 5.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 5 | 5.63 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 5 | 5.63 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 5 | 5.63 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 17 | 5.63 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 8 | 5.63 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 20 | 5.63 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 7 | 5.63 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 7 | 5.63 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 7 | 5.63 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 15 | 5.63 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 15 | 5.63 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 15 | 5.63 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 15 | 5.63 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 15 | 5.63 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 15 | 5.63 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 6 | 5.63 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 17 | 5.63 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 17 | 5.63 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 17 | 5.63 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 10 | 5.63 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 10 | 5.63 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 10 | 5.63 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 13 | 5.62 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 13 | 5.62 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 2 | 5.62 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 16 | 5.62 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 2 | 5.62 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 17 | 5.62 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 14 | 5.62 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 4 | 5.62 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 5.62 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 5.62 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 5.62 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 5.62 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 9 | 5.62 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 9 | 5.62 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 5.62 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 5.62 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 5.62 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 5.62 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 5.62 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 5.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 13 | 5.62 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 13 | 5.62 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 9 | 5.62 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 9 | 5.62 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 10 | 5.62 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 10 | 5.62 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 9 | 5.62 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 9 | 5.62 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 6 | 5.62 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 6 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 4 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 4 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 4 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 4 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 4 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 4 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 12 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 12 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 12 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 12 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 12 | 5.62 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 12 | 5.62 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 13 | 5.62 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 13 | 5.62 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 4 | 5.62 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 4 | 5.62 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 13 | 5.62 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 13 | 5.62 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 15 | 5.62 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 15 | 5.62 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 18 | 5.62 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 18 | 5.62 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 20 | 5.62 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 20 | 5.62 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 14 | 5.62 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 14 | 5.62 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 14 | 5.62 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 4 | 5.62 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 4 | 5.62 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 4 | 5.62 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 4 | 5.62 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 4 | 5.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 4 | 5.62 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 4 | 5.62 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 4 | 5.62 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 4 | 5.62 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 4 | 5.62 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 4 | 5.62 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 4 | 5.62 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 11 | 5.62 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 18 | 5.62 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 18 | 5.62 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 18 | 5.62 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 10 | 5.62 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 10 | 5.62 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 6 | 5.62 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 10 | 5.62 |
| (1,8117) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HA | 1 | 5.62 |
| (1,8117) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HA | 1 | 5.62 |
| (1,8117) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HA | 1 | 5.62 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 6 | 5.62 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 10 | 5.62 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 2 | 5.62 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 2 | 5.62 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 2 | 5.62 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 7 | 5.62 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 7 | 5.62 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 7 | 5.62 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 10 | 5.62 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 7 | 5.62 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 6 | 5.62 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 6 | 5.62 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 3 | 5.62 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 12 | 5.62 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 4 | 5.62 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 4 | 5.62 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 4 | 5.62 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 18 | 5.62 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 13 | 5.62 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 13 | 5.62 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 14 | 5.62 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 14 | 5.62 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 4 | 5.62 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 4 | 5.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 6 | 5.62 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 16 | 5.62 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 16 | 5.62 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 4 | 5.62 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 4 | 5.62 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 11 | 5.62 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 1 | 5.62 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 1 | 5.62 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 10 | 5.62 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 10 | 5.62 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 10 | 5.62 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 18 | 5.62 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 18 | 5.62 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 18 | 5.62 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 19 | 5.62 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 13 | 5.62 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 13 | 5.62 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 13 | 5.62 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 13 | 5.62 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 13 | 5.62 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 17 | 5.62 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 17 | 5.62 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 4 | 5.62 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 4 | 5.62 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 4 | 5.62 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 17 | 5.62 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 17 | 5.62 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 17 | 5.62 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 17 | 5.62 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 17 | 5.62 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 17 | 5.62 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 17 | 5.62 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 17 | 5.62 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 17 | 5.62 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 18 | 5.62 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 18 | 5.62 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 18 | 5.62 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 13 | 5.62 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 13 | 5.62 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 13 | 5.62 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 19 | 5.62 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 7 | 5.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 19 | 5.62 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 7 | 5.62 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 7 | 5.62 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 7 | 5.62 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 13 | 5.62 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 13 | 5.62 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 15 | 5.62 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 13 | 5.62 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 13 | 5.62 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 13 | 5.62 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 20 | 5.62 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 20 | 5.62 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 20 | 5.62 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 5 | 5.62 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 7 | 5.62 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 7 | 5.62 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 7 | 5.62 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 9 | 5.62 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 9 | 5.62 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 9 | 5.62 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 7 | 5.62 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 14 | 5.62 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 14 | 5.62 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 14 | 5.62 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 1 | 5.62 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 1 | 5.62 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 1 | 5.62 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 14 | 5.62 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 14 | 5.62 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 14 | 5.62 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 14 | 5.62 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 14 | 5.62 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 14 | 5.62 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 14 | 5.62 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 14 | 5.62 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 14 | 5.62 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 10 | 5.62 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 10 | 5.62 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 10 | 5.62 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 10 | 5.62 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 10 | 5.62 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 10 | 5.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 20 | 5.62 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 17 | 5.62 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 4 | 5.62 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 4 | 5.62 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 4 | 5.62 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 13 | 5.62 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 13 | 5.62 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 13 | 5.62 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 11 | 5.62 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 11 | 5.62 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 11 | 5.62 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 4 | 5.62 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 4 | 5.62 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 4 | 5.62 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 6 | 5.62 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 20 | 5.62 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 20 | 5.62 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 20 | 5.62 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 7 | 5.62 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 7 | 5.62 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 7 | 5.62 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 1 | 5.62 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 1 | 5.62 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 14 | 5.62 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 11 | 5.62 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 13 | 5.62 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 13 | 5.62 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 13 | 5.62 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 14 | 5.62 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 14 | 5.62 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 14 | 5.62 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 11 | 5.62 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 11 | 5.62 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 11 | 5.62 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 3 | 5.62 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 3 | 5.62 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 3 | 5.62 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 1 | 5.62 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 5 | 5.62 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 5 | 5.62 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 5 | 5.62 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 5.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 5.62 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 5.62 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 5.62 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 5.62 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 5.62 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 5.62 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 5.62 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 5.62 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 5.62 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 12 | 5.62 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 13 | 5.62 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 6 | 5.62 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 8 | 5.62 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 11 | 5.62 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 11 | 5.62 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 13 | 5.62 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 10 | 5.62 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 10 | 5.62 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 2 | 5.62 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 8 | 5.62 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 8 | 5.62 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 8 | 5.62 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 1 | 5.62 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 1 | 5.62 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 5.62 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 19 | 5.62 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 19 | 5.62 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 15 | 5.62 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 15 | 5.62 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 18 | 5.62 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 18 | 5.62 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 17 | 5.62 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 17 | 5.62 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 17 | 5.62 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 17 | 5.62 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 17 | 5.62 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 17 | 5.62 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 8 | 5.62 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 18 | 5.62 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 18 | 5.62 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 18 | 5.62 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 13 | 5.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 13 | 5.62 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 13 | 5.62 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 19 | 5.62 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 7 | 5.62 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 19 | 5.62 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 11 | 5.62 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 11 | 5.62 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 7 | 5.62 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 7 | 5.62 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 7 | 5.62 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 13 | 5.62 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 13 | 5.62 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 15 | 5.62 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 13 | 5.62 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 13 | 5.62 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 13 | 5.62 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 20 | 5.62 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 20 | 5.62 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 20 | 5.62 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 7 | 5.62 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 7 | 5.62 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 7 | 5.62 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 15 | 5.62 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 15 | 5.62 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 15 | 5.62 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 9 | 5.62 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 9 | 5.62 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 9 | 5.62 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 7 | 5.62 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 14 | 5.62 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 14 | 5.62 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 14 | 5.62 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 1 | 5.62 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 1 | 5.62 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 1 | 5.62 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 1 | 5.62 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 1 | 5.62 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 1 | 5.62 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 5 | 5.62 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 5 | 5.62 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 5 | 5.62 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 14 | 5.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 14 | 5.62 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 14 | 5.62 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 14 | 5.62 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 14 | 5.62 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 14 | 5.62 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 14 | 5.62 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 14 | 5.62 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 14 | 5.62 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 10 | 5.62 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 10 | 5.62 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 10 | 5.62 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 10 | 5.62 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 10 | 5.62 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 10 | 5.62 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 20 | 5.62 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 17 | 5.62 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 11 | 5.62 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 18 | 5.62 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 4 | 5.62 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 4 | 5.62 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 4 | 5.62 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 13 | 5.62 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 13 | 5.62 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 13 | 5.62 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 11 | 5.62 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 11 | 5.62 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 11 | 5.62 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 7 | 5.62 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 4 | 5.62 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 4 | 5.62 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 4 | 5.62 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 6 | 5.62 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 1 | 5.61 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 10 | 5.61 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 18 | 5.61 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 18 | 5.61 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 18 | 5.61 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 18 | 5.61 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 18 | 5.61 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 18 | 5.61 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 18 | 5.61 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 7 | 5.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 7 | 5.61 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 7 | 5.61 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 7 | 5.61 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 7 | 5.61 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 7 | 5.61 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 5 | 5.61 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 5 | 5.61 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 5 | 5.61 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 5 | 5.61 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 5 | 5.61 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 5 | 5.61 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 6 | 5.61 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 6 | 5.61 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 12 | 5.61 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 12 | 5.61 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 12 | 5.61 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 12 | 5.61 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 12 | 5.61 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 12 | 5.61 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 15 | 5.61 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 15 | 5.61 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 15 | 5.61 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 15 | 5.61 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 2 | 5.61 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 2 | 5.61 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 16 | 5.61 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 16 | 5.61 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 7 | 5.61 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 7 | 5.61 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 7 | 5.61 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 7 | 5.61 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 15 | 5.61 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 15 | 5.61 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 15 | 5.61 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 15 | 5.61 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 4 | 5.61 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 4 | 5.61 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 8 | 5.61 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 8 | 5.61 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 8 | 5.61 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 8 | 5.61 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 9 | 5.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 9 | 5.61 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 9 | 5.61 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 9 | 5.61 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 9 | 5.61 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 9 | 5.61 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 7 | 5.61 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 7 | 5.61 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 7 | 5.61 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 7 | 5.61 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 14 | 5.61 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 14 | 5.61 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 15 | 5.61 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 15 | 5.61 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 15 | 5.61 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 15 | 5.61 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 15 | 5.61 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 15 | 5.61 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 17 | 5.61 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 19 | 5.61 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 6 | 5.61 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 14 | 5.61 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 14 | 5.61 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 14 | 5.61 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 6 | 5.61 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 6 | 5.61 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 2 | 5.61 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 2 | 5.61 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 20 | 5.61 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 20 | 5.61 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 6 | 5.61 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 6 | 5.61 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 17 | 5.61 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 7 | 5.61 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 17 | 5.61 |
| (1,8228) | 1:111:A:SER:H | 1:113:A:CYS:H | 10 | 5.61 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 16 | 5.61 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 16 | 5.61 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 16 | 5.61 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 2 | 5.61 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 9 | 5.61 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 19 | 5.61 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 1 | 5.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 1 | 5.61 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 18 | 5.61 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 18 | 5.61 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 18 | 5.61 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 7 | 5.61 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 7 | 5.61 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 7 | 5.61 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 19 | 5.61 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 19 | 5.61 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 19 | 5.61 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 16 | 5.61 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 14 | 5.61 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 14 | 5.61 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 14 | 5.61 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 17 | 5.61 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 17 | 5.61 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 17 | 5.61 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 16 | 5.61 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 13 | 5.61 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 13 | 5.61 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 13 | 5.61 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 5 | 5.61 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 5 | 5.61 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 5 | 5.61 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 12 | 5.61 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 12 | 5.61 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 12 | 5.61 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 12 | 5.61 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 12 | 5.61 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 12 | 5.61 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 15 | 5.61 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 8 | 5.61 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 8 | 5.61 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 17 | 5.61 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 17 | 5.61 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 17 | 5.61 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 18 | 5.61 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 18 | 5.61 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 9 | 5.61 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 6 | 5.61 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 6 | 5.61 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 6 | 5.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 6 | 5.61 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 8 | 5.61 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 8 | 5.61 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 6 | 5.61 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 1 | 5.61 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 12 | 5.61 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 12 | 5.61 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 18 | 5.61 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 18 | 5.61 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 18 | 5.61 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 19 | 5.61 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 19 | 5.61 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 6 | 5.61 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 11 | 5.61 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 11 | 5.61 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 11 | 5.61 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 6 | 5.61 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 13 | 5.61 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 13 | 5.61 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 13 | 5.61 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 16 | 5.61 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 9 | 5.61 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 2 | 5.61 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 2 | 5.61 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 2 | 5.61 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 8 | 5.61 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 17 | 5.61 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 17 | 5.61 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 17 | 5.61 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 13 | 5.61 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 13 | 5.61 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 16 | 5.61 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 16 | 5.61 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 19 | 5.61 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 19 | 5.61 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 19 | 5.61 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 16 | 5.61 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 16 | 5.61 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 16 | 5.61 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 11 | 5.61 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 11 | 5.61 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 11 | 5.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6627) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 19 | 5.61 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 16 | 5.61 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 16 | 5.61 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 16 | 5.61 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 14 | 5.61 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 14 | 5.61 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 14 | 5.61 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 16 | 5.61 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 16 | 5.61 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 16 | 5.61 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 17 | 5.61 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 17 | 5.61 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 17 | 5.61 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 18 | 5.61 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 18 | 5.61 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 18 | 5.61 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 3 | 5.61 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 14 | 5.61 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 11 | 5.61 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 11 | 5.61 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 11 | 5.61 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 9 | 5.61 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 9 | 5.61 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 9 | 5.61 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 9 | 5.61 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 9 | 5.61 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 9 | 5.61 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 18 | 5.61 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 18 | 5.61 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 18 | 5.61 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 3 | 5.61 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 3 | 5.61 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 3 | 5.61 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 9 | 5.61 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 11 | 5.61 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 7 | 5.61 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 7 | 5.61 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 7 | 5.61 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 7 | 5.61 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 7 | 5.61 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 7 | 5.61 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 13 | 5.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 5.61 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 5.61 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 5.61 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 12 | 5.61 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 12 | 5.61 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 12 | 5.61 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 12 | 5.61 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 12 | 5.61 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 12 | 5.61 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 15 | 5.61 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 15 | 5.61 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 15 | 5.61 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 15 | 5.61 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 5.61 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 5.61 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 5.61 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 5.61 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 4 | 5.61 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 4 | 5.61 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 4 | 5.61 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 4 | 5.61 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 2 | 5.61 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 2 | 5.61 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 1 | 5.61 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 4 | 5.61 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 2 | 5.61 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 2 | 5.61 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 1 | 5.61 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 1 | 5.61 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 18 | 5.61 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 18 | 5.61 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 18 | 5.61 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 18 | 5.61 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 18 | 5.61 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 18 | 5.61 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 5 | 5.61 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 5 | 5.61 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 1 | 5.61 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 1 | 5.61 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 2 | 5.61 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 2 | 5.61 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 2 | 5.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 11 | 5.61 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 11 | 5.61 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 11 | 5.61 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 11 | 5.61 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 15 | 5.61 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 15 | 5.61 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 15 | 5.61 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 8 | 5.61 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 8 | 5.61 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 14 | 5.61 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 14 | 5.61 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 14 | 5.61 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 5 | 5.61 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 5 | 5.61 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 9 | 5.61 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 9 | 5.61 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 9 | 5.61 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 9 | 5.61 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 2 | 5.61 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 2 | 5.61 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 2 | 5.61 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 8 | 5.61 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 17 | 5.61 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 17 | 5.61 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 17 | 5.61 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 4 | 5.61 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 4 | 5.61 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 4 | 5.61 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 17 | 5.61 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 17 | 5.61 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 17 | 5.61 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 13 | 5.61 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 13 | 5.61 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 16 | 5.61 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 16 | 5.61 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 19 | 5.61 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 19 | 5.61 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 19 | 5.61 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 16 | 5.61 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 16 | 5.61 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 16 | 5.61 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 11 | 5.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 11 | 5.61 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 11 | 5.61 |
| (1,2490) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 19 | 5.61 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 16 | 5.61 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 16 | 5.61 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 16 | 5.61 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 15 | 5.61 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 15 | 5.61 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 15 | 5.61 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 4 | 5.61 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 4 | 5.61 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 4 | 5.61 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 1 | 5.61 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 4 | 5.61 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 4 | 5.61 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 4 | 5.61 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 2 | 5.61 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 2 | 5.61 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 2 | 5.61 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 14 | 5.61 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 14 | 5.61 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 14 | 5.61 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 16 | 5.61 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 16 | 5.61 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 16 | 5.61 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 17 | 5.61 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 17 | 5.61 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 17 | 5.61 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 5.61 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 18 | 5.61 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 18 | 5.61 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 18 | 5.61 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 11 | 5.61 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 11 | 5.61 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 11 | 5.61 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 11 | 5.61 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 11 | 5.61 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 11 | 5.61 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 3 | 5.61 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 9 | 5.61 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 9 | 5.61 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 9 | 5.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 14 | 5.61 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 5 | 5.61 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 5 | 5.61 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 5 | 5.61 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 4 | 5.61 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 17 | 5.61 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 17 | 5.61 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 17 | 5.61 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 17 | 5.61 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 17 | 5.61 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 17 | 5.61 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 18 | 5.6 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 13 | 5.6 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 13 | 5.6 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 13 | 5.6 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 13 | 5.6 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 13 | 5.6 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 13 | 5.6 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 19 | 5.6 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 19 | 5.6 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 2 | 5.6 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 2 | 5.6 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 15 | 5.6 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 15 | 5.6 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 15 | 5.6 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 15 | 5.6 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 15 | 5.6 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 15 | 5.6 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 13 | 5.6 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 13 | 5.6 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 7 | 5.6 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 7 | 5.6 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 7 | 5.6 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 7 | 5.6 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 15 | 5.6 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 15 | 5.6 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 15 | 5.6 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 15 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 9 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 9 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 9 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 9 | 5.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 9 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 9 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 16 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 16 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 16 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 16 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 16 | 5.6 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 16 | 5.6 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 4 | 5.6 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 4 | 5.6 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 5.6 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 20 | 5.6 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 3 | 5.6 |
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 3 | 5.6 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG2 | 18 | 5.6 |
| (1,8999) | 1:76:A:GLU:HB2 | 1:77:A:LYS:HG3 | 18 | 5.6 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 18 | 5.6 |
| (1,8943) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 18 | 5.6 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 9 | 5.6 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 9 | 5.6 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 9 | 5.6 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 9 | 5.6 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 9 | 5.6 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 9 | 5.6 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 6 | 5.6 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 6 | 5.6 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 19 | 5.6 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 19 | 5.6 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 3 | 5.6 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 3 | 5.6 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 11 | 5.6 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 11 | 5.6 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 11 | 5.6 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 11 | 5.6 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 6 | 5.6 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 6 | 5.6 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 2 | 5.6 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 2 | 5.6 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 2 | 5.6 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 2 | 5.6 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 2 | 5.6 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 2 | 5.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 5.6 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 5.6 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 5.6 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 5.6 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 14 | 5.6 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 14 | 5.6 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 14 | 5.6 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 14 | 5.6 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 14 | 5.6 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 14 | 5.6 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 19 | 5.6 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 19 | 5.6 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 9 | 5.6 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 9 | 5.6 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 2 | 5.6 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 2 | 5.6 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 3 | 5.6 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 3 | 5.6 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 6 | 5.6 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 6 | 5.6 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 6 | 5.6 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 6 | 5.6 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 6 | 5.6 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 6 | 5.6 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 6 | 5.6 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 6 | 5.6 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 6 | 5.6 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 6 | 5.6 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 6 | 5.6 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 17 | 5.6 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 17 | 5.6 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 17 | 5.6 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 13 | 5.6 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 13 | 5.6 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 13 | 5.6 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 19 | 5.6 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 1 | 5.6 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 1 | 5.6 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 1 | 5.6 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 3 | 5.6 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 3 | 5.6 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 3 | 5.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 8 | 5.6 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 8 | 5.6 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 8 | 5.6 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 13 | 5.6 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 13 | 5.6 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 16 | 5.6 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 16 | 5.6 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 13 | 5.6 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 2 | 5.6 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 15 | 5.6 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 15 | 5.6 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 4 | 5.6 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 4 | 5.6 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 19 | 5.6 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 19 | 5.6 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 1 | 5.6 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 1 | 5.6 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 1 | 5.6 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 9 | 5.6 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 14 | 5.6 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 15 | 5.6 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 15 | 5.6 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 11 | 5.6 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 4 | 5.6 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 4 | 5.6 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 4 | 5.6 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 13 | 5.6 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 13 | 5.6 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 13 | 5.6 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 12 | 5.6 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 12 | 5.6 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 14 | 5.6 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 14 | 5.6 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 1 | 5.6 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 1 | 5.6 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 19 | 5.6 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 9 | 5.6 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 9 | 5.6 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 7 | 5.6 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 7 | 5.6 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 18 | 5.6 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 18 | 5.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 7 | 5.6 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 14 | 5.6 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 14 | 5.6 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 14 | 5.6 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 4 | 5.6 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 4 | 5.6 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 18 | 5.6 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 18 | 5.6 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 18 | 5.6 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 18 | 5.6 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 18 | 5.6 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 18 | 5.6 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 8 | 5.6 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 8 | 5.6 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 8 | 5.6 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 12 | 5.6 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 12 | 5.6 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 12 | 5.6 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 12 | 5.6 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 12 | 5.6 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 10 | 5.6 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 10 | 5.6 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 10 | 5.6 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 14 | 5.6 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 14 | 5.6 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 14 | 5.6 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 17 | 5.6 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 9 | 5.6 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 8 | 5.6 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 8 | 5.6 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 8 | 5.6 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 13 | 5.6 |
| (1,6767) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 2 | 5.6 |
| (1,6767) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 2 | 5.6 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 20 | 5.6 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 20 | 5.6 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 20 | 5.6 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 19 | 5.6 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 9 | 5.6 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 18 | 5.6 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 13 | 5.6 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 13 | 5.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 13 | 5.6 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 8 | 5.6 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 8 | 5.6 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 8 | 5.6 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 9 | 5.6 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 9 | 5.6 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 9 | 5.6 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 20 | 5.6 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 20 | 5.6 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 20 | 5.6 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 2 | 5.6 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 2 | 5.6 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 11 | 5.6 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 3 | 5.6 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 3 | 5.6 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 3 | 5.6 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 5 | 5.6 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 4 | 5.6 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 1 | 5.6 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 1 | 5.6 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 1 | 5.6 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 14 | 5.6 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 14 | 5.6 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 14 | 5.6 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 5 | 5.6 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 15 | 5.6 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 15 | 5.6 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 15 | 5.6 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 7 | 5.6 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 20 | 5.6 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 20 | 5.6 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 20 | 5.6 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 17 | 5.6 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 17 | 5.6 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 17 | 5.6 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 19 | 5.6 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 19 | 5.6 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 2 | 5.6 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 2 | 5.6 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 15 | 5.6 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 15 | 5.6 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 15 | 5.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 15 | 5.6 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 15 | 5.6 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 15 | 5.6 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 5 | 5.6 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 18 | 5.6 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 16 | 5.6 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 16 | 5.6 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 5 | 5.6 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 5 | 5.6 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 5 | 5.6 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 17 | 5.6 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 17 | 5.6 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 17 | 5.6 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 4 | 5.6 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 4 | 5.6 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 5.6 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 20 | 5.6 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 3 | 5.6 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 3 | 5.6 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 9 | 5.6 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 16 | 5.6 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 14 | 5.6 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 9 | 5.6 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 9 | 5.6 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 9 | 5.6 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 9 | 5.6 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 9 | 5.6 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 9 | 5.6 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 5 | 5.6 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 12 | 5.6 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 17 | 5.6 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 2 | 5.6 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 2 | 5.6 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 2 | 5.6 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 2 | 5.6 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 5.6 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 5.6 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 5.6 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 5.6 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 14 | 5.6 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 14 | 5.6 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 14 | 5.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 7 | 5.6 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 7 | 5.6 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 18 | 5.6 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 18 | 5.6 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 19 | 5.6 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 19 | 5.6 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 3 | 5.6 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 3 | 5.6 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 3 | 5.6 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 10 | 5.6 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 10 | 5.6 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 10 | 5.6 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 14 | 5.6 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 14 | 5.6 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 14 | 5.6 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 17 | 5.6 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 9 | 5.6 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 8 | 5.6 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 8 | 5.6 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 8 | 5.6 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 13 | 5.6 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 19 | 5.6 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 19 | 5.6 |
| (1,2716) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 2 | 5.6 |
| (1,2716) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 2 | 5.6 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 6 | 5.6 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 20 | 5.6 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 20 | 5.6 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 20 | 5.6 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 19 | 5.6 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 16 | 5.6 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 16 | 5.6 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 16 | 5.6 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 9 | 5.6 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 19 | 5.6 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 19 | 5.6 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 19 | 5.6 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 19 | 5.6 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 19 | 5.6 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 19 | 5.6 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 13 | 5.6 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 18 | 5.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 14 | 5.6 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 14 | 5.6 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 14 | 5.6 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 13 | 5.6 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 13 | 5.6 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 13 | 5.6 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 12 | 5.6 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 5.6 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 8 | 5.6 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 8 | 5.6 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 8 | 5.6 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 6 | 5.6 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 17 | 5.6 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 9 | 5.6 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 9 | 5.6 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 9 | 5.6 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 9 | 5.6 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 20 | 5.6 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 20 | 5.6 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 20 | 5.6 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 2 | 5.6 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 2 | 5.6 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 11 | 5.6 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 3 | 5.6 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 3 | 5.6 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 3 | 5.6 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 18 | 5.6 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 5 | 5.6 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 12 | 5.6 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 4 | 5.6 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 1 | 5.6 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 1 | 5.6 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 1 | 5.6 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 17 | 5.6 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 17 | 5.6 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 17 | 5.6 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 17 | 5.6 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 17 | 5.6 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 17 | 5.6 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 3 | 5.59 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 2 | 5.59 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 6 | 5.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 6 | 5.59 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 8 | 5.59 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 5.59 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 5.59 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 5.59 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 5.59 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 5.59 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 5.59 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 9 | 5.59 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 9 | 5.59 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 8 | 5.59 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 8 | 5.59 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 8 | 5.59 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 8 | 5.59 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 8 | 5.59 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 8 | 5.59 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 4 | 5.59 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 4 | 5.59 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 11 | 5.59 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 11 | 5.59 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 7 | 5.59 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 7 | 5.59 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 2 | 5.59 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 2 | 5.59 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 2 | 5.59 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 2 | 5.59 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 17 | 5.59 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 17 | 5.59 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 20 | 5.59 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 20 | 5.59 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 5 | 5.59 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 5 | 5.59 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 5 | 5.59 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 5 | 5.59 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 5 | 5.59 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 5 | 5.59 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 15 | 5.59 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 15 | 5.59 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 8 | 5.59 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 8 | 5.59 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 8 | 5.59 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 8 | 5.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 12 | 5.59 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 12 | 5.59 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 3 | 5.59 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 3 | 5.59 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 3 | 5.59 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 3 | 5.59 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 3 | 5.59 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 3 | 5.59 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 18 | 5.59 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 18 | 5.59 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 18 | 5.59 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 18 | 5.59 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 16 | 5.59 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 16 | 5.59 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 16 | 5.59 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 16 | 5.59 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 13 | 5.59 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 13 | 5.59 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 13 | 5.59 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 13 | 5.59 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 13 | 5.59 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 13 | 5.59 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 13 | 5.59 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 13 | 5.59 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 13 | 5.59 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 13 | 5.59 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 12 | 5.59 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 12 | 5.59 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 19 | 5.59 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 19 | 5.59 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 14 | 5.59 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 14 | 5.59 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 7 | 5.59 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 3 | 5.59 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 3 | 5.59 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 3 | 5.59 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 1 | 5.59 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 17 | 5.59 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 8 | 5.59 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 8 | 5.59 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 6 | 5.59 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 20 | 5.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 20 | 5.59 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 20 | 5.59 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 3 | 5.59 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 20 | 5.59 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 18 | 5.59 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 9 | 5.59 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 9 | 5.59 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 9 | 5.59 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 12 | 5.59 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 9 | 5.59 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 16 | 5.59 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 10 | 5.59 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 10 | 5.59 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 10 | 5.59 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 5 | 5.59 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 17 | 5.59 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 6 | 5.59 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 6 | 5.59 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 6 | 5.59 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 8 | 5.59 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 8 | 5.59 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 8 | 5.59 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 8 | 5.59 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 8 | 5.59 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 8 | 5.59 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 8 | 5.59 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 8 | 5.59 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 8 | 5.59 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 13 | 5.59 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 16 | 5.59 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 2 | 5.59 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 9 | 5.59 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 4 | 5.59 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 1 | 5.59 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 4 | 5.59 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 4 | 5.59 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 8 | 5.59 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 9 | 5.59 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 7 | 5.59 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 19 | 5.59 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 19 | 5.59 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 19 | 5.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 19 | 5.59 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 19 | 5.59 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 19 | 5.59 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 1 | 5.59 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 1 | 5.59 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 1 | 5.59 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 19 | 5.59 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 19 | 5.59 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 18 | 5.59 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 18 | 5.59 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 18 | 5.59 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 19 | 5.59 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 19 | 5.59 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 19 | 5.59 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 5 | 5.59 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 5 | 5.59 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 2 | 5.59 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 2 | 5.59 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 2 | 5.59 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 14 | 5.59 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 11 | 5.59 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 9 | 5.59 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 9 | 5.59 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 9 | 5.59 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 11 | 5.59 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 11 | 5.59 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 11 | 5.59 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 15 | 5.59 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 12 | 5.59 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 12 | 5.59 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 13 | 5.59 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 13 | 5.59 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 13 | 5.59 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 14 | 5.59 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 14 | 5.59 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 14 | 5.59 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 6 | 5.59 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 15 | 5.59 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 9 | 5.59 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 9 | 5.59 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 9 | 5.59 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 16 | 5.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 16 | 5.59 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 16 | 5.59 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 1 | 5.59 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 1 | 5.59 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 1 | 5.59 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 1 | 5.59 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 1 | 5.59 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 1 | 5.59 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 1 | 5.59 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 1 | 5.59 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 1 | 5.59 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 2 | 5.59 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 2 | 5.59 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 2 | 5.59 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 11 | 5.59 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 11 | 5.59 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 11 | 5.59 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 14 | 5.59 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 18 | 5.59 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 6 | 5.59 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 6 | 5.59 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 6 | 5.59 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 4 | 5.59 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 4 | 5.59 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 11 | 5.59 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 9 | 5.59 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 9 | 5.59 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 9 | 5.59 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 3 | 5.59 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 11 | 5.59 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 8 | 5.59 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 8 | 5.59 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 8 | 5.59 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 8 | 5.59 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 1 | 5.59 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 1 | 5.59 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 1 | 5.59 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 7 | 5.59 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 7 | 5.59 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 7 | 5.59 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 17 | 5.59 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 8 | 5.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 8 | 5.59 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 8 | 5.59 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 10 | 5.59 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 10 | 5.59 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 10 | 5.59 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 10 | 5.59 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 18 | 5.59 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 13 | 5.59 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 5.59 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 5.59 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 5.59 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 5.59 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 5.59 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 5.59 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 16 | 5.59 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 16 | 5.59 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 8 | 5.59 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 8 | 5.59 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 8 | 5.59 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 8 | 5.59 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 8 | 5.59 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 8 | 5.59 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 2 | 5.59 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 2 | 5.59 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 2 | 5.59 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 2 | 5.59 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 16 | 5.59 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 17 | 5.59 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 17 | 5.59 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 17 | 5.59 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 17 | 5.59 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 12 | 5.59 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 3 | 5.59 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 3 | 5.59 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 3 | 5.59 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 9 | 5.59 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 1 | 5.59 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 4 | 5.59 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 16 | 5.59 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 16 | 5.59 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 16 | 5.59 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 16 | 5.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 17 | 5.59 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 17 | 5.59 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 17 | 5.59 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 13 | 5.59 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 13 | 5.59 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 13 | 5.59 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 13 | 5.59 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 13 | 5.59 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 13 | 5.59 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 17 | 5.59 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 5.59 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 5.59 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 2 | 5.59 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 18 | 5.59 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 18 | 5.59 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 18 | 5.59 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 19 | 5.59 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 19 | 5.59 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 19 | 5.59 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 5 | 5.59 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 5 | 5.59 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 2 | 5.59 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 2 | 5.59 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 2 | 5.59 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 14 | 5.59 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 13 | 5.59 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 11 | 5.59 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 9 | 5.59 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 9 | 5.59 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 9 | 5.59 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 11 | 5.59 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 11 | 5.59 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 11 | 5.59 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 15 | 5.59 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 12 | 5.59 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 12 | 5.59 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 13 | 5.59 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 13 | 5.59 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 13 | 5.59 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 14 | 5.59 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 14 | 5.59 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 14 | 5.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 6 | 5.59 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 16 | 5.59 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 16 | 5.59 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 16 | 5.59 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 16 | 5.59 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 16 | 5.59 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 16 | 5.59 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 15 | 5.59 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 9 | 5.59 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 9 | 5.59 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 9 | 5.59 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 16 | 5.59 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 16 | 5.59 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 16 | 5.59 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 2 | 5.59 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 1 | 5.59 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 1 | 5.59 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 1 | 5.59 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 1 | 5.59 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 1 | 5.59 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 1 | 5.59 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 1 | 5.59 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 1 | 5.59 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 1 | 5.59 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 19 | 5.59 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 2 | 5.59 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 2 | 5.59 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 2 | 5.59 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 11 | 5.59 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 11 | 5.59 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 11 | 5.59 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 14 | 5.59 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 5 | 5.59 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 5 | 5.59 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 5 | 5.59 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 18 | 5.59 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 6 | 5.59 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 6 | 5.59 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 6 | 5.59 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 9 | 5.59 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 19 | 5.59 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 19 | 5.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 3 | 5.59 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 3 | 5.59 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 4 | 5.59 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 4 | 5.59 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 11 | 5.59 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 6 | 5.59 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 6 | 5.59 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 6 | 5.59 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 9 | 5.59 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 9 | 5.59 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 9 | 5.59 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 3 | 5.59 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 11 | 5.59 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 14 | 5.59 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 14 | 5.59 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 14 | 5.59 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 18 | 5.59 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 6 | 5.58 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 19 | 5.58 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 19 | 5.58 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 9 | 5.58 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 9 | 5.58 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 14 | 5.58 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 14 | 5.58 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 18 | 5.58 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 18 | 5.58 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 20 | 5.58 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 20 | 5.58 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 19 | 5.58 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 19 | 5.58 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 19 | 5.58 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 19 | 5.58 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 7 | 5.58 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 7 | 5.58 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 18 | 5.58 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 18 | 5.58 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 6 | 5.58 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 6 | 5.58 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 4 | 5.58 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 4 | 5.58 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 4 | 5.58 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 4 | 5.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 1 | 5.58 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 1 | 5.58 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 17 | 5.58 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 17 | 5.58 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 4 | 5.58 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 4 | 5.58 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 19 | 5.58 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 19 | 5.58 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 19 | 5.58 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 19 | 5.58 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 19 | 5.58 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 19 | 5.58 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 7 | 5.58 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 7 | 5.58 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 7 | 5.58 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 7 | 5.58 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 7 | 5.58 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 7 | 5.58 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 20 | 5.58 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 20 | 5.58 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 13 | 5.58 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 13 | 5.58 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 10 | 5.58 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 10 | 5.58 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 6 | 5.58 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 6 | 5.58 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 6 | 5.58 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 6 | 5.58 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 6 | 5.58 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 6 | 5.58 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 6 | 5.58 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 6 | 5.58 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 17 | 5.58 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 17 | 5.58 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 15 | 5.58 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 15 | 5.58 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 15 | 5.58 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 16 | 5.58 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 16 | 5.58 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 16 | 5.58 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 8 | 5.58 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 8 | 5.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 6 | 5.58 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 4 | 5.58 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 5 | 5.58 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 5 | 5.58 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 5 | 5.58 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 5 | 5.58 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 5 | 5.58 |
| (1,8167) | 1:98:A:SER:H | 1:102:A:ASP:H | 3 | 5.58 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 2 | 5.58 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 2 | 5.58 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 2 | 5.58 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 16 | 5.58 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 16 | 5.58 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 16 | 5.58 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 6 | 5.58 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 6 | 5.58 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 19 | 5.58 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 7 | 5.58 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 14 | 5.58 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 14 | 5.58 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 14 | 5.58 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 1 | 5.58 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 12 | 5.58 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 12 | 5.58 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 12 | 5.58 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 12 | 5.58 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 12 | 5.58 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 12 | 5.58 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 12 | 5.58 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 12 | 5.58 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 12 | 5.58 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 5 | 5.58 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 20 | 5.58 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 20 | 5.58 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 20 | 5.58 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 17 | 5.58 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 17 | 5.58 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 17 | 5.58 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 5 | 5.58 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 5 | 5.58 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 17 | 5.58 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 18 | 5.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 15 | 5.58 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 15 | 5.58 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 11 | 5.58 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 11 | 5.58 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 11 | 5.58 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 11 | 5.58 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 11 | 5.58 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 11 | 5.58 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 4 | 5.58 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 8 | 5.58 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 8 | 5.58 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 8 | 5.58 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 11 | 5.58 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 11 | 5.58 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 4 | 5.58 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 4 | 5.58 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 4 | 5.58 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 4 | 5.58 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 14 | 5.58 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 9 | 5.58 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 9 | 5.58 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 5 | 5.58 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 5 | 5.58 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 2 | 5.58 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 2 | 5.58 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 2 | 5.58 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 13 | 5.58 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 13 | 5.58 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 13 | 5.58 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 13 | 5.58 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 13 | 5.58 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 13 | 5.58 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 13 | 5.58 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 13 | 5.58 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 13 | 5.58 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 17 | 5.58 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 17 | 5.58 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 17 | 5.58 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 18 | 5.58 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 18 | 5.58 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 18 | 5.58 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 12 | 5.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 19 | 5.58 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 19 | 5.58 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 19 | 5.58 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 19 | 5.58 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 19 | 5.58 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 19 | 5.58 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 14 | 5.58 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 18 | 5.58 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 18 | 5.58 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 18 | 5.58 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 13 | 5.58 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 9 | 5.58 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 11 | 5.58 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 11 | 5.58 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 17 | 5.58 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 17 | 5.58 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 17 | 5.58 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 17 | 5.58 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 17 | 5.58 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 17 | 5.58 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 4 | 5.58 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 4 | 5.58 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 4 | 5.58 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 3 | 5.58 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 17 | 5.58 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 17 | 5.58 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 4 | 5.58 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 4 | 5.58 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 4 | 5.58 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 7 | 5.58 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 7 | 5.58 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 7 | 5.58 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 7 | 5.58 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 7 | 5.58 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 7 | 5.58 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 7 | 5.58 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 7 | 5.58 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 7 | 5.58 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 7 | 5.58 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 7 | 5.58 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 7 | 5.58 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 8 | 5.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 19 | 5.58 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 19 | 5.58 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 16 | 5.58 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 1 | 5.58 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 1 | 5.58 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 1 | 5.58 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 5.58 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 5.58 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 5.58 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 2 | 5.58 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 2 | 5.58 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 2 | 5.58 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 2 | 5.58 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 7 | 5.58 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 4 | 5.58 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 4 | 5.58 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 4 | 5.58 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 4 | 5.58 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 4 | 5.58 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 4 | 5.58 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 4 | 5.58 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 7 | 5.58 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 7 | 5.58 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 7 | 5.58 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 7 | 5.58 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 7 | 5.58 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 7 | 5.58 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 1 | 5.58 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 14 | 5.58 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 8 | 5.58 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 8 | 5.58 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 8 | 5.58 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 17 | 5.58 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 17 | 5.58 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 5.58 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 5.58 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 15 | 5.58 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 15 | 5.58 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 5.58 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 5.58 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 16 | 5.58 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 16 | 5.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 6 | 5.58 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 6 | 5.58 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 17 | 5.58 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 17 | 5.58 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 10 | 5.58 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 18 | 5.58 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 14 | 5.58 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 4 | 5.58 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 4 | 5.58 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 4 | 5.58 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 14 | 5.58 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 9 | 5.58 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 9 | 5.58 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 5 | 5.58 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 5 | 5.58 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 20 | 5.58 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 2 | 5.58 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 2 | 5.58 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 2 | 5.58 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 13 | 5.58 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 13 | 5.58 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 13 | 5.58 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 13 | 5.58 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 13 | 5.58 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 13 | 5.58 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 13 | 5.58 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 13 | 5.58 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 13 | 5.58 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 8 | 5.58 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 8 | 5.58 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 8 | 5.58 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 17 | 5.58 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 17 | 5.58 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 17 | 5.58 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 18 | 5.58 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 18 | 5.58 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 18 | 5.58 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 17 | 5.58 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 17 | 5.58 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 17 | 5.58 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 5 | 5.58 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 17 | 5.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 17 | 5.58 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 17 | 5.58 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 12 | 5.58 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 19 | 5.58 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 19 | 5.58 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 19 | 5.58 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 19 | 5.58 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 19 | 5.58 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 19 | 5.58 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 14 | 5.58 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 18 | 5.58 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 18 | 5.58 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 18 | 5.58 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 13 | 5.58 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 19 | 5.58 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 19 | 5.58 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 19 | 5.58 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 9 | 5.58 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 11 | 5.58 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 11 | 5.58 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 3 | 5.58 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 3 | 5.58 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 3 | 5.58 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 18 | 5.58 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 18 | 5.58 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 18 | 5.58 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 17 | 5.58 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 17 | 5.58 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 17 | 5.58 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 17 | 5.58 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 17 | 5.58 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 17 | 5.58 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 6 | 5.57 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 6 | 5.57 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 12 | 5.57 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 7 | 5.57 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 7 | 5.57 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 7 | 5.57 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 7 | 5.57 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 7 | 5.57 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 7 | 5.57 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 15 | 5.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 15 | 5.57 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 19 | 5.57 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 19 | 5.57 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 7 | 5.57 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 7 | 5.57 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 1 | 5.57 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 1 | 5.57 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 14 | 5.57 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 14 | 5.57 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 15 | 5.57 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 15 | 5.57 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 17 | 5.57 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 17 | 5.57 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 1 | 5.57 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 1 | 5.57 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 8 | 5.57 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 8 | 5.57 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 16 | 5.57 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 16 | 5.57 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 8 | 5.57 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 8 | 5.57 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 8 | 5.57 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 8 | 5.57 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 15 | 5.57 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 15 | 5.57 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 12 | 5.57 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 12 | 5.57 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 14 | 5.57 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 14 | 5.57 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 14 | 5.57 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 14 | 5.57 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 14 | 5.57 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 14 | 5.57 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 9 | 5.57 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 9 | 5.57 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 15 | 5.57 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 15 | 5.57 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 15 | 5.57 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 15 | 5.57 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 15 | 5.57 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 15 | 5.57 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 15 | 5.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 15 | 5.57 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 9 | 5.57 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 9 | 5.57 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 20 | 5.57 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 20 | 5.57 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 17 | 5.57 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 17 | 5.57 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 17 | 5.57 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 17 | 5.57 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 17 | 5.57 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 17 | 5.57 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 6 | 5.57 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 6 | 5.57 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 13 | 5.57 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 13 | 5.57 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 9 | 5.57 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 9 | 5.57 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 14 | 5.57 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 14 | 5.57 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 14 | 5.57 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 14 | 5.57 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 8 | 5.57 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 8 | 5.57 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 7 | 5.57 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 7 | 5.57 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 7 | 5.57 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 7 | 5.57 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 5 | 5.57 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 5 | 5.57 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 5 | 5.57 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 5 | 5.57 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 8 | 5.57 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 8 | 5.57 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 16 | 5.57 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 16 | 5.57 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 19 | 5.57 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 19 | 5.57 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 19 | 5.57 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 3 | 5.57 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 3 | 5.57 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 3 | 5.57 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 3 | 5.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 3 | 5.57 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 3 | 5.57 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 3 | 5.57 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 3 | 5.57 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 3 | 5.57 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 12 | 5.57 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 12 | 5.57 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 19 | 5.57 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 19 | 5.57 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 19 | 5.57 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 13 | 5.57 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 2 | 5.57 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 2 | 5.57 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 2 | 5.57 |
| (1,8339) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 5 | 5.57 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 12 | 5.57 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 5 | 5.57 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 5 | 5.57 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 10 | 5.57 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 18 | 5.57 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 18 | 5.57 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 15 | 5.57 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 15 | 5.57 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 14 | 5.57 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 4 | 5.57 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 4 | 5.57 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 4 | 5.57 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 14 | 5.57 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 14 | 5.57 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 14 | 5.57 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 2 | 5.57 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 2 | 5.57 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 9 | 5.57 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 1 | 5.57 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 1 | 5.57 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 1 | 5.57 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 2 | 5.57 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 6 | 5.57 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 6 | 5.57 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 6 | 5.57 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 1 | 5.57 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 1 | 5.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 3 | 5.57 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 8 | 5.57 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 8 | 5.57 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 6 | 5.57 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 6 | 5.57 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 19 | 5.57 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 19 | 5.57 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 3 | 5.57 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 11 | 5.57 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 11 | 5.57 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 11 | 5.57 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 14 | 5.57 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 14 | 5.57 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 14 | 5.57 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 5 | 5.57 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 5 | 5.57 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 5 | 5.57 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 2 | 5.57 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 2 | 5.57 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 2 | 5.57 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 2 | 5.57 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 2 | 5.57 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 2 | 5.57 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 2 | 5.57 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 2 | 5.57 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 2 | 5.57 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 19 | 5.57 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 19 | 5.57 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 19 | 5.57 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 19 | 5.57 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 19 | 5.57 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 19 | 5.57 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 15 | 5.57 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 13 | 5.57 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 4 | 5.57 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 4 | 5.57 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 4 | 5.57 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 12 | 5.57 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 14 | 5.57 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 11 | 5.57 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 11 | 5.57 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 11 | 5.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 20 | 5.57 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 20 | 5.57 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 20 | 5.57 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 7 | 5.57 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 15 | 5.57 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 15 | 5.57 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 15 | 5.57 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 19 | 5.57 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 8 | 5.57 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 1 | 5.57 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 17 | 5.57 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 17 | 5.57 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 17 | 5.57 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 5 | 5.57 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 12 | 5.57 |
| (1,7443) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 18 | 5.57 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 14 | 5.57 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 7 | 5.57 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 7 | 5.57 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 7 | 5.57 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 7 | 5.57 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 10 | 5.57 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 18 | 5.57 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 18 | 5.57 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 17 | 5.57 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 13 | 5.57 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 15 | 5.57 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 15 | 5.57 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 15 | 5.57 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 13 | 5.57 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 13 | 5.57 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 13 | 5.57 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 13 | 5.57 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 13 | 5.57 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 13 | 5.57 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 20 | 5.57 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 20 | 5.57 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 20 | 5.57 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 15 | 5.57 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 15 | 5.57 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 15 | 5.57 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 14 | 5.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 6 | 5.57 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 6 | 5.57 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 6 | 5.57 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 20 | 5.57 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 20 | 5.57 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 20 | 5.57 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 20 | 5.57 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 20 | 5.57 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 20 | 5.57 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 11 | 5.57 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 11 | 5.57 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 11 | 5.57 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 4 | 5.57 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 4 | 5.57 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 4 | 5.57 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 20 | 5.57 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 20 | 5.57 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 20 | 5.57 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 3 | 5.57 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 3 | 5.57 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 3 | 5.57 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 20 | 5.57 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 20 | 5.57 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 20 | 5.57 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 4 | 5.57 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 4 | 5.57 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 4 | 5.57 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 11 | 5.57 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 11 | 5.57 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 11 | 5.57 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 1 | 5.57 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 1 | 5.57 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 1 | 5.57 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 1 | 5.57 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 9 | 5.57 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 9 | 5.57 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 9 | 5.57 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 12 | 5.57 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 12 | 5.57 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 14 | 5.57 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 14 | 5.57 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 13 | 5.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 18 | 5.57 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 18 | 5.57 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 18 | 5.57 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 18 | 5.57 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 18 | 5.57 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 18 | 5.57 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 13 | 5.57 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 2 | 5.57 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 13 | 5.57 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 13 | 5.57 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 13 | 5.57 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 15 | 5.57 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 15 | 5.57 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 12 | 5.57 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 12 | 5.57 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 9 | 5.57 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 14 | 5.57 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 14 | 5.57 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 14 | 5.57 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 14 | 5.57 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 14 | 5.57 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 14 | 5.57 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 17 | 5.57 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 9 | 5.57 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 9 | 5.57 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 9 | 5.57 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 9 | 5.57 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 9 | 5.57 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 9 | 5.57 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 12 | 5.57 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 19 | 5.57 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 17 | 5.57 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 17 | 5.57 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 17 | 5.57 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 17 | 5.57 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 17 | 5.57 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 17 | 5.57 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 3 | 5.57 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 3 | 5.57 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 3 | 5.57 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 13 | 5.57 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 5 | 5.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 6 | 5.57 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 6 | 5.57 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 6 | 5.57 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 5 | 5.57 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 5 | 5.57 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 5 | 5.57 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 5 | 5.57 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 8 | 5.57 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 8 | 5.57 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 16 | 5.57 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 16 | 5.57 |
| (1,3548) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 5.57 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 14 | 5.57 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 14 | 5.57 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 14 | 5.57 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 17 | 5.57 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 19 | 5.57 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 13 | 5.57 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 15 | 5.57 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 15 | 5.57 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 15 | 5.57 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 16 | 5.57 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 16 | 5.57 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 16 | 5.57 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 10 | 5.57 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 18 | 5.57 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 18 | 5.57 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 14 | 5.57 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 17 | 5.57 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 1 | 5.57 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 13 | 5.57 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 5 | 5.57 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 5 | 5.57 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 5 | 5.57 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 5 | 5.57 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 15 | 5.57 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 15 | 5.57 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 15 | 5.57 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 13 | 5.57 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 13 | 5.57 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 13 | 5.57 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 13 | 5.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 13 | 5.57 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 13 | 5.57 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 20 | 5.57 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 20 | 5.57 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 20 | 5.57 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 15 | 5.57 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 15 | 5.57 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 15 | 5.57 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 3 | 5.57 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 3 | 5.57 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 3 | 5.57 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 3 | 5.57 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 7 | 5.57 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 7 | 5.57 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 7 | 5.57 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 7 | 5.57 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 7 | 5.57 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 7 | 5.57 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 4 | 5.57 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 14 | 5.57 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 6 | 5.57 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 6 | 5.57 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 6 | 5.57 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 20 | 5.57 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 20 | 5.57 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 20 | 5.57 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 20 | 5.57 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 20 | 5.57 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 20 | 5.57 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 1 | 5.57 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 1 | 5.57 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 1 | 5.57 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 11 | 5.57 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 11 | 5.57 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 11 | 5.57 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 11 | 5.57 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 4 | 5.57 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 4 | 5.57 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 4 | 5.57 |
| (4,146) | 1:98:A:SER:CB | 1:5:A:GLU:H | 9 | 5.56 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 13 | 5.56 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 13 | 5.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 11 | 5.56 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 11 | 5.56 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 2 | 5.56 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 2 | 5.56 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 13 | 5.56 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 13 | 5.56 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 10 | 5.56 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 10 | 5.56 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 1 | 5.56 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 1 | 5.56 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 1 | 5.56 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 1 | 5.56 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 16 | 5.56 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 16 | 5.56 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 16 | 5.56 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 16 | 5.56 |
| (1,9010) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 7 | 5.56 |
| (1,9010) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 7 | 5.56 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 8 | 5.56 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 8 | 5.56 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 8 | 5.56 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 8 | 5.56 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 8 | 5.56 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 8 | 5.56 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 8 | 5.56 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 8 | 5.56 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 16 | 5.56 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 16 | 5.56 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 17 | 5.56 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 17 | 5.56 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 17 | 5.56 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 17 | 5.56 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 18 | 5.56 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 18 | 5.56 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 18 | 5.56 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 18 | 5.56 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 7 | 5.56 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 7 | 5.56 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 7 | 5.56 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 7 | 5.56 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 7 | 5.56 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 7 | 5.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 9 | 5.56 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 9 | 5.56 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 9 | 5.56 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 9 | 5.56 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 9 | 5.56 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 9 | 5.56 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 1 | 5.56 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 1 | 5.56 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 1 | 5.56 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 19 | 5.56 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 8 | 5.56 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 6 | 5.56 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 6 | 5.56 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 12 | 5.56 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 3 | 5.56 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 3 | 5.56 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 16 | 5.56 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 13 | 5.56 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 18 | 5.56 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 18 | 5.56 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 5 | 5.56 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 5 | 5.56 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 3 | 5.56 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 3 | 5.56 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 3 | 5.56 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 3 | 5.56 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 14 | 5.56 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 3 | 5.56 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 4 | 5.56 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 4 | 5.56 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 4 | 5.56 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 11 | 5.56 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 11 | 5.56 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 11 | 5.56 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 2 | 5.56 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 19 | 5.56 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 19 | 5.56 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 19 | 5.56 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 19 | 5.56 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 13 | 5.56 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 13 | 5.56 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 13 | 5.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 2 | 5.56 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 10 | 5.56 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 16 | 5.56 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 16 | 5.56 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 8 | 5.56 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 20 | 5.56 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 3 | 5.56 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 3 | 5.56 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 1 | 5.56 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 17 | 5.56 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 17 | 5.56 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 14 | 5.56 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 14 | 5.56 |
| (1,7316) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 14 | 5.56 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 5 | 5.56 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 1 | 5.56 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 9 | 5.56 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 15 | 5.56 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 15 | 5.56 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 15 | 5.56 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 18 | 5.56 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 18 | 5.56 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 18 | 5.56 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 16 | 5.56 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 8 | 5.56 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 11 | 5.56 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 11 | 5.56 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 11 | 5.56 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 11 | 5.56 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 11 | 5.56 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 11 | 5.56 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 5 | 5.56 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 14 | 5.56 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 13 | 5.56 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 17 | 5.56 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 17 | 5.56 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 17 | 5.56 |
| (1,6142) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 3 | 5.56 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 7 | 5.56 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 7 | 5.56 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 7 | 5.56 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 11 | 5.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 11 | 5.56 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 11 | 5.56 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 10 | 5.56 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 10 | 5.56 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 10 | 5.56 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 18 | 5.56 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 12 | 5.56 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 11 | 5.56 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 11 | 5.56 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 11 | 5.56 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 11 | 5.56 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 11 | 5.56 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 11 | 5.56 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 2 | 5.56 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 2 | 5.56 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 2 | 5.56 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 5 | 5.56 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 5 | 5.56 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 5 | 5.56 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 13 | 5.56 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 13 | 5.56 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 13 | 5.56 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 13 | 5.56 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 13 | 5.56 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 13 | 5.56 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 13 | 5.56 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 13 | 5.56 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 13 | 5.56 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 13 | 5.56 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 13 | 5.56 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 13 | 5.56 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 18 | 5.56 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 18 | 5.56 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 18 | 5.56 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 7 | 5.56 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 7 | 5.56 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 7 | 5.56 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 9 | 5.56 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 9 | 5.56 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 9 | 5.56 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 9 | 5.56 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 9 | 5.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 9 | 5.56 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 9 | 5.56 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 9 | 5.56 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 9 | 5.56 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 17 | 5.56 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 17 | 5.56 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 17 | 5.56 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 1 | 5.56 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 13 | 5.56 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 13 | 5.56 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 13 | 5.56 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 3 | 5.56 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 8 | 5.56 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 8 | 5.56 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 8 | 5.56 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 15 | 5.56 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 15 | 5.56 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 15 | 5.56 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 15 | 5.56 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 15 | 5.56 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 15 | 5.56 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 15 | 5.56 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 15 | 5.56 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 15 | 5.56 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 2 | 5.56 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 2 | 5.56 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 2 | 5.56 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 5 | 5.56 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 5 | 5.56 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 5 | 5.56 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 18 | 5.56 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 18 | 5.56 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 18 | 5.56 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 10 | 5.56 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 15 | 5.56 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 15 | 5.56 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 15 | 5.56 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 15 | 5.56 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 15 | 5.56 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 13 | 5.56 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 13 | 5.56 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 16 | 5.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 8 | 5.56 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 8 | 5.56 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 10 | 5.56 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 10 | 5.56 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 7 | 5.56 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 11 | 5.56 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 11 | 5.56 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 11 | 5.56 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 1 | 5.56 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 1 | 5.56 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 1 | 5.56 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 1 | 5.56 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 1 | 5.56 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 16 | 5.56 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 16 | 5.56 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 16 | 5.56 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 16 | 5.56 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 4 | 5.56 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 4 | 5.56 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 5 | 5.56 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 5 | 5.56 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 19 | 5.56 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 19 | 5.56 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 19 | 5.56 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 1 | 5.56 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 18 | 5.56 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 10 | 5.56 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 10 | 5.56 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 10 | 5.56 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 10 | 5.56 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 7 | 5.56 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 9 | 5.56 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 9 | 5.56 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 9 | 5.56 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 9 | 5.56 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 9 | 5.56 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 9 | 5.56 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 5 | 5.56 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 5 | 5.56 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 5 | 5.56 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 10 | 5.56 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 10 | 5.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 10 | 5.56 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 13 | 5.56 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 13 | 5.56 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 13 | 5.56 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 13 | 5.56 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 5 | 5.56 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 1 | 5.56 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 9 | 5.56 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 1 | 5.56 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 1 | 5.56 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 15 | 5.56 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 15 | 5.56 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 15 | 5.56 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 18 | 5.56 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 18 | 5.56 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 18 | 5.56 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 16 | 5.56 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 8 | 5.56 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 2 | 5.56 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 5.56 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 2 | 5.56 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 9 | 5.56 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 9 | 5.56 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 9 | 5.56 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 11 | 5.56 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 11 | 5.56 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 11 | 5.56 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 11 | 5.56 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 11 | 5.56 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 11 | 5.56 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 5 | 5.56 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 14 | 5.56 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 15 | 5.56 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 13 | 5.56 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 17 | 5.56 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 17 | 5.56 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 17 | 5.56 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 12 | 5.56 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 12 | 5.56 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 12 | 5.56 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 13 | 5.56 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 13 | 5.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 13 | 5.56 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 11 | 5.56 |
| (1,1734) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 3 | 5.56 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 7 | 5.56 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 7 | 5.56 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 7 | 5.56 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 11 | 5.56 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 11 | 5.56 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 11 | 5.56 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 10 | 5.56 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 10 | 5.56 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 10 | 5.56 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 18 | 5.56 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 12 | 5.56 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 11 | 5.56 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 11 | 5.56 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 11 | 5.56 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 11 | 5.56 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 11 | 5.56 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 11 | 5.56 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 2 | 5.56 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 2 | 5.56 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 2 | 5.56 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 5 | 5.56 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 5 | 5.56 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 5 | 5.56 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 16 | 5.56 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 9 | 5.55 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 16 | 5.55 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 9 | 5.55 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 9 | 5.55 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 20 | 5.55 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 7 | 5.55 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 7 | 5.55 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 6 | 5.55 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 6 | 5.55 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 18 | 5.55 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 18 | 5.55 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 18 | 5.55 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 18 | 5.55 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 13 | 5.55 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 13 | 5.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 20 | 5.55 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 20 | 5.55 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 4 | 5.55 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 4 | 5.55 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 7 | 5.55 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 7 | 5.55 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 7 | 5.55 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 7 | 5.55 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 7 | 5.55 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 7 | 5.55 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 7 | 5.55 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 7 | 5.55 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 13 | 5.55 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 13 | 5.55 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 13 | 5.55 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 13 | 5.55 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 6 | 5.55 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 6 | 5.55 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 16 | 5.55 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 16 | 5.55 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 16 | 5.55 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 16 | 5.55 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 16 | 5.55 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 16 | 5.55 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 2 | 5.55 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 2 | 5.55 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 14 | 5.55 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 14 | 5.55 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 14 | 5.55 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 20 | 5.55 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 20 | 5.55 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 20 | 5.55 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 16 | 5.55 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 16 | 5.55 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 16 | 5.55 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 16 | 5.55 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 16 | 5.55 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 16 | 5.55 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 16 | 5.55 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 16 | 5.55 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 16 | 5.55 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 16 | 5.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 5 | 5.55 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 5 | 5.55 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 5 | 5.55 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 18 | 5.55 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 11 | 5.55 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 11 | 5.55 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 11 | 5.55 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 17 | 5.55 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 17 | 5.55 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 17 | 5.55 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 17 | 5.55 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 17 | 5.55 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 17 | 5.55 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 7 | 5.55 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 8 | 5.55 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 4 | 5.55 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 5 | 5.55 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 15 | 5.55 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 15 | 5.55 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 15 | 5.55 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 15 | 5.55 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 10 | 5.55 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 19 | 5.55 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 19 | 5.55 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 19 | 5.55 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 1 | 5.55 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 7 | 5.55 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 7 | 5.55 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 3 | 5.55 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 3 | 5.55 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 11 | 5.55 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 11 | 5.55 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 11 | 5.55 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 9 | 5.55 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 9 | 5.55 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 9 | 5.55 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 2 | 5.55 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 2 | 5.55 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 2 | 5.55 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 13 | 5.55 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 12 | 5.55 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 9 | 5.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 11 | 5.55 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 20 | 5.55 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 5.55 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 5.55 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 11 | 5.55 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 12 | 5.55 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 9 | 5.55 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 17 | 5.55 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 17 | 5.55 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 18 | 5.55 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 4 | 5.55 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 9 | 5.55 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 16 | 5.55 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 14 | 5.55 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 6 | 5.55 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 5 | 5.55 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 1 | 5.55 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 1 | 5.55 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 1 | 5.55 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 11 | 5.55 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 11 | 5.55 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 11 | 5.55 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 7 | 5.55 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 9 | 5.55 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 13 | 5.55 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 10 | 5.55 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 2 | 5.55 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 2 | 5.55 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 2 | 5.55 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 2 | 5.55 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 2 | 5.55 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 2 | 5.55 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 4 | 5.55 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 4 | 5.55 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 2 | 5.55 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 2 | 5.55 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 2 | 5.55 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 19 | 5.55 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 19 | 5.55 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 19 | 5.55 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 2 | 5.55 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 2 | 5.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 2 | 5.55 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 4 | 5.55 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 17 | 5.55 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 3 | 5.55 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 11 | 5.55 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 11 | 5.55 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 11 | 5.55 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 13 | 5.55 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 8 | 5.55 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 5 | 5.55 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 5 | 5.55 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 2 | 5.55 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 2 | 5.55 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 2 | 5.55 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 16 | 5.55 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 16 | 5.55 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 16 | 5.55 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 2 | 5.55 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 2 | 5.55 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 2 | 5.55 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 17 | 5.55 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 17 | 5.55 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 17 | 5.55 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 7 | 5.55 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 7 | 5.55 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 11 | 5.55 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 10 | 5.55 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 10 | 5.55 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 6 | 5.55 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 5 | 5.55 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 13 | 5.55 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 13 | 5.55 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 14 | 5.55 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 3 | 5.55 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 13 | 5.55 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 13 | 5.55 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 5.55 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 5.55 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 7 | 5.55 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 6 | 5.55 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 6 | 5.55 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 16 | 5.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 16 | 5.55 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 16 | 5.55 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 16 | 5.55 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 16 | 5.55 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 16 | 5.55 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 16 | 5.55 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 16 | 5.55 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 20 | 5.55 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 2 | 5.55 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 2 | 5.55 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 5.55 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 5.55 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 1 | 5.55 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 5.55 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 1 | 5.55 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 9 | 5.55 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 16 | 5.55 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 12 | 5.55 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 12 | 5.55 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 12 | 5.55 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 14 | 5.55 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 6 | 5.55 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 5 | 5.55 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 7 | 5.55 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 1 | 5.55 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 1 | 5.55 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 1 | 5.55 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 16 | 5.55 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 16 | 5.55 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 11 | 5.55 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 11 | 5.55 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 11 | 5.55 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 7 | 5.55 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 9 | 5.55 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 13 | 5.55 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 10 | 5.55 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 5.55 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 5.55 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 5.55 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 2 | 5.55 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 2 | 5.55 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 2 | 5.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 2 | 5.55 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 2 | 5.55 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 2 | 5.55 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 2 | 5.55 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 2 | 5.55 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 2 | 5.55 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 2 | 5.55 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 2 | 5.55 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 2 | 5.55 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 5 | 5.55 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 5.55 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 4 | 5.55 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 4 | 5.55 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 1 | 5.55 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 1 | 5.55 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 1 | 5.55 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 5.55 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 5.55 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 5.55 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 19 | 5.55 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 19 | 5.55 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 19 | 5.55 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 3 | 5.55 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 3 | 5.55 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 3 | 5.55 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 7 | 5.55 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 7 | 5.55 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 7 | 5.55 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 2 | 5.55 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 2 | 5.55 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 2 | 5.55 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 5 | 5.55 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 17 | 5.55 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 19 | 5.55 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 19 | 5.55 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 19 | 5.55 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 2 | 5.55 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 2 | 5.55 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 2 | 5.55 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 4 | 5.54 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 10 | 5.54 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 10 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 14 | 5.54 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 14 | 5.54 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 10 | 5.54 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 10 | 5.54 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 13 | 5.54 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 13 | 5.54 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 15 | 5.54 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 15 | 5.54 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 10 | 5.54 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 10 | 5.54 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 3 | 5.54 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 3 | 5.54 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 14 | 5.54 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 14 | 5.54 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 17 | 5.54 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 17 | 5.54 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 9 | 5.54 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 9 | 5.54 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 9 | 5.54 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 9 | 5.54 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 9 | 5.54 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 9 | 5.54 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 11 | 5.54 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 11 | 5.54 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 11 | 5.54 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 11 | 5.54 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 14 | 5.54 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 14 | 5.54 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 15 | 5.54 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 15 | 5.54 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 7 | 5.54 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 7 | 5.54 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 7 | 5.54 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 7 | 5.54 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 7 | 5.54 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 7 | 5.54 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 20 | 5.54 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 5.54 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 18 | 5.54 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 18 | 5.54 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 18 | 5.54 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 18 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 18 | 5.54 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 18 | 5.54 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 5 | 5.54 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 5 | 5.54 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 5 | 5.54 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 5 | 5.54 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 4 | 5.54 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 4 | 5.54 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 6 | 5.54 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 6 | 5.54 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 13 | 5.54 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 13 | 5.54 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 9 | 5.54 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 9 | 5.54 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 4 | 5.54 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 4 | 5.54 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 4 | 5.54 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 4 | 5.54 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 8 | 5.54 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 8 | 5.54 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 5.54 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 5.54 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 8 | 5.54 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 8 | 5.54 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 8 | 5.54 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 8 | 5.54 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 8 | 5.54 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 8 | 5.54 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 2 | 5.54 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 2 | 5.54 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 2 | 5.54 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 9 | 5.54 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 9 | 5.54 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 9 | 5.54 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 18 | 5.54 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 13 | 5.54 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 18 | 5.54 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 10 | 5.54 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 10 | 5.54 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 10 | 5.54 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 11 | 5.54 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 11 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 11 | 5.54 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG21 | 15 | 5.54 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG22 | 15 | 5.54 |
| (1,8350) | 1:134:A:PHE:H | 1:150:A:VAL:HG23 | 15 | 5.54 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 5 | 5.54 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 15 | 5.54 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 17 | 5.54 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 14 | 5.54 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 16 | 5.54 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 16 | 5.54 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 16 | 5.54 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 4 | 5.54 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 11 | 5.54 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 11 | 5.54 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 11 | 5.54 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 18 | 5.54 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 16 | 5.54 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 16 | 5.54 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 2 | 5.54 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 20 | 5.54 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 12 | 5.54 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 12 | 5.54 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 12 | 5.54 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 9 | 5.54 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 9 | 5.54 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 12 | 5.54 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 12 | 5.54 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 14 | 5.54 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 14 | 5.54 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 20 | 5.54 |
| (1,7926) | 1:71:A:SER:H | 1:77:A:LYS:HA | 7 | 5.54 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 10 | 5.54 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 10 | 5.54 |
| (1,7879) | 1:64:A:HIS:H | 1:71:A:SER:H | 7 | 5.54 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 7 | 5.54 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 7 | 5.54 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 7 | 5.54 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 18 | 5.54 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 18 | 5.54 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 18 | 5.54 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 8 | 5.54 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 10 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 10 | 5.54 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 10 | 5.54 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 5 | 5.54 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 5 | 5.54 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 5 | 5.54 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 1 | 5.54 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 5 | 5.54 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 19 | 5.54 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 9 | 5.54 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 9 | 5.54 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 9 | 5.54 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 11 | 5.54 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 19 | 5.54 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 19 | 5.54 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 19 | 5.54 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 19 | 5.54 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 19 | 5.54 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 19 | 5.54 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 19 | 5.54 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 19 | 5.54 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 19 | 5.54 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 14 | 5.54 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 20 | 5.54 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 20 | 5.54 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 12 | 5.54 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 15 | 5.54 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 15 | 5.54 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 6 | 5.54 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 9 | 5.54 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 9 | 5.54 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 9 | 5.54 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 6 | 5.54 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 6 | 5.54 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 6 | 5.54 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 15 | 5.54 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 15 | 5.54 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 15 | 5.54 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 15 | 5.54 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 15 | 5.54 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 15 | 5.54 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 13 | 5.54 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 13 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 1 | 5.54 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 14 | 5.54 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 5 | 5.54 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 5 | 5.54 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 5 | 5.54 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 20 | 5.54 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 20 | 5.54 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 20 | 5.54 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 11 | 5.54 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 9 | 5.54 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 16 | 5.54 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 16 | 5.54 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 5 | 5.54 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 5 | 5.54 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 5 | 5.54 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 15 | 5.54 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 15 | 5.54 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 13 | 5.54 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 13 | 5.54 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 9 | 5.54 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 9 | 5.54 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 9 | 5.54 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 17 | 5.54 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 2 | 5.54 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 2 | 5.54 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 2 | 5.54 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 4 | 5.54 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 4 | 5.54 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 4 | 5.54 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 8 | 5.54 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 8 | 5.54 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 8 | 5.54 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 10 | 5.54 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 2 | 5.54 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 2 | 5.54 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 2 | 5.54 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 7 | 5.54 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 7 | 5.54 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 17 | 5.54 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 17 | 5.54 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 4 | 5.54 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 1 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 1 | 5.54 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 13 | 5.54 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 13 | 5.54 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 13 | 5.54 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 9 | 5.54 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 9 | 5.54 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 9 | 5.54 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 9 | 5.54 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 9 | 5.54 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 9 | 5.54 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 13 | 5.54 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 13 | 5.54 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 13 | 5.54 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 20 | 5.54 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 4 | 5.54 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 4 | 5.54 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 4 | 5.54 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 4 | 5.54 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 4 | 5.54 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 4 | 5.54 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 4 | 5.54 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 4 | 5.54 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 4 | 5.54 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 14 | 5.54 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 14 | 5.54 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 15 | 5.54 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 15 | 5.54 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 9 | 5.54 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 14 | 5.54 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 14 | 5.54 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 14 | 5.54 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 16 | 5.54 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 16 | 5.54 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 16 | 5.54 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 10 | 5.54 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 10 | 5.54 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 5 | 5.54 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 12 | 5.54 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 2 | 5.54 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 14 | 5.54 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 14 | 5.54 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 17 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 17 | 5.54 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 9 | 5.54 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 9 | 5.54 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 9 | 5.54 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 9 | 5.54 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 9 | 5.54 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 9 | 5.54 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 16 | 5.54 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 7 | 5.54 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 7 | 5.54 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 7 | 5.54 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 7 | 5.54 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 7 | 5.54 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 7 | 5.54 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 20 | 5.54 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 5.54 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 18 | 5.54 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 18 | 5.54 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 18 | 5.54 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 18 | 5.54 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 18 | 5.54 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 18 | 5.54 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 11 | 5.54 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 9 | 5.54 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 18 | 5.54 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 6 | 5.54 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 7 | 5.54 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 18 | 5.54 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 18 | 5.54 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 18 | 5.54 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 18 | 5.54 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 13 | 5.54 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 5.54 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 5.54 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 8 | 5.54 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 8 | 5.54 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 8 | 5.54 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 8 | 5.54 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 8 | 5.54 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 8 | 5.54 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 14 | 5.54 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 5 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 5 | 5.54 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 5 | 5.54 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 20 | 5.54 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 20 | 5.54 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 20 | 5.54 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 11 | 5.54 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 9 | 5.54 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 16 | 5.54 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 16 | 5.54 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 5 | 5.54 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 5 | 5.54 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 5 | 5.54 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 15 | 5.54 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 15 | 5.54 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 13 | 5.54 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 13 | 5.54 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 9 | 5.54 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 9 | 5.54 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 9 | 5.54 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 20 | 5.54 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 3 | 5.54 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 17 | 5.54 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 14 | 5.54 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 14 | 5.54 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 14 | 5.54 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 10 | 5.54 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 2 | 5.54 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 2 | 5.54 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 2 | 5.54 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 4 | 5.54 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 4 | 5.54 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 4 | 5.54 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 13 | 5.54 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 13 | 5.54 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 13 | 5.54 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 10 | 5.54 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 8 | 5.54 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 8 | 5.54 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 8 | 5.54 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 10 | 5.54 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 2 | 5.54 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 2 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 2 | 5.54 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 7 | 5.54 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 7 | 5.54 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 2 | 5.54 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 2 | 5.54 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 17 | 5.54 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 17 | 5.54 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 4 | 5.54 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 1 | 5.54 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 1 | 5.54 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 15 | 5.54 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 13 | 5.54 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 13 | 5.54 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 13 | 5.54 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 2 | 5.54 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 9 | 5.54 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 9 | 5.54 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 9 | 5.54 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 9 | 5.54 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 9 | 5.54 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 9 | 5.54 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 4 | 5.53 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 19 | 5.53 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 20 | 5.53 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 2 | 5.53 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 2 | 5.53 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 20 | 5.53 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 20 | 5.53 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 5.53 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 5.53 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 5 | 5.53 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 5 | 5.53 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 15 | 5.53 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 15 | 5.53 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 15 | 5.53 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 15 | 5.53 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 15 | 5.53 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 15 | 5.53 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 6 | 5.53 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 6 | 5.53 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 6 | 5.53 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 6 | 5.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 6 | 5.53 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 6 | 5.53 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 9 | 5.53 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 9 | 5.53 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 9 | 5.53 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 9 | 5.53 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 14 | 5.53 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 14 | 5.53 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 14 | 5.53 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 14 | 5.53 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 7 | 5.53 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 7 | 5.53 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 15 | 5.53 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 15 | 5.53 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 1 | 5.53 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 1 | 5.53 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 5 | 5.53 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 5 | 5.53 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 19 | 5.53 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 19 | 5.53 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 8 | 5.53 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 8 | 5.53 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 15 | 5.53 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 15 | 5.53 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 16 | 5.53 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 16 | 5.53 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 15 | 5.53 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 15 | 5.53 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 15 | 5.53 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 15 | 5.53 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 15 | 5.53 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 15 | 5.53 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 15 | 5.53 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 15 | 5.53 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 15 | 5.53 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 15 | 5.53 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 4 | 5.53 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 4 | 5.53 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 12 | 5.53 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 12 | 5.53 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 12 | 5.53 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 12 | 5.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 12 | 5.53 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 12 | 5.53 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 18 | 5.53 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 18 | 5.53 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 18 | 5.53 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 18 | 5.53 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 18 | 5.53 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 18 | 5.53 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 5 | 5.53 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 5 | 5.53 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 14 | 5.53 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 14 | 5.53 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 13 | 5.53 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 13 | 5.53 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 9 | 5.53 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 9 | 5.53 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 12 | 5.53 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 12 | 5.53 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 12 | 5.53 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 12 | 5.53 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 12 | 5.53 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 12 | 5.53 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 18 | 5.53 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 4 | 5.53 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 4 | 5.53 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 4 | 5.53 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 1 | 5.53 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 1 | 5.53 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 1 | 5.53 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 18 | 5.53 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 18 | 5.53 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 18 | 5.53 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 18 | 5.53 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 18 | 5.53 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 18 | 5.53 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 11 | 5.53 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 13 | 5.53 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 19 | 5.53 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 19 | 5.53 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 12 | 5.53 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 12 | 5.53 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 18 | 5.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 7 | 5.53 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 7 | 5.53 |
| (1,8204) | 1:106:A:LEU:HD11 | 1:108:A:SER:H | 2 | 5.53 |
| (1,8204) | 1:106:A:LEU:HD12 | 1:108:A:SER:H | 2 | 5.53 |
| (1,8204) | 1:106:A:LEU:HD13 | 1:108:A:SER:H | 2 | 5.53 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 14 | 5.53 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 15 | 5.53 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 15 | 5.53 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 15 | 5.53 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 2 | 5.53 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 8 | 5.53 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 13 | 5.53 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 15 | 5.53 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 15 | 5.53 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 15 | 5.53 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 13 | 5.53 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 13 | 5.53 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 13 | 5.53 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 13 | 5.53 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 13 | 5.53 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 13 | 5.53 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 15 | 5.53 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 18 | 5.53 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 18 | 5.53 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 18 | 5.53 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 18 | 5.53 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 18 | 5.53 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 18 | 5.53 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 18 | 5.53 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 18 | 5.53 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 18 | 5.53 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 3 | 5.53 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 3 | 5.53 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 4 | 5.53 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 4 | 5.53 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 4 | 5.53 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 17 | 5.53 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 7 | 5.53 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 7 | 5.53 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 7 | 5.53 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 1 | 5.53 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 10 | 5.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 10 | 5.53 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 7 | 5.53 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 15 | 5.53 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 15 | 5.53 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 15 | 5.53 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 10 | 5.53 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 10 | 5.53 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 3 | 5.53 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 3 | 5.53 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 18 | 5.53 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 19 | 5.53 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 19 | 5.53 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 18 | 5.53 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 1 | 5.53 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 12 | 5.53 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 12 | 5.53 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 12 | 5.53 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 6 | 5.53 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 6 | 5.53 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 6 | 5.53 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 6 | 5.53 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 6 | 5.53 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 6 | 5.53 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 15 | 5.53 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 15 | 5.53 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 15 | 5.53 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 2 | 5.53 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 2 | 5.53 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 2 | 5.53 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 4 | 5.53 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 4 | 5.53 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 2 | 5.53 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 2 | 5.53 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 2 | 5.53 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 20 | 5.53 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 20 | 5.53 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 20 | 5.53 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 20 | 5.53 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 5 | 5.53 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 3 | 5.53 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 7 | 5.53 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 7 | 5.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 7 | 5.53 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 7 | 5.53 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 7 | 5.53 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 7 | 5.53 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 9 | 5.53 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 9 | 5.53 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 9 | 5.53 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 14 | 5.53 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 9 | 5.53 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 9 | 5.53 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 19 | 5.53 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 14 | 5.53 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 14 | 5.53 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 9 | 5.53 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 9 | 5.53 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 9 | 5.53 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 9 | 5.53 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 9 | 5.53 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 9 | 5.53 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 15 | 5.53 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 8 | 5.53 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 7 | 5.53 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 7 | 5.53 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 7 | 5.53 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 18 | 5.53 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 18 | 5.53 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 18 | 5.53 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 18 | 5.53 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 18 | 5.53 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 18 | 5.53 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 7 | 5.53 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 7 | 5.53 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 7 | 5.53 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 7 | 5.53 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 11 | 5.53 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 11 | 5.53 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 19 | 5.53 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 19 | 5.53 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 19 | 5.53 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 9 | 5.53 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 9 | 5.53 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 9 | 5.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 16 | 5.53 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 16 | 5.53 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 16 | 5.53 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 3 | 5.53 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 3 | 5.53 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 3 | 5.53 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 5 | 5.53 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 16 | 5.53 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 5.53 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 5.53 |
| (1,4530) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 1 | 5.53 |
| (1,4530) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 1 | 5.53 |
| (1,4530) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 1 | 5.53 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 9 | 5.53 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 9 | 5.53 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 9 | 5.53 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 9 | 5.53 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 5 | 5.53 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 5 | 5.53 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 3 | 5.53 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 19 | 5.53 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 3 | 5.53 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 4 | 5.53 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 4 | 5.53 |
| (1,4202) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 14 | 5.53 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 15 | 5.53 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 14 | 5.53 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 14 | 5.53 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 14 | 5.53 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 14 | 5.53 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 15 | 5.53 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 13 | 5.53 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 4 | 5.53 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 4 | 5.53 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 15 | 5.53 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 16 | 5.53 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 16 | 5.53 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 4 | 5.53 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 4 | 5.53 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 12 | 5.53 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 12 | 5.53 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 12 | 5.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 12 | 5.53 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 12 | 5.53 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 12 | 5.53 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 18 | 5.53 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 18 | 5.53 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 18 | 5.53 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 18 | 5.53 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 18 | 5.53 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 18 | 5.53 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 14 | 5.53 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 14 | 5.53 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 13 | 5.53 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 5.53 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 4 | 5.53 |
| (1,3472) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 19 | 5.53 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 1 | 5.53 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 12 | 5.53 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 12 | 5.53 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 12 | 5.53 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 6 | 5.53 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 6 | 5.53 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 6 | 5.53 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 6 | 5.53 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 6 | 5.53 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 6 | 5.53 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 15 | 5.53 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 15 | 5.53 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 15 | 5.53 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 2 | 5.53 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 2 | 5.53 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 2 | 5.53 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 4 | 5.53 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 4 | 5.53 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 2 | 5.53 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 2 | 5.53 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 2 | 5.53 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 20 | 5.53 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 20 | 5.53 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 20 | 5.53 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 2 | 5.53 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 2 | 5.53 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 2 | 5.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 20 | 5.53 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 5 | 5.53 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 3 | 5.53 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 7 | 5.53 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 7 | 5.53 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 7 | 5.53 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 7 | 5.53 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 7 | 5.53 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 7 | 5.53 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 18 | 5.53 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 14 | 5.53 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 5.53 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 5.53 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 5.53 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 5.53 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 20 | 5.53 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 9 | 5.53 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 9 | 5.53 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 9 | 5.53 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 14 | 5.53 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 9 | 5.53 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 9 | 5.53 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 19 | 5.53 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 14 | 5.53 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 14 | 5.53 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 9 | 5.53 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 9 | 5.53 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 9 | 5.53 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 9 | 5.53 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 9 | 5.53 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 9 | 5.53 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 3 | 5.53 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 3 | 5.53 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 3 | 5.53 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 19 | 5.53 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 19 | 5.53 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 19 | 5.53 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 15 | 5.53 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 8 | 5.53 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 7 | 5.53 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 7 | 5.53 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 7 | 5.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 18 | 5.53 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 18 | 5.53 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 18 | 5.53 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 18 | 5.53 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 18 | 5.53 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 18 | 5.53 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 7 | 5.53 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 16 | 5.52 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 5 | 5.52 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 4 | 5.52 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 4 | 5.52 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 20 | 5.52 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 20 | 5.52 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 19 | 5.52 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 19 | 5.52 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 6 | 5.52 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 6 | 5.52 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 20 | 5.52 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 20 | 5.52 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 20 | 5.52 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 20 | 5.52 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 11 | 5.52 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 11 | 5.52 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 16 | 5.52 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 16 | 5.52 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 16 | 5.52 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 16 | 5.52 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 5.52 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 5.52 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 18 | 5.52 |
| (1,9160) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 18 | 5.52 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 18 | 5.52 |
| (1,9160) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 18 | 5.52 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 18 | 5.52 |
| (1,9160) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 18 | 5.52 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 14 | 5.52 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 14 | 5.52 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 3 | 5.52 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 3 | 5.52 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 16 | 5.52 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 16 | 5.52 |
| (1,9072) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 18 | 5.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9072) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 18 | 5.52 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 17 | 5.52 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 17 | 5.52 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 17 | 5.52 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 17 | 5.52 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 5 | 5.52 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 5 | 5.52 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 14 | 5.52 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 14 | 5.52 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 5 | 5.52 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 5 | 5.52 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 14 | 5.52 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 14 | 5.52 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 19 | 5.52 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 19 | 5.52 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 9 | 5.52 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 9 | 5.52 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 9 | 5.52 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 9 | 5.52 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 6 | 5.52 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 6 | 5.52 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 6 | 5.52 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 6 | 5.52 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 6 | 5.52 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 6 | 5.52 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 9 | 5.52 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 9 | 5.52 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 7 | 5.52 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 7 | 5.52 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 7 | 5.52 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 7 | 5.52 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 6 | 5.52 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 6 | 5.52 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 1 | 5.52 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 1 | 5.52 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 1 | 5.52 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 1 | 5.52 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 1 | 5.52 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 1 | 5.52 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 9 | 5.52 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 9 | 5.52 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 9 | 5.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 14 | 5.52 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 15 | 5.52 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 1 | 5.52 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 15 | 5.52 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 4 | 5.52 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 4 | 5.52 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 4 | 5.52 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 14 | 5.52 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 18 | 5.52 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 12 | 5.52 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 12 | 5.52 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 12 | 5.52 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 6 | 5.52 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 6 | 5.52 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 6 | 5.52 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 6 | 5.52 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 6 | 5.52 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 19 | 5.52 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 19 | 5.52 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 19 | 5.52 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 19 | 5.52 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 19 | 5.52 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 19 | 5.52 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 19 | 5.52 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 19 | 5.52 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 19 | 5.52 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 13 | 5.52 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 1 | 5.52 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 1 | 5.52 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 1 | 5.52 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 11 | 5.52 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 11 | 5.52 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 11 | 5.52 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 11 | 5.52 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 8 | 5.52 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 4 | 5.52 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 4 | 5.52 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 4 | 5.52 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 3 | 5.52 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 16 | 5.52 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 20 | 5.52 |
| (1,7420) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HB2 | 4 | 5.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7420) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HB2 | 4 | 5.52 |
| (1,7420) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HB2 | 4 | 5.52 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 5 | 5.52 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 2 | 5.52 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 2 | 5.52 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 17 | 5.52 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 17 | 5.52 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 20 | 5.52 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 20 | 5.52 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 20 | 5.52 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 7 | 5.52 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 20 | 5.52 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 20 | 5.52 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 20 | 5.52 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 3 | 5.52 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 3 | 5.52 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 3 | 5.52 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 4 | 5.52 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 6 | 5.52 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 6 | 5.52 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 6 | 5.52 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 8 | 5.52 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 8 | 5.52 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 8 | 5.52 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 19 | 5.52 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 19 | 5.52 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 19 | 5.52 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 13 | 5.52 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 13 | 5.52 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 13 | 5.52 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 10 | 5.52 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 10 | 5.52 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 10 | 5.52 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 17 | 5.52 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 17 | 5.52 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 17 | 5.52 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 17 | 5.52 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 17 | 5.52 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 17 | 5.52 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 9 | 5.52 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 4 | 5.52 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 11 | 5.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 11 | 5.52 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 11 | 5.52 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 11 | 5.52 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 11 | 5.52 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 11 | 5.52 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 13 | 5.52 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 13 | 5.52 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 13 | 5.52 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 13 | 5.52 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 13 | 5.52 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 13 | 5.52 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 13 | 5.52 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 13 | 5.52 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 13 | 5.52 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 19 | 5.52 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 19 | 5.52 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 19 | 5.52 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 18 | 5.52 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 18 | 5.52 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 18 | 5.52 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 18 | 5.52 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 18 | 5.52 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 18 | 5.52 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 15 | 5.52 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 11 | 5.52 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 11 | 5.52 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 11 | 5.52 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 11 | 5.52 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 11 | 5.52 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 11 | 5.52 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 16 | 5.52 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 16 | 5.52 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 16 | 5.52 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 10 | 5.52 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 10 | 5.52 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 10 | 5.52 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 20 | 5.52 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 20 | 5.52 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 20 | 5.52 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 2 | 5.52 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 2 | 5.52 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 2 | 5.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 1 | 5.52 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 1 | 5.52 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 1 | 5.52 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 10 | 5.52 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 10 | 5.52 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 10 | 5.52 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 1 | 5.52 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 4 | 5.52 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 17 | 5.52 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 7 | 5.52 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 7 | 5.52 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 7 | 5.52 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 12 | 5.52 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 6 | 5.52 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 6 | 5.52 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 6 | 5.52 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 17 | 5.52 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 17 | 5.52 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 17 | 5.52 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 8 | 5.52 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 8 | 5.52 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 5.52 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 12 | 5.52 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 12 | 5.52 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 12 | 5.52 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 3 | 5.52 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 10 | 5.52 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 10 | 5.52 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 13 | 5.52 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 5.52 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 5.52 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 18 | 5.52 |
| (1,4128) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 18 | 5.52 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 18 | 5.52 |
| (1,4128) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 18 | 5.52 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 18 | 5.52 |
| (1,4128) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 18 | 5.52 |
| (1,4050) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 18 | 5.52 |
| (1,4050) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 18 | 5.52 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 17 | 5.52 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 17 | 5.52 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 17 | 5.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 17 | 5.52 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 5 | 5.52 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 5 | 5.52 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 5.52 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 5.52 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 5.52 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 5 | 5.52 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 5 | 5.52 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 14 | 5.52 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 14 | 5.52 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 9 | 5.52 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 9 | 5.52 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 9 | 5.52 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 9 | 5.52 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 3 | 5.52 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 3 | 5.52 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 3 | 5.52 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 6 | 5.52 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 6 | 5.52 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 6 | 5.52 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 6 | 5.52 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 6 | 5.52 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 6 | 5.52 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 6 | 5.52 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 8 | 5.52 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 12 | 5.52 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 12 | 5.52 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 12 | 5.52 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 1 | 5.52 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 1 | 5.52 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 1 | 5.52 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 1 | 5.52 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 1 | 5.52 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 1 | 5.52 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 4 | 5.52 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 20 | 5.52 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 20 | 5.52 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 20 | 5.52 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 7 | 5.52 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 20 | 5.52 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 20 | 5.52 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 20 | 5.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 3 | 5.52 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 3 | 5.52 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 3 | 5.52 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 4 | 5.52 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 6 | 5.52 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 6 | 5.52 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 6 | 5.52 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 8 | 5.52 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 8 | 5.52 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 8 | 5.52 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 19 | 5.52 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 19 | 5.52 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 19 | 5.52 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 13 | 5.52 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 13 | 5.52 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 13 | 5.52 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 10 | 5.52 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 10 | 5.52 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 10 | 5.52 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 17 | 5.52 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 17 | 5.52 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 17 | 5.52 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 17 | 5.52 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 17 | 5.52 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 17 | 5.52 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 5.52 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 5.52 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 5.52 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 9 | 5.52 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 4 | 5.52 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 1 | 5.52 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 1 | 5.52 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 1 | 5.52 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 14 | 5.52 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 14 | 5.52 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 11 | 5.52 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 11 | 5.52 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 11 | 5.52 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 11 | 5.52 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 11 | 5.52 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 11 | 5.52 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 13 | 5.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 13 | 5.52 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 13 | 5.52 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 13 | 5.52 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 13 | 5.52 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 13 | 5.52 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 13 | 5.52 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 13 | 5.52 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 13 | 5.52 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 19 | 5.52 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 19 | 5.52 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 19 | 5.52 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 12 | 5.52 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 18 | 5.52 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 18 | 5.52 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 18 | 5.52 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 18 | 5.52 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 18 | 5.52 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 18 | 5.52 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 15 | 5.52 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 11 | 5.52 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 11 | 5.52 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 11 | 5.52 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 11 | 5.52 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 11 | 5.52 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 11 | 5.52 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 16 | 5.52 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 16 | 5.52 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 16 | 5.52 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 18 | 5.52 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 10 | 5.52 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 10 | 5.52 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 10 | 5.52 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 10 | 5.52 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 10 | 5.52 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 10 | 5.52 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 20 | 5.52 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 7 | 5.51 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 14 | 5.51 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 15 | 5.51 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 18 | 5.51 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 4 | 5.51 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 4 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 13 | 5.51 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 13 | 5.51 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 13 | 5.51 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 13 | 5.51 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 13 | 5.51 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 13 | 5.51 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 11 | 5.51 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 11 | 5.51 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 20 | 5.51 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 20 | 5.51 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 18 | 5.51 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 18 | 5.51 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 4 | 5.51 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 4 | 5.51 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 4 | 5.51 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 4 | 5.51 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 4 | 5.51 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 4 | 5.51 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 13 | 5.51 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 13 | 5.51 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 9 | 5.51 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 9 | 5.51 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 9 | 5.51 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 9 | 5.51 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 9 | 5.51 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 9 | 5.51 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 10 | 5.51 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 10 | 5.51 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 2 | 5.51 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 2 | 5.51 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 4 | 5.51 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 4 | 5.51 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 4 | 5.51 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 4 | 5.51 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 15 | 5.51 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 15 | 5.51 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 4 | 5.51 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 4 | 5.51 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 20 | 5.51 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 20 | 5.51 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 20 | 5.51 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 20 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 16 | 5.51 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 16 | 5.51 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 15 | 5.51 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 15 | 5.51 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 15 | 5.51 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 15 | 5.51 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 15 | 5.51 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 15 | 5.51 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 13 | 5.51 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 13 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 2 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 2 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 2 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 2 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 2 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 2 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 19 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 19 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 19 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 19 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 19 | 5.51 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 19 | 5.51 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 4 | 5.51 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 4 | 5.51 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 6 | 5.51 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 6 | 5.51 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 7 | 5.51 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 7 | 5.51 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 12 | 5.51 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 12 | 5.51 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 15 | 5.51 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 15 | 5.51 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 7 | 5.51 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 7 | 5.51 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 12 | 5.51 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 12 | 5.51 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 12 | 5.51 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 12 | 5.51 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 12 | 5.51 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 12 | 5.51 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 11 | 5.51 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 11 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 11 | 5.51 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 15 | 5.51 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 15 | 5.51 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 11 | 5.51 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 8 | 5.51 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 8 | 5.51 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 8 | 5.51 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 7 | 5.51 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 7 | 5.51 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 1 | 5.51 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 1 | 5.51 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 1 | 5.51 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 20 | 5.51 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 7 | 5.51 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 7 | 5.51 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 7 | 5.51 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 7 | 5.51 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 7 | 5.51 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 7 | 5.51 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 7 | 5.51 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 7 | 5.51 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 7 | 5.51 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 13 | 5.51 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 13 | 5.51 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 13 | 5.51 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 11 | 5.51 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 19 | 5.51 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 4 | 5.51 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 4 | 5.51 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 4 | 5.51 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 1 | 5.51 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 12 | 5.51 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 12 | 5.51 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 10 | 5.51 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 10 | 5.51 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 19 | 5.51 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 1 | 5.51 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 1 | 5.51 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 1 | 5.51 |
| (1,7827) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 4 | 5.51 |
| (1,7827) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 4 | 5.51 |
| (1,7827) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 4 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 5 | 5.51 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 5 | 5.51 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 5 | 5.51 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 5 | 5.51 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 5 | 5.51 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 5 | 5.51 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 11 | 5.51 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 20 | 5.51 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 20 | 5.51 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 18 | 5.51 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 8 | 5.51 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 8 | 5.51 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 18 | 5.51 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 3 | 5.51 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 8 | 5.51 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 19 | 5.51 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 7 | 5.51 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 18 | 5.51 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 18 | 5.51 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 18 | 5.51 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 4 | 5.51 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 8 | 5.51 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 20 | 5.51 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 8 | 5.51 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 8 | 5.51 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 8 | 5.51 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 4 | 5.51 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 19 | 5.51 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 19 | 5.51 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 8 | 5.51 |
| (1,6908) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 8 | 5.51 |
| (1,6908) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 8 | 5.51 |
| (1,6908) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 8 | 5.51 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 16 | 5.51 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 16 | 5.51 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 16 | 5.51 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 6 | 5.51 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 6 | 5.51 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 9 | 5.51 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 9 | 5.51 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 14 | 5.51 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 14 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 14 | 5.51 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 20 | 5.51 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 20 | 5.51 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 20 | 5.51 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 7 | 5.51 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 4 | 5.51 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 11 | 5.51 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 14 | 5.51 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 2 | 5.51 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 12 | 5.51 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 10 | 5.51 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 10 | 5.51 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 10 | 5.51 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 10 | 5.51 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 10 | 5.51 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 10 | 5.51 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 11 | 5.51 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 11 | 5.51 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 11 | 5.51 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 16 | 5.51 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 16 | 5.51 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 16 | 5.51 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 3 | 5.51 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 3 | 5.51 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 3 | 5.51 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 13 | 5.51 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 4 | 5.51 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 10 | 5.51 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 6 | 5.51 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 18 | 5.51 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 18 | 5.51 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 2 | 5.51 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 16 | 5.51 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 16 | 5.51 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 16 | 5.51 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 11 | 5.51 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 11 | 5.51 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 11 | 5.51 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 11 | 5.51 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 11 | 5.51 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 11 | 5.51 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 10 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 10 | 5.51 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 10 | 5.51 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 10 | 5.51 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 10 | 5.51 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 10 | 5.51 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 8 | 5.51 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 8 | 5.51 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 8 | 5.51 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 20 | 5.51 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 20 | 5.51 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 20 | 5.51 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 11 | 5.51 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 11 | 5.51 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 11 | 5.51 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 11 | 5.51 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 9 | 5.51 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 9 | 5.51 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 9 | 5.51 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 4 | 5.51 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 11 | 5.51 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 8 | 5.51 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 2 | 5.51 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 2 | 5.51 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 5 | 5.51 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 5 | 5.51 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 5 | 5.51 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 12 | 5.51 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 12 | 5.51 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 12 | 5.51 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 3 | 5.51 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 13 | 5.51 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 13 | 5.51 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 13 | 5.51 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 13 | 5.51 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 4 | 5.51 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 4 | 5.51 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 13 | 5.51 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 13 | 5.51 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 13 | 5.51 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 16 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 8 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 8 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 8 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 8 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 8 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 8 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 17 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 17 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 17 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 17 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 17 | 5.51 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 17 | 5.51 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 7 | 5.51 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 11 | 5.51 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 11 | 5.51 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 5.51 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 5.51 |
| (1,4314) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 5.51 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 13 | 5.51 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 13 | 5.51 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 5 | 5.51 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 5 | 5.51 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 5 | 5.51 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 9 | 5.51 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 9 | 5.51 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 9 | 5.51 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 9 | 5.51 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 9 | 5.51 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 9 | 5.51 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 10 | 5.51 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 10 | 5.51 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 2 | 5.51 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 2 | 5.51 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 11 | 5.51 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 15 | 5.51 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 15 | 5.51 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 15 | 5.51 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 15 | 5.51 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 15 | 5.51 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 15 | 5.51 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 15 | 5.51 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 15 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 2 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 2 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 2 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 2 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 2 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 2 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 19 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 19 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 19 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 19 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 19 | 5.51 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 19 | 5.51 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 4 | 5.51 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 12 | 5.51 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 12 | 5.51 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 9 | 5.51 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 9 | 5.51 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 9 | 5.51 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 9 | 5.51 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 4 | 5.51 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 4 | 5.51 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 4 | 5.51 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 4 | 5.51 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 7 | 5.51 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 7 | 5.51 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 4 | 5.51 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 4 | 5.51 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 4 | 5.51 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 9 | 5.51 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 8 | 5.51 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 20 | 5.51 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 8 | 5.51 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 8 | 5.51 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 8 | 5.51 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 17 | 5.51 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 4 | 5.51 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 19 | 5.51 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 19 | 5.51 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 8 | 5.51 |
| (1,2910) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 8 | 5.51 |
| (1,2910) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 8 | 5.51 |
| (1,2910) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 8 | 5.51 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 16 | 5.51 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 16 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 16 | 5.51 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 6 | 5.51 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 6 | 5.51 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 9 | 5.51 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 9 | 5.51 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 3 | 5.51 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 3 | 5.51 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 14 | 5.51 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 14 | 5.51 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 14 | 5.51 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 20 | 5.51 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 20 | 5.51 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 20 | 5.51 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 9 | 5.51 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 9 | 5.51 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 9 | 5.51 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 7 | 5.51 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 4 | 5.51 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 13 | 5.51 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 5.51 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 13 | 5.51 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 11 | 5.51 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 14 | 5.51 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 2 | 5.51 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 12 | 5.51 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 12 | 5.51 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 12 | 5.51 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 12 | 5.51 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 10 | 5.51 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 10 | 5.51 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 10 | 5.51 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 10 | 5.51 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 10 | 5.51 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 10 | 5.51 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 11 | 5.51 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 11 | 5.51 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 11 | 5.51 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 16 | 5.51 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 16 | 5.51 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 16 | 5.51 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 2 | 5.51 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 2 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 5 | 5.51 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 5 | 5.51 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 3 | 5.51 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 3 | 5.51 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 3 | 5.51 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 13 | 5.51 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 16 | 5.51 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 16 | 5.51 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 4 | 5.51 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 19 | 5.51 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 10 | 5.51 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 6 | 5.51 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 14 | 5.51 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 14 | 5.51 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 5.51 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 18 | 5.51 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 18 | 5.51 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 2 | 5.51 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 14 | 5.51 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 14 | 5.51 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 14 | 5.51 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 19 | 5.51 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 19 | 5.51 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 19 | 5.51 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 1 | 5.51 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 12 | 5.51 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 12 | 5.51 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 12 | 5.51 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 16 | 5.51 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 16 | 5.51 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 16 | 5.51 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 11 | 5.51 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 11 | 5.51 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 11 | 5.51 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 11 | 5.51 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 11 | 5.51 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 11 | 5.51 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 10 | 5.51 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 10 | 5.51 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 10 | 5.51 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 10 | 5.51 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 10 | 5.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 10 | 5.51 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 6 | 5.5 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 12 | 5.5 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 12 | 5.5 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 12 | 5.5 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 12 | 5.5 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 12 | 5.5 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 12 | 5.5 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 14 | 5.5 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 14 | 5.5 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 16 | 5.5 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 16 | 5.5 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 13 | 5.5 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 13 | 5.5 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 14 | 5.5 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 14 | 5.5 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 20 | 5.5 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 20 | 5.5 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 20 | 5.5 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 20 | 5.5 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 20 | 5.5 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 20 | 5.5 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 20 | 5.5 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 20 | 5.5 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 9 | 5.5 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 9 | 5.5 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 19 | 5.5 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 19 | 5.5 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 19 | 5.5 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 19 | 5.5 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 19 | 5.5 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 19 | 5.5 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 18 | 5.5 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 18 | 5.5 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 6 | 5.5 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 6 | 5.5 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 6 | 5.5 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 6 | 5.5 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 10 | 5.5 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 10 | 5.5 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 10 | 5.5 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 10 | 5.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 10 | 5.5 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 10 | 5.5 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 13 | 5.5 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 13 | 5.5 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 12 | 5.5 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 12 | 5.5 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 10 | 5.5 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 10 | 5.5 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 12 | 5.5 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 12 | 5.5 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 11 | 5.5 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 11 | 5.5 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 17 | 5.5 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 17 | 5.5 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 5 | 5.5 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 5 | 5.5 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 5 | 5.5 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 5 | 5.5 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 10 | 5.5 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 10 | 5.5 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 10 | 5.5 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 10 | 5.5 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 9 | 5.5 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 9 | 5.5 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 14 | 5.5 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 14 | 5.5 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 14 | 5.5 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 14 | 5.5 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 18 | 5.5 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 18 | 5.5 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 9 | 5.5 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 9 | 5.5 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 12 | 5.5 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 12 | 5.5 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 11 | 5.5 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 11 | 5.5 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 11 | 5.5 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 3 | 5.5 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 3 | 5.5 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 3 | 5.5 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 16 | 5.5 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 12 | 5.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 17 | 5.5 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 14 | 5.5 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 14 | 5.5 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 14 | 5.5 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 20 | 5.5 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 14 | 5.5 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 14 | 5.5 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 16 | 5.5 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 17 | 5.5 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 18 | 5.5 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 10 | 5.5 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 10 | 5.5 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 10 | 5.5 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 10 | 5.5 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 10 | 5.5 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 10 | 5.5 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 3 | 5.5 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 14 | 5.5 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 14 | 5.5 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 14 | 5.5 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 3 | 5.5 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 5 | 5.5 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 5 | 5.5 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 6 | 5.5 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 6 | 5.5 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 17 | 5.5 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 17 | 5.5 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 8 | 5.5 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 8 | 5.5 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 8 | 5.5 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 4 | 5.5 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 4 | 5.5 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 4 | 5.5 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 18 | 5.5 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 18 | 5.5 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 18 | 5.5 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 11 | 5.5 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 11 | 5.5 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 11 | 5.5 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 17 | 5.5 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 17 | 5.5 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 17 | 5.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 3 | 5.5 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 5 | 5.5 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 18 | 5.5 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 3 | 5.5 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 3 | 5.5 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 3 | 5.5 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 8 | 5.5 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 8 | 5.5 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 8 | 5.5 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 1 | 5.5 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 1 | 5.5 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 1 | 5.5 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 14 | 5.5 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 8 | 5.5 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 8 | 5.5 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 8 | 5.5 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 5 | 5.5 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 10 | 5.5 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 10 | 5.5 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 10 | 5.5 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 1 | 5.5 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 1 | 5.5 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 1 | 5.5 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 1 | 5.5 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 1 | 5.5 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 1 | 5.5 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 1 | 5.5 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 1 | 5.5 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 1 | 5.5 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 11 | 5.5 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 11 | 5.5 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 11 | 5.5 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 7 | 5.5 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 7 | 5.5 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 7 | 5.5 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 7 | 5.5 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 7 | 5.5 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 7 | 5.5 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 7 | 5.5 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 7 | 5.5 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 7 | 5.5 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 7 | 5.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 12 | 5.5 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 12 | 5.5 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 18 | 5.5 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 3 | 5.5 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 3 | 5.5 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 3 | 5.5 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 9 | 5.5 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 9 | 5.5 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 9 | 5.5 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 17 | 5.5 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 8 | 5.5 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 1 | 5.5 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 1 | 5.5 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 7 | 5.5 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 7 | 5.5 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 15 | 5.5 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 17 | 5.5 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 17 | 5.5 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 17 | 5.5 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 12 | 5.5 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 1 | 5.5 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 4 | 5.5 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 4 | 5.5 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 4 | 5.5 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 1 | 5.5 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 6 | 5.5 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 20 | 5.5 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 7 | 5.5 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 10 | 5.5 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 3 | 5.5 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 3 | 5.5 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 3 | 5.5 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 13 | 5.5 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 9 | 5.5 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 9 | 5.5 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 9 | 5.5 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 10 | 5.5 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 10 | 5.5 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 10 | 5.5 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 14 | 5.5 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 14 | 5.5 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 14 | 5.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 14 | 5.5 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 14 | 5.5 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 14 | 5.5 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 11 | 5.5 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 17 | 5.5 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 17 | 5.5 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 17 | 5.5 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 12 | 5.5 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 17 | 5.5 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 17 | 5.5 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 17 | 5.5 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 17 | 5.5 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 17 | 5.5 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 13 | 5.5 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 7 | 5.5 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 7 | 5.5 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 7 | 5.5 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 5 | 5.5 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 5 | 5.5 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 5 | 5.5 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 8 | 5.5 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 12 | 5.5 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 12 | 5.5 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 12 | 5.5 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 12 | 5.5 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 12 | 5.5 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 12 | 5.5 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 13 | 5.5 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 12 | 5.5 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 4 | 5.5 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 4 | 5.5 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 4 | 5.5 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 4 | 5.5 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 4 | 5.5 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 4 | 5.5 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 4 | 5.5 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 4 | 5.5 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 4 | 5.5 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 14 | 5.5 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 14 | 5.5 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 14 | 5.5 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 5 | 5.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 2 | 5.5 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 2 | 5.5 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 2 | 5.5 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 14 | 5.5 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 14 | 5.5 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 15 | 5.5 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 15 | 5.5 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 15 | 5.5 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 4 | 5.5 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 4 | 5.5 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 4 | 5.5 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 4 | 5.5 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 9 | 5.5 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 9 | 5.5 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 10 | 5.5 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 10 | 5.5 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 10 | 5.5 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 10 | 5.5 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 10 | 5.5 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 10 | 5.5 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 1 | 5.5 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 1 | 5.5 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 2 | 5.5 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 2 | 5.5 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 2 | 5.5 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 12 | 5.5 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 12 | 5.5 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 14 | 5.5 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 19 | 5.5 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 12 | 5.5 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 12 | 5.5 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 8 | 5.5 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 10 | 5.5 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 10 | 5.5 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 10 | 5.5 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 12 | 5.5 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 12 | 5.5 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 9 | 5.5 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 9 | 5.5 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 18 | 5.5 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 18 | 5.5 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 12 | 5.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 12 | 5.5 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 4 | 5.5 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 7 | 5.5 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 18 | 5.5 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 4 | 5.5 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 4 | 5.5 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 4 | 5.5 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 1 | 5.5 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 6 | 5.5 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 13 | 5.5 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 13 | 5.5 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 13 | 5.5 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 20 | 5.5 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 7 | 5.5 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 10 | 5.5 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 3 | 5.5 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 3 | 5.5 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 3 | 5.5 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 13 | 5.5 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 9 | 5.5 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 9 | 5.5 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 9 | 5.5 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 10 | 5.5 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 10 | 5.5 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 10 | 5.5 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 14 | 5.5 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 14 | 5.5 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 14 | 5.5 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 14 | 5.5 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 14 | 5.5 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 14 | 5.5 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 11 | 5.5 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 16 | 5.5 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 13 | 5.5 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 17 | 5.5 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 17 | 5.5 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 17 | 5.5 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 12 | 5.5 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 18 | 5.5 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 18 | 5.5 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 15 | 5.5 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 15 | 5.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 15 | 5.5 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 1 | 5.5 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 17 | 5.5 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 17 | 5.5 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 17 | 5.5 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 17 | 5.5 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 17 | 5.5 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 13 | 5.5 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 7 | 5.5 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 7 | 5.5 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 7 | 5.5 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 5 | 5.5 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 5 | 5.5 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 5 | 5.5 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 8 | 5.5 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 12 | 5.5 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 12 | 5.5 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 12 | 5.5 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 12 | 5.5 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 12 | 5.5 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 12 | 5.5 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 1 | 5.5 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 1 | 5.5 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 1 | 5.5 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 19 | 5.49 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 4 | 5.49 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 18 | 5.49 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 3 | 5.49 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 1 | 5.49 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 1 | 5.49 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 13 | 5.49 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 13 | 5.49 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 13 | 5.49 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 13 | 5.49 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 13 | 5.49 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 13 | 5.49 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 8 | 5.49 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 8 | 5.49 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 13 | 5.49 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 13 | 5.49 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 2 | 5.49 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 2 | 5.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 14 | 5.49 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 14 | 5.49 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 9 | 5.49 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 9 | 5.49 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 10 | 5.49 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 10 | 5.49 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 20 | 5.49 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 20 | 5.49 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 20 | 5.49 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 20 | 5.49 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 2 | 5.49 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 2 | 5.49 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 2 | 5.49 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 2 | 5.49 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 2 | 5.49 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 2 | 5.49 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 2 | 5.49 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 2 | 5.49 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 3 | 5.49 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 3 | 5.49 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 11 | 5.49 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 11 | 5.49 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 11 | 5.49 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 11 | 5.49 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 11 | 5.49 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 11 | 5.49 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 19 | 5.49 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 19 | 5.49 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 19 | 5.49 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 19 | 5.49 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 6 | 5.49 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 6 | 5.49 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 1 | 5.49 |
| (1,8958) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 1 | 5.49 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 19 | 5.49 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 19 | 5.49 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 1 | 5.49 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 1 | 5.49 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 1 | 5.49 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 1 | 5.49 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 3 | 5.49 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 3 | 5.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 3 | 5.49 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 3 | 5.49 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 20 | 5.49 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 20 | 5.49 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 20 | 5.49 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 20 | 5.49 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 16 | 5.49 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 16 | 5.49 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 5.49 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 5.49 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 15 | 5.49 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 15 | 5.49 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 15 | 5.49 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 15 | 5.49 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 15 | 5.49 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 15 | 5.49 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 4 | 5.49 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 4 | 5.49 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 16 | 5.49 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 20 | 5.49 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 6 | 5.49 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 6 | 5.49 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 10 | 5.49 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 4 | 5.49 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 8 | 5.49 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 7 | 5.49 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 7 | 5.49 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 12 | 5.49 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 12 | 5.49 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 15 | 5.49 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 9 | 5.49 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 20 | 5.49 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 20 | 5.49 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 14 | 5.49 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 1 | 5.49 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 4 | 5.49 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 4 | 5.49 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 4 | 5.49 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 4 | 5.49 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 13 | 5.49 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 12 | 5.49 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 18 | 5.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 18 | 5.49 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 1 | 5.49 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 15 | 5.49 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 15 | 5.49 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 2 | 5.49 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 6 | 5.49 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 12 | 5.49 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 4 | 5.49 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 4 | 5.49 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 4 | 5.49 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 20 | 5.49 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 15 | 5.49 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 15 | 5.49 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 15 | 5.49 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 14 | 5.49 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 16 | 5.49 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 16 | 5.49 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 16 | 5.49 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 11 | 5.49 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 11 | 5.49 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 11 | 5.49 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 12 | 5.49 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 12 | 5.49 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 12 | 5.49 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 12 | 5.49 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 12 | 5.49 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 12 | 5.49 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 10 | 5.49 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 10 | 5.49 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 10 | 5.49 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 10 | 5.49 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 8 | 5.49 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 5 | 5.49 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 11 | 5.49 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 10 | 5.49 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 14 | 5.49 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 14 | 5.49 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 14 | 5.49 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 13 | 5.49 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 13 | 5.49 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 5 | 5.49 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 7 | 5.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 7 | 5.49 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 9 | 5.49 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 9 | 5.49 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 8 | 5.49 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 20 | 5.49 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 20 | 5.49 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 20 | 5.49 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 8 | 5.49 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 8 | 5.49 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 8 | 5.49 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 15 | 5.49 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 18 | 5.49 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 8 | 5.49 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 20 | 5.49 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 4 | 5.49 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 4 | 5.49 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 5 | 5.49 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 5 | 5.49 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 10 | 5.49 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 16 | 5.49 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 16 | 5.49 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 16 | 5.49 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 15 | 5.49 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 14 | 5.49 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 14 | 5.49 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 14 | 5.49 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 19 | 5.49 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 19 | 5.49 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 14 | 5.49 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 5 | 5.49 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 5 | 5.49 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 5 | 5.49 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 10 | 5.49 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 13 | 5.49 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 13 | 5.49 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 13 | 5.49 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 18 | 5.49 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 18 | 5.49 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 18 | 5.49 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 11 | 5.49 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 11 | 5.49 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 11 | 5.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 15 | 5.49 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 15 | 5.49 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 15 | 5.49 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 6 | 5.49 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 6 | 5.49 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 6 | 5.49 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 18 | 5.49 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 12 | 5.49 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 10 | 5.49 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 10 | 5.49 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 10 | 5.49 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 10 | 5.49 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 10 | 5.49 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 10 | 5.49 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 1 | 5.49 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 7 | 5.49 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 18 | 5.49 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 18 | 5.49 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 18 | 5.49 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 5 | 5.49 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 5 | 5.49 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 5 | 5.49 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 11 | 5.49 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 7 | 5.49 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 2 | 5.49 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 18 | 5.49 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 10 | 5.49 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 10 | 5.49 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 10 | 5.49 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 11 | 5.49 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 11 | 5.49 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 11 | 5.49 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 2 | 5.49 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 2 | 5.49 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 2 | 5.49 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 1 | 5.49 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 1 | 5.49 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 4 | 5.49 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 6 | 5.49 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 13 | 5.49 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 13 | 5.49 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 13 | 5.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 13 | 5.49 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 13 | 5.49 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 13 | 5.49 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 11 | 5.49 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 11 | 5.49 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 13 | 5.49 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 13 | 5.49 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 5.49 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 5.49 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 5.49 |
| (1,4302) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 11 | 5.49 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 10 | 5.49 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 10 | 5.49 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 2 | 5.49 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 20 | 5.49 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 3 | 5.49 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 3 | 5.49 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 10 | 5.49 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 10 | 5.49 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 10 | 5.49 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 1 | 5.49 |
| (1,3928) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 1 | 5.49 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 13 | 5.49 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 13 | 5.49 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 5.49 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 12 | 5.49 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 12 | 5.49 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 12 | 5.49 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 3 | 5.49 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 3 | 5.49 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 3 | 5.49 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 3 | 5.49 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 2 | 5.49 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 10 | 5.49 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 16 | 5.49 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 16 | 5.49 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 5.49 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 5.49 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 8 | 5.49 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 8 | 5.49 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 8 | 5.49 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 8 | 5.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 8 | 5.49 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 8 | 5.49 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 8 | 5.49 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 15 | 5.49 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 15 | 5.49 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 15 | 5.49 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 15 | 5.49 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 15 | 5.49 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 15 | 5.49 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 14 | 5.49 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 11 | 5.49 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 11 | 5.49 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 11 | 5.49 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 11 | 5.49 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 11 | 5.49 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 11 | 5.49 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 4 | 5.49 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 4 | 5.49 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 4 | 5.49 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 4 | 5.49 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 4 | 5.49 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 4 | 5.49 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 10 | 5.49 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 16 | 5.49 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 16 | 5.49 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 16 | 5.49 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 16 | 5.49 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 6 | 5.49 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 15 | 5.49 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 14 | 5.49 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 14 | 5.49 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 14 | 5.49 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 19 | 5.49 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 19 | 5.49 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 4 | 5.49 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 14 | 5.49 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 10 | 5.49 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 10 | 5.49 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 5 | 5.49 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 5 | 5.49 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 5 | 5.49 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 16 | 5.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 10 | 5.49 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 5.49 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 5.49 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 5.49 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 13 | 5.49 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 13 | 5.49 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 13 | 5.49 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 18 | 5.49 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 18 | 5.49 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 18 | 5.49 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 11 | 5.49 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 11 | 5.49 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 11 | 5.49 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 15 | 5.49 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 15 | 5.49 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 15 | 5.49 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 6 | 5.49 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 6 | 5.49 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 6 | 5.49 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 18 | 5.49 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 8 | 5.49 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 12 | 5.49 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 10 | 5.49 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 10 | 5.49 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 10 | 5.49 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 10 | 5.49 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 10 | 5.49 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 10 | 5.49 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 1 | 5.49 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 7 | 5.49 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 18 | 5.49 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 18 | 5.49 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 18 | 5.49 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 8 | 5.48 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 1 | 5.48 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 20 | 5.48 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 6 | 5.48 |
| (1,9590) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 6 | 5.48 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 5 | 5.48 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 5 | 5.48 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 9 | 5.48 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 9 | 5.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 9 | 5.48 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 9 | 5.48 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 9 | 5.48 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 9 | 5.48 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 13 | 5.48 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 13 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 17 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 17 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 17 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 17 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 17 | 5.48 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 17 | 5.48 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 7 | 5.48 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 7 | 5.48 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 7 | 5.48 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 7 | 5.48 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 1 | 5.48 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 1 | 5.48 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 5.48 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 5.48 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 5.48 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 5.48 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 5.48 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 5.48 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 1 | 5.48 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 1 | 5.48 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 15 | 5.48 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 15 | 5.48 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 2 | 5.48 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 2 | 5.48 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 2 | 5.48 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 2 | 5.48 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 19 | 5.48 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 19 | 5.48 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 19 | 5.48 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 19 | 5.48 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 19 | 5.48 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 19 | 5.48 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 8 | 5.48 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 8 | 5.48 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 8 | 5.48 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 8 | 5.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 15 | 5.48 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 15 | 5.48 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 7 | 5.48 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 7 | 5.48 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 8 | 5.48 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 8 | 5.48 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 8 | 5.48 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 8 | 5.48 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 8 | 5.48 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 8 | 5.48 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 17 | 5.48 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 17 | 5.48 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 17 | 5.48 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 17 | 5.48 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 17 | 5.48 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 17 | 5.48 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 20 | 5.48 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 20 | 5.48 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 20 | 5.48 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 20 | 5.48 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 4 | 5.48 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 4 | 5.48 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 4 | 5.48 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 4 | 5.48 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 4 | 5.48 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 4 | 5.48 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 20 | 5.48 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 20 | 5.48 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 7 | 5.48 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 7 | 5.48 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 3 | 5.48 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 3 | 5.48 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 16 | 5.48 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 16 | 5.48 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 16 | 5.48 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 16 | 5.48 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 16 | 5.48 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 16 | 5.48 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 6 | 5.48 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 6 | 5.48 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 7 | 5.48 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 7 | 5.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 7 | 5.48 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 7 | 5.48 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 7 | 5.48 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 7 | 5.48 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 10 | 5.48 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 10 | 5.48 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 14 | 5.48 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 14 | 5.48 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 14 | 5.48 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 14 | 5.48 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 19 | 5.48 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 19 | 5.48 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 12 | 5.48 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 12 | 5.48 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 12 | 5.48 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 12 | 5.48 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 12 | 5.48 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 12 | 5.48 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 7 | 5.48 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 7 | 5.48 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 7 | 5.48 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 6 | 5.48 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 6 | 5.48 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 6 | 5.48 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 14 | 5.48 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 19 | 5.48 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 3 | 5.48 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 3 | 5.48 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 8 | 5.48 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 8 | 5.48 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 17 | 5.48 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 17 | 5.48 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 2 | 5.48 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 6 | 5.48 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 8 | 5.48 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 8 | 5.48 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 8 | 5.48 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 20 | 5.48 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 20 | 5.48 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 20 | 5.48 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 7 | 5.48 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 13 | 5.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 13 | 5.48 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 7 | 5.48 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 4 | 5.48 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 4 | 5.48 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 10 | 5.48 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 10 | 5.48 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 11 | 5.48 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 11 | 5.48 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 5 | 5.48 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 12 | 5.48 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 3 | 5.48 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 3 | 5.48 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 3 | 5.48 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 17 | 5.48 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 17 | 5.48 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 17 | 5.48 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 16 | 5.48 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 8 | 5.48 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 3 | 5.48 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 3 | 5.48 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 1 | 5.48 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 15 | 5.48 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 20 | 5.48 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 7 | 5.48 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 20 | 5.48 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 20 | 5.48 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 20 | 5.48 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 18 | 5.48 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 18 | 5.48 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 18 | 5.48 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 18 | 5.48 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 18 | 5.48 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 18 | 5.48 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 3 | 5.48 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 3 | 5.48 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 3 | 5.48 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 7 | 5.48 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 7 | 5.48 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 5 | 5.48 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 14 | 5.48 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 11 | 5.48 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 11 | 5.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 11 | 5.48 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 11 | 5.48 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 11 | 5.48 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 11 | 5.48 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 11 | 5.48 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 11 | 5.48 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 11 | 5.48 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 20 | 5.48 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 14 | 5.48 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 14 | 5.48 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 14 | 5.48 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 7 | 5.48 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 14 | 5.48 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 18 | 5.48 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 18 | 5.48 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 2 | 5.48 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 2 | 5.48 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 2 | 5.48 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 10 | 5.48 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 4 | 5.48 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 11 | 5.48 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 15 | 5.48 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 15 | 5.48 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 15 | 5.48 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 12 | 5.48 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 12 | 5.48 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 12 | 5.48 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 8 | 5.48 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 9 | 5.48 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 9 | 5.48 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 13 | 5.48 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 13 | 5.48 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 13 | 5.48 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 13 | 5.48 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 13 | 5.48 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 13 | 5.48 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 13 | 5.48 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 4 | 5.48 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 4 | 5.48 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 2 | 5.48 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 2 | 5.48 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 2 | 5.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 11 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 11 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 11 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 11 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 11 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 11 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 11 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 11 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 11 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 19 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 19 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 19 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 19 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 19 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 19 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 19 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 19 | 5.48 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 19 | 5.48 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 4 | 5.48 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 4 | 5.48 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 4 | 5.48 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 13 | 5.48 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 13 | 5.48 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 13 | 5.48 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 2 | 5.48 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 2 | 5.48 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 10 | 5.48 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 15 | 5.48 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 19 | 5.48 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 13 | 5.48 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 13 | 5.48 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 13 | 5.48 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 8 | 5.48 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 8 | 5.48 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 8 | 5.48 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 13 | 5.48 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 13 | 5.48 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 13 | 5.48 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 13 | 5.48 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 13 | 5.48 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 13 | 5.48 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 13 | 5.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 13 | 5.48 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 13 | 5.48 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 2 | 5.48 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 10 | 5.48 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 10 | 5.48 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 10 | 5.48 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 15 | 5.48 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 8 | 5.48 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 13 | 5.48 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 13 | 5.48 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 7 | 5.48 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 2 | 5.48 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 18 | 5.48 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 18 | 5.48 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 18 | 5.48 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 6 | 5.48 |
| (1,4580) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 6 | 5.48 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 5 | 5.48 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 5 | 5.48 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 5 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 17 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 17 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 17 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 17 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 17 | 5.48 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 17 | 5.48 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 7 | 5.48 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 7 | 5.48 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 7 | 5.48 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 7 | 5.48 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 5.48 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 5.48 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 5.48 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 5.48 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 5.48 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 5.48 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 1 | 5.48 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 1 | 5.48 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 15 | 5.48 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 15 | 5.48 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 2 | 5.48 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 7 | 5.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 8 | 5.48 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 15 | 5.48 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 15 | 5.48 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 7 | 5.48 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 4 | 5.48 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 4 | 5.48 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 4 | 5.48 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 4 | 5.48 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 4 | 5.48 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 4 | 5.48 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 16 | 5.48 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 16 | 5.48 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 16 | 5.48 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 16 | 5.48 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 16 | 5.48 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 16 | 5.48 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 12 | 5.48 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 10 | 5.48 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 10 | 5.48 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 2 | 5.48 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 2 | 5.48 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 12 | 5.48 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 8 | 5.48 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 5 | 5.48 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 9 | 5.48 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 9 | 5.48 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 13 | 5.48 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 13 | 5.48 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 13 | 5.48 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 13 | 5.48 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 13 | 5.48 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 13 | 5.48 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 13 | 5.48 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 20 | 5.48 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 20 | 5.48 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 4 | 5.48 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 4 | 5.48 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 2 | 5.48 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 2 | 5.48 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 2 | 5.48 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 5.48 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 5.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 5.48 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 4 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 11 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 11 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 11 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 11 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 11 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 11 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 11 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 11 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 11 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 19 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 19 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 19 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 19 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 19 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 19 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 19 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 19 | 5.48 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 19 | 5.48 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 7 | 5.48 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 12 | 5.48 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 12 | 5.48 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 4 | 5.48 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 4 | 5.48 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 4 | 5.48 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 4 | 5.48 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 4 | 5.48 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 19 | 5.48 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 13 | 5.48 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 13 | 5.48 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 13 | 5.48 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 4 | 5.48 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 12 | 5.48 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 2 | 5.48 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 2 | 5.48 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 10 | 5.48 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 15 | 5.48 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 19 | 5.48 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 3 | 5.47 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 5 | 5.47 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 16 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 16 | 5.47 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 8 | 5.47 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 8 | 5.47 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 8 | 5.47 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 8 | 5.47 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 8 | 5.47 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 8 | 5.47 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 7 | 5.47 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 7 | 5.47 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 7 | 5.47 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 7 | 5.47 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 7 | 5.47 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 7 | 5.47 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 6 | 5.47 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 6 | 5.47 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 16 | 5.47 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 16 | 5.47 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 13 | 5.47 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 13 | 5.47 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 15 | 5.47 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 15 | 5.47 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 15 | 5.47 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 15 | 5.47 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 14 | 5.47 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 14 | 5.47 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 14 | 5.47 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 14 | 5.47 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 14 | 5.47 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 14 | 5.47 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 13 | 5.47 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 13 | 5.47 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 17 | 5.47 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 17 | 5.47 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 17 | 5.47 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 17 | 5.47 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 17 | 5.47 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 17 | 5.47 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 5.47 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 5.47 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 5.47 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 5.47 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 5.47 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 2 | 5.47 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 2 | 5.47 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 13 | 5.47 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 13 | 5.47 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 13 | 5.47 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 13 | 5.47 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 12 | 5.47 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 12 | 5.47 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 12 | 5.47 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 12 | 5.47 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 12 | 5.47 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 12 | 5.47 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 11 | 5.47 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 11 | 5.47 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 7 | 5.47 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 7 | 5.47 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 5 | 5.47 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 5 | 5.47 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 12 | 5.47 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 12 | 5.47 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 12 | 5.47 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 12 | 5.47 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 14 | 5.47 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 14 | 5.47 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 14 | 5.47 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 14 | 5.47 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 14 | 5.47 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 14 | 5.47 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 2 | 5.47 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 2 | 5.47 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 14 | 5.47 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 14 | 5.47 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 14 | 5.47 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 14 | 5.47 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 14 | 5.47 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 14 | 5.47 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 15 | 5.47 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 15 | 5.47 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 15 | 5.47 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 15 | 5.47 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 15 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 15 | 5.47 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 13 | 5.47 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 13 | 5.47 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 13 | 5.47 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 13 | 5.47 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 13 | 5.47 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 13 | 5.47 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 14 | 5.47 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 14 | 5.47 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 6 | 5.47 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 6 | 5.47 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 6 | 5.47 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 6 | 5.47 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 6 | 5.47 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 6 | 5.47 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 19 | 5.47 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 19 | 5.47 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 19 | 5.47 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 19 | 5.47 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 19 | 5.47 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 19 | 5.47 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 19 | 5.47 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 19 | 5.47 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 12 | 5.47 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 12 | 5.47 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 4 | 5.47 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 4 | 5.47 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 5 | 5.47 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 5 | 5.47 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 5 | 5.47 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 5 | 5.47 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 5 | 5.47 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 5 | 5.47 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 3 | 5.47 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 3 | 5.47 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 3 | 5.47 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 2 | 5.47 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 2 | 5.47 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 2 | 5.47 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 6 | 5.47 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 6 | 5.47 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 6 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 10 | 5.47 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 5 | 5.47 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 8 | 5.47 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 8 | 5.47 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 8 | 5.47 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 6 | 5.47 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 6 | 5.47 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 6 | 5.47 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 20 | 5.47 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 7 | 5.47 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 7 | 5.47 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 7 | 5.47 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 15 | 5.47 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 15 | 5.47 |
| (1,8347) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 15 | 5.47 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 7 | 5.47 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 7 | 5.47 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 11 | 5.47 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 11 | 5.47 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 11 | 5.47 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 17 | 5.47 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 17 | 5.47 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 17 | 5.47 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 18 | 5.47 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 18 | 5.47 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 18 | 5.47 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 5 | 5.47 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 7 | 5.47 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 5 | 5.47 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 6 | 5.47 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 15 | 5.47 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 19 | 5.47 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 5.47 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 5.47 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 5.47 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 5 | 5.47 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 15 | 5.47 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 15 | 5.47 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 15 | 5.47 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 6 | 5.47 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 11 | 5.47 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 12 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 12 | 5.47 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 17 | 5.47 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 17 | 5.47 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 17 | 5.47 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 6 | 5.47 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 20 | 5.47 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 14 | 5.47 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 14 | 5.47 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 7 | 5.47 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 7 | 5.47 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 7 | 5.47 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 17 | 5.47 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 17 | 5.47 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 17 | 5.47 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 16 | 5.47 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 16 | 5.47 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 16 | 5.47 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 16 | 5.47 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 16 | 5.47 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 16 | 5.47 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 16 | 5.47 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 16 | 5.47 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 16 | 5.47 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 7 | 5.47 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 4 | 5.47 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 17 | 5.47 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 17 | 5.47 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 10 | 5.47 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 7 | 5.47 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 15 | 5.47 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 12 | 5.47 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 12 | 5.47 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 8 | 5.47 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 8 | 5.47 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 8 | 5.47 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 2 | 5.47 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 2 | 5.47 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 18 | 5.47 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 18 | 5.47 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 19 | 5.47 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 19 | 5.47 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 5 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 11 | 5.47 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 7 | 5.47 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 14 | 5.47 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 14 | 5.47 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 14 | 5.47 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 14 | 5.47 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 14 | 5.47 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 8 | 5.47 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 8 | 5.47 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 8 | 5.47 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 12 | 5.47 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 12 | 5.47 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 12 | 5.47 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 6 | 5.47 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 6 | 5.47 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 2 | 5.47 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 2 | 5.47 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 4 | 5.47 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 4 | 5.47 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 4 | 5.47 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 2 | 5.47 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 12 | 5.47 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 12 | 5.47 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 12 | 5.47 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 5 | 5.47 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 8 | 5.47 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 2 | 5.47 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 16 | 5.47 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 16 | 5.47 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 16 | 5.47 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 10 | 5.47 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 10 | 5.47 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 10 | 5.47 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 2 | 5.47 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 3 | 5.47 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 3 | 5.47 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 3 | 5.47 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 7 | 5.47 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 14 | 5.47 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 14 | 5.47 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 4 | 5.47 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 19 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 19 | 5.47 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 18 | 5.47 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 18 | 5.47 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 18 | 5.47 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 9 | 5.47 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 18 | 5.47 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 18 | 5.47 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 18 | 5.47 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 15 | 5.47 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 15 | 5.47 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 15 | 5.47 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 14 | 5.47 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 14 | 5.47 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 14 | 5.47 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 19 | 5.47 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 12 | 5.47 |
| (1,5044) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 12 | 5.47 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 8 | 5.47 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 8 | 5.47 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 8 | 5.47 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 13 | 5.47 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 20 | 5.47 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 6 | 5.47 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 6 | 5.47 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 6 | 5.47 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 14 | 5.47 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 14 | 5.47 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 14 | 5.47 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 16 | 5.47 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 1 | 5.47 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 14 | 5.47 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 16 | 5.47 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 16 | 5.47 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 8 | 5.47 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 16 | 5.47 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 16 | 5.47 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 15 | 5.47 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 15 | 5.47 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 15 | 5.47 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 15 | 5.47 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 14 | 5.47 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 14 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 14 | 5.47 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 14 | 5.47 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 14 | 5.47 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 14 | 5.47 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 17 | 5.47 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 17 | 5.47 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 17 | 5.47 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 17 | 5.47 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 17 | 5.47 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 17 | 5.47 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 5.47 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 5.47 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 5.47 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 5.47 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 5.47 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 5.47 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 18 | 5.47 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 18 | 5.47 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 13 | 5.47 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 13 | 5.47 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 13 | 5.47 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 13 | 5.47 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 12 | 5.47 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 12 | 5.47 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 12 | 5.47 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 12 | 5.47 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 12 | 5.47 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 12 | 5.47 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 11 | 5.47 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 11 | 5.47 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 11 | 5.47 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 11 | 5.47 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 3 | 5.47 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 3 | 5.47 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 3 | 5.47 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 11 | 5.47 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 11 | 5.47 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 5 | 5.47 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 5 | 5.47 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 12 | 5.47 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 12 | 5.47 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 12 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 12 | 5.47 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 14 | 5.47 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 14 | 5.47 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 14 | 5.47 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 14 | 5.47 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 14 | 5.47 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 14 | 5.47 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 4 | 5.47 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 19 | 5.47 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 7 | 5.47 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 16 | 5.47 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 16 | 5.47 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 16 | 5.47 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 13 | 5.47 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 13 | 5.47 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 13 | 5.47 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 13 | 5.47 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 13 | 5.47 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 13 | 5.47 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 6 | 5.47 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 6 | 5.47 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 6 | 5.47 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 6 | 5.47 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 6 | 5.47 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 6 | 5.47 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 6 | 5.47 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 6 | 5.47 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 6 | 5.47 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 5.47 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 14 | 5.47 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 14 | 5.47 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 13 | 5.47 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 14 | 5.47 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 14 | 5.47 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 14 | 5.47 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 8 | 5.47 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 8 | 5.47 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 8 | 5.47 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 12 | 5.47 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 12 | 5.47 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 12 | 5.47 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 6 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 6 | 5.47 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 13 | 5.47 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 13 | 5.47 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 13 | 5.47 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 2 | 5.47 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 2 | 5.47 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 4 | 5.47 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 4 | 5.47 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 4 | 5.47 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 2 | 5.47 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 8 | 5.47 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 12 | 5.47 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 12 | 5.47 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 12 | 5.47 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 5 | 5.47 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 8 | 5.47 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 14 | 5.47 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 2 | 5.47 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 16 | 5.47 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 16 | 5.47 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 16 | 5.47 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 11 | 5.47 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 11 | 5.47 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 11 | 5.47 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 10 | 5.47 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 10 | 5.47 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 10 | 5.47 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 10 | 5.47 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 10 | 5.47 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 10 | 5.47 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 18 | 5.47 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 2 | 5.47 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 3 | 5.47 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 3 | 5.47 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 3 | 5.47 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 13 | 5.47 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 13 | 5.47 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 7 | 5.47 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 14 | 5.47 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 14 | 5.47 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 18 | 5.47 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 18 | 5.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 4 | 5.47 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 19 | 5.47 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 19 | 5.47 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 18 | 5.47 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 18 | 5.47 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 18 | 5.47 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 15 | 5.47 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 6 | 5.47 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 6 | 5.47 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 9 | 5.47 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 7 | 5.46 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 19 | 5.46 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 1 | 5.46 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 2 | 5.46 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 2 | 5.46 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 2 | 5.46 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 2 | 5.46 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 2 | 5.46 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 2 | 5.46 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 16 | 5.46 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 16 | 5.46 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 16 | 5.46 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 16 | 5.46 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 16 | 5.46 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 16 | 5.46 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 16 | 5.46 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 16 | 5.46 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 16 | 5.46 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 16 | 5.46 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 10 | 5.46 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 10 | 5.46 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 10 | 5.46 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 10 | 5.46 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 20 | 5.46 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 20 | 5.46 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 8 | 5.46 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 8 | 5.46 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 8 | 5.46 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 8 | 5.46 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 8 | 5.46 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 8 | 5.46 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 8 | 5.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 8 | 5.46 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 8 | 5.46 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 8 | 5.46 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 4 | 5.46 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 4 | 5.46 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 13 | 5.46 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 13 | 5.46 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 18 | 5.46 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 18 | 5.46 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 18 | 5.46 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 18 | 5.46 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 6 | 5.46 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 6 | 5.46 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 6 | 5.46 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 6 | 5.46 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 6 | 5.46 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 6 | 5.46 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 12 | 5.46 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 12 | 5.46 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 11 | 5.46 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 11 | 5.46 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 11 | 5.46 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 11 | 5.46 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 15 | 5.46 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 15 | 5.46 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 15 | 5.46 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 15 | 5.46 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 5 | 5.46 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 5 | 5.46 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 4 | 5.46 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 4 | 5.46 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 4 | 5.46 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 4 | 5.46 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 12 | 5.46 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 12 | 5.46 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 3 | 5.46 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 3 | 5.46 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 4 | 5.46 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 4 | 5.46 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 4 | 5.46 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 16 | 5.46 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 16 | 5.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 16 | 5.46 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 15 | 5.46 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 15 | 5.46 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 15 | 5.46 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 15 | 5.46 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 15 | 5.46 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 15 | 5.46 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 15 | 5.46 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 15 | 5.46 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 15 | 5.46 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 1 | 5.46 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 1 | 5.46 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 1 | 5.46 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 17 | 5.46 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 3 | 5.46 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 11 | 5.46 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 11 | 5.46 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 19 | 5.46 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 19 | 5.46 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 2 | 5.46 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 6 | 5.46 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 17 | 5.46 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 20 | 5.46 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 6 | 5.46 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 2 | 5.46 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 2 | 5.46 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 11 | 5.46 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 11 | 5.46 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 11 | 5.46 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 7 | 5.46 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 7 | 5.46 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 7 | 5.46 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 10 | 5.46 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 10 | 5.46 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 10 | 5.46 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 9 | 5.46 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 9 | 5.46 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 9 | 5.46 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 1 | 5.46 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 10 | 5.46 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 3 | 5.46 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 8 | 5.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 14 | 5.46 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 14 | 5.46 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 14 | 5.46 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 7 | 5.46 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 7 | 5.46 |
| (1,7959) | 1:76:A:GLU:HB3 | 1:78:A:ILE:H | 10 | 5.46 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 13 | 5.46 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 11 | 5.46 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 12 | 5.46 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 12 | 5.46 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 12 | 5.46 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 11 | 5.46 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 10 | 5.46 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 10 | 5.46 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 10 | 5.46 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 3 | 5.46 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 3 | 5.46 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 3 | 5.46 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 3 | 5.46 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 3 | 5.46 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 3 | 5.46 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 3 | 5.46 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 3 | 5.46 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 3 | 5.46 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 4 | 5.46 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 4 | 5.46 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 4 | 5.46 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 4 | 5.46 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 4 | 5.46 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 4 | 5.46 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 4 | 5.46 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 4 | 5.46 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 4 | 5.46 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 5 | 5.46 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 5 | 5.46 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 5 | 5.46 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 10 | 5.46 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 11 | 5.46 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 5 | 5.46 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 18 | 5.46 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 18 | 5.46 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 18 | 5.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 17 | 5.46 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 4 | 5.46 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 4 | 5.46 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 4 | 5.46 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 8 | 5.46 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 8 | 5.46 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 8 | 5.46 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 7 | 5.46 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 16 | 5.46 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 16 | 5.46 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 5 | 5.46 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 5 | 5.46 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 5 | 5.46 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 11 | 5.46 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 11 | 5.46 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 11 | 5.46 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 5 | 5.46 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 7 | 5.46 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 7 | 5.46 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 7 | 5.46 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 12 | 5.46 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 12 | 5.46 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 12 | 5.46 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 19 | 5.46 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 3 | 5.46 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 3 | 5.46 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 3 | 5.46 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 2 | 5.46 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 12 | 5.46 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 12 | 5.46 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 20 | 5.46 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 20 | 5.46 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 17 | 5.46 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 19 | 5.46 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 19 | 5.46 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 6 | 5.46 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 7 | 5.46 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 4 | 5.46 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 18 | 5.46 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 18 | 5.46 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 19 | 5.46 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 17 | 5.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 17 | 5.46 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 17 | 5.46 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 11 | 5.46 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 11 | 5.46 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 11 | 5.46 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 10 | 5.46 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 10 | 5.46 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 10 | 5.46 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 7 | 5.46 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 8 | 5.46 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 8 | 5.46 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 8 | 5.46 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 9 | 5.46 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 9 | 5.46 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 9 | 5.46 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 9 | 5.46 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 9 | 5.46 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 9 | 5.46 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 2 | 5.46 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 2 | 5.46 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 13 | 5.46 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 10 | 5.46 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 14 | 5.46 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 14 | 5.46 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 14 | 5.46 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 20 | 5.46 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 20 | 5.46 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 20 | 5.46 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 15 | 5.46 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 15 | 5.46 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 15 | 5.46 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 15 | 5.46 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 9 | 5.46 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 15 | 5.46 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 15 | 5.46 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 15 | 5.46 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 8 | 5.46 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 14 | 5.46 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 17 | 5.46 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 12 | 5.46 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 18 | 5.46 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 18 | 5.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 18 | 5.46 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 2 | 5.46 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 6 | 5.46 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 6 | 5.46 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 6 | 5.46 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 13 | 5.46 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 13 | 5.46 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 8 | 5.46 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 3 | 5.46 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 18 | 5.46 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 18 | 5.46 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 18 | 5.46 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 13 | 5.46 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 13 | 5.46 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 2 | 5.46 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 2 | 5.46 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 2 | 5.46 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 6 | 5.46 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 6 | 5.46 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 6 | 5.46 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 6 | 5.46 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 6 | 5.46 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 6 | 5.46 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 15 | 5.46 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 5 | 5.46 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 5 | 5.46 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 5.46 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 8 | 5.46 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 18 | 5.46 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 4 | 5.46 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 17 | 5.46 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 19 | 5.46 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 19 | 5.46 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 15 | 5.46 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 15 | 5.46 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 6 | 5.46 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 7 | 5.46 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 4 | 5.46 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 18 | 5.46 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 19 | 5.46 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 10 | 5.46 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 10 | 5.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 17 | 5.46 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 17 | 5.46 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 17 | 5.46 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 13 | 5.46 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 13 | 5.46 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 13 | 5.46 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 11 | 5.46 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 11 | 5.46 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 11 | 5.46 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 5.46 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 5.46 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 5.46 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 10 | 5.46 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 10 | 5.46 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 10 | 5.46 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 2 | 5.46 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 2 | 5.46 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 2 | 5.46 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 7 | 5.46 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 8 | 5.46 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 8 | 5.46 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 8 | 5.46 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 9 | 5.46 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 9 | 5.46 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 9 | 5.46 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 9 | 5.46 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 9 | 5.46 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 9 | 5.46 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 17 | 5.46 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 17 | 5.46 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 2 | 5.46 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 2 | 5.46 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 13 | 5.46 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 10 | 5.46 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 1 | 5.46 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 16 | 5.46 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 1 | 5.46 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 1 | 5.46 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 1 | 5.46 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 17 | 5.45 |
| (4,104) | 1:90:A:ASN:CB | 1:3:A:ASP:H | 5 | 5.45 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 6 | 5.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 6 | 5.45 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 18 | 5.45 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 18 | 5.45 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 18 | 5.45 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 6 | 5.45 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 6 | 5.45 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 5 | 5.45 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 5 | 5.45 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 5.45 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 5.45 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 5.45 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 5.45 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 5.45 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 5.45 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 18 | 5.45 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 18 | 5.45 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 5.45 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 5.45 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 5.45 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 5.45 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 5.45 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 5.45 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 8 | 5.45 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 8 | 5.45 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 8 | 5.45 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 8 | 5.45 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 11 | 5.45 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 11 | 5.45 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 11 | 5.45 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 11 | 5.45 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 1 | 5.45 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 1 | 5.45 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 17 | 5.45 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 17 | 5.45 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 8 | 5.45 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 8 | 5.45 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 8 | 5.45 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 8 | 5.45 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 8 | 5.45 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 8 | 5.45 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 4 | 5.45 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 4 | 5.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 13 | 5.45 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 13 | 5.45 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 8 | 5.45 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 8 | 5.45 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 20 | 5.45 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 20 | 5.45 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 9 | 5.45 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 9 | 5.45 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 4 | 5.45 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 4 | 5.45 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 4 | 5.45 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 4 | 5.45 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 4 | 5.45 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 4 | 5.45 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 13 | 5.45 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 13 | 5.45 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 11 | 5.45 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 11 | 5.45 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 11 | 5.45 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 11 | 5.45 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 20 | 5.45 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 20 | 5.45 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 20 | 5.45 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 20 | 5.45 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 20 | 5.45 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 20 | 5.45 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 19 | 5.45 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 19 | 5.45 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 8 | 5.45 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 8 | 5.45 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 5.45 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 5.45 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 5.45 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 5.45 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 5.45 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 5.45 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 7 | 5.45 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 7 | 5.45 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 7 | 5.45 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 11 | 5.45 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 19 | 5.45 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 4 | 5.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 4 | 5.45 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 4 | 5.45 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 5 | 5.45 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 5 | 5.45 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 5 | 5.45 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 5 | 5.45 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 5 | 5.45 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 5 | 5.45 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 5 | 5.45 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 5 | 5.45 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 5 | 5.45 |
| (1,8309) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 6 | 5.45 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 14 | 5.45 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 14 | 5.45 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 9 | 5.45 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 4 | 5.45 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 2 | 5.45 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 2 | 5.45 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 2 | 5.45 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 2 | 5.45 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 2 | 5.45 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 16 | 5.45 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 6 | 5.45 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 7 | 5.45 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 7 | 5.45 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 7 | 5.45 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 2 | 5.45 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 2 | 5.45 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 2 | 5.45 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 3 | 5.45 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 3 | 5.45 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 3 | 5.45 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 6 | 5.45 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 6 | 5.45 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 6 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 1 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 1 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 1 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 1 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 1 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 1 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 1 | 5.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 1 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 1 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 14 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 14 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 14 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 14 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 14 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 14 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 14 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 14 | 5.45 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 14 | 5.45 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 6 | 5.45 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 6 | 5.45 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 6 | 5.45 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 15 | 5.45 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 17 | 5.45 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 17 | 5.45 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 12 | 5.45 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 19 | 5.45 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 2 | 5.45 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 13 | 5.45 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 13 | 5.45 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 5 | 5.45 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 5 | 5.45 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 5 | 5.45 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 1 | 5.45 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 18 | 5.45 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 18 | 5.45 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 18 | 5.45 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 18 | 5.45 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 18 | 5.45 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 18 | 5.45 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 16 | 5.45 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 16 | 5.45 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 10 | 5.45 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 10 | 5.45 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 10 | 5.45 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 10 | 5.45 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 10 | 5.45 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 10 | 5.45 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 9 | 5.45 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 9 | 5.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 9 | 5.45 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 20 | 5.45 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 12 | 5.45 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 12 | 5.45 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 12 | 5.45 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 1 | 5.45 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 4 | 5.45 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 5 | 5.45 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 15 | 5.45 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 10 | 5.45 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 10 | 5.45 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 10 | 5.45 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 13 | 5.45 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 12 | 5.45 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 12 | 5.45 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 12 | 5.45 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 12 | 5.45 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 18 | 5.45 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 18 | 5.45 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 18 | 5.45 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 16 | 5.45 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 16 | 5.45 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 16 | 5.45 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 4 | 5.45 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 4 | 5.45 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 4 | 5.45 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 16 | 5.45 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 3 | 5.45 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 9 | 5.45 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 19 | 5.45 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 19 | 5.45 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 3 | 5.45 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 3 | 5.45 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 3 | 5.45 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 6 | 5.45 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 6 | 5.45 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 6 | 5.45 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 9 | 5.45 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 6 | 5.45 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 6 | 5.45 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 17 | 5.45 |
| (1,4534) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 4 | 5.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 16 | 5.45 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 16 | 5.45 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 16 | 5.45 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 14 | 5.45 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 5.45 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 5.45 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 5.45 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 5.45 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 5.45 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 5.45 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 5.45 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 5.45 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 5.45 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 5.45 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 5.45 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 5.45 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 6 | 5.45 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 7 | 5.45 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 5.45 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 9 | 5.45 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 9 | 5.45 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 1 | 5.45 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 1 | 5.45 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 11 | 5.45 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 11 | 5.45 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 11 | 5.45 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 13 | 5.45 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 13 | 5.45 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 6 | 5.45 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 9 | 5.45 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 9 | 5.45 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 7 | 5.45 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 11 | 5.45 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 13 | 5.45 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 13 | 5.45 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 13 | 5.45 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 19 | 5.45 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 4 | 5.45 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 4 | 5.45 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 4 | 5.45 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 4 | 5.45 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 4 | 5.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 4 | 5.45 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 13 | 5.45 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 13 | 5.45 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 16 | 5.45 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 16 | 5.45 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 16 | 5.45 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 16 | 5.45 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 15 | 5.45 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 8 | 5.45 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 8 | 5.45 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 5.45 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 5.45 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 5.45 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 5.45 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 5.45 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 5.45 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 9 | 5.45 |
| (1,3450) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 5 | 5.45 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 3 | 5.45 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 10 | 5.45 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 10 | 5.45 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 10 | 5.45 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 10 | 5.45 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 10 | 5.45 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 10 | 5.45 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 8 | 5.45 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 9 | 5.45 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 9 | 5.45 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 9 | 5.45 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 20 | 5.45 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 5.45 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 5.45 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 12 | 5.45 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 12 | 5.45 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 12 | 5.45 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 1 | 5.45 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 1 | 5.45 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 1 | 5.45 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 1 | 5.45 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 4 | 5.45 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 5 | 5.45 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 15 | 5.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 15 | 5.45 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 17 | 5.45 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 13 | 5.45 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 13 | 5.45 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 13 | 5.45 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 10 | 5.45 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 10 | 5.45 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 10 | 5.45 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 11 | 5.45 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 11 | 5.45 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 11 | 5.45 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 13 | 5.45 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 12 | 5.45 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 12 | 5.45 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 12 | 5.45 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 1 | 5.45 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 2 | 5.45 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 16 | 5.45 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 16 | 5.45 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 16 | 5.45 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 17 | 5.45 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 12 | 5.45 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 18 | 5.45 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 18 | 5.45 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 18 | 5.45 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 11 | 5.45 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 11 | 5.45 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 11 | 5.45 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 11 | 5.45 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 11 | 5.45 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 11 | 5.45 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 4 | 5.45 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 19 | 5.44 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 10 | 5.44 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 10 | 5.44 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 17 | 5.44 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 17 | 5.44 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 2 | 5.44 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 2 | 5.44 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 8 | 5.44 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 8 | 5.44 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 5 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 5 | 5.44 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 5 | 5.44 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 5 | 5.44 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 14 | 5.44 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 14 | 5.44 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 6 | 5.44 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 6 | 5.44 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 14 | 5.44 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 14 | 5.44 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 16 | 5.44 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 16 | 5.44 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 16 | 5.44 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 16 | 5.44 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 16 | 5.44 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 16 | 5.44 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 5.44 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 5.44 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 5.44 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 5.44 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 5.44 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 5.44 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 11 | 5.44 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 11 | 5.44 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 8 | 5.44 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 8 | 5.44 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 19 | 5.44 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 19 | 5.44 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 5.44 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 5.44 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 4 | 5.44 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 4 | 5.44 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 18 | 5.44 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 18 | 5.44 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 12 | 5.44 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 12 | 5.44 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 6 | 5.44 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 6 | 5.44 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 6 | 5.44 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 6 | 5.44 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 6 | 5.44 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 6 | 5.44 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 4 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 4 | 5.44 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 14 | 5.44 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 14 | 5.44 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 19 | 5.44 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 19 | 5.44 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 19 | 5.44 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 19 | 5.44 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 10 | 5.44 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 10 | 5.44 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 4 | 5.44 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 4 | 5.44 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 4 | 5.44 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 4 | 5.44 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 4 | 5.44 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 4 | 5.44 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 17 | 5.44 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 17 | 5.44 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 17 | 5.44 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 17 | 5.44 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 17 | 5.44 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 17 | 5.44 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 20 | 5.44 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 20 | 5.44 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 20 | 5.44 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 11 | 5.44 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 11 | 5.44 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 11 | 5.44 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 3 | 5.44 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 3 | 5.44 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 3 | 5.44 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 15 | 5.44 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 15 | 5.44 |
| (1,8458) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 15 | 5.44 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 16 | 5.44 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 16 | 5.44 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 16 | 5.44 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 3 | 5.44 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 3 | 5.44 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 3 | 5.44 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 19 | 5.44 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 19 | 5.44 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 19 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 2 | 5.44 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 2 | 5.44 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 2 | 5.44 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 14 | 5.44 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 12 | 5.44 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 18 | 5.44 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 1 | 5.44 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 1 | 5.44 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 1 | 5.44 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 5 | 5.44 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 5 | 5.44 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 5 | 5.44 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 18 | 5.44 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 14 | 5.44 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 14 | 5.44 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 14 | 5.44 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 12 | 5.44 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 4 | 5.44 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 4 | 5.44 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 4 | 5.44 |
| (1,8047) | 1:88:A:LEU:HD11 | 1:91:A:GLY:H | 14 | 5.44 |
| (1,8047) | 1:88:A:LEU:HD12 | 1:91:A:GLY:H | 14 | 5.44 |
| (1,8047) | 1:88:A:LEU:HD13 | 1:91:A:GLY:H | 14 | 5.44 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 5 | 5.44 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 2 | 5.44 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 12 | 5.44 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 12 | 5.44 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 12 | 5.44 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 12 | 5.44 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 12 | 5.44 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 12 | 5.44 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 12 | 5.44 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 12 | 5.44 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 12 | 5.44 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 12 | 5.44 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 17 | 5.44 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 2 | 5.44 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 6 | 5.44 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 11 | 5.44 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 11 | 5.44 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 11 | 5.44 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 16 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 16 | 5.44 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 16 | 5.44 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 16 | 5.44 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 17 | 5.44 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 17 | 5.44 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 17 | 5.44 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 7 | 5.44 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 7 | 5.44 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 7 | 5.44 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD21 | 4 | 5.44 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD22 | 4 | 5.44 |
| (1,7796) | 1:59:A:HIS:H | 1:60:A:LEU:HD23 | 4 | 5.44 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 4 | 5.44 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 19 | 5.44 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 16 | 5.44 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 16 | 5.44 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 13 | 5.44 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 6 | 5.44 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 5 | 5.44 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 5 | 5.44 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 5 | 5.44 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 3 | 5.44 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 13 | 5.44 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 1 | 5.44 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 14 | 5.44 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 17 | 5.44 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 17 | 5.44 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 11 | 5.44 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 11 | 5.44 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 8 | 5.44 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 20 | 5.44 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 20 | 5.44 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 9 | 5.44 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 13 | 5.44 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 13 | 5.44 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 13 | 5.44 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 15 | 5.44 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 15 | 5.44 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 15 | 5.44 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 4 | 5.44 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 4 | 5.44 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 4 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 6 | 5.44 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 13 | 5.44 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 13 | 5.44 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 11 | 5.44 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 11 | 5.44 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 7 | 5.44 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 7 | 5.44 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 7 | 5.44 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 6 | 5.44 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 6 | 5.44 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 6 | 5.44 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 6 | 5.44 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 6 | 5.44 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 6 | 5.44 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 15 | 5.44 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 15 | 5.44 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 15 | 5.44 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 16 | 5.44 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 13 | 5.44 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 5 | 5.44 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 5 | 5.44 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 5 | 5.44 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 18 | 5.44 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 18 | 5.44 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 18 | 5.44 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 18 | 5.44 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 18 | 5.44 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 18 | 5.44 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 5 | 5.44 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 5 | 5.44 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 5 | 5.44 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 4 | 5.44 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 4 | 5.44 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 4 | 5.44 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 5 | 5.44 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 5 | 5.44 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 5 | 5.44 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 5 | 5.44 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 5 | 5.44 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 5 | 5.44 |
| (1,5992) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 5 | 5.44 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 2 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 2 | 5.44 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 2 | 5.44 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 1 | 5.44 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 5 | 5.44 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 5 | 5.44 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 5 | 5.44 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 5 | 5.44 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 15 | 5.44 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 15 | 5.44 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 15 | 5.44 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 16 | 5.44 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 16 | 5.44 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 16 | 5.44 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 15 | 5.44 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 11 | 5.44 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 11 | 5.44 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 11 | 5.44 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 17 | 5.44 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 17 | 5.44 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 17 | 5.44 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 17 | 5.44 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 17 | 5.44 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 17 | 5.44 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 12 | 5.44 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 6 | 5.44 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 6 | 5.44 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 6 | 5.44 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 6 | 5.44 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 6 | 5.44 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 6 | 5.44 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 6 | 5.44 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 6 | 5.44 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 6 | 5.44 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 6 | 5.44 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 18 | 5.44 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 6 | 5.44 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 19 | 5.44 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 1 | 5.44 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 13 | 5.44 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 13 | 5.44 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 13 | 5.44 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 10 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 10 | 5.44 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 10 | 5.44 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 3 | 5.44 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 3 | 5.44 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 3 | 5.44 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 13 | 5.44 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 2 | 5.44 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 2 | 5.44 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 5 | 5.44 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 5 | 5.44 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 5 | 5.44 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 5 | 5.44 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 16 | 5.44 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 16 | 5.44 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 16 | 5.44 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 16 | 5.44 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 16 | 5.44 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 16 | 5.44 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 5.44 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 5.44 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 5.44 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 5.44 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 5.44 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 5.44 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 19 | 5.44 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 9 | 5.44 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 11 | 5.44 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 1 | 5.44 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 1 | 5.44 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 5.44 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 19 | 5.44 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 19 | 5.44 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 5.44 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 5.44 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 4 | 5.44 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 4 | 5.44 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 17 | 5.44 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 9 | 5.44 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 9 | 5.44 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 9 | 5.44 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 14 | 5.44 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 14 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 16 | 5.44 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 16 | 5.44 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 16 | 5.44 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 8 | 5.44 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 6 | 5.44 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 6 | 5.44 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 6 | 5.44 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 10 | 5.44 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 10 | 5.44 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 5.44 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 4 | 5.44 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 4 | 5.44 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 4 | 5.44 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 4 | 5.44 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 4 | 5.44 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 4 | 5.44 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 13 | 5.44 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 13 | 5.44 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 13 | 5.44 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 15 | 5.44 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 15 | 5.44 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 15 | 5.44 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 4 | 5.44 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 4 | 5.44 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 4 | 5.44 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 6 | 5.44 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 13 | 5.44 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 13 | 5.44 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 11 | 5.44 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 11 | 5.44 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 7 | 5.44 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 7 | 5.44 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 7 | 5.44 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 7 | 5.44 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 7 | 5.44 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 7 | 5.44 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 6 | 5.44 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 6 | 5.44 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 6 | 5.44 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 6 | 5.44 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 6 | 5.44 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 6 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 9 | 5.44 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 15 | 5.44 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 15 | 5.44 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 15 | 5.44 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 16 | 5.44 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 3 | 5.44 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 3 | 5.44 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 3 | 5.44 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 14 | 5.44 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 14 | 5.44 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 14 | 5.44 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 13 | 5.44 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 5 | 5.44 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 5 | 5.44 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 5 | 5.44 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 5 | 5.44 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 5 | 5.44 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 18 | 5.44 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 18 | 5.44 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 18 | 5.44 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 18 | 5.44 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 18 | 5.44 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 18 | 5.44 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 2 | 5.44 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 5 | 5.44 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 5 | 5.44 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 5 | 5.44 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 4 | 5.44 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 4 | 5.44 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 4 | 5.44 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 5 | 5.44 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 5 | 5.44 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 5 | 5.44 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 11 | 5.44 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 11 | 5.44 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 11 | 5.44 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 14 | 5.44 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 14 | 5.44 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 5 | 5.44 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 5 | 5.44 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 5 | 5.44 |
| (1,1484) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 5 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 2 | 5.44 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 2 | 5.44 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 2 | 5.44 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 4 | 5.44 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 4 | 5.44 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 4 | 5.44 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 13 | 5.44 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 1 | 5.44 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 1 | 5.44 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 1 | 5.44 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 4 | 5.44 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 4 | 5.44 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 4 | 5.44 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 2 | 5.44 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 2 | 5.44 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 2 | 5.44 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 5 | 5.44 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 5 | 5.44 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 5 | 5.44 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 13 | 5.44 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 5 | 5.44 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 15 | 5.44 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 15 | 5.44 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 15 | 5.44 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 16 | 5.44 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 16 | 5.44 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 16 | 5.44 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 5.44 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 5.44 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 5.44 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 13 | 5.44 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 15 | 5.44 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 8 | 5.44 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 9 | 5.44 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 9 | 5.44 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 9 | 5.44 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 11 | 5.44 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 11 | 5.44 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 11 | 5.44 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 17 | 5.44 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 17 | 5.44 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 17 | 5.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 17 | 5.44 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 17 | 5.44 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 17 | 5.44 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 13 | 5.43 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 6 | 5.43 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 19 | 5.43 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 19 | 5.43 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 19 | 5.43 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 19 | 5.43 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 19 | 5.43 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 19 | 5.43 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 13 | 5.43 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 13 | 5.43 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 13 | 5.43 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 13 | 5.43 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 13 | 5.43 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 13 | 5.43 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 3 | 5.43 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 3 | 5.43 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 6 | 5.43 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 6 | 5.43 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 6 | 5.43 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 6 | 5.43 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 6 | 5.43 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 6 | 5.43 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 10 | 5.43 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 10 | 5.43 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 5 | 5.43 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 5 | 5.43 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 5 | 5.43 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 5 | 5.43 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 16 | 5.43 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 16 | 5.43 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 5 | 5.43 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 5 | 5.43 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 5 | 5.43 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 5 | 5.43 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 11 | 5.43 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 11 | 5.43 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 15 | 5.43 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 15 | 5.43 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 15 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 15 | 5.43 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 1 | 5.43 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 1 | 5.43 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 14 | 5.43 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 14 | 5.43 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 1 | 5.43 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 1 | 5.43 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 1 | 5.43 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 1 | 5.43 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 1 | 5.43 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 1 | 5.43 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 12 | 5.43 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 12 | 5.43 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 12 | 5.43 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 12 | 5.43 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 12 | 5.43 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 12 | 5.43 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 19 | 5.43 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 19 | 5.43 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 12 | 5.43 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 12 | 5.43 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 12 | 5.43 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 12 | 5.43 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 12 | 5.43 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 12 | 5.43 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 16 | 5.43 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 16 | 5.43 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 6 | 5.43 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 6 | 5.43 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 6 | 5.43 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 6 | 5.43 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 6 | 5.43 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 6 | 5.43 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 6 | 5.43 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 6 | 5.43 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 15 | 5.43 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 15 | 5.43 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 15 | 5.43 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 15 | 5.43 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 15 | 5.43 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 15 | 5.43 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 14 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 14 | 5.43 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 14 | 5.43 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 14 | 5.43 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 19 | 5.43 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 19 | 5.43 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 19 | 5.43 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 19 | 5.43 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 11 | 5.43 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 11 | 5.43 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 11 | 5.43 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 11 | 5.43 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 20 | 5.43 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 20 | 5.43 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 20 | 5.43 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 20 | 5.43 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 20 | 5.43 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 20 | 5.43 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 20 | 5.43 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 20 | 5.43 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 20 | 5.43 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 16 | 5.43 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 7 | 5.43 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 15 | 5.43 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 7 | 5.43 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 7 | 5.43 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 7 | 5.43 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 2 | 5.43 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 16 | 5.43 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 20 | 5.43 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 18 | 5.43 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 15 | 5.43 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 12 | 5.43 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG21 | 14 | 5.43 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG22 | 14 | 5.43 |
| (1,8118) | 1:93:A:ILE:HD11 | 1:156:A:ILE:HG23 | 14 | 5.43 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG21 | 14 | 5.43 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG22 | 14 | 5.43 |
| (1,8118) | 1:93:A:ILE:HD12 | 1:156:A:ILE:HG23 | 14 | 5.43 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG21 | 14 | 5.43 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG22 | 14 | 5.43 |
| (1,8118) | 1:93:A:ILE:HD13 | 1:156:A:ILE:HG23 | 14 | 5.43 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 19 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 19 | 5.43 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 19 | 5.43 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 7 | 5.43 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 7 | 5.43 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 7 | 5.43 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 16 | 5.43 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 16 | 5.43 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 16 | 5.43 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 14 | 5.43 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 14 | 5.43 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 12 | 5.43 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 12 | 5.43 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 12 | 5.43 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 12 | 5.43 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 2 | 5.43 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 2 | 5.43 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 9 | 5.43 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 11 | 5.43 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 16 | 5.43 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 5 | 5.43 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 5 | 5.43 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 5 | 5.43 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 20 | 5.43 |
| (1,8000) | 1:81:A:THR:H | 1:85:A:ALA:HA | 12 | 5.43 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 18 | 5.43 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 18 | 5.43 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 18 | 5.43 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 5 | 5.43 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 15 | 5.43 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 12 | 5.43 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 12 | 5.43 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 16 | 5.43 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 14 | 5.43 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 11 | 5.43 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 11 | 5.43 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 11 | 5.43 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 6 | 5.43 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 6 | 5.43 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 6 | 5.43 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 8 | 5.43 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 8 | 5.43 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 8 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 8 | 5.43 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 8 | 5.43 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 8 | 5.43 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 8 | 5.43 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 8 | 5.43 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 8 | 5.43 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 10 | 5.43 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 18 | 5.43 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 18 | 5.43 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 18 | 5.43 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 2 | 5.43 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 17 | 5.43 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 17 | 5.43 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 17 | 5.43 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 8 | 5.43 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 9 | 5.43 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 8 | 5.43 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 8 | 5.43 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 8 | 5.43 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 9 | 5.43 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 12 | 5.43 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 12 | 5.43 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 12 | 5.43 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 12 | 5.43 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 12 | 5.43 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 12 | 5.43 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 18 | 5.43 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 18 | 5.43 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 18 | 5.43 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 4 | 5.43 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 15 | 5.43 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 15 | 5.43 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 15 | 5.43 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 12 | 5.43 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 12 | 5.43 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 12 | 5.43 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 12 | 5.43 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 12 | 5.43 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 12 | 5.43 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 4 | 5.43 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 4 | 5.43 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 5 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 5 | 5.43 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 5 | 5.43 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 5 | 5.43 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 5 | 5.43 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 5 | 5.43 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 5 | 5.43 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 5 | 5.43 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 5 | 5.43 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 9 | 5.43 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 9 | 5.43 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 9 | 5.43 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 9 | 5.43 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 14 | 5.43 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 14 | 5.43 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 19 | 5.43 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 5 | 5.43 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 7 | 5.43 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 19 | 5.43 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 11 | 5.43 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 11 | 5.43 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 11 | 5.43 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 3 | 5.43 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 3 | 5.43 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 3 | 5.43 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 20 | 5.43 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 20 | 5.43 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 20 | 5.43 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 20 | 5.43 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 20 | 5.43 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 20 | 5.43 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 9 | 5.43 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 9 | 5.43 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 9 | 5.43 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 10 | 5.43 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 10 | 5.43 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 10 | 5.43 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 17 | 5.43 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 17 | 5.43 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 17 | 5.43 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 10 | 5.43 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 10 | 5.43 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 10 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 7 | 5.43 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 8 | 5.43 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 8 | 5.43 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 8 | 5.43 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 9 | 5.43 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 9 | 5.43 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 9 | 5.43 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 20 | 5.43 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 20 | 5.43 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 20 | 5.43 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 4 | 5.43 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 4 | 5.43 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 4 | 5.43 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 8 | 5.43 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 8 | 5.43 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 8 | 5.43 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 6 | 5.43 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 6 | 5.43 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 6 | 5.43 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 12 | 5.43 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 12 | 5.43 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 12 | 5.43 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 20 | 5.43 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 20 | 5.43 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 20 | 5.43 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 15 | 5.43 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 15 | 5.43 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 15 | 5.43 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 2 | 5.43 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 2 | 5.43 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 2 | 5.43 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 10 | 5.43 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 10 | 5.43 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 10 | 5.43 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 13 | 5.43 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 17 | 5.43 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 7 | 5.43 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 7 | 5.43 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 7 | 5.43 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 17 | 5.43 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 17 | 5.43 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 17 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 17 | 5.43 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 17 | 5.43 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 17 | 5.43 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 13 | 5.43 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 13 | 5.43 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 13 | 5.43 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 20 | 5.43 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 20 | 5.43 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 20 | 5.43 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 7 | 5.43 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 12 | 5.43 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 12 | 5.43 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 12 | 5.43 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 12 | 5.43 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 4 | 5.43 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 19 | 5.43 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 19 | 5.43 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 19 | 5.43 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 19 | 5.43 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 19 | 5.43 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 19 | 5.43 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 19 | 5.43 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 13 | 5.43 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 13 | 5.43 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 13 | 5.43 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 13 | 5.43 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 13 | 5.43 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 13 | 5.43 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 1 | 5.43 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 3 | 5.43 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 3 | 5.43 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 11 | 5.43 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 12 | 5.43 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 7 | 5.43 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 9 | 5.43 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 11 | 5.43 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 11 | 5.43 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 8 | 5.43 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 8 | 5.43 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 8 | 5.43 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 15 | 5.43 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 15 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 15 | 5.43 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 15 | 5.43 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 14 | 5.43 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 3 | 5.43 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 3 | 5.43 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 3 | 5.43 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 16 | 5.43 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 16 | 5.43 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 16 | 5.43 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 1 | 5.43 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 7 | 5.43 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 10 | 5.43 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 10 | 5.43 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 13 | 5.43 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 13 | 5.43 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 13 | 5.43 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 12 | 5.43 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 12 | 5.43 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 12 | 5.43 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 12 | 5.43 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 12 | 5.43 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 12 | 5.43 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 16 | 5.43 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 13 | 5.43 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 13 | 5.43 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 10 | 5.43 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 10 | 5.43 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 10 | 5.43 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 15 | 5.43 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 15 | 5.43 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 15 | 5.43 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 15 | 5.43 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 15 | 5.43 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 15 | 5.43 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 3 | 5.43 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 3 | 5.43 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 3 | 5.43 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 8 | 5.43 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 1 | 5.43 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 17 | 5.43 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 9 | 5.43 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 9 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 9 | 5.43 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 14 | 5.43 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 14 | 5.43 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 14 | 5.43 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 14 | 5.43 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 8 | 5.43 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 5.43 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 17 | 5.43 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 17 | 5.43 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 17 | 5.43 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 17 | 5.43 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 5 | 5.43 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 5 | 5.43 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 5 | 5.43 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 5 | 5.43 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 5 | 5.43 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 5 | 5.43 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 5 | 5.43 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 5 | 5.43 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 5 | 5.43 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 9 | 5.43 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 9 | 5.43 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 9 | 5.43 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 9 | 5.43 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 14 | 5.43 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 14 | 5.43 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 1 | 5.43 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 1 | 5.43 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 1 | 5.43 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 19 | 5.43 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 5 | 5.43 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 7 | 5.43 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 19 | 5.43 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 11 | 5.43 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 11 | 5.43 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 11 | 5.43 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 3 | 5.43 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 3 | 5.43 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 3 | 5.43 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 20 | 5.43 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 20 | 5.43 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 20 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 11 | 5.43 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 9 | 5.43 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 9 | 5.43 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 9 | 5.43 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 10 | 5.43 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 10 | 5.43 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 10 | 5.43 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 17 | 5.43 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 17 | 5.43 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 17 | 5.43 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 16 | 5.43 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 8 | 5.43 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 15 | 5.43 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 15 | 5.43 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 15 | 5.43 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 10 | 5.43 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 10 | 5.43 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 10 | 5.43 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 7 | 5.43 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 10 | 5.43 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 10 | 5.43 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 10 | 5.43 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 8 | 5.43 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 8 | 5.43 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 8 | 5.43 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 9 | 5.43 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 9 | 5.43 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 9 | 5.43 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 1 | 5.43 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 20 | 5.43 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 20 | 5.43 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 20 | 5.43 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 4 | 5.43 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 4 | 5.43 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 4 | 5.43 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 8 | 5.43 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 8 | 5.43 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 8 | 5.43 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 7 | 5.43 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 7 | 5.43 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 7 | 5.43 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 6 | 5.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 6 | 5.43 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 6 | 5.43 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 6 | 5.42 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 6 | 5.42 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 2 | 5.42 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 2 | 5.42 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 2 | 5.42 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 2 | 5.42 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 2 | 5.42 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 2 | 5.42 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 9 | 5.42 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 9 | 5.42 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 9 | 5.42 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 9 | 5.42 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 9 | 5.42 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 9 | 5.42 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 15 | 5.42 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 15 | 5.42 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 12 | 5.42 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 12 | 5.42 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 15 | 5.42 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 15 | 5.42 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 14 | 5.42 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 14 | 5.42 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 14 | 5.42 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 14 | 5.42 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 11 | 5.42 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 11 | 5.42 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 14 | 5.42 |
| (1,9316) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 14 | 5.42 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 20 | 5.42 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 20 | 5.42 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 5 | 5.42 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 5 | 5.42 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 5 | 5.42 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 5 | 5.42 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 16 | 5.42 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 16 | 5.42 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 16 | 5.42 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 16 | 5.42 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 16 | 5.42 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 16 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 8 | 5.42 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 8 | 5.42 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 1 | 5.42 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 1 | 5.42 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 1 | 5.42 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 1 | 5.42 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 1 | 5.42 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 1 | 5.42 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 1 | 5.42 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 1 | 5.42 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 14 | 5.42 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 14 | 5.42 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 6 | 5.42 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 6 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 20 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 20 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 20 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 20 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 20 | 5.42 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 20 | 5.42 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 3 | 5.42 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 3 | 5.42 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 15 | 5.42 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 15 | 5.42 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 13 | 5.42 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 13 | 5.42 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 1 | 5.42 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 1 | 5.42 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 1 | 5.42 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 1 | 5.42 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 1 | 5.42 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 1 | 5.42 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 16 | 5.42 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 16 | 5.42 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 16 | 5.42 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 16 | 5.42 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 16 | 5.42 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 16 | 5.42 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 3 | 5.42 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 3 | 5.42 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 8 | 5.42 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 8 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 15 | 5.42 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 15 | 5.42 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 2 | 5.42 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 6 | 5.42 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 6 | 5.42 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 6 | 5.42 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 16 | 5.42 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 16 | 5.42 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 16 | 5.42 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 13 | 5.42 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 3 | 5.42 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 3 | 5.42 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 3 | 5.42 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 11 | 5.42 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 15 | 5.42 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 10 | 5.42 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 10 | 5.42 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 10 | 5.42 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 19 | 5.42 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 19 | 5.42 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 19 | 5.42 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 8 | 5.42 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 18 | 5.42 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 18 | 5.42 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 9 | 5.42 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 9 | 5.42 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 9 | 5.42 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 18 | 5.42 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 18 | 5.42 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 18 | 5.42 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 18 | 5.42 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 20 | 5.42 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 20 | 5.42 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 20 | 5.42 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 16 | 5.42 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 10 | 5.42 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 2 | 5.42 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 2 | 5.42 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 2 | 5.42 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 2 | 5.42 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 2 | 5.42 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 2 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 2 | 5.42 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 2 | 5.42 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 2 | 5.42 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 5 | 5.42 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 1 | 5.42 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 1 | 5.42 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 1 | 5.42 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 7 | 5.42 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 7 | 5.42 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 8 | 5.42 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 8 | 5.42 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 11 | 5.42 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 11 | 5.42 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 1 | 5.42 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 1 | 5.42 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 4 | 5.42 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 4 | 5.42 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 4 | 5.42 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 14 | 5.42 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 16 | 5.42 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 6 | 5.42 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 6 | 5.42 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 6 | 5.42 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 12 | 5.42 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 5 | 5.42 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 5 | 5.42 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 5 | 5.42 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 5 | 5.42 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 5 | 5.42 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 5 | 5.42 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 5 | 5.42 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 5 | 5.42 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 5 | 5.42 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 15 | 5.42 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 1 | 5.42 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 11 | 5.42 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 7 | 5.42 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 1 | 5.42 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 2 | 5.42 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 17 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 5 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 5 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 5 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 7 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 7 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 7 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 10 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 10 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 10 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 14 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 14 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 14 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 15 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 15 | 5.42 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 15 | 5.42 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 20 | 5.42 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 9 | 5.42 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 14 | 5.42 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 17 | 5.42 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 18 | 5.42 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 13 | 5.42 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 13 | 5.42 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 13 | 5.42 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 18 | 5.42 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 18 | 5.42 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 18 | 5.42 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 8 | 5.42 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG21 | 3 | 5.42 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG22 | 3 | 5.42 |
| (1,7498) | 1:13:A:LYS:HB2 | 1:22:A:VAL:HG23 | 3 | 5.42 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG21 | 3 | 5.42 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG22 | 3 | 5.42 |
| (1,7498) | 1:13:A:LYS:HB3 | 1:22:A:VAL:HG23 | 3 | 5.42 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 19 | 5.42 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 19 | 5.42 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 12 | 5.42 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 7 | 5.42 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 7 | 5.42 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 7 | 5.42 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 8 | 5.42 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 10 | 5.42 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 10 | 5.42 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 10 | 5.42 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 10 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 10 | 5.42 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 10 | 5.42 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 13 | 5.42 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 13 | 5.42 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 13 | 5.42 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 19 | 5.42 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 6 | 5.42 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 6 | 5.42 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 12 | 5.42 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 18 | 5.42 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 9 | 5.42 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 17 | 5.42 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 6 | 5.42 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 20 | 5.42 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 20 | 5.42 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 20 | 5.42 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 20 | 5.42 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 20 | 5.42 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 20 | 5.42 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 7 | 5.42 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 16 | 5.42 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 16 | 5.42 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 16 | 5.42 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 16 | 5.42 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 16 | 5.42 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 16 | 5.42 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 16 | 5.42 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 16 | 5.42 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 16 | 5.42 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 1 | 5.42 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 2 | 5.42 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 2 | 5.42 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 2 | 5.42 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 8 | 5.42 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 8 | 5.42 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 8 | 5.42 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 15 | 5.42 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 15 | 5.42 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 15 | 5.42 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 11 | 5.42 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 9 | 5.42 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 9 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 9 | 5.42 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 18 | 5.42 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 18 | 5.42 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 18 | 5.42 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 17 | 5.42 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 18 | 5.42 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 18 | 5.42 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 18 | 5.42 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 18 | 5.42 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 18 | 5.42 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 18 | 5.42 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 18 | 5.42 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 18 | 5.42 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 18 | 5.42 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 17 | 5.42 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 17 | 5.42 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 17 | 5.42 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 16 | 5.42 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 12 | 5.42 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 6 | 5.42 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 8 | 5.42 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 11 | 5.42 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 12 | 5.42 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 12 | 5.42 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 12 | 5.42 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 15 | 5.42 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 15 | 5.42 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 15 | 5.42 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 15 | 5.42 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 15 | 5.42 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 15 | 5.42 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 15 | 5.42 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 15 | 5.42 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 15 | 5.42 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 15 | 5.42 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 15 | 5.42 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 15 | 5.42 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 16 | 5.42 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 16 | 5.42 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 16 | 5.42 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 2 | 5.42 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 9 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 9 | 5.42 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 9 | 5.42 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 9 | 5.42 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 9 | 5.42 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 9 | 5.42 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 15 | 5.42 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 15 | 5.42 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 1 | 5.42 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 1 | 5.42 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 1 | 5.42 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 14 | 5.42 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 14 | 5.42 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 14 | 5.42 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 14 | 5.42 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 17 | 5.42 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 5 | 5.42 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 5 | 5.42 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 5 | 5.42 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 5 | 5.42 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 16 | 5.42 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 16 | 5.42 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 16 | 5.42 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 16 | 5.42 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 16 | 5.42 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 16 | 5.42 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 8 | 5.42 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 8 | 5.42 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 11 | 5.42 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 10 | 5.42 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 16 | 5.42 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 16 | 5.42 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 11 | 5.42 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 12 | 5.42 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 9 | 5.42 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 9 | 5.42 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 15 | 5.42 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 15 | 5.42 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 15 | 5.42 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 1 | 5.42 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 1 | 5.42 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 1 | 5.42 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 1 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 1 | 5.42 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 1 | 5.42 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 15 | 5.42 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 13 | 5.42 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 13 | 5.42 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 13 | 5.42 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 13 | 5.42 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 19 | 5.42 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 19 | 5.42 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 18 | 5.42 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 18 | 5.42 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 13 | 5.42 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 13 | 5.42 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 13 | 5.42 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 19 | 5.42 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 6 | 5.42 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 6 | 5.42 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 12 | 5.42 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 18 | 5.42 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 10 | 5.42 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 10 | 5.42 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 9 | 5.42 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 17 | 5.42 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 6 | 5.42 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 20 | 5.42 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 20 | 5.42 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 20 | 5.42 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 20 | 5.42 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 20 | 5.42 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 20 | 5.42 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 7 | 5.42 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 15 | 5.42 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 10 | 5.42 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 10 | 5.42 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 10 | 5.42 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 18 | 5.42 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 18 | 5.42 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 18 | 5.42 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 13 | 5.42 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 4 | 5.42 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 5 | 5.42 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 5 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 5 | 5.42 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 16 | 5.42 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 16 | 5.42 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 16 | 5.42 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 16 | 5.42 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 16 | 5.42 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 16 | 5.42 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 16 | 5.42 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 16 | 5.42 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 16 | 5.42 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 1 | 5.42 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 2 | 5.42 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 2 | 5.42 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 2 | 5.42 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 8 | 5.42 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 8 | 5.42 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 8 | 5.42 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 15 | 5.42 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 15 | 5.42 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 15 | 5.42 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 11 | 5.42 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 8 | 5.42 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 10 | 5.42 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 15 | 5.42 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 15 | 5.42 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 15 | 5.42 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 1 | 5.42 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 1 | 5.42 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 1 | 5.42 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 9 | 5.42 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 9 | 5.42 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 9 | 5.42 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 18 | 5.42 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 18 | 5.42 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 18 | 5.42 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 17 | 5.42 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 18 | 5.42 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 18 | 5.42 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 18 | 5.42 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 18 | 5.42 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 18 | 5.42 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 18 | 5.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 18 | 5.42 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 18 | 5.42 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 18 | 5.42 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 19 | 5.41 |
| (4,28) | 1:15:A:MET:CB | 1:79:A:THR:H | 19 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 15 | 5.41 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 15 | 5.41 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 11 | 5.41 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 11 | 5.41 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 12 | 5.41 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 12 | 5.41 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 2 | 5.41 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 2 | 5.41 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 5 | 5.41 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 5 | 5.41 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 5 | 5.41 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 5 | 5.41 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 5 | 5.41 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 5 | 5.41 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 4 | 5.41 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 4 | 5.41 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 5.41 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 5.41 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 15 | 5.41 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 15 | 5.41 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 13 | 5.41 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 13 | 5.41 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 13 | 5.41 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 13 | 5.41 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 13 | 5.41 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 13 | 5.41 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 17 | 5.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 17 | 5.41 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 9 | 5.41 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 9 | 5.41 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 9 | 5.41 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 9 | 5.41 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 9 | 5.41 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 9 | 5.41 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 3 | 5.41 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 3 | 5.41 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 1 | 5.41 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 1 | 5.41 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 1 | 5.41 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 1 | 5.41 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 17 | 5.41 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 17 | 5.41 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 17 | 5.41 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 17 | 5.41 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 2 | 5.41 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 2 | 5.41 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 2 | 5.41 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 2 | 5.41 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 4 | 5.41 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 4 | 5.41 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 4 | 5.41 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 4 | 5.41 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 4 | 5.41 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 4 | 5.41 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 4 | 5.41 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 4 | 5.41 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 4 | 5.41 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 7 | 5.41 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 3 | 5.41 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD21 | 2 | 5.41 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD22 | 2 | 5.41 |
| (1,8436) | 1:145:A:GLU:H | 1:160:A:LEU:HD23 | 2 | 5.41 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 2 | 5.41 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 13 | 5.41 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 8 | 5.41 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 19 | 5.41 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 19 | 5.41 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 19 | 5.41 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 19 | 5.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 19 | 5.41 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 19 | 5.41 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 19 | 5.41 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 19 | 5.41 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 11 | 5.41 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 11 | 5.41 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 12 | 5.41 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 6 | 5.41 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 6 | 5.41 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 14 | 5.41 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 14 | 5.41 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 14 | 5.41 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 17 | 5.41 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 17 | 5.41 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 1 | 5.41 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 8 | 5.41 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 8 | 5.41 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 8 | 5.41 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 7 | 5.41 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 15 | 5.41 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 15 | 5.41 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 15 | 5.41 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 17 | 5.41 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 19 | 5.41 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 15 | 5.41 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 17 | 5.41 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 17 | 5.41 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 17 | 5.41 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 10 | 5.41 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 4 | 5.41 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 15 | 5.41 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 15 | 5.41 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 17 | 5.41 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 17 | 5.41 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 17 | 5.41 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 17 | 5.41 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 17 | 5.41 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 17 | 5.41 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 1 | 5.41 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 1 | 5.41 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 1 | 5.41 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 19 | 5.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 19 | 5.41 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 19 | 5.41 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 4 | 5.41 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 4 | 5.41 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 3 | 5.41 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 3 | 5.41 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 17 | 5.41 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 9 | 5.41 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 9 | 5.41 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 5 | 5.41 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 5 | 5.41 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 11 | 5.41 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 11 | 5.41 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 11 | 5.41 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 11 | 5.41 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 11 | 5.41 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 11 | 5.41 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 7 | 5.41 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 7 | 5.41 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 19 | 5.41 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 2 | 5.41 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 2 | 5.41 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 2 | 5.41 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 18 | 5.41 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 18 | 5.41 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 18 | 5.41 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 18 | 5.41 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 18 | 5.41 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 18 | 5.41 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 1 | 5.41 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 1 | 5.41 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 1 | 5.41 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 12 | 5.41 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 12 | 5.41 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 12 | 5.41 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 10 | 5.41 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 20 | 5.41 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 3 | 5.41 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 3 | 5.41 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 3 | 5.41 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 3 | 5.41 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 3 | 5.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 3 | 5.41 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 20 | 5.41 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 20 | 5.41 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 20 | 5.41 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 14 | 5.41 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 18 | 5.41 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 5 | 5.41 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 3 | 5.41 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 3 | 5.41 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 3 | 5.41 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 1 | 5.41 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 20 | 5.41 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 19 | 5.41 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 18 | 5.41 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 18 | 5.41 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 18 | 5.41 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 12 | 5.41 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 12 | 5.41 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 12 | 5.41 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 16 | 5.41 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 16 | 5.41 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 16 | 5.41 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 17 | 5.41 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 17 | 5.41 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 17 | 5.41 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 5.41 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 5.41 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 5.41 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 6 | 5.41 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 8 | 5.41 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 15 | 5.41 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 3 | 5.41 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 1 | 5.41 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 3 | 5.41 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 3 | 5.41 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 3 | 5.41 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 14 | 5.41 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 17 | 5.41 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 15 | 5.41 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 11 | 5.41 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 11 | 5.41 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 11 | 5.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 15 | 5.41 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 15 | 5.41 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 15 | 5.41 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 19 | 5.41 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 19 | 5.41 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 19 | 5.41 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 19 | 5.41 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 19 | 5.41 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 19 | 5.41 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 19 | 5.41 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 19 | 5.41 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 19 | 5.41 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 2 | 5.41 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 2 | 5.41 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 2 | 5.41 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 1 | 5.41 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 1 | 5.41 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 1 | 5.41 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 1 | 5.41 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 14 | 5.41 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 7 | 5.41 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 7 | 5.41 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 16 | 5.41 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 14 | 5.41 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 5 | 5.41 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 5 | 5.41 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 5 | 5.41 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 5 | 5.41 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 5 | 5.41 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 5 | 5.41 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 12 | 5.41 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 5.41 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 5.41 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 10 | 5.41 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 10 | 5.41 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 10 | 5.41 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 9 | 5.41 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 17 | 5.41 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 13 | 5.41 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 4 | 5.41 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 4 | 5.41 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 5 | 5.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 12 | 5.41 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 12 | 5.41 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 12 | 5.41 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 10 | 5.41 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 20 | 5.41 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 3 | 5.41 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 3 | 5.41 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 3 | 5.41 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 3 | 5.41 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 3 | 5.41 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 3 | 5.41 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 20 | 5.41 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 20 | 5.41 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 20 | 5.41 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 14 | 5.41 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 18 | 5.41 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 5 | 5.41 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 3 | 5.41 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 3 | 5.41 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 3 | 5.41 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 1 | 5.41 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 20 | 5.41 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 7 | 5.41 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 19 | 5.41 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 12 | 5.41 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 12 | 5.41 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 12 | 5.41 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 18 | 5.41 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 18 | 5.41 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 18 | 5.41 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 15 | 5.41 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 18 | 5.41 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 18 | 5.41 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 18 | 5.41 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 18 | 5.41 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 12 | 5.41 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 12 | 5.41 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 12 | 5.41 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 13 | 5.41 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 13 | 5.41 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 13 | 5.41 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 13 | 5.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 13 | 5.41 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 13 | 5.41 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 13 | 5.41 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 13 | 5.41 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 13 | 5.41 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 16 | 5.41 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 16 | 5.41 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 16 | 5.41 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 17 | 5.41 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 17 | 5.41 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 17 | 5.41 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 10 | 5.41 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 20 | 5.41 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 20 | 5.41 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 5.41 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 5.41 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 5.41 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 6 | 5.41 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 17 | 5.4 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 14 | 5.4 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 9 | 5.4 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 9 | 5.4 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 2 | 5.4 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 2 | 5.4 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 10 | 5.4 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 10 | 5.4 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 10 | 5.4 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 10 | 5.4 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 10 | 5.4 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 10 | 5.4 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 1 | 5.4 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 1 | 5.4 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 19 | 5.4 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 19 | 5.4 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 6 | 5.4 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 6 | 5.4 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 6 | 5.4 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 6 | 5.4 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 5 | 5.4 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 5 | 5.4 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 18 | 5.4 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 18 | 5.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 17 | 5.4 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 17 | 5.4 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 10 | 5.4 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 10 | 5.4 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 6 | 5.4 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 6 | 5.4 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 6 | 5.4 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 6 | 5.4 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 6 | 5.4 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 6 | 5.4 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 8 | 5.4 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 8 | 5.4 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 15 | 5.4 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 15 | 5.4 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 11 | 5.4 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 11 | 5.4 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 4 | 5.4 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 4 | 5.4 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 9 | 5.4 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 9 | 5.4 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 9 | 5.4 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 9 | 5.4 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 9 | 5.4 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 9 | 5.4 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 14 | 5.4 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 14 | 5.4 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 5 | 5.4 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 5 | 5.4 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 5 | 5.4 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 5 | 5.4 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 5 | 5.4 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 5 | 5.4 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 4 | 5.4 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 4 | 5.4 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 4 | 5.4 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 4 | 5.4 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 4 | 5.4 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 4 | 5.4 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 11 | 5.4 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 11 | 5.4 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 11 | 5.4 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 11 | 5.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 5 | 5.4 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 5 | 5.4 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 8 | 5.4 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 8 | 5.4 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 8 | 5.4 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 8 | 5.4 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 7 | 5.4 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 7 | 5.4 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 7 | 5.4 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 7 | 5.4 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 11 | 5.4 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 11 | 5.4 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 11 | 5.4 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 11 | 5.4 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 13 | 5.4 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 13 | 5.4 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 13 | 5.4 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 13 | 5.4 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 18 | 5.4 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 18 | 5.4 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 2 | 5.4 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 2 | 5.4 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 18 | 5.4 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 18 | 5.4 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 1 | 5.4 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 1 | 5.4 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 1 | 5.4 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 2 | 5.4 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 9 | 5.4 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 20 | 5.4 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 20 | 5.4 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 20 | 5.4 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 10 | 5.4 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 11 | 5.4 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 15 | 5.4 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 5 | 5.4 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 3 | 5.4 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 13 | 5.4 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 16 | 5.4 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 7 | 5.4 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 7 | 5.4 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 18 | 5.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 18 | 5.4 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 18 | 5.4 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 16 | 5.4 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 16 | 5.4 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 16 | 5.4 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 17 | 5.4 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 8 | 5.4 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 16 | 5.4 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 13 | 5.4 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 15 | 5.4 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 15 | 5.4 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 2 | 5.4 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 2 | 5.4 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 2 | 5.4 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 5 | 5.4 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 5 | 5.4 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 5 | 5.4 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 7 | 5.4 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 6 | 5.4 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 6 | 5.4 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 13 | 5.4 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 13 | 5.4 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 15 | 5.4 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 15 | 5.4 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 7 | 5.4 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 1 | 5.4 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 6 | 5.4 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 14 | 5.4 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 14 | 5.4 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 14 | 5.4 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 14 | 5.4 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 14 | 5.4 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 14 | 5.4 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 17 | 5.4 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 2 | 5.4 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 14 | 5.4 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 9 | 5.4 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 2 | 5.4 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 2 | 5.4 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 2 | 5.4 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 3 | 5.4 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 3 | 5.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 3 | 5.4 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 15 | 5.4 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 15 | 5.4 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 1 | 5.4 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 12 | 5.4 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 12 | 5.4 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 12 | 5.4 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 12 | 5.4 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 12 | 5.4 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 12 | 5.4 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 20 | 5.4 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 5 | 5.4 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 14 | 5.4 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 9 | 5.4 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 9 | 5.4 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 9 | 5.4 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 10 | 5.4 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 10 | 5.4 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 10 | 5.4 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 8 | 5.4 |
| (1,6698) | 1:16:A:SER:H | 1:20:A:GLY:H | 18 | 5.4 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 14 | 5.4 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 14 | 5.4 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 14 | 5.4 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 15 | 5.4 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 15 | 5.4 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 15 | 5.4 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 8 | 5.4 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 12 | 5.4 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 18 | 5.4 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 15 | 5.4 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 10 | 5.4 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 10 | 5.4 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 19 | 5.4 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 19 | 5.4 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 19 | 5.4 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 19 | 5.4 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 19 | 5.4 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 19 | 5.4 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 17 | 5.4 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 17 | 5.4 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 17 | 5.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 3 | 5.4 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 3 | 5.4 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 3 | 5.4 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 3 | 5.4 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 3 | 5.4 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 3 | 5.4 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 3 | 5.4 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 3 | 5.4 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 3 | 5.4 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 2 | 5.4 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 20 | 5.4 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 4 | 5.4 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 3 | 5.4 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 3 | 5.4 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 3 | 5.4 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 19 | 5.4 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 19 | 5.4 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 19 | 5.4 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 16 | 5.4 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 16 | 5.4 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 16 | 5.4 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 19 | 5.4 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 7 | 5.4 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 12 | 5.4 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 12 | 5.4 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 12 | 5.4 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 12 | 5.4 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 13 | 5.4 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 13 | 5.4 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 13 | 5.4 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 13 | 5.4 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 12 | 5.4 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 12 | 5.4 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 12 | 5.4 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 12 | 5.4 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 12 | 5.4 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 12 | 5.4 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 1 | 5.4 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 1 | 5.4 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 1 | 5.4 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 1 | 5.4 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 8 | 5.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 8 | 5.4 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 8 | 5.4 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 8 | 5.4 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 5 | 5.4 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 10 | 5.4 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 10 | 5.4 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 10 | 5.4 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 10 | 5.4 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 10 | 5.4 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 10 | 5.4 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 15 | 5.4 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 1 | 5.4 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 9 | 5.4 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 9 | 5.4 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 9 | 5.4 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 9 | 5.4 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 19 | 5.4 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 19 | 5.4 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 5 | 5.4 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 5 | 5.4 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 18 | 5.4 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 18 | 5.4 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 10 | 5.4 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 10 | 5.4 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 10 | 5.4 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 12 | 5.4 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 3 | 5.4 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 14 | 5.4 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 11 | 5.4 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 9 | 5.4 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 9 | 5.4 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 9 | 5.4 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 9 | 5.4 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 9 | 5.4 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 9 | 5.4 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 19 | 5.4 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 6 | 5.4 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 6 | 5.4 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 6 | 5.4 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 4 | 5.4 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 4 | 5.4 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 4 | 5.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 4 | 5.4 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 4 | 5.4 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 4 | 5.4 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 3 | 5.4 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 16 | 5.4 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 6 | 5.4 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 11 | 5.4 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 11 | 5.4 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 11 | 5.4 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 11 | 5.4 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 14 | 5.4 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 3 | 5.4 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 3 | 5.4 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 3 | 5.4 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 3 | 5.4 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 3 | 5.4 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 3 | 5.4 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 20 | 5.4 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 12 | 5.4 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 18 | 5.4 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 18 | 5.4 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 6 | 5.4 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 6 | 5.4 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 5 | 5.4 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 14 | 5.4 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 9 | 5.4 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 9 | 5.4 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 9 | 5.4 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 10 | 5.4 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 10 | 5.4 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 10 | 5.4 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 8 | 5.4 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 6 | 5.4 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 6 | 5.4 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 6 | 5.4 |
| (1,2604) | 1:16:A:SER:H | 1:20:A:GLY:H | 18 | 5.4 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 11 | 5.4 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 11 | 5.4 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 11 | 5.4 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 14 | 5.4 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 14 | 5.4 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 14 | 5.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 15 | 5.4 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 15 | 5.4 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 15 | 5.4 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 8 | 5.4 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 12 | 5.4 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 18 | 5.4 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 14 | 5.4 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 14 | 5.4 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 14 | 5.4 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 8 | 5.4 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 8 | 5.4 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 8 | 5.4 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 15 | 5.4 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 15 | 5.4 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 15 | 5.4 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 3 | 5.4 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 3 | 5.4 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 3 | 5.4 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 10 | 5.4 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 10 | 5.4 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 19 | 5.4 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 19 | 5.4 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 19 | 5.4 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 19 | 5.4 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 19 | 5.4 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 19 | 5.4 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 19 | 5.39 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 5 | 5.39 |
| (4,107) | 1:90:A:ASN:CB | 1:6:A:LYS:H | 2 | 5.39 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 5 | 5.39 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 5 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 17 | 5.39 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 17 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 17 | 5.39 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 9 | 5.39 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 9 | 5.39 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 9 | 5.39 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 9 | 5.39 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 9 | 5.39 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 9 | 5.39 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 9 | 5.39 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 9 | 5.39 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 8 | 5.39 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 8 | 5.39 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 5.39 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 5.39 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 5 | 5.39 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 5 | 5.39 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 5 | 5.39 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 5 | 5.39 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 4 | 5.39 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 4 | 5.39 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 4 | 5.39 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 4 | 5.39 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 17 | 5.39 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 17 | 5.39 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 17 | 5.39 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 17 | 5.39 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 8 | 5.39 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 8 | 5.39 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 8 | 5.39 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 8 | 5.39 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 8 | 5.39 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 8 | 5.39 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 6 | 5.39 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 6 | 5.39 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 1 | 5.39 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 1 | 5.39 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 1 | 5.39 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 1 | 5.39 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 9 | 5.39 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 9 | 5.39 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 13 | 5.39 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 13 | 5.39 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 13 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 13 | 5.39 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 13 | 5.39 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 13 | 5.39 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 19 | 5.39 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 19 | 5.39 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 16 | 5.39 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 16 | 5.39 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 3 | 5.39 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 3 | 5.39 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 10 | 5.39 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 10 | 5.39 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 7 | 5.39 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 7 | 5.39 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 7 | 5.39 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 7 | 5.39 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 7 | 5.39 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 7 | 5.39 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB2 | 9 | 5.39 |
| (1,8846) | 1:60:A:LEU:HD11 | 1:61:A:LEU:HB3 | 9 | 5.39 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB2 | 9 | 5.39 |
| (1,8846) | 1:60:A:LEU:HD12 | 1:61:A:LEU:HB3 | 9 | 5.39 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB2 | 9 | 5.39 |
| (1,8846) | 1:60:A:LEU:HD13 | 1:61:A:LEU:HB3 | 9 | 5.39 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 14 | 5.39 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 14 | 5.39 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 14 | 5.39 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 14 | 5.39 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 19 | 5.39 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 19 | 5.39 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 19 | 5.39 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 19 | 5.39 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 19 | 5.39 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 19 | 5.39 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 2 | 5.39 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 2 | 5.39 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 15 | 5.39 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 15 | 5.39 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 15 | 5.39 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 15 | 5.39 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 9 | 5.39 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 9 | 5.39 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 17 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 17 | 5.39 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 10 | 5.39 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 10 | 5.39 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 10 | 5.39 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 10 | 5.39 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 14 | 5.39 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 14 | 5.39 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 14 | 5.39 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 14 | 5.39 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 14 | 5.39 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 14 | 5.39 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 3 | 5.39 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 3 | 5.39 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 3 | 5.39 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 16 | 5.39 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 16 | 5.39 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 6 | 5.39 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 10 | 5.39 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 10 | 5.39 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 10 | 5.39 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 10 | 5.39 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 10 | 5.39 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 10 | 5.39 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 20 | 5.39 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 5 | 5.39 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 5 | 5.39 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 15 | 5.39 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 15 | 5.39 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 18 | 5.39 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 18 | 5.39 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 10 | 5.39 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 10 | 5.39 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 10 | 5.39 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 20 | 5.39 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 16 | 5.39 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 16 | 5.39 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 3 | 5.39 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 3 | 5.39 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 3 | 5.39 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 20 | 5.39 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 19 | 5.39 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 19 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 19 | 5.39 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 19 | 5.39 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 19 | 5.39 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 19 | 5.39 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 19 | 5.39 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 19 | 5.39 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 19 | 5.39 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 16 | 5.39 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 16 | 5.39 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 16 | 5.39 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 14 | 5.39 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 14 | 5.39 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 14 | 5.39 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 19 | 5.39 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 10 | 5.39 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 12 | 5.39 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 4 | 5.39 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 4 | 5.39 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 4 | 5.39 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 10 | 5.39 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 10 | 5.39 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 10 | 5.39 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 16 | 5.39 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 9 | 5.39 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 9 | 5.39 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 9 | 5.39 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 9 | 5.39 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 9 | 5.39 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 9 | 5.39 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 9 | 5.39 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 9 | 5.39 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 9 | 5.39 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 12 | 5.39 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 12 | 5.39 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 12 | 5.39 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 12 | 5.39 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 12 | 5.39 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 12 | 5.39 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 9 | 5.39 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 9 | 5.39 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 9 | 5.39 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 20 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 10 | 5.39 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 10 | 5.39 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 10 | 5.39 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 10 | 5.39 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 10 | 5.39 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 10 | 5.39 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 8 | 5.39 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 8 | 5.39 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 4 | 5.39 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 11 | 5.39 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 16 | 5.39 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 14 | 5.39 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 11 | 5.39 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 17 | 5.39 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 12 | 5.39 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 3 | 5.39 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 9 | 5.39 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 5 | 5.39 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 5 | 5.39 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 5 | 5.39 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 5 | 5.39 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 5 | 5.39 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 5 | 5.39 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 12 | 5.39 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 12 | 5.39 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 18 | 5.39 |
| (1,7168) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 6 | 5.39 |
| (1,7168) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 6 | 5.39 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 19 | 5.39 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 18 | 5.39 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 18 | 5.39 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 4 | 5.39 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 4 | 5.39 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 4 | 5.39 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 4 | 5.39 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 4 | 5.39 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 4 | 5.39 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 4 | 5.39 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 4 | 5.39 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 4 | 5.39 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 13 | 5.39 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 17 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 13 | 5.39 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 13 | 5.39 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 13 | 5.39 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 13 | 5.39 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 13 | 5.39 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 13 | 5.39 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 3 | 5.39 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 13 | 5.39 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 13 | 5.39 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 13 | 5.39 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 18 | 5.39 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 18 | 5.39 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 18 | 5.39 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 4 | 5.39 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 4 | 5.39 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 4 | 5.39 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 20 | 5.39 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 20 | 5.39 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 20 | 5.39 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 13 | 5.39 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 1 | 5.39 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 1 | 5.39 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 8 | 5.39 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 2 | 5.39 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 2 | 5.39 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 2 | 5.39 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 3 | 5.39 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 3 | 5.39 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 6 | 5.39 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 6 | 5.39 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 6 | 5.39 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 6 | 5.39 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 6 | 5.39 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 6 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 4 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 4 | 5.39 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 4 | 5.39 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 5 | 5.39 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 5 | 5.39 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 5 | 5.39 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 20 | 5.39 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 17 | 5.39 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 16 | 5.39 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 7 | 5.39 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 15 | 5.39 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 19 | 5.39 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 2 | 5.39 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 9 | 5.39 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 9 | 5.39 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 9 | 5.39 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 9 | 5.39 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 8 | 5.39 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 8 | 5.39 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 5.39 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 5.39 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 18 | 5.39 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 4 | 5.39 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 4 | 5.39 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 4 | 5.39 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 4 | 5.39 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 14 | 5.39 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 8 | 5.39 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 8 | 5.39 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 8 | 5.39 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 8 | 5.39 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 8 | 5.39 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 8 | 5.39 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 8 | 5.39 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 6 | 5.39 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 6 | 5.39 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 6 | 5.39 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 6 | 5.39 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 6 | 5.39 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 6 | 5.39 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 19 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 19 | 5.39 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 16 | 5.39 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 18 | 5.39 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 16 | 5.39 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 16 | 5.39 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 14 | 5.39 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 10 | 5.39 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 10 | 5.39 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 10 | 5.39 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 2 | 5.39 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 10 | 5.39 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 10 | 5.39 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 10 | 5.39 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 3 | 5.39 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 2 | 5.39 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 15 | 5.39 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 1 | 5.39 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 9 | 5.39 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 9 | 5.39 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 14 | 5.39 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 14 | 5.39 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 14 | 5.39 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 14 | 5.39 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 14 | 5.39 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 14 | 5.39 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 16 | 5.39 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 16 | 5.39 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 16 | 5.39 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 16 | 5.39 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 16 | 5.39 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 16 | 5.39 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 13 | 5.39 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 13 | 5.39 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 13 | 5.39 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 18 | 5.39 |
| (1,3284) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 6 | 5.39 |
| (1,3284) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 6 | 5.39 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 19 | 5.39 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 18 | 5.39 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 18 | 5.39 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 4 | 5.39 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 4 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 4 | 5.39 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 4 | 5.39 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 4 | 5.39 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 4 | 5.39 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 4 | 5.39 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 4 | 5.39 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 4 | 5.39 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 13 | 5.39 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 17 | 5.39 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 13 | 5.39 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 13 | 5.39 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 13 | 5.39 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 13 | 5.39 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 13 | 5.39 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 13 | 5.39 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 3 | 5.39 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 13 | 5.39 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 13 | 5.39 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 13 | 5.39 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 18 | 5.39 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 18 | 5.39 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 18 | 5.39 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 4 | 5.39 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 4 | 5.39 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 4 | 5.39 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 20 | 5.39 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 20 | 5.39 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 20 | 5.39 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 4 | 5.39 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 4 | 5.39 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 4 | 5.39 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 13 | 5.39 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 4 | 5.39 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 4 | 5.39 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 1 | 5.39 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 1 | 5.39 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 8 | 5.39 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 7 | 5.39 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 2 | 5.39 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 2 | 5.39 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 2 | 5.39 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 3 | 5.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 3 | 5.39 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 6 | 5.39 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 6 | 5.39 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 6 | 5.39 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 6 | 5.39 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 6 | 5.39 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 6 | 5.39 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 19 | 5.39 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 19 | 5.39 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 19 | 5.39 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 19 | 5.39 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 19 | 5.39 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 19 | 5.39 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 7 | 5.39 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 1 | 5.38 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 2 | 5.38 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 20 | 5.38 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 20 | 5.38 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 3 | 5.38 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 3 | 5.38 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 3 | 5.38 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 3 | 5.38 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 3 | 5.38 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 3 | 5.38 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 13 | 5.38 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 13 | 5.38 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 13 | 5.38 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 13 | 5.38 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 13 | 5.38 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 13 | 5.38 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 19 | 5.38 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 19 | 5.38 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 15 | 5.38 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 15 | 5.38 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 12 | 5.38 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 12 | 5.38 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 18 | 5.38 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 18 | 5.38 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 19 | 5.38 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 19 | 5.38 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 5 | 5.38 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 5 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 5 | 5.38 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 5 | 5.38 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 5 | 5.38 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 5 | 5.38 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 18 | 5.38 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 18 | 5.38 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 18 | 5.38 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 18 | 5.38 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 4 | 5.38 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 4 | 5.38 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 5 | 5.38 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 5 | 5.38 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 15 | 5.38 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 15 | 5.38 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 19 | 5.38 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 19 | 5.38 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 19 | 5.38 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 19 | 5.38 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 19 | 5.38 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 19 | 5.38 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 19 | 5.38 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 19 | 5.38 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 19 | 5.38 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 19 | 5.38 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 10 | 5.38 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 10 | 5.38 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 10 | 5.38 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 10 | 5.38 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 10 | 5.38 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 10 | 5.38 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 10 | 5.38 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 10 | 5.38 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 6 | 5.38 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 6 | 5.38 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 7 | 5.38 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 7 | 5.38 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 10 | 5.38 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 10 | 5.38 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 10 | 5.38 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 10 | 5.38 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 16 | 5.38 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 16 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 12 | 5.38 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 12 | 5.38 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 19 | 5.38 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 19 | 5.38 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 11 | 5.38 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 11 | 5.38 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 7 | 5.38 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 7 | 5.38 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 5 | 5.38 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 5 | 5.38 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 14 | 5.38 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 14 | 5.38 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 15 | 5.38 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 15 | 5.38 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 7 | 5.38 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 7 | 5.38 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 2 | 5.38 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 2 | 5.38 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 20 | 5.38 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 20 | 5.38 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 9 | 5.38 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 9 | 5.38 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 9 | 5.38 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 9 | 5.38 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 9 | 5.38 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 9 | 5.38 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 16 | 5.38 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 16 | 5.38 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 16 | 5.38 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 16 | 5.38 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 6 | 5.38 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 6 | 5.38 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 5 | 5.38 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 14 | 5.38 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 13 | 5.38 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 13 | 5.38 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 13 | 5.38 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 6 | 5.38 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 6 | 5.38 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 6 | 5.38 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 16 | 5.38 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 16 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 16 | 5.38 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 15 | 5.38 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 15 | 5.38 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 15 | 5.38 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 15 | 5.38 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 15 | 5.38 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 15 | 5.38 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 20 | 5.38 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 6 | 5.38 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 6 | 5.38 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 6 | 5.38 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 6 | 5.38 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 6 | 5.38 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 6 | 5.38 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 19 | 5.38 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 4 | 5.38 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 4 | 5.38 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 4 | 5.38 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 4 | 5.38 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 4 | 5.38 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 4 | 5.38 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 13 | 5.38 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 1 | 5.38 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 1 | 5.38 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 7 | 5.38 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 7 | 5.38 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 7 | 5.38 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 19 | 5.38 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 3 | 5.38 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 6 | 5.38 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 3 | 5.38 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 3 | 5.38 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 3 | 5.38 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 11 | 5.38 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 11 | 5.38 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 11 | 5.38 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 8 | 5.38 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 8 | 5.38 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 8 | 5.38 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 7 | 5.38 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 7 | 5.38 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 7 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 10 | 5.38 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 12 | 5.38 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 4 | 5.38 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 18 | 5.38 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 18 | 5.38 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 18 | 5.38 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 10 | 5.38 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 20 | 5.38 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 11 | 5.38 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 11 | 5.38 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 11 | 5.38 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 13 | 5.38 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 3 | 5.38 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 4 | 5.38 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 4 | 5.38 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 16 | 5.38 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 10 | 5.38 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 10 | 5.38 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 10 | 5.38 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 10 | 5.38 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 10 | 5.38 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 10 | 5.38 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 10 | 5.38 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 10 | 5.38 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 10 | 5.38 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 10 | 5.38 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 10 | 5.38 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 10 | 5.38 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 17 | 5.38 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 17 | 5.38 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 17 | 5.38 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 17 | 5.38 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 17 | 5.38 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 17 | 5.38 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 17 | 5.38 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 17 | 5.38 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 17 | 5.38 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 12 | 5.38 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 3 | 5.38 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 5 | 5.38 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 6 | 5.38 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 6 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 6 | 5.38 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 4 | 5.38 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 2 | 5.38 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 18 | 5.38 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 15 | 5.38 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 17 | 5.38 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 3 | 5.38 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 13 | 5.38 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 13 | 5.38 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 13 | 5.38 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 2 | 5.38 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 14 | 5.38 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 12 | 5.38 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 8 | 5.38 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 10 | 5.38 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 4 | 5.38 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 10 | 5.38 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 12 | 5.38 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 12 | 5.38 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 12 | 5.38 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 1 | 5.38 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 1 | 5.38 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 1 | 5.38 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 6 | 5.38 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 6 | 5.38 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 6 | 5.38 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 12 | 5.38 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 12 | 5.38 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 12 | 5.38 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 14 | 5.38 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 1 | 5.38 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 1 | 5.38 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 1 | 5.38 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 4 | 5.38 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 4 | 5.38 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 4 | 5.38 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 11 | 5.38 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 11 | 5.38 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 11 | 5.38 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 3 | 5.38 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 19 | 5.38 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 19 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 19 | 5.38 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 3 | 5.38 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 3 | 5.38 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 3 | 5.38 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 3 | 5.38 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 4 | 5.38 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 4 | 5.38 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 4 | 5.38 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 12 | 5.38 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 12 | 5.38 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 12 | 5.38 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 13 | 5.38 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 13 | 5.38 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 13 | 5.38 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 11 | 5.38 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 11 | 5.38 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 11 | 5.38 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 7 | 5.38 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 9 | 5.38 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 9 | 5.38 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 7 | 5.38 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 3 | 5.38 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 17 | 5.38 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 17 | 5.38 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 17 | 5.38 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 14 | 5.38 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 14 | 5.38 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 14 | 5.38 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 7 | 5.38 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 8 | 5.38 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 9 | 5.38 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 9 | 5.38 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 9 | 5.38 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 8 | 5.38 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 13 | 5.38 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 4 | 5.38 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 4 | 5.38 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 4 | 5.38 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 10 | 5.38 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 16 | 5.38 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 16 | 5.38 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 16 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 4 | 5.38 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 4 | 5.38 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 4 | 5.38 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 3 | 5.38 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 3 | 5.38 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 3 | 5.38 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 7 | 5.38 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 7 | 5.38 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 7 | 5.38 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 17 | 5.38 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 17 | 5.38 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 6 | 5.38 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 6 | 5.38 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 3 | 5.38 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 13 | 5.38 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 13 | 5.38 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 13 | 5.38 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 13 | 5.38 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 13 | 5.38 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 13 | 5.38 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 19 | 5.38 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 19 | 5.38 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 5 | 5.38 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 5 | 5.38 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 5 | 5.38 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 5 | 5.38 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 5 | 5.38 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 5 | 5.38 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 18 | 5.38 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 18 | 5.38 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 18 | 5.38 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 18 | 5.38 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 3 | 5.38 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 4 | 5.38 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 4 | 5.38 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 7 | 5.38 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 3 | 5.38 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 1 | 5.38 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 1 | 5.38 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 1 | 5.38 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 19 | 5.38 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 8 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 6 | 5.38 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 6 | 5.38 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 10 | 5.38 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 10 | 5.38 |
| (1,4138) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 5 | 5.38 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 10 | 5.38 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 12 | 5.38 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 12 | 5.38 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 4 | 5.38 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 11 | 5.38 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 9 | 5.38 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 10 | 5.38 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 7 | 5.38 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 7 | 5.38 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 11 | 5.38 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 5.38 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 2 | 5.38 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 2 | 5.38 |
| (1,3596) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 2 | 5.38 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 9 | 5.38 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 9 | 5.38 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 9 | 5.38 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 9 | 5.38 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 9 | 5.38 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 9 | 5.38 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 11 | 5.38 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 3 | 5.38 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 13 | 5.38 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 13 | 5.38 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 13 | 5.38 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 2 | 5.38 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 14 | 5.38 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 12 | 5.38 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 8 | 5.38 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 10 | 5.38 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 15 | 5.38 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 15 | 5.38 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 4 | 5.38 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 10 | 5.38 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 13 | 5.38 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 13 | 5.38 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 12 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 12 | 5.38 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 12 | 5.38 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 1 | 5.38 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 1 | 5.38 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 1 | 5.38 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 6 | 5.38 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 6 | 5.38 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 6 | 5.38 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 12 | 5.38 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 12 | 5.38 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 12 | 5.38 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 14 | 5.38 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 1 | 5.38 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 1 | 5.38 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 1 | 5.38 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 4 | 5.38 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 4 | 5.38 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 4 | 5.38 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 11 | 5.38 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 11 | 5.38 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 11 | 5.38 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 3 | 5.38 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 5 | 5.38 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 5 | 5.38 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 5 | 5.38 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 3 | 5.38 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 3 | 5.38 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 3 | 5.38 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 19 | 5.38 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 19 | 5.38 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 19 | 5.38 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 3 | 5.38 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 3 | 5.38 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 3 | 5.38 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 3 | 5.38 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 4 | 5.38 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 4 | 5.38 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 4 | 5.38 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 12 | 5.38 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 12 | 5.38 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 12 | 5.38 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 13 | 5.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 13 | 5.38 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 13 | 5.38 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 11 | 5.38 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 11 | 5.38 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 11 | 5.38 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 7 | 5.38 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 9 | 5.38 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 9 | 5.38 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 7 | 5.38 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 3 | 5.38 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 17 | 5.38 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 17 | 5.38 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 17 | 5.38 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 6 | 5.38 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 13 | 5.38 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 13 | 5.38 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 13 | 5.38 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 14 | 5.38 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 14 | 5.38 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 14 | 5.38 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 6 | 5.38 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 11 | 5.38 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 7 | 5.38 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 8 | 5.38 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 1 | 5.38 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 11 | 5.37 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 11 | 5.37 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 8 | 5.37 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 5 | 5.37 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 5 | 5.37 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 2 | 5.37 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 11 | 5.37 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 17 | 5.37 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 17 | 5.37 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 17 | 5.37 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 17 | 5.37 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 17 | 5.37 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 17 | 5.37 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 19 | 5.37 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 19 | 5.37 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 4 | 5.37 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 4 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 4 | 5.37 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 4 | 5.37 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 4 | 5.37 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 4 | 5.37 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 4 | 5.37 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 4 | 5.37 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 5 | 5.37 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 5 | 5.37 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 13 | 5.37 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 13 | 5.37 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 13 | 5.37 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 13 | 5.37 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 13 | 5.37 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 13 | 5.37 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 13 | 5.37 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 13 | 5.37 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 4 | 5.37 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 4 | 5.37 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 4 | 5.37 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 4 | 5.37 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 9 | 5.37 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 9 | 5.37 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 2 | 5.37 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 2 | 5.37 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 2 | 5.37 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 2 | 5.37 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 18 | 5.37 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 18 | 5.37 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 18 | 5.37 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 18 | 5.37 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 9 | 5.37 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 9 | 5.37 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 1 | 5.37 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 1 | 5.37 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 1 | 5.37 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 1 | 5.37 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 1 | 5.37 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 1 | 5.37 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 12 | 5.37 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 12 | 5.37 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 12 | 5.37 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 12 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 12 | 5.37 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 12 | 5.37 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 7 | 5.37 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 7 | 5.37 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 7 | 5.37 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 7 | 5.37 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 7 | 5.37 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 7 | 5.37 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 7 | 5.37 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 7 | 5.37 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 19 | 5.37 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 19 | 5.37 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 15 | 5.37 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 15 | 5.37 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 14 | 5.37 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 14 | 5.37 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 2 | 5.37 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 2 | 5.37 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 1 | 5.37 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 1 | 5.37 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 11 | 5.37 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 11 | 5.37 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 17 | 5.37 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 17 | 5.37 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 8 | 5.37 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 8 | 5.37 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 8 | 5.37 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 8 | 5.37 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 19 | 5.37 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 19 | 5.37 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 19 | 5.37 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 19 | 5.37 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 19 | 5.37 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 19 | 5.37 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 2 | 5.37 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 2 | 5.37 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 17 | 5.37 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 17 | 5.37 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 17 | 5.37 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 17 | 5.37 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 12 | 5.37 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 12 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 12 | 5.37 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 12 | 5.37 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 19 | 5.37 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 19 | 5.37 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 19 | 5.37 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 19 | 5.37 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 3 | 5.37 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 3 | 5.37 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 3 | 5.37 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 3 | 5.37 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 11 | 5.37 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 11 | 5.37 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 11 | 5.37 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 11 | 5.37 |
| (1,8524) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 11 | 5.37 |
| (1,8524) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 11 | 5.37 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 1 | 5.37 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 7 | 5.37 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 2 | 5.37 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 8 | 5.37 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 3 | 5.37 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 3 | 5.37 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 3 | 5.37 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 18 | 5.37 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 6 | 5.37 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 19 | 5.37 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 18 | 5.37 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 18 | 5.37 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 18 | 5.37 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 20 | 5.37 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 6 | 5.37 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 6 | 5.37 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 16 | 5.37 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 16 | 5.37 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 16 | 5.37 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 16 | 5.37 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 16 | 5.37 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 16 | 5.37 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 16 | 5.37 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 16 | 5.37 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 16 | 5.37 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 12 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 12 | 5.37 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 12 | 5.37 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 5 | 5.37 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 5 | 5.37 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 5 | 5.37 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 17 | 5.37 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 17 | 5.37 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 17 | 5.37 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 4 | 5.37 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 4 | 5.37 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 6 | 5.37 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 2 | 5.37 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 18 | 5.37 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 6 | 5.37 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 7 | 5.37 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 19 | 5.37 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 10 | 5.37 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 10 | 5.37 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 10 | 5.37 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 14 | 5.37 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 14 | 5.37 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 14 | 5.37 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 20 | 5.37 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 20 | 5.37 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 11 | 5.37 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 11 | 5.37 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 3 | 5.37 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 3 | 5.37 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 10 | 5.37 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 10 | 5.37 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 10 | 5.37 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 3 | 5.37 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 17 | 5.37 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 17 | 5.37 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 1 | 5.37 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 20 | 5.37 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 20 | 5.37 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 20 | 5.37 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 3 | 5.37 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 3 | 5.37 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 3 | 5.37 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 6 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 6 | 5.37 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 6 | 5.37 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 6 | 5.37 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 6 | 5.37 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 6 | 5.37 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 6 | 5.37 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 6 | 5.37 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 6 | 5.37 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 1 | 5.37 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 1 | 5.37 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 1 | 5.37 |
| (1,7753) | 1:55:A:VAL:HA | 1:57:A:CYS:H | 3 | 5.37 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 11 | 5.37 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 13 | 5.37 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 13 | 5.37 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 8 | 5.37 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 8 | 5.37 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 8 | 5.37 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 8 | 5.37 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 3 | 5.37 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 17 | 5.37 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 9 | 5.37 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 9 | 5.37 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 9 | 5.37 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 19 | 5.37 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 19 | 5.37 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 11 | 5.37 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 11 | 5.37 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 8 | 5.37 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 8 | 5.37 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 8 | 5.37 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 14 | 5.37 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 14 | 5.37 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 14 | 5.37 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 13 | 5.37 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 14 | 5.37 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 14 | 5.37 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 19 | 5.37 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 11 | 5.37 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 11 | 5.37 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 11 | 5.37 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 11 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 11 | 5.37 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 2 | 5.37 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 2 | 5.37 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 7 | 5.37 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 7 | 5.37 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 15 | 5.37 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 18 | 5.37 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 18 | 5.37 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 18 | 5.37 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 12 | 5.37 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 7 | 5.37 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 16 | 5.37 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 16 | 5.37 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 10 | 5.37 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 10 | 5.37 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 10 | 5.37 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 6 | 5.37 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 1 | 5.37 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 11 | 5.37 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 10 | 5.37 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 6 | 5.37 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 1 | 5.37 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 1 | 5.37 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 1 | 5.37 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 6 | 5.37 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 7 | 5.37 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 7 | 5.37 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 7 | 5.37 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 16 | 5.37 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 16 | 5.37 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 16 | 5.37 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 9 | 5.37 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 14 | 5.37 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 6 | 5.37 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 2 | 5.37 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 2 | 5.37 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 2 | 5.37 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 20 | 5.37 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 20 | 5.37 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 19 | 5.37 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 19 | 5.37 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 19 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 10 | 5.37 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 14 | 5.37 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 15 | 5.37 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 5.37 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 14 | 5.37 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 19 | 5.37 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 19 | 5.37 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 19 | 5.37 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 2 | 5.37 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 2 | 5.37 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 2 | 5.37 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 3 | 5.37 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 3 | 5.37 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 3 | 5.37 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 13 | 5.37 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 13 | 5.37 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 13 | 5.37 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 20 | 5.37 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 12 | 5.37 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 12 | 5.37 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 12 | 5.37 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 7 | 5.37 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 7 | 5.37 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 4 | 5.37 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 4 | 5.37 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 4 | 5.37 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 4 | 5.37 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 4 | 5.37 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 4 | 5.37 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 13 | 5.37 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 13 | 5.37 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 13 | 5.37 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 13 | 5.37 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 18 | 5.37 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 18 | 5.37 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 8 | 5.37 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 2 | 5.37 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 2 | 5.37 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 2 | 5.37 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 2 | 5.37 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 18 | 5.37 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 18 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 18 | 5.37 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 18 | 5.37 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 12 | 5.37 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 12 | 5.37 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 12 | 5.37 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 12 | 5.37 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 12 | 5.37 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 12 | 5.37 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 18 | 5.37 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 17 | 5.37 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 17 | 5.37 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 16 | 5.37 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 7 | 5.37 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 7 | 5.37 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 7 | 5.37 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 10 | 5.37 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 10 | 5.37 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 10 | 5.37 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 10 | 5.37 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 6 | 5.37 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 6 | 5.37 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 6 | 5.37 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 14 | 5.37 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 4 | 5.37 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 15 | 5.37 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 8 | 5.37 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 8 | 5.37 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 8 | 5.37 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 8 | 5.37 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 19 | 5.37 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 19 | 5.37 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 19 | 5.37 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 19 | 5.37 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 19 | 5.37 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 19 | 5.37 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 20 | 5.37 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 5.37 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 17 | 5.37 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 17 | 5.37 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 17 | 5.37 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 17 | 5.37 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 12 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 8 | 5.37 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 7 | 5.37 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 7 | 5.37 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 7 | 5.37 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 7 | 5.37 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 2 | 5.37 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 2 | 5.37 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 2 | 5.37 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 3 | 5.37 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 3 | 5.37 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 11 | 5.37 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 11 | 5.37 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 11 | 5.37 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 11 | 5.37 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 11 | 5.37 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 2 | 5.37 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 2 | 5.37 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 7 | 5.37 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 7 | 5.37 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 15 | 5.37 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 18 | 5.37 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 18 | 5.37 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 18 | 5.37 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 12 | 5.37 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 7 | 5.37 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 16 | 5.37 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 16 | 5.37 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 10 | 5.37 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 10 | 5.37 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 10 | 5.37 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 6 | 5.37 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 1 | 5.37 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 14 | 5.37 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 14 | 5.37 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 14 | 5.37 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 11 | 5.37 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 10 | 5.37 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 12 | 5.37 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 6 | 5.37 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 13 | 5.37 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 1 | 5.37 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 1 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 1 | 5.37 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 6 | 5.37 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 7 | 5.37 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 7 | 5.37 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 7 | 5.37 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 16 | 5.37 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 16 | 5.37 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 16 | 5.37 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 17 | 5.37 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 17 | 5.37 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 17 | 5.37 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 18 | 5.37 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 18 | 5.37 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 13 | 5.37 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 13 | 5.37 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 13 | 5.37 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 13 | 5.37 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 13 | 5.37 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 13 | 5.37 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 14 | 5.37 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 6 | 5.37 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 2 | 5.37 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 2 | 5.37 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 2 | 5.37 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 15 | 5.37 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 20 | 5.37 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 20 | 5.37 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 13 | 5.37 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 13 | 5.37 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 8 | 5.37 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 8 | 5.37 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 8 | 5.37 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 12 | 5.37 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 12 | 5.37 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 12 | 5.37 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 13 | 5.37 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 1 | 5.37 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 12 | 5.37 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 19 | 5.37 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 19 | 5.37 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 19 | 5.37 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 4 | 5.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 4 | 5.37 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 4 | 5.37 |
| (4,323) | 1:131:A:GLN:CB | 1:29:A:THR:H | 19 | 5.36 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 12 | 5.36 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 11 | 5.36 |
| (4,49) | 1:15:A:MET:CB | 1:106:A:LEU:H | 14 | 5.36 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 1 | 5.36 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 1 | 5.36 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 19 | 5.36 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 19 | 5.36 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 19 | 5.36 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 19 | 5.36 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 19 | 5.36 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 19 | 5.36 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 1 | 5.36 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 1 | 5.36 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 17 | 5.36 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 17 | 5.36 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 8 | 5.36 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 8 | 5.36 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 16 | 5.36 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 16 | 5.36 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 14 | 5.36 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 14 | 5.36 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 14 | 5.36 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 14 | 5.36 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 15 | 5.36 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 15 | 5.36 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 15 | 5.36 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 15 | 5.36 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 15 | 5.36 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 15 | 5.36 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 15 | 5.36 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 15 | 5.36 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 15 | 5.36 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 15 | 5.36 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 15 | 5.36 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 15 | 5.36 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 8 | 5.36 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 8 | 5.36 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 17 | 5.36 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 17 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 11 | 5.36 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 11 | 5.36 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 16 | 5.36 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 16 | 5.36 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 16 | 5.36 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 16 | 5.36 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 16 | 5.36 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 16 | 5.36 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 3 | 5.36 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 3 | 5.36 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 20 | 5.36 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 5.36 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 15 | 5.36 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 15 | 5.36 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 15 | 5.36 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 15 | 5.36 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 19 | 5.36 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 19 | 5.36 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 2 | 5.36 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 2 | 5.36 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 17 | 5.36 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 17 | 5.36 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 17 | 5.36 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 17 | 5.36 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 17 | 5.36 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 17 | 5.36 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 7 | 5.36 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 7 | 5.36 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 7 | 5.36 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 7 | 5.36 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 7 | 5.36 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 7 | 5.36 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 19 | 5.36 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 19 | 5.36 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 5 | 5.36 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 5 | 5.36 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 4 | 5.36 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 4 | 5.36 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 5 | 5.36 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 5 | 5.36 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 16 | 5.36 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 16 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 7 | 5.36 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 7 | 5.36 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 19 | 5.36 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 12 | 5.36 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 12 | 5.36 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 12 | 5.36 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 18 | 5.36 |
| (1,8341) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 18 | 5.36 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 13 | 5.36 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 18 | 5.36 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 18 | 5.36 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 6 | 5.36 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 6 | 5.36 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 6 | 5.36 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 15 | 5.36 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 15 | 5.36 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 4 | 5.36 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 11 | 5.36 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 11 | 5.36 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 10 | 5.36 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 10 | 5.36 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 7 | 5.36 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 7 | 5.36 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 14 | 5.36 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 18 | 5.36 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 18 | 5.36 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 18 | 5.36 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 13 | 5.36 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 2 | 5.36 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 10 | 5.36 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 9 | 5.36 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 9 | 5.36 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 9 | 5.36 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 5 | 5.36 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 5 | 5.36 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 5 | 5.36 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 13 | 5.36 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 16 | 5.36 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 16 | 5.36 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 16 | 5.36 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 5 | 5.36 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 13 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 13 | 5.36 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 9 | 5.36 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 9 | 5.36 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 9 | 5.36 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 3 | 5.36 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 3 | 5.36 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 14 | 5.36 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 14 | 5.36 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 14 | 5.36 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 13 | 5.36 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 13 | 5.36 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 13 | 5.36 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 14 | 5.36 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 16 | 5.36 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 4 | 5.36 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 4 | 5.36 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 4 | 5.36 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 4 | 5.36 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 4 | 5.36 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 4 | 5.36 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 4 | 5.36 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 4 | 5.36 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 4 | 5.36 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 7 | 5.36 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 7 | 5.36 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 7 | 5.36 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 2 | 5.36 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 7 | 5.36 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 14 | 5.36 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 20 | 5.36 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 7 | 5.36 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 7 | 5.36 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 7 | 5.36 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 7 | 5.36 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 7 | 5.36 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 7 | 5.36 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 14 | 5.36 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 16 | 5.36 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 1 | 5.36 |
| (1,7564) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HB2 | 20 | 5.36 |
| (1,7564) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HB2 | 20 | 5.36 |
| (1,7564) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HB2 | 20 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 19 | 5.36 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 19 | 5.36 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 19 | 5.36 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 20 | 5.36 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 20 | 5.36 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 14 | 5.36 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 16 | 5.36 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 16 | 5.36 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 16 | 5.36 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 13 | 5.36 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 13 | 5.36 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 13 | 5.36 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 13 | 5.36 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 13 | 5.36 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 13 | 5.36 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 19 | 5.36 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 19 | 5.36 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 19 | 5.36 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 2 | 5.36 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 2 | 5.36 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 2 | 5.36 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 7 | 5.36 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 7 | 5.36 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 8 | 5.36 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 12 | 5.36 |
| (1,6769) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 9 | 5.36 |
| (1,6769) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 9 | 5.36 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 19 | 5.36 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 14 | 5.36 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 14 | 5.36 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 14 | 5.36 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 14 | 5.36 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 14 | 5.36 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 14 | 5.36 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 9 | 5.36 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 3 | 5.36 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 17 | 5.36 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 20 | 5.36 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 16 | 5.36 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 16 | 5.36 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 16 | 5.36 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 16 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 16 | 5.36 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 16 | 5.36 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 16 | 5.36 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 16 | 5.36 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 16 | 5.36 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 5 | 5.36 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 5 | 5.36 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 13 | 5.36 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 13 | 5.36 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 13 | 5.36 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 7 | 5.36 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 7 | 5.36 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 11 | 5.36 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 11 | 5.36 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 6 | 5.36 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 6 | 5.36 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 6 | 5.36 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 6 | 5.36 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 6 | 5.36 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 6 | 5.36 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 14 | 5.36 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 2 | 5.36 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 2 | 5.36 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 2 | 5.36 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 18 | 5.36 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 18 | 5.36 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 18 | 5.36 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 7 | 5.36 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 7 | 5.36 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 7 | 5.36 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 7 | 5.36 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 7 | 5.36 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 7 | 5.36 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 15 | 5.36 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 15 | 5.36 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 15 | 5.36 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 13 | 5.36 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 13 | 5.36 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 13 | 5.36 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 19 | 5.36 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 19 | 5.36 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 19 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 2 | 5.36 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 5 | 5.36 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 1 | 5.36 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 1 | 5.36 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 1 | 5.36 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 3 | 5.36 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 6 | 5.36 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 10 | 5.36 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 10 | 5.36 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 1 | 5.36 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 1 | 5.36 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 5 | 5.36 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 5 | 5.36 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 8 | 5.36 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 1 | 5.36 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 1 | 5.36 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 17 | 5.36 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 17 | 5.36 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 19 | 5.36 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 19 | 5.36 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 19 | 5.36 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 2 | 5.36 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 10 | 5.36 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 10 | 5.36 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 1 | 5.36 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 1 | 5.36 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 8 | 5.36 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 8 | 5.36 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 17 | 5.36 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 17 | 5.36 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 5.36 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 5.36 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 5.36 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 13 | 5.36 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 13 | 5.36 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 13 | 5.36 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 14 | 5.36 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 16 | 5.36 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 16 | 5.36 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 16 | 5.36 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 16 | 5.36 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 16 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 16 | 5.36 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 3 | 5.36 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 3 | 5.36 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 2 | 5.36 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 20 | 5.36 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 5.36 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 15 | 5.36 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 15 | 5.36 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 15 | 5.36 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 3 | 5.36 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 17 | 5.36 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 1 | 5.36 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 10 | 5.36 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 13 | 5.36 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 17 | 5.36 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 17 | 5.36 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 17 | 5.36 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 17 | 5.36 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 17 | 5.36 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 17 | 5.36 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 7 | 5.36 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 7 | 5.36 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 7 | 5.36 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 7 | 5.36 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 7 | 5.36 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 7 | 5.36 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 19 | 5.36 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 19 | 5.36 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 19 | 5.36 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 16 | 5.36 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 5 | 5.36 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 5 | 5.36 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 16 | 5.36 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 16 | 5.36 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 5.36 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 5.36 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 4 | 5.36 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 4 | 5.36 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 4 | 5.36 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 19 | 5.36 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 19 | 5.36 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 19 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 2 | 5.36 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 2 | 5.36 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 2 | 5.36 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 7 | 5.36 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 7 | 5.36 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 8 | 5.36 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 12 | 5.36 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 17 | 5.36 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 17 | 5.36 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 17 | 5.36 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 17 | 5.36 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 17 | 5.36 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 17 | 5.36 |
| (1,2722) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 9 | 5.36 |
| (1,2722) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 9 | 5.36 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 19 | 5.36 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 14 | 5.36 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 14 | 5.36 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 14 | 5.36 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 14 | 5.36 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 14 | 5.36 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 14 | 5.36 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 15 | 5.36 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 20 | 5.36 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 9 | 5.36 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 5.36 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 4 | 5.36 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 3 | 5.36 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 17 | 5.36 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 20 | 5.36 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 18 | 5.36 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 18 | 5.36 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 18 | 5.36 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 16 | 5.36 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 16 | 5.36 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 16 | 5.36 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 16 | 5.36 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 16 | 5.36 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 16 | 5.36 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 16 | 5.36 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 16 | 5.36 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 16 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 5 | 5.36 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 5 | 5.36 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 18 | 5.36 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 6 | 5.36 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 6 | 5.36 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 6 | 5.36 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 19 | 5.36 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 19 | 5.36 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 13 | 5.36 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 13 | 5.36 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 13 | 5.36 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 9 | 5.36 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 9 | 5.36 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 9 | 5.36 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 7 | 5.36 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 7 | 5.36 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 11 | 5.36 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 11 | 5.36 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 14 | 5.36 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 14 | 5.36 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 14 | 5.36 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 7 | 5.36 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 7 | 5.36 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 7 | 5.36 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 19 | 5.36 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 1 | 5.36 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 6 | 5.36 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 6 | 5.36 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 6 | 5.36 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 6 | 5.36 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 6 | 5.36 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 6 | 5.36 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 14 | 5.36 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 2 | 5.36 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 2 | 5.36 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 2 | 5.36 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 18 | 5.36 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 18 | 5.36 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 18 | 5.36 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 7 | 5.36 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 7 | 5.36 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 7 | 5.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 7 | 5.36 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 7 | 5.36 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 7 | 5.36 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 15 | 5.36 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 8 | 5.35 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 3 | 5.35 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 10 | 5.35 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 10 | 5.35 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 3 | 5.35 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 3 | 5.35 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 3 | 5.35 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 3 | 5.35 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 18 | 5.35 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 18 | 5.35 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 9 | 5.35 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 9 | 5.35 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 12 | 5.35 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 12 | 5.35 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 5 | 5.35 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 5 | 5.35 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 3 | 5.35 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 3 | 5.35 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 5 | 5.35 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 5 | 5.35 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 4 | 5.35 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 4 | 5.35 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 4 | 5.35 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 4 | 5.35 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 20 | 5.35 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 20 | 5.35 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 20 | 5.35 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 20 | 5.35 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 12 | 5.35 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 12 | 5.35 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 15 | 5.35 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 15 | 5.35 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 14 | 5.35 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 14 | 5.35 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 14 | 5.35 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 14 | 5.35 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 14 | 5.35 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 14 | 5.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 3 | 5.35 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 3 | 5.35 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 3 | 5.35 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 3 | 5.35 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 3 | 5.35 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 3 | 5.35 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 5 | 5.35 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 5 | 5.35 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 5 | 5.35 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 5 | 5.35 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 5 | 5.35 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 5 | 5.35 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 4 | 5.35 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 4 | 5.35 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 4 | 5.35 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 4 | 5.35 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 17 | 5.35 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 17 | 5.35 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 13 | 5.35 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 13 | 5.35 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 13 | 5.35 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 13 | 5.35 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 5 | 5.35 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 5 | 5.35 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 5 | 5.35 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 5 | 5.35 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 5 | 5.35 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 5 | 5.35 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 5 | 5.35 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 5 | 5.35 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 13 | 5.35 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 13 | 5.35 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 13 | 5.35 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 13 | 5.35 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 19 | 5.35 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 19 | 5.35 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 5.35 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 5.35 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 5.35 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 5.35 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 5.35 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 5.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 7 | 5.35 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 7 | 5.35 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 7 | 5.35 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 7 | 5.35 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 13 | 5.35 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 13 | 5.35 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 2 | 5.35 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 2 | 5.35 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 2 | 5.35 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 2 | 5.35 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 12 | 5.35 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 12 | 5.35 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 8 | 5.35 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 8 | 5.35 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 15 | 5.35 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 15 | 5.35 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 15 | 5.35 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 15 | 5.35 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 15 | 5.35 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 15 | 5.35 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 16 | 5.35 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 16 | 5.35 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 16 | 5.35 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 16 | 5.35 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 16 | 5.35 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 16 | 5.35 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 7 | 5.35 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 7 | 5.35 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 7 | 5.35 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 12 | 5.35 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 17 | 5.35 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 17 | 5.35 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 6 | 5.35 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 6 | 5.35 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 6 | 5.35 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 4 | 5.35 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 3 | 5.35 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 3 | 5.35 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 3 | 5.35 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 5 | 5.35 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 5 | 5.35 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 5 | 5.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 11 | 5.35 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 16 | 5.35 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 18 | 5.35 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 20 | 5.35 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 11 | 5.35 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 11 | 5.35 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 11 | 5.35 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 1 | 5.35 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 1 | 5.35 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 4 | 5.35 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 9 | 5.35 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 1 | 5.35 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 1 | 5.35 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 1 | 5.35 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 7 | 5.35 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 1 | 5.35 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 1 | 5.35 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 11 | 5.35 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 1 | 5.35 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 10 | 5.35 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 10 | 5.35 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 10 | 5.35 |
| (1,7842) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 10 | 5.35 |
| (1,7842) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 10 | 5.35 |
| (1,7842) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 10 | 5.35 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 11 | 5.35 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 11 | 5.35 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 11 | 5.35 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 10 | 5.35 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 6 | 5.35 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 16 | 5.35 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 16 | 5.35 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 16 | 5.35 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 19 | 5.35 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 3 | 5.35 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 17 | 5.35 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 17 | 5.35 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 14 | 5.35 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 14 | 5.35 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 14 | 5.35 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 14 | 5.35 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 14 | 5.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 18 | 5.35 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 18 | 5.35 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 2 | 5.35 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 6 | 5.35 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 6 | 5.35 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 6 | 5.35 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 9 | 5.35 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 5 | 5.35 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 18 | 5.35 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 6 | 5.35 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 3 | 5.35 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 3 | 5.35 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 3 | 5.35 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 14 | 5.35 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 14 | 5.35 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 9 | 5.35 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 9 | 5.35 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 9 | 5.35 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 18 | 5.35 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 3 | 5.35 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 3 | 5.35 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 17 | 5.35 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 17 | 5.35 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 17 | 5.35 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 1 | 5.35 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 12 | 5.35 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 12 | 5.35 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 13 | 5.35 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 16 | 5.35 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 16 | 5.35 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 16 | 5.35 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 13 | 5.35 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 13 | 5.35 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 5 | 5.35 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 5 | 5.35 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 9 | 5.35 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 7 | 5.35 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 7 | 5.35 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 7 | 5.35 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 7 | 5.35 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 7 | 5.35 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 9 | 5.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 5 | 5.35 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 15 | 5.35 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 9 | 5.35 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 9 | 5.35 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 15 | 5.35 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 15 | 5.35 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 2 | 5.35 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 15 | 5.35 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 5 | 5.35 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 7 | 5.35 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 20 | 5.35 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 20 | 5.35 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 20 | 5.35 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 11 | 5.35 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 11 | 5.35 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 11 | 5.35 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 4 | 5.35 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 4 | 5.35 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 4 | 5.35 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 5 | 5.35 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 12 | 5.35 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 12 | 5.35 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 5 | 5.35 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 5 | 5.35 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 4 | 5.35 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 4 | 5.35 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 4 | 5.35 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 4 | 5.35 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 15 | 5.35 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 15 | 5.35 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 15 | 5.35 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 2 | 5.35 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 2 | 5.35 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 13 | 5.35 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 13 | 5.35 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 13 | 5.35 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 16 | 5.35 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 16 | 5.35 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 16 | 5.35 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 19 | 5.35 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 13 | 5.35 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 13 | 5.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 13 | 5.35 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 16 | 5.35 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 6 | 5.35 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 6 | 5.35 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 6 | 5.35 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 8 | 5.35 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 6 | 5.35 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 20 | 5.35 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 5 | 5.35 |
| (1,4494) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 6 | 5.35 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 3 | 5.35 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 3 | 5.35 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 5 | 5.35 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 18 | 5.35 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 12 | 5.35 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 12 | 5.35 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 1 | 5.35 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 1 | 5.35 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 19 | 5.35 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 19 | 5.35 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 19 | 5.35 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 4 | 5.35 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 8 | 5.35 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 15 | 5.35 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 4 | 5.35 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 17 | 5.35 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 17 | 5.35 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 11 | 5.35 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 5 | 5.35 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 5 | 5.35 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 5 | 5.35 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 5 | 5.35 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 5 | 5.35 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 5 | 5.35 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 5 | 5.35 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 5 | 5.35 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 13 | 5.35 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 13 | 5.35 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 13 | 5.35 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 13 | 5.35 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 4 | 5.35 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 4 | 5.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 4 | 5.35 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 5.35 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 7 | 5.35 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 17 | 5.35 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 13 | 5.35 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 13 | 5.35 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 13 | 5.35 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 9 | 5.35 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 9 | 5.35 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 9 | 5.35 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 5.35 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 5.35 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 5.35 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 5.35 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 5.35 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 5.35 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 12 | 5.35 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 13 | 5.35 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 13 | 5.35 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 2 | 5.35 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 2 | 5.35 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 2 | 5.35 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 2 | 5.35 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 18 | 5.35 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 18 | 5.35 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 8 | 5.35 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 8 | 5.35 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 5 | 5.35 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 15 | 5.35 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 15 | 5.35 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 15 | 5.35 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 15 | 5.35 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 15 | 5.35 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 15 | 5.35 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 16 | 5.35 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 13 | 5.35 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 16 | 5.35 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 16 | 5.35 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 16 | 5.35 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 13 | 5.35 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 13 | 5.35 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 5 | 5.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 5 | 5.35 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 11 | 5.35 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 11 | 5.35 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 11 | 5.35 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 9 | 5.35 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 7 | 5.35 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 7 | 5.35 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 7 | 5.35 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 7 | 5.35 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 7 | 5.35 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 9 | 5.35 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 15 | 5.35 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 5 | 5.35 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 15 | 5.35 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 9 | 5.35 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 9 | 5.35 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 15 | 5.35 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 15 | 5.35 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 19 | 5.35 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 19 | 5.35 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 11 | 5.35 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 11 | 5.35 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 16 | 5.35 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 16 | 5.35 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 16 | 5.35 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 2 | 5.35 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 15 | 5.35 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 5 | 5.35 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 7 | 5.35 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 20 | 5.35 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 20 | 5.35 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 20 | 5.35 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 20 | 5.35 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 10 | 5.35 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 11 | 5.35 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 11 | 5.35 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 11 | 5.35 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 5.35 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 5.35 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 5.35 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 4 | 5.35 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 4 | 5.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 4 | 5.35 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 5 | 5.35 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 12 | 5.35 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 12 | 5.35 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 8 | 5.35 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 8 | 5.35 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 8 | 5.35 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 17 | 5.35 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 5 | 5.35 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 5 | 5.35 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 5.35 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 5.35 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 5.35 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 4 | 5.35 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 5 | 5.35 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 4 | 5.35 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 4 | 5.35 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 4 | 5.35 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 4 | 5.35 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 15 | 5.35 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 15 | 5.35 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 15 | 5.35 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 2 | 5.35 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 2 | 5.35 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 6 | 5.35 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 6 | 5.35 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 6 | 5.35 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 16 | 5.35 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 16 | 5.35 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 16 | 5.35 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 6 | 5.35 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 6 | 5.35 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 8 | 5.34 |
| (4,29) | 1:15:A:MET:CB | 1:80:A:ARG:H | 1 | 5.34 |
| (4,4) | 1:15:A:MET:CB | 1:48:A:GLY:H | 16 | 5.34 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 12 | 5.34 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 12 | 5.34 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 15 | 5.34 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 15 | 5.34 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 5.34 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 5.34 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 5.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 5.34 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 5.34 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 5.34 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 16 | 5.34 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 16 | 5.34 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 3 | 5.34 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 3 | 5.34 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 1 | 5.34 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 1 | 5.34 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 1 | 5.34 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 1 | 5.34 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 15 | 5.34 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 15 | 5.34 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 15 | 5.34 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 15 | 5.34 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 4 | 5.34 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 4 | 5.34 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE21 | 18 | 5.34 |
| (1,9157) | 1:93:A:ILE:HB | 1:94:A:GLN:HE22 | 18 | 5.34 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 16 | 5.34 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 16 | 5.34 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 6 | 5.34 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 6 | 5.34 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 6 | 5.34 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 6 | 5.34 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 6 | 5.34 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 6 | 5.34 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 7 | 5.34 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 7 | 5.34 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 4 | 5.34 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 4 | 5.34 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 8 | 5.34 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 8 | 5.34 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 1 | 5.34 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 1 | 5.34 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 1 | 5.34 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 1 | 5.34 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 1 | 5.34 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 1 | 5.34 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 6 | 5.34 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 6 | 5.34 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 6 | 5.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 6 | 5.34 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 6 | 5.34 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 6 | 5.34 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 3 | 5.34 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 3 | 5.34 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 8 | 5.34 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 8 | 5.34 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 17 | 5.34 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 17 | 5.34 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 4 | 5.34 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 4 | 5.34 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 4 | 5.34 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 4 | 5.34 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 19 | 5.34 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 19 | 5.34 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 19 | 5.34 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 19 | 5.34 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 12 | 5.34 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 12 | 5.34 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 16 | 5.34 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 16 | 5.34 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 16 | 5.34 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 16 | 5.34 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 16 | 5.34 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 16 | 5.34 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 17 | 5.34 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 17 | 5.34 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 17 | 5.34 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 17 | 5.34 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 3 | 5.34 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 3 | 5.34 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 3 | 5.34 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 3 | 5.34 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 2 | 5.34 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 2 | 5.34 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 2 | 5.34 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 2 | 5.34 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 1 | 5.34 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 6 | 5.34 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 6 | 5.34 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 6 | 5.34 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 1 | 5.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 1 | 5.34 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 1 | 5.34 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 7 | 5.34 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 1 | 5.34 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 1 | 5.34 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 15 | 5.34 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 7 | 5.34 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 7 | 5.34 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 7 | 5.34 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 9 | 5.34 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 18 | 5.34 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 7 | 5.34 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 7 | 5.34 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 6 | 5.34 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 6 | 5.34 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 6 | 5.34 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 6 | 5.34 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 19 | 5.34 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 19 | 5.34 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 19 | 5.34 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 3 | 5.34 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 17 | 5.34 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 14 | 5.34 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 1 | 5.34 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 1 | 5.34 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 1 | 5.34 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 9 | 5.34 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 9 | 5.34 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 16 | 5.34 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 16 | 5.34 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 16 | 5.34 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 15 | 5.34 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 5 | 5.34 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 20 | 5.34 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 20 | 5.34 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 20 | 5.34 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 20 | 5.34 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 6 | 5.34 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 6 | 5.34 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 10 | 5.34 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 10 | 5.34 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 10 | 5.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 8 | 5.34 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 8 | 5.34 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 8 | 5.34 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 8 | 5.34 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 8 | 5.34 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 8 | 5.34 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 8 | 5.34 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 8 | 5.34 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 8 | 5.34 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 15 | 5.34 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 15 | 5.34 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 15 | 5.34 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 15 | 5.34 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 15 | 5.34 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 15 | 5.34 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 3 | 5.34 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 8 | 5.34 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 8 | 5.34 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 17 | 5.34 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 17 | 5.34 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 19 | 5.34 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 19 | 5.34 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 19 | 5.34 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 14 | 5.34 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 5 | 5.34 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 11 | 5.34 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 13 | 5.34 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 13 | 5.34 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 13 | 5.34 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 6 | 5.34 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 6 | 5.34 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 6 | 5.34 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 10 | 5.34 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 1 | 5.34 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 9 | 5.34 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 12 | 5.34 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 8 | 5.34 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 8 | 5.34 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 8 | 5.34 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 6 | 5.34 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 2 | 5.34 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 9 | 5.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 6 | 5.34 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 18 | 5.34 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 18 | 5.34 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 18 | 5.34 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 7 | 5.34 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 11 | 5.34 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 10 | 5.34 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 10 | 5.34 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 19 | 5.34 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 8 | 5.34 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 8 | 5.34 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 8 | 5.34 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 14 | 5.34 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 20 | 5.34 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 20 | 5.34 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 20 | 5.34 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 6 | 5.34 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 5 | 5.34 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 19 | 5.34 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 19 | 5.34 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 19 | 5.34 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 19 | 5.34 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 19 | 5.34 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 19 | 5.34 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 14 | 5.34 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 4 | 5.34 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 4 | 5.34 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 4 | 5.34 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 11 | 5.34 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 11 | 5.34 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 11 | 5.34 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 15 | 5.34 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 15 | 5.34 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 15 | 5.34 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 14 | 5.34 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 14 | 5.34 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 14 | 5.34 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 18 | 5.34 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 10 | 5.34 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 10 | 5.34 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 10 | 5.34 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 2 | 5.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 20 | 5.34 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 6 | 5.34 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 13 | 5.34 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 17 | 5.34 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 17 | 5.34 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 17 | 5.34 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 15 | 5.34 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 15 | 5.34 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 15 | 5.34 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 19 | 5.34 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 19 | 5.34 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 19 | 5.34 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 1 | 5.34 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 1 | 5.34 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 1 | 5.34 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 1 | 5.34 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 1 | 5.34 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 1 | 5.34 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 1 | 5.34 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 1 | 5.34 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 1 | 5.34 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 15 | 5.34 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 15 | 5.34 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 15 | 5.34 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 10 | 5.34 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 10 | 5.34 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 10 | 5.34 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 5.34 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 5.34 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 5.34 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 5.34 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 5.34 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 5.34 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 4 | 5.34 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 2 | 5.34 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 12 | 5.34 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 12 | 5.34 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 12 | 5.34 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 12 | 5.34 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 1 | 5.34 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 6 | 5.34 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 9 | 5.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 9 | 5.34 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 9 | 5.34 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 5 | 5.34 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 8 | 5.34 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 5 | 5.34 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 16 | 5.34 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 8 | 5.34 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 8 | 5.34 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 1 | 5.34 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 1 | 5.34 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 1 | 5.34 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 1 | 5.34 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 1 | 5.34 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 1 | 5.34 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 8 | 5.34 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 8 | 5.34 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 3 | 5.34 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 17 | 5.34 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 17 | 5.34 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 18 | 5.34 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 4 | 5.34 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 4 | 5.34 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 4 | 5.34 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 4 | 5.34 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 4 | 5.34 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 4 | 5.34 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 12 | 5.34 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 12 | 5.34 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 16 | 5.34 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 16 | 5.34 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 16 | 5.34 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 16 | 5.34 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 16 | 5.34 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 16 | 5.34 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 12 | 5.34 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 5.34 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 12 | 5.34 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 1 | 5.34 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 5.34 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 1 | 5.34 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 1 | 5.34 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 5.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 1 | 5.34 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 18 | 5.34 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 2 | 5.34 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 2 | 5.34 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 4 | 5.34 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 11 | 5.34 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 14 | 5.34 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 12 | 5.34 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 15 | 5.34 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 15 | 5.34 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 19 | 5.34 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 8 | 5.34 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 8 | 5.34 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 8 | 5.34 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 6 | 5.34 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 2 | 5.34 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 9 | 5.34 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 6 | 5.34 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 18 | 5.34 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 18 | 5.34 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 18 | 5.34 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 13 | 5.34 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 13 | 5.34 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 13 | 5.34 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 12 | 5.34 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 7 | 5.34 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 11 | 5.34 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 19 | 5.34 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 10 | 5.34 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 8 | 5.34 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 8 | 5.34 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 8 | 5.34 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 14 | 5.34 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 18 | 5.34 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 18 | 5.34 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 18 | 5.34 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 20 | 5.34 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 20 | 5.34 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 20 | 5.34 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 13 | 5.34 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 13 | 5.34 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 13 | 5.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 6 | 5.34 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 5 | 5.34 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 19 | 5.34 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 19 | 5.34 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 19 | 5.34 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 19 | 5.34 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 19 | 5.34 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 19 | 5.34 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 14 | 5.34 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 4 | 5.34 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 4 | 5.34 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 4 | 5.34 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 15 | 5.34 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 15 | 5.34 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 15 | 5.34 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 1 | 5.34 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 8 | 5.34 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 6 | 5.34 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 2 | 5.34 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 2 | 5.34 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 2 | 5.34 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 4 | 5.34 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 11 | 5.34 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 11 | 5.34 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 11 | 5.34 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 15 | 5.34 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 15 | 5.34 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 15 | 5.34 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 14 | 5.34 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 14 | 5.34 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 14 | 5.34 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 14 | 5.34 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 14 | 5.34 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 14 | 5.34 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 8 | 5.33 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 20 | 5.33 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 14 | 5.33 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 10 | 5.33 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 10 | 5.33 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 5 | 5.33 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 5 | 5.33 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 14 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 14 | 5.33 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 14 | 5.33 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 14 | 5.33 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 7 | 5.33 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 7 | 5.33 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 19 | 5.33 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 19 | 5.33 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 16 | 5.33 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 16 | 5.33 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 16 | 5.33 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 16 | 5.33 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 13 | 5.33 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 13 | 5.33 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 14 | 5.33 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 14 | 5.33 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 17 | 5.33 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 17 | 5.33 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 14 | 5.33 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 14 | 5.33 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 13 | 5.33 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 13 | 5.33 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 13 | 5.33 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 13 | 5.33 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 13 | 5.33 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 13 | 5.33 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 3 | 5.33 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 3 | 5.33 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 16 | 5.33 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 16 | 5.33 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 12 | 5.33 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 12 | 5.33 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 12 | 5.33 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 12 | 5.33 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 11 | 5.33 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 11 | 5.33 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 11 | 5.33 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 11 | 5.33 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 11 | 5.33 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 11 | 5.33 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 15 | 5.33 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 15 | 5.33 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 15 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 15 | 5.33 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 15 | 5.33 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 15 | 5.33 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 3 | 5.33 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 3 | 5.33 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 13 | 5.33 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 13 | 5.33 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 10 | 5.33 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 10 | 5.33 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 19 | 5.33 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 19 | 5.33 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 1 | 5.33 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 1 | 5.33 |
| (1,8470) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 16 | 5.33 |
| (1,8470) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 16 | 5.33 |
| (1,8470) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 16 | 5.33 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 7 | 5.33 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 7 | 5.33 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 7 | 5.33 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 15 | 5.33 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 15 | 5.33 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 15 | 5.33 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 17 | 5.33 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 17 | 5.33 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 17 | 5.33 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 17 | 5.33 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 17 | 5.33 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 17 | 5.33 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 18 | 5.33 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 18 | 5.33 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 18 | 5.33 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 17 | 5.33 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 17 | 5.33 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 17 | 5.33 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 14 | 5.33 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 14 | 5.33 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 14 | 5.33 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 5 | 5.33 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 5 | 5.33 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 19 | 5.33 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 8 | 5.33 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 8 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 2 | 5.33 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 6 | 5.33 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 13 | 5.33 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 13 | 5.33 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 13 | 5.33 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 1 | 5.33 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 9 | 5.33 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 9 | 5.33 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 7 | 5.33 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 7 | 5.33 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 7 | 5.33 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 14 | 5.33 |
| (1,8028) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 3 | 5.33 |
| (1,8028) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 3 | 5.33 |
| (1,8028) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 3 | 5.33 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 18 | 5.33 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 18 | 5.33 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 18 | 5.33 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 10 | 5.33 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 18 | 5.33 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 18 | 5.33 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 18 | 5.33 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 1 | 5.33 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 1 | 5.33 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 1 | 5.33 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 13 | 5.33 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 13 | 5.33 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 13 | 5.33 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 6 | 5.33 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 6 | 5.33 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 6 | 5.33 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 1 | 5.33 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 1 | 5.33 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 1 | 5.33 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 1 | 5.33 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 1 | 5.33 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 1 | 5.33 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 20 | 5.33 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 20 | 5.33 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 20 | 5.33 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 16 | 5.33 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 16 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 16 | 5.33 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 16 | 5.33 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 16 | 5.33 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 16 | 5.33 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 16 | 5.33 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 16 | 5.33 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 16 | 5.33 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 14 | 5.33 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 14 | 5.33 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 14 | 5.33 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 19 | 5.33 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 1 | 5.33 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 1 | 5.33 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 1 | 5.33 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 2 | 5.33 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 2 | 5.33 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 2 | 5.33 |
| (1,7750) | 1:55:A:VAL:HG21 | 1:139:A:PHE:H | 3 | 5.33 |
| (1,7750) | 1:55:A:VAL:HG22 | 1:139:A:PHE:H | 3 | 5.33 |
| (1,7750) | 1:55:A:VAL:HG23 | 1:139:A:PHE:H | 3 | 5.33 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 1 | 5.33 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 3 | 5.33 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 3 | 5.33 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 19 | 5.33 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 19 | 5.33 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 19 | 5.33 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 19 | 5.33 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 19 | 5.33 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 19 | 5.33 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 20 | 5.33 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 12 | 5.33 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 18 | 5.33 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 1 | 5.33 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 19 | 5.33 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 10 | 5.33 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 15 | 5.33 |
| (1,7398) | 1:4:A:GLU:HA | 1:7:A:LEU:H | 8 | 5.33 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 4 | 5.33 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 11 | 5.33 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 11 | 5.33 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 16 | 5.33 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 16 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 10 | 5.33 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 9 | 5.33 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 9 | 5.33 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 3 | 5.33 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 13 | 5.33 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 6 | 5.33 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 6 | 5.33 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 6 | 5.33 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 16 | 5.33 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 16 | 5.33 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 16 | 5.33 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 2 | 5.33 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 2 | 5.33 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 2 | 5.33 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 2 | 5.33 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 2 | 5.33 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 2 | 5.33 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 5 | 5.33 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 11 | 5.33 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 11 | 5.33 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 11 | 5.33 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 3 | 5.33 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 8 | 5.33 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 14 | 5.33 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 14 | 5.33 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 14 | 5.33 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 8 | 5.33 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 8 | 5.33 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 8 | 5.33 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 8 | 5.33 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 18 | 5.33 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 4 | 5.33 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 9 | 5.33 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 4 | 5.33 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 3 | 5.33 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 2 | 5.33 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 12 | 5.33 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 12 | 5.33 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 12 | 5.33 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 1 | 5.33 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 15 | 5.33 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 8 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 8 | 5.33 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 8 | 5.33 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 8 | 5.33 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 8 | 5.33 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 8 | 5.33 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 8 | 5.33 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 8 | 5.33 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 9 | 5.33 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 12 | 5.33 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 12 | 5.33 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 12 | 5.33 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 12 | 5.33 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 12 | 5.33 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 10 | 5.33 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 10 | 5.33 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 10 | 5.33 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 14 | 5.33 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 14 | 5.33 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 14 | 5.33 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 14 | 5.33 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 14 | 5.33 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 14 | 5.33 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 18 | 5.33 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 18 | 5.33 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 8 | 5.33 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 8 | 5.33 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 8 | 5.33 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 11 | 5.33 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 11 | 5.33 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 13 | 5.33 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 14 | 5.33 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 14 | 5.33 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 14 | 5.33 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 6 | 5.33 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 17 | 5.33 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 17 | 5.33 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 17 | 5.33 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 18 | 5.33 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 18 | 5.33 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 18 | 5.33 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 9 | 5.33 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 2 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 16 | 5.33 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 16 | 5.33 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 16 | 5.33 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 18 | 5.33 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 2 | 5.33 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 11 | 5.33 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 15 | 5.33 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 15 | 5.33 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 15 | 5.33 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 18 | 5.33 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 18 | 5.33 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 18 | 5.33 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 18 | 5.33 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 18 | 5.33 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 18 | 5.33 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 18 | 5.33 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 18 | 5.33 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 18 | 5.33 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 6 | 5.33 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 6 | 5.33 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 6 | 5.33 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 3 | 5.33 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 1 | 5.33 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 1 | 5.33 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 1 | 5.33 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 1 | 5.33 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 14 | 5.33 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 8 | 5.33 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 14 | 5.33 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 14 | 5.33 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 14 | 5.33 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 14 | 5.33 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 12 | 5.33 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 19 | 5.33 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 3 | 5.33 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 9 | 5.33 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 9 | 5.33 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 17 | 5.33 |
| (1,4166) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 6 | 5.33 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 7 | 5.33 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 11 | 5.33 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 14 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 6 | 5.33 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 6 | 5.33 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 6 | 5.33 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 9 | 5.33 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 9 | 5.33 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 9 | 5.33 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 13 | 5.33 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 13 | 5.33 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 13 | 5.33 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 13 | 5.33 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 13 | 5.33 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 13 | 5.33 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 11 | 5.33 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 5.33 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 5.33 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 5.33 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 15 | 5.33 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 15 | 5.33 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 15 | 5.33 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 15 | 5.33 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 15 | 5.33 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 15 | 5.33 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 19 | 5.33 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 4 | 5.33 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 4 | 5.33 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 5 | 5.33 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 5 | 5.33 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 5.33 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 8 | 5.33 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 8 | 5.33 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 8 | 5.33 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 10 | 5.33 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 10 | 5.33 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 9 | 5.33 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 9 | 5.33 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 3 | 5.33 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 13 | 5.33 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 5 | 5.33 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 15 | 5.33 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 6 | 5.33 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 6 | 5.33 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 6 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 16 | 5.33 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 16 | 5.33 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 16 | 5.33 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 5 | 5.33 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 5 | 5.33 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 2 | 5.33 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 2 | 5.33 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 2 | 5.33 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 2 | 5.33 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 2 | 5.33 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 2 | 5.33 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 5 | 5.33 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 11 | 5.33 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 11 | 5.33 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 11 | 5.33 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 3 | 5.33 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 8 | 5.33 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 14 | 5.33 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 14 | 5.33 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 14 | 5.33 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 5 | 5.33 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 5 | 5.33 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 8 | 5.33 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 8 | 5.33 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 8 | 5.33 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 8 | 5.33 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 18 | 5.33 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 4 | 5.33 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 9 | 5.33 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 4 | 5.33 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 3 | 5.33 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 2 | 5.33 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 17 | 5.33 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 12 | 5.33 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 12 | 5.33 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 12 | 5.33 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 1 | 5.33 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 19 | 5.33 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 2 | 5.33 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 16 | 5.33 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 13 | 5.33 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 13 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 13 | 5.33 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 15 | 5.33 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 8 | 5.33 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 8 | 5.33 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 8 | 5.33 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 8 | 5.33 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 8 | 5.33 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 8 | 5.33 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 14 | 5.33 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 8 | 5.33 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 8 | 5.33 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 9 | 5.33 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 12 | 5.33 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 12 | 5.33 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 12 | 5.33 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 12 | 5.33 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 12 | 5.33 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 10 | 5.33 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 10 | 5.33 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 10 | 5.33 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 14 | 5.33 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 14 | 5.33 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 14 | 5.33 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 14 | 5.33 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 14 | 5.33 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 14 | 5.33 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 6 | 5.33 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 6 | 5.33 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 6 | 5.33 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 10 | 5.33 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 10 | 5.33 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 18 | 5.33 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 18 | 5.33 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 8 | 5.33 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 8 | 5.33 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 8 | 5.33 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 11 | 5.33 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 11 | 5.33 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 9 | 5.33 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 13 | 5.33 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 14 | 5.33 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 14 | 5.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 14 | 5.33 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 2 | 5.32 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 7 | 5.32 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 7 | 5.32 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 20 | 5.32 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 20 | 5.32 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 16 | 5.32 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 16 | 5.32 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 2 | 5.32 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 2 | 5.32 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 16 | 5.32 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 16 | 5.32 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 10 | 5.32 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 10 | 5.32 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 17 | 5.32 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 17 | 5.32 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 1 | 5.32 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 1 | 5.32 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 1 | 5.32 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 1 | 5.32 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 18 | 5.32 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 18 | 5.32 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 10 | 5.32 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 10 | 5.32 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 11 | 5.32 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 11 | 5.32 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 11 | 5.32 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 11 | 5.32 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 11 | 5.32 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 11 | 5.32 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 6 | 5.32 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 6 | 5.32 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 19 | 5.32 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 19 | 5.32 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 19 | 5.32 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 19 | 5.32 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 7 | 5.32 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 7 | 5.32 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 17 | 5.32 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 17 | 5.32 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 3 | 5.32 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 3 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 11 | 5.32 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 11 | 5.32 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 11 | 5.32 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 11 | 5.32 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 13 | 5.32 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 13 | 5.32 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 8 | 5.32 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 8 | 5.32 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 19 | 5.32 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 19 | 5.32 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 16 | 5.32 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 16 | 5.32 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 16 | 5.32 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 16 | 5.32 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 16 | 5.32 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 16 | 5.32 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 17 | 5.32 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 17 | 5.32 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 17 | 5.32 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 17 | 5.32 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 5 | 5.32 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 5 | 5.32 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 4 | 5.32 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 4 | 5.32 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 4 | 5.32 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 4 | 5.32 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 4 | 5.32 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 4 | 5.32 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 5 | 5.32 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 5 | 5.32 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 5 | 5.32 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 5 | 5.32 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 5 | 5.32 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 5 | 5.32 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 7 | 5.32 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 7 | 5.32 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 19 | 5.32 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 19 | 5.32 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 5 | 5.32 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 5 | 5.32 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 5 | 5.32 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 5 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 5 | 5.32 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 5 | 5.32 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 4 | 5.32 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 4 | 5.32 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 4 | 5.32 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 4 | 5.32 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 4 | 5.32 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 4 | 5.32 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 19 | 5.32 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 3 | 5.32 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 4 | 5.32 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 7 | 5.32 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 7 | 5.32 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 7 | 5.32 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 13 | 5.32 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 13 | 5.32 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 13 | 5.32 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 14 | 5.32 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 14 | 5.32 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 14 | 5.32 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 17 | 5.32 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 15 | 5.32 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 13 | 5.32 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 1 | 5.32 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 1 | 5.32 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 17 | 5.32 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 17 | 5.32 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 12 | 5.32 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 12 | 5.32 |
| (1,8106) | 1:93:A:ILE:HG21 | 1:148:A:GLY:H | 3 | 5.32 |
| (1,8106) | 1:93:A:ILE:HG22 | 1:148:A:GLY:H | 3 | 5.32 |
| (1,8106) | 1:93:A:ILE:HG23 | 1:148:A:GLY:H | 3 | 5.32 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG2 | 20 | 5.32 |
| (1,8102) | 1:93:A:ILE:HB | 1:94:A:GLN:HG3 | 20 | 5.32 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 3 | 5.32 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 14 | 5.32 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 20 | 5.32 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 14 | 5.32 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 8 | 5.32 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 3 | 5.32 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 3 | 5.32 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 3 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 1 | 5.32 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 1 | 5.32 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 1 | 5.32 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 12 | 5.32 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 12 | 5.32 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 12 | 5.32 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 12 | 5.32 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 12 | 5.32 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 12 | 5.32 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 12 | 5.32 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 12 | 5.32 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 12 | 5.32 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 5 | 5.32 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 5 | 5.32 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 5 | 5.32 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 5 | 5.32 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 5 | 5.32 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 5 | 5.32 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 5 | 5.32 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 5 | 5.32 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 5 | 5.32 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 2 | 5.32 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 11 | 5.32 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 11 | 5.32 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 20 | 5.32 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 20 | 5.32 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 17 | 5.32 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 16 | 5.32 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 8 | 5.32 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 1 | 5.32 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 2 | 5.32 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 16 | 5.32 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 3 | 5.32 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 2 | 5.32 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 13 | 5.32 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 13 | 5.32 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 13 | 5.32 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 17 | 5.32 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 17 | 5.32 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 12 | 5.32 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 9 | 5.32 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 13 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 8 | 5.32 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 2 | 5.32 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 2 | 5.32 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 4 | 5.32 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 4 | 5.32 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 16 | 5.32 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 12 | 5.32 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 12 | 5.32 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 7 | 5.32 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 7 | 5.32 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 2 | 5.32 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 2 | 5.32 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 4 | 5.32 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 12 | 5.32 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 3 | 5.32 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 10 | 5.32 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 17 | 5.32 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 20 | 5.32 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 20 | 5.32 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 20 | 5.32 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 8 | 5.32 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 8 | 5.32 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 6 | 5.32 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 20 | 5.32 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 5 | 5.32 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 5 | 5.32 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 20 | 5.32 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 2 | 5.32 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 12 | 5.32 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 12 | 5.32 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 12 | 5.32 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 12 | 5.32 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 12 | 5.32 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 12 | 5.32 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 6 | 5.32 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 6 | 5.32 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 6 | 5.32 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 1 | 5.32 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 6 | 5.32 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 6 | 5.32 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 6 | 5.32 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 8 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 8 | 5.32 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 8 | 5.32 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 6 | 5.32 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 10 | 5.32 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 20 | 5.32 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 20 | 5.32 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 20 | 5.32 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 6 | 5.32 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 1 | 5.32 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 16 | 5.32 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 18 | 5.32 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 18 | 5.32 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 18 | 5.32 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 17 | 5.32 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 17 | 5.32 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 17 | 5.32 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 17 | 5.32 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 18 | 5.32 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 14 | 5.32 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 14 | 5.32 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 13 | 5.32 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 11 | 5.32 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 11 | 5.32 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 11 | 5.32 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 11 | 5.32 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 11 | 5.32 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 11 | 5.32 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 6 | 5.32 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 6 | 5.32 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 17 | 5.32 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 11 | 5.32 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 18 | 5.32 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 7 | 5.32 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 7 | 5.32 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 5 | 5.32 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 5 | 5.32 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 17 | 5.32 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 2 | 5.32 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 2 | 5.32 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 2 | 5.32 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 1 | 5.32 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 13 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 13 | 5.32 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 13 | 5.32 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 16 | 5.32 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 16 | 5.32 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 16 | 5.32 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 16 | 5.32 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 16 | 5.32 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 16 | 5.32 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 5 | 5.32 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 4 | 5.32 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 15 | 5.32 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 8 | 5.32 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 8 | 5.32 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 8 | 5.32 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 13 | 5.32 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 19 | 5.32 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 18 | 5.32 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 14 | 5.32 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 2 | 5.32 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 2 | 5.32 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 2 | 5.32 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 14 | 5.32 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 5 | 5.32 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 5 | 5.32 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 4 | 5.32 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 4 | 5.32 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 4 | 5.32 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 4 | 5.32 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 4 | 5.32 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 4 | 5.32 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 13 | 5.32 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 2 | 5.32 |
| (1,3650) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 9 | 5.32 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 9 | 5.32 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 7 | 5.32 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 7 | 5.32 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 2 | 5.32 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 2 | 5.32 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 2 | 5.32 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 2 | 5.32 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 15 | 5.32 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 15 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 15 | 5.32 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 15 | 5.32 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 2 | 5.32 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 15 | 5.32 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 15 | 5.32 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 15 | 5.32 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 4 | 5.32 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 4 | 5.32 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 4 | 5.32 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 4 | 5.32 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 4 | 5.32 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 4 | 5.32 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 4 | 5.32 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 16 | 5.32 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 12 | 5.32 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 12 | 5.32 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 7 | 5.32 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 7 | 5.32 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 2 | 5.32 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 2 | 5.32 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 13 | 5.32 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 13 | 5.32 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 5.32 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 18 | 5.32 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 4 | 5.32 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 12 | 5.32 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 3 | 5.32 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 10 | 5.32 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 17 | 5.32 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 3 | 5.32 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 3 | 5.32 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 3 | 5.32 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 20 | 5.32 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 20 | 5.32 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 20 | 5.32 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 8 | 5.32 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 8 | 5.32 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 16 | 5.32 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 16 | 5.32 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 16 | 5.32 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 4 | 5.32 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 4 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 4 | 5.32 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 18 | 5.32 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 13 | 5.32 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 6 | 5.32 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 20 | 5.32 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 12 | 5.32 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 17 | 5.32 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 14 | 5.32 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 5 | 5.32 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 5 | 5.32 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 20 | 5.32 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 2 | 5.32 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 12 | 5.32 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 12 | 5.32 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 12 | 5.32 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 12 | 5.32 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 12 | 5.32 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 12 | 5.32 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 9 | 5.32 |
| (4,256) | 1:15:A:MET:CB | 1:153:A:ASP:H | 5 | 5.31 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 9 | 5.31 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 16 | 5.31 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 12 | 5.31 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 16 | 5.31 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 16 | 5.31 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 8 | 5.31 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 8 | 5.31 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 2 | 5.31 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 2 | 5.31 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 8 | 5.31 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 8 | 5.31 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 10 | 5.31 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 10 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 8 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 8 | 5.31 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 8 | 5.31 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 4 | 5.31 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 4 | 5.31 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 4 | 5.31 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 4 | 5.31 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 4 | 5.31 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 4 | 5.31 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 19 | 5.31 |
| (1,9315) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 19 | 5.31 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 9 | 5.31 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 9 | 5.31 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 9 | 5.31 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 9 | 5.31 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 17 | 5.31 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 17 | 5.31 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 17 | 5.31 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 17 | 5.31 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 11 | 5.31 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 11 | 5.31 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 20 | 5.31 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 20 | 5.31 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 20 | 5.31 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 20 | 5.31 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 7 | 5.31 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 7 | 5.31 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 1 | 5.31 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 1 | 5.31 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 8 | 5.31 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 8 | 5.31 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 1 | 5.31 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 1 | 5.31 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 14 | 5.31 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 14 | 5.31 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 14 | 5.31 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 14 | 5.31 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 5 | 5.31 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 5 | 5.31 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 5 | 5.31 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 5 | 5.31 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 14 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 14 | 5.31 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 3 | 5.31 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 3 | 5.31 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 3 | 5.31 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 3 | 5.31 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 3 | 5.31 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 3 | 5.31 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 11 | 5.31 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 11 | 5.31 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 20 | 5.31 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 20 | 5.31 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 20 | 5.31 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 20 | 5.31 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 20 | 5.31 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 20 | 5.31 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 20 | 5.31 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 20 | 5.31 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 20 | 5.31 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 6 | 5.31 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 6 | 5.31 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 6 | 5.31 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 6 | 5.31 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 6 | 5.31 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 6 | 5.31 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 6 | 5.31 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 6 | 5.31 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 6 | 5.31 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 14 | 5.31 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 10 | 5.31 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 14 | 5.31 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 11 | 5.31 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 11 | 5.31 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 11 | 5.31 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 18 | 5.31 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 18 | 5.31 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 18 | 5.31 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 13 | 5.31 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 20 | 5.31 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 20 | 5.31 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 7 | 5.31 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 12 | 5.31 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 12 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 12 | 5.31 |
| (1,8240) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 12 | 5.31 |
| (1,8211) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 12 | 5.31 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 12 | 5.31 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 1 | 5.31 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 1 | 5.31 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 5 | 5.31 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 5 | 5.31 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 6 | 5.31 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 10 | 5.31 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 10 | 5.31 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 10 | 5.31 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 10 | 5.31 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 10 | 5.31 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 10 | 5.31 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 3 | 5.31 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 3 | 5.31 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 3 | 5.31 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 12 | 5.31 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 12 | 5.31 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 12 | 5.31 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE1 | 14 | 5.31 |
| (1,8090) | 1:92:A:TYR:H | 1:92:A:TYR:HE2 | 14 | 5.31 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 8 | 5.31 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 4 | 5.31 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 6 | 5.31 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 14 | 5.31 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 14 | 5.31 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 15 | 5.31 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 19 | 5.31 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 13 | 5.31 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 13 | 5.31 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 13 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 2 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 2 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 2 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 2 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 2 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 2 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 11 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 11 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 11 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 11 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 11 | 5.31 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 11 | 5.31 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 6 | 5.31 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 5 | 5.31 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 2 | 5.31 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 19 | 5.31 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 19 | 5.31 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 3 | 5.31 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 10 | 5.31 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 9 | 5.31 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 9 | 5.31 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 17 | 5.31 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 11 | 5.31 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 2 | 5.31 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 2 | 5.31 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 20 | 5.31 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 20 | 5.31 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 3 | 5.31 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 3 | 5.31 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 3 | 5.31 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 17 | 5.31 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 17 | 5.31 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 17 | 5.31 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 6 | 5.31 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 15 | 5.31 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 8 | 5.31 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 1 | 5.31 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 1 | 5.31 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 1 | 5.31 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 7 | 5.31 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 7 | 5.31 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 7 | 5.31 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 12 | 5.31 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 12 | 5.31 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 12 | 5.31 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 18 | 5.31 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 12 | 5.31 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 12 | 5.31 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 10 | 5.31 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 10 | 5.31 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 12 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 12 | 5.31 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 12 | 5.31 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 17 | 5.31 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 17 | 5.31 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 11 | 5.31 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 14 | 5.31 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 20 | 5.31 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 10 | 5.31 |
| (1,6606) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 14 | 5.31 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 9 | 5.31 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 17 | 5.31 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 17 | 5.31 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 17 | 5.31 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 17 | 5.31 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 17 | 5.31 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 17 | 5.31 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 7 | 5.31 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 13 | 5.31 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 13 | 5.31 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 13 | 5.31 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 18 | 5.31 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 18 | 5.31 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 18 | 5.31 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 5 | 5.31 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 10 | 5.31 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 10 | 5.31 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 10 | 5.31 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 2 | 5.31 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 2 | 5.31 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 3 | 5.31 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 14 | 5.31 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 14 | 5.31 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 2 | 5.31 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 20 | 5.31 |
| (1,5701) | 1:105:A:SER:H | 1:106:A:LEU:HG | 3 | 5.31 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 9 | 5.31 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 13 | 5.31 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 4 | 5.31 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 4 | 5.31 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 4 | 5.31 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 2 | 5.31 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 2 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 2 | 5.31 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 2 | 5.31 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 2 | 5.31 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 2 | 5.31 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 18 | 5.31 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 18 | 5.31 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 18 | 5.31 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 12 | 5.31 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 20 | 5.31 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 15 | 5.31 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 15 | 5.31 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 15 | 5.31 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 8 | 5.31 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 8 | 5.31 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 8 | 5.31 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 6 | 5.31 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 1 | 5.31 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 1 | 5.31 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 12 | 5.31 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 5 | 5.31 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 5 | 5.31 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 5 | 5.31 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 4 | 5.31 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 8 | 5.31 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 8 | 5.31 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 10 | 5.31 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 10 | 5.31 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 2 | 5.31 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 2 | 5.31 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 2 | 5.31 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 2 | 5.31 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 4 | 5.31 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 4 | 5.31 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 4 | 5.31 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 4 | 5.31 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 4 | 5.31 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 4 | 5.31 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 9 | 5.31 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 9 | 5.31 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 9 | 5.31 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 9 | 5.31 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 9 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 14 | 5.31 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 18 | 5.31 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 18 | 5.31 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 18 | 5.31 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 1 | 5.31 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 5.31 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 16 | 5.31 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 16 | 5.31 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 16 | 5.31 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 15 | 5.31 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 11 | 5.31 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 11 | 5.31 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 11 | 5.31 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 11 | 5.31 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 11 | 5.31 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 11 | 5.31 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 11 | 5.31 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 11 | 5.31 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 1 | 5.31 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 1 | 5.31 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 14 | 5.31 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 14 | 5.31 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 14 | 5.31 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 14 | 5.31 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 13 | 5.31 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 14 | 5.31 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 11 | 5.31 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 11 | 5.31 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 7 | 5.31 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 7 | 5.31 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 7 | 5.31 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 8 | 5.31 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 8 | 5.31 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 8 | 5.31 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 8 | 5.31 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 17 | 5.31 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 17 | 5.31 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 17 | 5.31 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 1 | 5.31 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 1 | 5.31 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 1 | 5.31 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 7 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 7 | 5.31 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 7 | 5.31 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 12 | 5.31 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 12 | 5.31 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 12 | 5.31 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 10 | 5.31 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 10 | 5.31 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 10 | 5.31 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 13 | 5.31 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 13 | 5.31 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 13 | 5.31 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 18 | 5.31 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 12 | 5.31 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 12 | 5.31 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 10 | 5.31 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 10 | 5.31 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 12 | 5.31 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 12 | 5.31 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 12 | 5.31 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 17 | 5.31 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 17 | 5.31 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 11 | 5.31 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 5.31 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 5.31 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 14 | 5.31 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 10 | 5.31 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 9 | 5.31 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 6 | 5.31 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 17 | 5.31 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 17 | 5.31 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 17 | 5.31 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 17 | 5.31 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 17 | 5.31 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 17 | 5.31 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 19 | 5.31 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 7 | 5.31 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 8 | 5.31 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 8 | 5.31 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 8 | 5.31 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 5.31 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 5.31 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 6 | 5.31 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 6 | 5.31 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 18 | 5.31 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 18 | 5.31 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 13 | 5.31 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 13 | 5.31 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 13 | 5.31 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 18 | 5.31 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 18 | 5.31 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 18 | 5.31 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 5.31 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 5.31 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 5.31 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 5 | 5.31 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 10 | 5.31 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 10 | 5.31 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 10 | 5.31 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 2 | 5.31 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 2 | 5.31 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 9 | 5.31 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 9 | 5.31 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 2 | 5.31 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 11 | 5.31 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 11 | 5.31 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 3 | 5.31 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 14 | 5.31 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 14 | 5.31 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 10 | 5.31 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 10 | 5.31 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 10 | 5.31 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 2 | 5.31 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 20 | 5.31 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 2 | 5.31 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 19 | 5.31 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 19 | 5.31 |
| (1,978) | 1:105:A:SER:H | 1:106:A:LEU:HG | 3 | 5.31 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 9 | 5.31 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 5.31 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 5.31 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 5.31 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 13 | 5.31 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 4 | 5.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 4 | 5.31 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 4 | 5.31 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 2 | 5.31 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 2 | 5.31 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 2 | 5.31 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 2 | 5.31 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 2 | 5.31 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 2 | 5.31 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 17 | 5.31 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 6 | 5.31 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 6 | 5.31 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 6 | 5.31 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 6 | 5.31 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 1 | 5.3 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 12 | 5.3 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 2 | 5.3 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 17 | 5.3 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 1 | 5.3 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 1 | 5.3 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 1 | 5.3 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 1 | 5.3 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 1 | 5.3 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 1 | 5.3 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 16 | 5.3 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 16 | 5.3 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 20 | 5.3 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 20 | 5.3 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 5 | 5.3 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 5 | 5.3 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 5 | 5.3 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 5 | 5.3 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 5 | 5.3 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 5 | 5.3 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 16 | 5.3 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 16 | 5.3 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 19 | 5.3 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 19 | 5.3 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 19 | 5.3 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 19 | 5.3 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 9 | 5.3 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 9 | 5.3 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 7 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 7 | 5.3 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 7 | 5.3 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 7 | 5.3 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 19 | 5.3 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 19 | 5.3 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 19 | 5.3 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 19 | 5.3 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 19 | 5.3 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 19 | 5.3 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB2 | 5 | 5.3 |
| (1,9153) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HB3 | 5 | 5.3 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 3 | 5.3 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 3 | 5.3 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 18 | 5.3 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 18 | 5.3 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 18 | 5.3 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 18 | 5.3 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 18 | 5.3 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 18 | 5.3 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 1 | 5.3 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 1 | 5.3 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 1 | 5.3 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 1 | 5.3 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 1 | 5.3 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 1 | 5.3 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 5 | 5.3 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 5 | 5.3 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 10 | 5.3 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 10 | 5.3 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 10 | 5.3 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 10 | 5.3 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 10 | 5.3 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 10 | 5.3 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 1 | 5.3 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 1 | 5.3 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 18 | 5.3 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 18 | 5.3 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 14 | 5.3 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 14 | 5.3 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 4 | 5.3 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 4 | 5.3 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 9 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 9 | 5.3 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 13 | 5.3 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 13 | 5.3 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 13 | 5.3 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 13 | 5.3 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 13 | 5.3 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 13 | 5.3 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 2 | 5.3 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 2 | 5.3 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 2 | 5.3 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 2 | 5.3 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 2 | 5.3 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 2 | 5.3 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 14 | 5.3 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 14 | 5.3 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 4 | 5.3 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 4 | 5.3 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 18 | 5.3 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 18 | 5.3 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 6 | 5.3 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 6 | 5.3 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 6 | 5.3 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 6 | 5.3 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 18 | 5.3 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 18 | 5.3 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 18 | 5.3 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 18 | 5.3 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 18 | 5.3 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 18 | 5.3 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 10 | 5.3 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 10 | 5.3 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 16 | 5.3 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 16 | 5.3 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 16 | 5.3 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 9 | 5.3 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 9 | 5.3 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 9 | 5.3 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 12 | 5.3 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 12 | 5.3 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 12 | 5.3 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 12 | 5.3 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 12 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 12 | 5.3 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 19 | 5.3 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 19 | 5.3 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 19 | 5.3 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 2 | 5.3 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 2 | 5.3 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 2 | 5.3 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 19 | 5.3 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 19 | 5.3 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 19 | 5.3 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 7 | 5.3 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 14 | 5.3 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 10 | 5.3 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 10 | 5.3 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 2 | 5.3 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 11 | 5.3 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 11 | 5.3 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 11 | 5.3 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 13 | 5.3 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 8 | 5.3 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 8 | 5.3 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 8 | 5.3 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 3 | 5.3 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 20 | 5.3 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 20 | 5.3 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 20 | 5.3 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 20 | 5.3 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 20 | 5.3 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 20 | 5.3 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 10 | 5.3 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 10 | 5.3 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 10 | 5.3 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 8 | 5.3 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 7 | 5.3 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 7 | 5.3 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 7 | 5.3 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 7 | 5.3 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 7 | 5.3 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 7 | 5.3 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 7 | 5.3 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 7 | 5.3 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 7 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 8 | 5.3 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 18 | 5.3 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 18 | 5.3 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 13 | 5.3 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 13 | 5.3 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 2 | 5.3 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 15 | 5.3 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 15 | 5.3 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 15 | 5.3 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 4 | 5.3 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 4 | 5.3 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 14 | 5.3 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 14 | 5.3 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 14 | 5.3 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 9 | 5.3 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 16 | 5.3 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 16 | 5.3 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 16 | 5.3 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 20 | 5.3 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 20 | 5.3 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 20 | 5.3 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 10 | 5.3 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 10 | 5.3 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 10 | 5.3 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 18 | 5.3 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 2 | 5.3 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 14 | 5.3 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 14 | 5.3 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 12 | 5.3 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 12 | 5.3 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 12 | 5.3 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 14 | 5.3 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 16 | 5.3 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 16 | 5.3 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 16 | 5.3 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 4 | 5.3 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 15 | 5.3 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 14 | 5.3 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 14 | 5.3 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 14 | 5.3 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 2 | 5.3 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 16 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 18 | 5.3 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 18 | 5.3 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 17 | 5.3 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 15 | 5.3 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 15 | 5.3 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 15 | 5.3 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 9 | 5.3 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 9 | 5.3 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 9 | 5.3 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 12 | 5.3 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 3 | 5.3 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 9 | 5.3 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 4 | 5.3 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 4 | 5.3 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 4 | 5.3 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 4 | 5.3 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 4 | 5.3 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 4 | 5.3 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD11 | 5 | 5.3 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD12 | 5 | 5.3 |
| (1,7342) | 1:92:A:TYR:H | 1:106:A:LEU:HD13 | 5 | 5.3 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 12 | 5.3 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 12 | 5.3 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 4 | 5.3 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 10 | 5.3 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 10 | 5.3 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 10 | 5.3 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 13 | 5.3 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 13 | 5.3 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 9 | 5.3 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 20 | 5.3 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 11 | 5.3 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 11 | 5.3 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 11 | 5.3 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 19 | 5.3 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 17 | 5.3 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 12 | 5.3 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 20 | 5.3 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 20 | 5.3 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 20 | 5.3 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 20 | 5.3 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 19 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 19 | 5.3 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 19 | 5.3 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 12 | 5.3 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 12 | 5.3 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 12 | 5.3 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 19 | 5.3 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 19 | 5.3 |
| (1,5805) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 19 | 5.3 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 19 | 5.3 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 7 | 5.3 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 7 | 5.3 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 7 | 5.3 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 4 | 5.3 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 6 | 5.3 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 4 | 5.3 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 4 | 5.3 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 2 | 5.3 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 5.3 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 5.3 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 5.3 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 5.3 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 5.3 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 5.3 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 5.3 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 5.3 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 5.3 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 17 | 5.3 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 17 | 5.3 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 17 | 5.3 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 10 | 5.3 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 10 | 5.3 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 10 | 5.3 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 10 | 5.3 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 10 | 5.3 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 10 | 5.3 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 10 | 5.3 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 10 | 5.3 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 10 | 5.3 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 10 | 5.3 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 17 | 5.3 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 17 | 5.3 |
| (1,5045) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 17 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 2 | 5.3 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 1 | 5.3 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 1 | 5.3 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 1 | 5.3 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 10 | 5.3 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 8 | 5.3 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 8 | 5.3 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 8 | 5.3 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 2 | 5.3 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 2 | 5.3 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 2 | 5.3 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 6 | 5.3 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 6 | 5.3 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 6 | 5.3 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 6 | 5.3 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 9 | 5.3 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 5 | 5.3 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 5 | 5.3 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 5 | 5.3 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 5 | 5.3 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 5 | 5.3 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 5 | 5.3 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 9 | 5.3 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 9 | 5.3 |
| (1,4480) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 9 | 5.3 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 2 | 5.3 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 2 | 5.3 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 19 | 5.3 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 19 | 5.3 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 19 | 5.3 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 19 | 5.3 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 19 | 5.3 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 19 | 5.3 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 19 | 5.3 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 19 | 5.3 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 19 | 5.3 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 19 | 5.3 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 3 | 5.3 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 8 | 5.3 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 8 | 5.3 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 8 | 5.3 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 11 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 18 | 5.3 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 1 | 5.3 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 1 | 5.3 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 1 | 5.3 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 1 | 5.3 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 1 | 5.3 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 1 | 5.3 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 10 | 5.3 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 10 | 5.3 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 10 | 5.3 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 4 | 5.3 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 4 | 5.3 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 4 | 5.3 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 7 | 5.3 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 10 | 5.3 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 10 | 5.3 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 10 | 5.3 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 8 | 5.3 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 8 | 5.3 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 14 | 5.3 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 10 | 5.3 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 8 | 5.3 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 18 | 5.3 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 18 | 5.3 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 16 | 5.3 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 16 | 5.3 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 16 | 5.3 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 16 | 5.3 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 16 | 5.3 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 16 | 5.3 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 6 | 5.3 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 13 | 5.3 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 13 | 5.3 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 13 | 5.3 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 13 | 5.3 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 13 | 5.3 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 13 | 5.3 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 13 | 5.3 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 13 | 5.3 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 18 | 5.3 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 18 | 5.3 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 12 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 12 | 5.3 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 3 | 5.3 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 14 | 5.3 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 4 | 5.3 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 10 | 5.3 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 10 | 5.3 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 10 | 5.3 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 13 | 5.3 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 13 | 5.3 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 16 | 5.3 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 9 | 5.3 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 20 | 5.3 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 18 | 5.3 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 5.3 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 18 | 5.3 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 11 | 5.3 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 11 | 5.3 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 11 | 5.3 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 19 | 5.3 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 17 | 5.3 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 12 | 5.3 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 14 | 5.3 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 15 | 5.3 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 15 | 5.3 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 15 | 5.3 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 13 | 5.3 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 13 | 5.3 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 13 | 5.3 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 20 | 5.3 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 20 | 5.3 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 20 | 5.3 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 19 | 5.3 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 19 | 5.3 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 19 | 5.3 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 15 | 5.3 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 15 | 5.3 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 15 | 5.3 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 12 | 5.3 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 12 | 5.3 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 12 | 5.3 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 1 | 5.3 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 1 | 5.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 1 | 5.3 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 6 | 5.3 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 6 | 5.3 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 6 | 5.3 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 19 | 5.3 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 19 | 5.3 |
| (1,1164) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 19 | 5.3 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 19 | 5.3 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 7 | 5.3 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 7 | 5.3 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 7 | 5.3 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 4 | 5.3 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 4 | 5.3 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 4 | 5.3 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 4 | 5.3 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 6 | 5.3 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 15 | 5.3 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 4 | 5.3 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 4 | 5.3 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 2 | 5.3 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 5.3 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 5.3 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 5.3 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 5.3 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 5.3 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 5.3 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 5.3 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 5.3 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 5.3 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 16 | 5.3 |
| (4,322) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 17 | 5.29 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 15 | 5.29 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 8 | 5.29 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 17 | 5.29 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 4 | 5.29 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 4 | 5.29 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 13 | 5.29 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 13 | 5.29 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 17 | 5.29 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 17 | 5.29 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 2 | 5.29 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 2 | 5.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 5 | 5.29 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 5 | 5.29 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 4 | 5.29 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 4 | 5.29 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 2 | 5.29 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 2 | 5.29 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 5 | 5.29 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 5 | 5.29 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 5 | 5.29 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 5 | 5.29 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 9 | 5.29 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 9 | 5.29 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 9 | 5.29 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 9 | 5.29 |
| (1,9251) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 10 | 5.29 |
| (1,9251) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 10 | 5.29 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 13 | 5.29 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 13 | 5.29 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 13 | 5.29 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 13 | 5.29 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 13 | 5.29 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 13 | 5.29 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 10 | 5.29 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 10 | 5.29 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 20 | 5.29 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 20 | 5.29 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 14 | 5.29 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 14 | 5.29 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 15 | 5.29 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 15 | 5.29 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 13 | 5.29 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 13 | 5.29 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 10 | 5.29 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 10 | 5.29 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 6 | 5.29 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 6 | 5.29 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 6 | 5.29 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 6 | 5.29 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 18 | 5.29 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 18 | 5.29 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 18 | 5.29 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 18 | 5.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 18 | 5.29 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 18 | 5.29 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 4 | 5.29 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 4 | 5.29 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 20 | 5.29 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 20 | 5.29 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 8 | 5.29 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 8 | 5.29 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 8 | 5.29 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 8 | 5.29 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 8 | 5.29 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 8 | 5.29 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 19 | 5.29 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 19 | 5.29 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 16 | 5.29 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 16 | 5.29 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 16 | 5.29 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 16 | 5.29 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 16 | 5.29 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 16 | 5.29 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 16 | 5.29 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 16 | 5.29 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 16 | 5.29 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 16 | 5.29 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 16 | 5.29 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 12 | 5.29 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 12 | 5.29 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 12 | 5.29 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 5 | 5.29 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 17 | 5.29 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 17 | 5.29 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 20 | 5.29 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 11 | 5.29 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 11 | 5.29 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 11 | 5.29 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 11 | 5.29 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 11 | 5.29 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 11 | 5.29 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 12 | 5.29 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 7 | 5.29 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 1 | 5.29 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 3 | 5.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 18 | 5.29 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 18 | 5.29 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 18 | 5.29 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 14 | 5.29 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 6 | 5.29 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 4 | 5.29 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 4 | 5.29 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 4 | 5.29 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 4 | 5.29 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 4 | 5.29 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 4 | 5.29 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 4 | 5.29 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 4 | 5.29 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 4 | 5.29 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 16 | 5.29 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 10 | 5.29 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 18 | 5.29 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 6 | 5.29 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 7 | 5.29 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 7 | 5.29 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 7 | 5.29 |
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 4 | 5.29 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 10 | 5.29 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 10 | 5.29 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 10 | 5.29 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 8 | 5.29 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 8 | 5.29 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 7 | 5.29 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 2 | 5.29 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 2 | 5.29 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 2 | 5.29 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 5 | 5.29 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 3 | 5.29 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 3 | 5.29 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 3 | 5.29 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 3 | 5.29 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 3 | 5.29 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 3 | 5.29 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 3 | 5.29 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 3 | 5.29 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 3 | 5.29 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 5 | 5.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 5 | 5.29 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 5 | 5.29 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 5 | 5.29 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 5 | 5.29 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 5 | 5.29 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 20 | 5.29 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 2 | 5.29 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 10 | 5.29 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 5 | 5.29 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 5 | 5.29 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 5 | 5.29 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 11 | 5.29 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 11 | 5.29 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 16 | 5.29 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 10 | 5.29 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 10 | 5.29 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 10 | 5.29 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 11 | 5.29 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 19 | 5.29 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 14 | 5.29 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 14 | 5.29 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 14 | 5.29 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 14 | 5.29 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 14 | 5.29 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 14 | 5.29 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 20 | 5.29 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 6 | 5.29 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 6 | 5.29 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 10 | 5.29 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 10 | 5.29 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 17 | 5.29 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 17 | 5.29 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 6 | 5.29 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 6 | 5.29 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 6 | 5.29 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 12 | 5.29 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 12 | 5.29 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 12 | 5.29 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 12 | 5.29 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 15 | 5.29 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 8 | 5.29 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 8 | 5.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 10 | 5.29 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 10 | 5.29 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 10 | 5.29 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 7 | 5.29 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 7 | 5.29 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 7 | 5.29 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 7 | 5.29 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 7 | 5.29 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 7 | 5.29 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 7 | 5.29 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 7 | 5.29 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 7 | 5.29 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 2 | 5.29 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 2 | 5.29 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 2 | 5.29 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 2 | 5.29 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 2 | 5.29 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 2 | 5.29 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 19 | 5.29 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 2 | 5.29 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 2 | 5.29 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 2 | 5.29 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 9 | 5.29 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 9 | 5.29 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 9 | 5.29 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 5 | 5.29 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 5 | 5.29 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 5 | 5.29 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 5 | 5.29 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 5 | 5.29 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 5 | 5.29 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 10 | 5.29 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 10 | 5.29 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 10 | 5.29 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 19 | 5.29 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 1 | 5.29 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 16 | 5.29 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 16 | 5.29 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 16 | 5.29 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 7 | 5.29 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 7 | 5.29 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 7 | 5.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 17 | 5.29 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 6 | 5.29 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 6 | 5.29 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 6 | 5.29 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 1 | 5.29 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 1 | 5.29 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 1 | 5.29 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 1 | 5.29 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 4 | 5.29 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 16 | 5.29 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 3 | 5.29 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 3 | 5.29 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 9 | 5.29 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 9 | 5.29 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 9 | 5.29 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 12 | 5.29 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 6 | 5.29 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 4 | 5.29 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 18 | 5.29 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 19 | 5.29 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 17 | 5.29 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 17 | 5.29 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 17 | 5.29 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 13 | 5.29 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 9 | 5.29 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 9 | 5.29 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 9 | 5.29 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 13 | 5.29 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 13 | 5.29 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 6 | 5.29 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 5.29 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 12 | 5.29 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 12 | 5.29 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 12 | 5.29 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 2 | 5.29 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 2 | 5.29 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 6 | 5.29 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 16 | 5.29 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 18 | 5.29 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 4 | 5.29 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 11 | 5.29 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 19 | 5.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 19 | 5.29 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 9 | 5.29 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 9 | 5.29 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 9 | 5.29 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 14 | 5.29 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 14 | 5.29 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 19 | 5.29 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 18 | 5.29 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 18 | 5.29 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 18 | 5.29 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 18 | 5.29 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 18 | 5.29 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 18 | 5.29 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 5.29 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 5.29 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 5.29 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 17 | 5.29 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 17 | 5.29 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 4 | 5.29 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 4 | 5.29 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 5.29 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 19 | 5.29 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 19 | 5.29 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 11 | 5.29 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 11 | 5.29 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 19 | 5.29 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 14 | 5.29 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 14 | 5.29 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 14 | 5.29 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 14 | 5.29 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 14 | 5.29 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 14 | 5.29 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 20 | 5.29 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 6 | 5.29 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 6 | 5.29 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 10 | 5.29 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 10 | 5.29 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 17 | 5.29 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 17 | 5.29 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 6 | 5.29 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 6 | 5.29 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 6 | 5.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 12 | 5.29 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 12 | 5.29 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 12 | 5.29 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 12 | 5.29 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 15 | 5.29 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 8 | 5.29 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 8 | 5.29 |
| (1,2992) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 18 | 5.29 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 6 | 5.29 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 10 | 5.29 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 10 | 5.29 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 10 | 5.29 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 9 | 5.29 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 9 | 5.29 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 7 | 5.29 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 7 | 5.29 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 7 | 5.29 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 7 | 5.29 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 7 | 5.29 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 7 | 5.29 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 7 | 5.29 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 7 | 5.29 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 7 | 5.29 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 2 | 5.29 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 2 | 5.29 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 2 | 5.29 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 2 | 5.29 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 2 | 5.29 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 2 | 5.29 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 15 | 5.29 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 15 | 5.29 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 15 | 5.29 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 19 | 5.29 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 13 | 5.29 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 2 | 5.29 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 2 | 5.29 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 2 | 5.29 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 15 | 5.29 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 5.29 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 5.29 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 5.29 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 9 | 5.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 9 | 5.29 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 9 | 5.29 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 5 | 5.29 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 5 | 5.29 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 5 | 5.29 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 5 | 5.29 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 5 | 5.29 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 5 | 5.29 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 10 | 5.29 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 10 | 5.29 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 10 | 5.29 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 4 | 5.29 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 3 | 5.29 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 3 | 5.29 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 3 | 5.29 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 19 | 5.29 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 1 | 5.29 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 16 | 5.29 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 16 | 5.29 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 16 | 5.29 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 2 | 5.29 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 13 | 5.29 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 7 | 5.29 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 7 | 5.29 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 7 | 5.29 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 7 | 5.29 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 7 | 5.29 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 16 | 5.29 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 17 | 5.29 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 5 | 5.29 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 5 | 5.29 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 5 | 5.29 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 12 | 5.29 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 9 | 5.28 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 1 | 5.28 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 7 | 5.28 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 12 | 5.28 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 12 | 5.28 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 12 | 5.28 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 12 | 5.28 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 12 | 5.28 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 12 | 5.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 11 | 5.28 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 11 | 5.28 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 11 | 5.28 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 11 | 5.28 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 11 | 5.28 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 11 | 5.28 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 18 | 5.28 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 18 | 5.28 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 2 | 5.28 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 2 | 5.28 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 11 | 5.28 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 11 | 5.28 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 14 | 5.28 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 14 | 5.28 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 14 | 5.28 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 14 | 5.28 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 11 | 5.28 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 11 | 5.28 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 18 | 5.28 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 18 | 5.28 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 9 | 5.28 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 9 | 5.28 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 6 | 5.28 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 6 | 5.28 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 4 | 5.28 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 4 | 5.28 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 10 | 5.28 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 10 | 5.28 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 10 | 5.28 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 10 | 5.28 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 13 | 5.28 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 13 | 5.28 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 12 | 5.28 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 12 | 5.28 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 16 | 5.28 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 16 | 5.28 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 16 | 5.28 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 16 | 5.28 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 16 | 5.28 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 16 | 5.28 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 2 | 5.28 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 2 | 5.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 2 | 5.28 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 2 | 5.28 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 2 | 5.28 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 2 | 5.28 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 10 | 5.28 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 10 | 5.28 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 2 | 5.28 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 2 | 5.28 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 2 | 5.28 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 2 | 5.28 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 2 | 5.28 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 2 | 5.28 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 5 | 5.28 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 5 | 5.28 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 19 | 5.28 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 19 | 5.28 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 7 | 5.28 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 7 | 5.28 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 18 | 5.28 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 18 | 5.28 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 1 | 5.28 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 1 | 5.28 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 13 | 5.28 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 13 | 5.28 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 7 | 5.28 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 7 | 5.28 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 7 | 5.28 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 11 | 5.28 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 11 | 5.28 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 11 | 5.28 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 18 | 5.28 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 18 | 5.28 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 18 | 5.28 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 18 | 5.28 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 18 | 5.28 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 18 | 5.28 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 11 | 5.28 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 11 | 5.28 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 11 | 5.28 |
| (1,8412) | 1:141:A:LEU:H | 1:145:A:GLU:HB2 | 13 | 5.28 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 9 | 5.28 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 14 | 5.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 14 | 5.28 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 20 | 5.28 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 11 | 5.28 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 2 | 5.28 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 16 | 5.28 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 16 | 5.28 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 1 | 5.28 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 15 | 5.28 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 15 | 5.28 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 15 | 5.28 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 15 | 5.28 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 9 | 5.28 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 18 | 5.28 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 15 | 5.28 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 11 | 5.28 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 11 | 5.28 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 11 | 5.28 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 6 | 5.28 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 6 | 5.28 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 6 | 5.28 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 15 | 5.28 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 15 | 5.28 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 15 | 5.28 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 14 | 5.28 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 5 | 5.28 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 15 | 5.28 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 15 | 5.28 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 15 | 5.28 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 15 | 5.28 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 15 | 5.28 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 15 | 5.28 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 15 | 5.28 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 15 | 5.28 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 15 | 5.28 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 2 | 5.28 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 2 | 5.28 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 2 | 5.28 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 14 | 5.28 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 14 | 5.28 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 16 | 5.28 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 9 | 5.28 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 8 | 5.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 8 | 5.28 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 4 | 5.28 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 18 | 5.28 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 18 | 5.28 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 19 | 5.28 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 3 | 5.28 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 3 | 5.28 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 3 | 5.28 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG21 | 6 | 5.28 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG22 | 6 | 5.28 |
| (1,7351) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HG23 | 6 | 5.28 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG21 | 6 | 5.28 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG22 | 6 | 5.28 |
| (1,7351) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HG23 | 6 | 5.28 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 14 | 5.28 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 5 | 5.28 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 5 | 5.28 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 13 | 5.28 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 13 | 5.28 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 13 | 5.28 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 17 | 5.28 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 17 | 5.28 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 9 | 5.28 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 9 | 5.28 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 20 | 5.28 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 20 | 5.28 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 20 | 5.28 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 20 | 5.28 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 20 | 5.28 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 20 | 5.28 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 11 | 5.28 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 10 | 5.28 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 3 | 5.28 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 3 | 5.28 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 5 | 5.28 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 11 | 5.28 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 11 | 5.28 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 11 | 5.28 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 11 | 5.28 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 11 | 5.28 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 11 | 5.28 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 11 | 5.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 11 | 5.28 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 11 | 5.28 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 1 | 5.28 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 16 | 5.28 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 16 | 5.28 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 4 | 5.28 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 4 | 5.28 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 4 | 5.28 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 3 | 5.28 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 3 | 5.28 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 3 | 5.28 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 3 | 5.28 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 3 | 5.28 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 3 | 5.28 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 19 | 5.28 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 2 | 5.28 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 17 | 5.28 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 5.28 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 11 | 5.28 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 11 | 5.28 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 11 | 5.28 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 11 | 5.28 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 11 | 5.28 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 11 | 5.28 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 10 | 5.28 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 10 | 5.28 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 10 | 5.28 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 17 | 5.28 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 17 | 5.28 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 17 | 5.28 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 17 | 5.28 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 13 | 5.28 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 4 | 5.28 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 19 | 5.28 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 7 | 5.28 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 7 | 5.28 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 7 | 5.28 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 12 | 5.28 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 12 | 5.28 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 12 | 5.28 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 13 | 5.28 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 18 | 5.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 18 | 5.28 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 18 | 5.28 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 18 | 5.28 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 18 | 5.28 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 2 | 5.28 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 19 | 5.28 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 19 | 5.28 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 6 | 5.28 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 6 | 5.28 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 14 | 5.28 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 12 | 5.28 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 8 | 5.28 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 19 | 5.28 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 14 | 5.28 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 14 | 5.28 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 14 | 5.28 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 2 | 5.28 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 2 | 5.28 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 2 | 5.28 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 2 | 5.28 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 2 | 5.28 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 2 | 5.28 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 10 | 5.28 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 10 | 5.28 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 14 | 5.28 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 14 | 5.28 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 5.28 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 18 | 5.28 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 18 | 5.28 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 4 | 5.28 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 18 | 5.28 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 13 | 5.28 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 13 | 5.28 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 13 | 5.28 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 13 | 5.28 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 17 | 5.28 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 17 | 5.28 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 11 | 5.28 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 9 | 5.28 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 9 | 5.28 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 20 | 5.28 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 20 | 5.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 20 | 5.28 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 20 | 5.28 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 20 | 5.28 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 20 | 5.28 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 11 | 5.28 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 5 | 5.28 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 5 | 5.28 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 5 | 5.28 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 10 | 5.28 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 13 | 5.28 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 13 | 5.28 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 13 | 5.28 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 3 | 5.28 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 3 | 5.28 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 5 | 5.28 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 12 | 5.28 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 12 | 5.28 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 12 | 5.28 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 20 | 5.28 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 15 | 5.28 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 11 | 5.28 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 11 | 5.28 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 11 | 5.28 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 11 | 5.28 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 11 | 5.28 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 11 | 5.28 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 11 | 5.28 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 11 | 5.28 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 11 | 5.28 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 8 | 5.28 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 8 | 5.28 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 8 | 5.28 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 5.28 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 5.28 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 5.28 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 5.28 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 5.28 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 1 | 5.28 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 15 | 5.28 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 18 | 5.28 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 18 | 5.28 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 18 | 5.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 16 | 5.28 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 16 | 5.28 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 4 | 5.28 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 4 | 5.28 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 4 | 5.28 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 3 | 5.28 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 3 | 5.28 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 3 | 5.28 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 3 | 5.28 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 3 | 5.28 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 3 | 5.28 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 9 | 5.28 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 9 | 5.28 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 15 | 5.28 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 19 | 5.28 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 2 | 5.28 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 17 | 5.28 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 5.28 |
| (1,648) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 14 | 5.28 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 1 | 5.28 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 1 | 5.28 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 1 | 5.28 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 11 | 5.28 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 11 | 5.28 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 11 | 5.28 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 11 | 5.28 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 11 | 5.28 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 11 | 5.28 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 18 | 5.28 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 18 | 5.28 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 18 | 5.28 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 8 | 5.28 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 13 | 5.28 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 16 | 5.28 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 5 | 5.27 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 2 | 5.27 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 5 | 5.27 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 1 | 5.27 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 1 | 5.27 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 15 | 5.27 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 15 | 5.27 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 1 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 1 | 5.27 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 12 | 5.27 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 12 | 5.27 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 12 | 5.27 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 12 | 5.27 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 9 | 5.27 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 9 | 5.27 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 15 | 5.27 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 15 | 5.27 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 15 | 5.27 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 15 | 5.27 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 16 | 5.27 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 16 | 5.27 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 17 | 5.27 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 17 | 5.27 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 17 | 5.27 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 17 | 5.27 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 17 | 5.27 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 17 | 5.27 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 17 | 5.27 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 17 | 5.27 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 4 | 5.27 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 4 | 5.27 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 9 | 5.27 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 9 | 5.27 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 9 | 5.27 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 9 | 5.27 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 4 | 5.27 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 4 | 5.27 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 8 | 5.27 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 8 | 5.27 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 9 | 5.27 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 9 | 5.27 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 9 | 5.27 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 9 | 5.27 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 9 | 5.27 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 9 | 5.27 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 13 | 5.27 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 13 | 5.27 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 11 | 5.27 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 11 | 5.27 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 2 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 2 | 5.27 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 9 | 5.27 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 9 | 5.27 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 9 | 5.27 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 9 | 5.27 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 13 | 5.27 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 13 | 5.27 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 8 | 5.27 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 8 | 5.27 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 2 | 5.27 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 2 | 5.27 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 16 | 5.27 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 16 | 5.27 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 16 | 5.27 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 16 | 5.27 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 8 | 5.27 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 8 | 5.27 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 19 | 5.27 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 19 | 5.27 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 19 | 5.27 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 19 | 5.27 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 19 | 5.27 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 19 | 5.27 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 17 | 5.27 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 17 | 5.27 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 11 | 5.27 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 11 | 5.27 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 11 | 5.27 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 11 | 5.27 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 11 | 5.27 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 11 | 5.27 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 16 | 5.27 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 16 | 5.27 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 13 | 5.27 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 2 | 5.27 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 2 | 5.27 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 2 | 5.27 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 12 | 5.27 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 12 | 5.27 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 12 | 5.27 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 12 | 5.27 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 12 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 12 | 5.27 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 12 | 5.27 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 12 | 5.27 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 12 | 5.27 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 14 | 5.27 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 3 | 5.27 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 3 | 5.27 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 3 | 5.27 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 14 | 5.27 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 20 | 5.27 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 20 | 5.27 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 20 | 5.27 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 20 | 5.27 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 20 | 5.27 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 20 | 5.27 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 20 | 5.27 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 7 | 5.27 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 7 | 5.27 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 6 | 5.27 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 20 | 5.27 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 12 | 5.27 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 12 | 5.27 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 3 | 5.27 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 3 | 5.27 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 3 | 5.27 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 13 | 5.27 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 6 | 5.27 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 6 | 5.27 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 4 | 5.27 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 8 | 5.27 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 4 | 5.27 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 4 | 5.27 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 4 | 5.27 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 17 | 5.27 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 14 | 5.27 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 14 | 5.27 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 14 | 5.27 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 3 | 5.27 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 1 | 5.27 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 7 | 5.27 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 7 | 5.27 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 7 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8010) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 9 | 5.27 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 16 | 5.27 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 19 | 5.27 |
| (1,7949) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 7 | 5.27 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 18 | 5.27 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 9 | 5.27 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 9 | 5.27 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 9 | 5.27 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 18 | 5.27 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 2 | 5.27 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 3 | 5.27 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 13 | 5.27 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 13 | 5.27 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 13 | 5.27 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 13 | 5.27 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 13 | 5.27 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 13 | 5.27 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 13 | 5.27 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 13 | 5.27 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 13 | 5.27 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 11 | 5.27 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 11 | 5.27 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 11 | 5.27 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 11 | 5.27 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 11 | 5.27 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 11 | 5.27 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 11 | 5.27 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 11 | 5.27 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 11 | 5.27 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 20 | 5.27 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 4 | 5.27 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 4 | 5.27 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 4 | 5.27 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 4 | 5.27 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 4 | 5.27 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 4 | 5.27 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 4 | 5.27 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 4 | 5.27 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 4 | 5.27 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 2 | 5.27 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 2 | 5.27 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 7 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 7 | 5.27 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 11 | 5.27 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 11 | 5.27 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 1 | 5.27 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 1 | 5.27 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 1 | 5.27 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 1 | 5.27 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 6 | 5.27 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 19 | 5.27 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 4 | 5.27 |
| (1,7647) | 1:28:A:ILE:HD11 | 1:30:A:ASN:H | 8 | 5.27 |
| (1,7647) | 1:28:A:ILE:HD12 | 1:30:A:ASN:H | 8 | 5.27 |
| (1,7647) | 1:28:A:ILE:HD13 | 1:30:A:ASN:H | 8 | 5.27 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 2 | 5.27 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 10 | 5.27 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 15 | 5.27 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 4 | 5.27 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 4 | 5.27 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 4 | 5.27 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 9 | 5.27 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 19 | 5.27 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 19 | 5.27 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 1 | 5.27 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 1 | 5.27 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 1 | 5.27 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 16 | 5.27 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 12 | 5.27 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 4 | 5.27 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 4 | 5.27 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 4 | 5.27 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 18 | 5.27 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 3 | 5.27 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 7 | 5.27 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 7 | 5.27 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 8 | 5.27 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 12 | 5.27 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 12 | 5.27 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 12 | 5.27 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 7 | 5.27 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 7 | 5.27 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 7 | 5.27 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 7 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 7 | 5.27 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 7 | 5.27 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 7 | 5.27 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 7 | 5.27 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 7 | 5.27 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 8 | 5.27 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 8 | 5.27 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 8 | 5.27 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 6 | 5.27 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 16 | 5.27 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 16 | 5.27 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 16 | 5.27 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 16 | 5.27 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 16 | 5.27 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 16 | 5.27 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 16 | 5.27 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 16 | 5.27 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 16 | 5.27 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 5 | 5.27 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 5 | 5.27 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 5 | 5.27 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 14 | 5.27 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 16 | 5.27 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 15 | 5.27 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 12 | 5.27 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 12 | 5.27 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 12 | 5.27 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 13 | 5.27 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 13 | 5.27 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 13 | 5.27 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 15 | 5.27 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 15 | 5.27 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 15 | 5.27 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 15 | 5.27 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 15 | 5.27 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 15 | 5.27 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 15 | 5.27 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 15 | 5.27 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 15 | 5.27 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 20 | 5.27 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 20 | 5.27 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 20 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 15 | 5.27 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 15 | 5.27 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 3 | 5.27 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 3 | 5.27 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 3 | 5.27 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 3 | 5.27 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 3 | 5.27 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 3 | 5.27 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 18 | 5.27 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 17 | 5.27 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 17 | 5.27 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 18 | 5.27 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 9 | 5.27 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 9 | 5.27 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 7 | 5.27 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 15 | 5.27 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 11 | 5.27 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 16 | 5.27 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 16 | 5.27 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 15 | 5.27 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 9 | 5.27 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 9 | 5.27 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 9 | 5.27 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 14 | 5.27 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 8 | 5.27 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 8 | 5.27 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 15 | 5.27 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 11 | 5.27 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 11 | 5.27 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 11 | 5.27 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 11 | 5.27 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 9 | 5.27 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 9 | 5.27 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 9 | 5.27 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 9 | 5.27 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 13 | 5.27 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 13 | 5.27 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 1 | 5.27 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 13 | 5.27 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 13 | 5.27 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 13 | 5.27 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 11 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 8 | 5.27 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 8 | 5.27 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 5.27 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 8 | 5.27 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 8 | 5.27 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 8 | 5.27 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 16 | 5.27 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 16 | 5.27 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 16 | 5.27 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 16 | 5.27 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 17 | 5.27 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 5.27 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 5.27 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 5.27 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 5.27 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 5.27 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 5.27 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 19 | 5.27 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 19 | 5.27 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 19 | 5.27 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 19 | 5.27 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 19 | 5.27 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 19 | 5.27 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 19 | 5.27 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 19 | 5.27 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 19 | 5.27 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 14 | 5.27 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 14 | 5.27 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 1 | 5.27 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 1 | 5.27 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 1 | 5.27 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 12 | 5.27 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 16 | 5.27 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 12 | 5.27 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 4 | 5.27 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 4 | 5.27 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 4 | 5.27 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 18 | 5.27 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 3 | 5.27 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 7 | 5.27 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 7 | 5.27 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 13 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 13 | 5.27 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 13 | 5.27 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 13 | 5.27 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 13 | 5.27 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 13 | 5.27 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 8 | 5.27 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 19 | 5.27 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 1 | 5.27 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 12 | 5.27 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 12 | 5.27 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 12 | 5.27 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 7 | 5.27 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 7 | 5.27 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 7 | 5.27 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 7 | 5.27 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 7 | 5.27 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 7 | 5.27 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 7 | 5.27 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 7 | 5.27 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 7 | 5.27 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 8 | 5.27 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 8 | 5.27 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 8 | 5.27 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 6 | 5.27 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 16 | 5.27 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 16 | 5.27 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 16 | 5.27 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 16 | 5.27 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 16 | 5.27 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 9 | 5.27 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 3 | 5.27 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 16 | 5.27 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 16 | 5.27 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 16 | 5.27 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 16 | 5.27 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 16 | 5.27 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 16 | 5.27 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 3 | 5.27 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 5.27 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 5 | 5.27 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 5 | 5.27 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 5 | 5.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 3 | 5.27 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 3 | 5.27 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 3 | 5.27 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 14 | 5.26 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 4 | 5.26 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 18 | 5.26 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 14 | 5.26 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 14 | 5.26 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 13 | 5.26 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 13 | 5.26 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 7 | 5.26 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 7 | 5.26 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 2 | 5.26 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 2 | 5.26 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 8 | 5.26 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 8 | 5.26 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 19 | 5.26 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 19 | 5.26 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 19 | 5.26 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 19 | 5.26 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 2 | 5.26 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 2 | 5.26 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 5 | 5.26 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 5 | 5.26 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 4 | 5.26 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 4 | 5.26 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 10 | 5.26 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 10 | 5.26 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 18 | 5.26 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 18 | 5.26 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 8 | 5.26 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 8 | 5.26 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 18 | 5.26 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 18 | 5.26 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 2 | 5.26 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 2 | 5.26 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 2 | 5.26 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 2 | 5.26 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 2 | 5.26 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 2 | 5.26 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 5 | 5.26 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 5 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 11 | 5.26 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 11 | 5.26 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 16 | 5.26 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 16 | 5.26 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 16 | 5.26 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 16 | 5.26 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 4 | 5.26 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 4 | 5.26 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 4 | 5.26 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 4 | 5.26 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 4 | 5.26 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 4 | 5.26 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 11 | 5.26 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 11 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 12 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 12 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 12 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 12 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 12 | 5.26 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 12 | 5.26 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 17 | 5.26 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 17 | 5.26 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 5 | 5.26 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 5 | 5.26 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 5 | 5.26 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 5 | 5.26 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 6 | 5.26 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 6 | 5.26 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 6 | 5.26 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 6 | 5.26 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 6 | 5.26 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 6 | 5.26 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 17 | 5.26 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 17 | 5.26 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 3 | 5.26 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 3 | 5.26 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 11 | 5.26 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 11 | 5.26 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 1 | 5.26 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 1 | 5.26 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 10 | 5.26 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 10 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 16 | 5.26 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 16 | 5.26 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 10 | 5.26 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 10 | 5.26 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 10 | 5.26 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 10 | 5.26 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 12 | 5.26 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 12 | 5.26 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 12 | 5.26 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 12 | 5.26 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 12 | 5.26 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 12 | 5.26 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 9 | 5.26 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 9 | 5.26 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 11 | 5.26 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 11 | 5.26 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 11 | 5.26 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 11 | 5.26 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 11 | 5.26 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 11 | 5.26 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 17 | 5.26 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 17 | 5.26 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 12 | 5.26 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 12 | 5.26 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 12 | 5.26 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 12 | 5.26 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 12 | 5.26 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 12 | 5.26 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 17 | 5.26 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 17 | 5.26 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 17 | 5.26 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 15 | 5.26 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 12 | 5.26 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 6 | 5.26 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 6 | 5.26 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 16 | 5.26 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 16 | 5.26 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 16 | 5.26 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 10 | 5.26 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 1 | 5.26 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 16 | 5.26 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 5 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 5 | 5.26 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 16 | 5.26 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 13 | 5.26 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 13 | 5.26 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 17 | 5.26 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 17 | 5.26 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 17 | 5.26 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 17 | 5.26 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 17 | 5.26 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 17 | 5.26 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 11 | 5.26 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 11 | 5.26 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 11 | 5.26 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 11 | 5.26 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 11 | 5.26 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 11 | 5.26 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 11 | 5.26 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 11 | 5.26 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 11 | 5.26 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 1 | 5.26 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 7 | 5.26 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 17 | 5.26 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 16 | 5.26 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 5 | 5.26 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 5 | 5.26 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 5 | 5.26 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 9 | 5.26 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 17 | 5.26 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 17 | 5.26 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 17 | 5.26 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 15 | 5.26 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 6 | 5.26 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 6 | 5.26 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 15 | 5.26 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 15 | 5.26 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 3 | 5.26 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 2 | 5.26 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 17 | 5.26 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 17 | 5.26 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 17 | 5.26 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 9 | 5.26 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 9 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 9 | 5.26 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 19 | 5.26 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 3 | 5.26 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 16 | 5.26 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 16 | 5.26 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 16 | 5.26 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 18 | 5.26 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 18 | 5.26 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 18 | 5.26 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 7 | 5.26 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 7 | 5.26 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 7 | 5.26 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 4 | 5.26 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 7 | 5.26 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 7 | 5.26 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 17 | 5.26 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 9 | 5.26 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 3 | 5.26 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 3 | 5.26 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 20 | 5.26 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 9 | 5.26 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 6 | 5.26 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 17 | 5.26 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 3 | 5.26 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 18 | 5.26 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 8 | 5.26 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 8 | 5.26 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 14 | 5.26 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 2 | 5.26 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 2 | 5.26 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 2 | 5.26 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 2 | 5.26 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 2 | 5.26 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 2 | 5.26 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 2 | 5.26 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 2 | 5.26 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 2 | 5.26 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 13 | 5.26 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 14 | 5.26 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 14 | 5.26 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 14 | 5.26 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 8 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 8 | 5.26 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 16 | 5.26 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 16 | 5.26 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 5.26 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 16 | 5.26 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 6 | 5.26 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 6 | 5.26 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 4 | 5.26 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 1 | 5.26 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 1 | 5.26 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 18 | 5.26 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 18 | 5.26 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 18 | 5.26 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 12 | 5.26 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 6 | 5.26 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 6 | 5.26 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 16 | 5.26 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 16 | 5.26 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 16 | 5.26 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 16 | 5.26 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 20 | 5.26 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 11 | 5.26 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 8 | 5.26 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 3 | 5.26 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 18 | 5.26 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 9 | 5.26 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 20 | 5.26 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 20 | 5.26 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 20 | 5.26 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 5.26 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 5.26 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 5.26 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 5.26 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 5.26 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 5.26 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 5.26 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 5.26 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 5.26 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 1 | 5.26 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 1 | 5.26 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 1 | 5.26 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 16 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 15 | 5.26 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 15 | 5.26 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 13 | 5.26 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 10 | 5.26 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 10 | 5.26 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 10 | 5.26 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 10 | 5.26 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 3 | 5.26 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 7 | 5.26 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 7 | 5.26 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 7 | 5.26 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 13 | 5.26 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 13 | 5.26 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 13 | 5.26 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 13 | 5.26 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 13 | 5.26 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 13 | 5.26 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 11 | 5.26 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 11 | 5.26 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 11 | 5.26 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 13 | 5.26 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 12 | 5.26 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 15 | 5.26 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 9 | 5.26 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 9 | 5.26 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 9 | 5.26 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 2 | 5.26 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 2 | 5.26 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 2 | 5.26 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 5 | 5.26 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 5 | 5.26 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 5 | 5.26 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 12 | 5.26 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 12 | 5.26 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 12 | 5.26 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 12 | 5.26 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 12 | 5.26 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 12 | 5.26 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 18 | 5.26 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 3 | 5.26 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 3 | 5.26 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 3 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 3 | 5.26 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 11 | 5.26 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 13 | 5.26 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 18 | 5.26 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 18 | 5.26 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 18 | 5.26 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 7 | 5.26 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 7 | 5.26 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 5 | 5.26 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 15 | 5.26 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 5.26 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 5.26 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 5.26 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 5.26 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 5.26 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 5.26 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 18 | 5.26 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 18 | 5.26 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 8 | 5.26 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 8 | 5.26 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 5 | 5.26 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 5 | 5.26 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 11 | 5.26 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 11 | 5.26 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 19 | 5.26 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 19 | 5.26 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 16 | 5.26 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 16 | 5.26 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 16 | 5.26 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 16 | 5.26 |
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 11 | 5.26 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 11 | 5.26 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 7 | 5.26 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 7 | 5.26 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 7 | 5.26 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 19 | 5.26 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 19 | 5.26 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 19 | 5.26 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 6 | 5.26 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 6 | 5.26 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 6 | 5.26 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 6 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 6 | 5.26 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 6 | 5.26 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 10 | 5.26 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 14 | 5.26 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 3 | 5.26 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 3 | 5.26 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 11 | 5.26 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 10 | 5.26 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 10 | 5.26 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 10 | 5.26 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 10 | 5.26 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 12 | 5.26 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 12 | 5.26 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 12 | 5.26 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 12 | 5.26 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 12 | 5.26 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 12 | 5.26 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 12 | 5.26 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 12 | 5.26 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 12 | 5.26 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 12 | 5.26 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 12 | 5.26 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 12 | 5.26 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 18 | 5.26 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 18 | 5.26 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 18 | 5.26 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 14 | 5.26 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 14 | 5.26 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 14 | 5.26 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 14 | 5.26 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 2 | 5.26 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 2 | 5.26 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 2 | 5.26 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 2 | 5.26 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 2 | 5.26 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 2 | 5.26 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 2 | 5.26 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 2 | 5.26 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 2 | 5.26 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 13 | 5.26 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 5.26 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 14 | 5.26 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 14 | 5.26 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 14 | 5.26 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 9 | 5.26 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 9 | 5.26 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 9 | 5.26 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 8 | 5.26 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 8 | 5.26 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 16 | 5.26 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 16 | 5.26 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 5.26 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 16 | 5.26 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 6 | 5.26 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 6 | 5.26 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 4 | 5.26 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 1 | 5.26 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 1 | 5.26 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 18 | 5.26 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 18 | 5.26 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 18 | 5.26 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 12 | 5.26 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 6 | 5.26 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 6 | 5.26 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 16 | 5.26 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 16 | 5.26 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 16 | 5.26 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 16 | 5.26 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 20 | 5.26 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 11 | 5.26 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 14 | 5.26 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 14 | 5.26 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 14 | 5.26 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 8 | 5.26 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 3 | 5.26 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 18 | 5.26 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 9 | 5.26 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 18 | 5.26 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 7 | 5.26 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 5 | 5.26 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 5 | 5.26 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 5 | 5.26 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 20 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 20 | 5.26 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 20 | 5.26 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 5 | 5.26 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 5 | 5.26 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 5 | 5.26 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 18 | 5.26 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 18 | 5.26 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 18 | 5.26 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 5.26 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 5.26 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 5.26 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 5.26 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 5.26 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 5.26 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 5.26 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 5.26 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 5.26 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 1 | 5.26 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 1 | 5.26 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 1 | 5.26 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 2 | 5.26 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 16 | 5.26 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 15 | 5.26 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 15 | 5.26 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 13 | 5.26 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 10 | 5.26 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 10 | 5.26 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 10 | 5.26 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 3 | 5.26 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 11 | 5.26 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 11 | 5.26 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 11 | 5.26 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 10 | 5.26 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 16 | 5.26 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 7 | 5.26 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 3 | 5.26 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 7 | 5.26 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 7 | 5.26 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 7 | 5.26 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 13 | 5.26 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 13 | 5.26 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 13 | 5.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 3 | 5.26 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 3 | 5.26 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 3 | 5.26 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 13 | 5.26 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 13 | 5.26 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 13 | 5.26 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 13 | 5.26 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 13 | 5.26 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 13 | 5.26 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 6 | 5.26 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 6 | 5.26 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 6 | 5.26 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 2 | 5.26 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 2 | 5.26 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 2 | 5.26 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 4 | 5.25 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 20 | 5.25 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 13 | 5.25 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 9 | 5.25 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 20 | 5.25 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 16 | 5.25 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 6 | 5.25 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 6 | 5.25 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 4 | 5.25 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 4 | 5.25 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 1 | 5.25 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 1 | 5.25 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 1 | 5.25 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 1 | 5.25 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 1 | 5.25 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 1 | 5.25 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 4 | 5.25 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 4 | 5.25 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 12 | 5.25 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 12 | 5.25 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 5 | 5.25 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 5 | 5.25 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 2 | 5.25 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 2 | 5.25 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 2 | 5.25 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 2 | 5.25 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 1 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 1 | 5.25 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 1 | 5.25 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 1 | 5.25 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 6 | 5.25 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 6 | 5.25 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 6 | 5.25 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 6 | 5.25 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 3 | 5.25 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 3 | 5.25 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 3 | 5.25 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 3 | 5.25 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 3 | 5.25 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 3 | 5.25 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 3 | 5.25 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 3 | 5.25 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 7 | 5.25 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 7 | 5.25 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 19 | 5.25 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 19 | 5.25 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 7 | 5.25 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 7 | 5.25 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 7 | 5.25 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 7 | 5.25 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 7 | 5.25 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 7 | 5.25 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 8 | 5.25 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 8 | 5.25 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 14 | 5.25 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 14 | 5.25 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 6 | 5.25 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 6 | 5.25 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 14 | 5.25 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 14 | 5.25 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 18 | 5.25 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 18 | 5.25 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 13 | 5.25 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 13 | 5.25 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 14 | 5.25 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 14 | 5.25 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 14 | 5.25 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 14 | 5.25 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 14 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 14 | 5.25 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 8 | 5.25 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 8 | 5.25 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 20 | 5.25 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 20 | 5.25 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 20 | 5.25 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 5.25 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 5.25 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 5.25 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 12 | 5.25 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 12 | 5.25 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 3 | 5.25 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 3 | 5.25 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 3 | 5.25 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 3 | 5.25 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 4 | 5.25 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 4 | 5.25 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 17 | 5.25 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 17 | 5.25 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 17 | 5.25 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 17 | 5.25 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 5.25 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 5.25 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 16 | 5.25 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 16 | 5.25 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 16 | 5.25 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 16 | 5.25 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 16 | 5.25 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 16 | 5.25 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 2 | 5.25 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 2 | 5.25 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 2 | 5.25 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 2 | 5.25 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 2 | 5.25 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 2 | 5.25 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 13 | 5.25 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 13 | 5.25 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 17 | 5.25 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 17 | 5.25 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 17 | 5.25 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 15 | 5.25 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 15 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 15 | 5.25 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 3 | 5.25 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 10 | 5.25 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 10 | 5.25 |
| (1,8345) | 1:133:A:PRO:HD3 | 1:153:A:ASP:H | 3 | 5.25 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 18 | 5.25 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 15 | 5.25 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 15 | 5.25 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 1 | 5.25 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 12 | 5.25 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 12 | 5.25 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 8 | 5.25 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 8 | 5.25 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 8 | 5.25 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 8 | 5.25 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 8 | 5.25 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 8 | 5.25 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 11 | 5.25 |
| (1,8147) | 1:96:A:ILE:HG13 | 1:103:A:PHE:H | 1 | 5.25 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 3 | 5.25 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 3 | 5.25 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 3 | 5.25 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 10 | 5.25 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 14 | 5.25 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 17 | 5.25 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 16 | 5.25 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 16 | 5.25 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 16 | 5.25 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 14 | 5.25 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 14 | 5.25 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 14 | 5.25 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 20 | 5.25 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 12 | 5.25 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 12 | 5.25 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 12 | 5.25 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 5 | 5.25 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 3 | 5.25 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 3 | 5.25 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 3 | 5.25 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 16 | 5.25 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 16 | 5.25 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 16 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 1 | 5.25 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 16 | 5.25 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 16 | 5.25 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 16 | 5.25 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 16 | 5.25 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 16 | 5.25 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 16 | 5.25 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 19 | 5.25 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 19 | 5.25 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 19 | 5.25 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 7 | 5.25 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 13 | 5.25 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 13 | 5.25 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 13 | 5.25 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 2 | 5.25 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 2 | 5.25 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 2 | 5.25 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 12 | 5.25 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 12 | 5.25 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 12 | 5.25 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 9 | 5.25 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 13 | 5.25 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 5 | 5.25 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 20 | 5.25 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 20 | 5.25 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 3 | 5.25 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 16 | 5.25 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 16 | 5.25 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 16 | 5.25 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 16 | 5.25 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 1 | 5.25 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 1 | 5.25 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 4 | 5.25 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 4 | 5.25 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 4 | 5.25 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 15 | 5.25 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 15 | 5.25 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 15 | 5.25 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 15 | 5.25 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 15 | 5.25 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 15 | 5.25 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 4 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 4 | 5.25 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 4 | 5.25 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 1 | 5.25 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 1 | 5.25 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 1 | 5.25 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 5 | 5.25 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 6 | 5.25 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 6 | 5.25 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 19 | 5.25 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 3 | 5.25 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 5 | 5.25 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 17 | 5.25 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 18 | 5.25 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 18 | 5.25 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 18 | 5.25 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 7 | 5.25 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 14 | 5.25 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 14 | 5.25 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 9 | 5.25 |
| (1,7340) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 9 | 5.25 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 10 | 5.25 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 10 | 5.25 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 10 | 5.25 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 10 | 5.25 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 10 | 5.25 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 10 | 5.25 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 7 | 5.25 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 7 | 5.25 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 7 | 5.25 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 4 | 5.25 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 4 | 5.25 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 4 | 5.25 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 4 | 5.25 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 4 | 5.25 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 4 | 5.25 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 15 | 5.25 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 9 | 5.25 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 9 | 5.25 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 9 | 5.25 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 12 | 5.25 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 12 | 5.25 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 12 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 2 | 5.25 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 1 | 5.25 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 14 | 5.25 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 20 | 5.25 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 20 | 5.25 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 20 | 5.25 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 8 | 5.25 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 8 | 5.25 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 8 | 5.25 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 20 | 5.25 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 20 | 5.25 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 20 | 5.25 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 20 | 5.25 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 20 | 5.25 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 20 | 5.25 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 18 | 5.25 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 3 | 5.25 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 6 | 5.25 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 16 | 5.25 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 7 | 5.25 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 10 | 5.25 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 10 | 5.25 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 10 | 5.25 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 19 | 5.25 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 17 | 5.25 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 17 | 5.25 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 17 | 5.25 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 8 | 5.25 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 10 | 5.25 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 18 | 5.25 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 18 | 5.25 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 18 | 5.25 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 6 | 5.25 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 6 | 5.25 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 15 | 5.25 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 5 | 5.25 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 5 | 5.25 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 5 | 5.25 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 1 | 5.25 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 1 | 5.25 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 1 | 5.25 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 1 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 1 | 5.25 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 1 | 5.25 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 9 | 5.25 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 9 | 5.25 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 9 | 5.25 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 9 | 5.25 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 5.25 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 5.25 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 15 | 5.25 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 11 | 5.25 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 19 | 5.25 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 8 | 5.25 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 19 | 5.25 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 19 | 5.25 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 19 | 5.25 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 4 | 5.25 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 14 | 5.25 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 14 | 5.25 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 18 | 5.25 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 18 | 5.25 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 14 | 5.25 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 14 | 5.25 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 14 | 5.25 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 14 | 5.25 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 14 | 5.25 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 14 | 5.25 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 8 | 5.25 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 8 | 5.25 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 6 | 5.25 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 6 | 5.25 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 6 | 5.25 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 20 | 5.25 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 20 | 5.25 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 20 | 5.25 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 5.25 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 5.25 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 5.25 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 12 | 5.25 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 12 | 5.25 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 3 | 5.25 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 18 | 5.25 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 4 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 4 | 5.25 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 5.25 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 5.25 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 13 | 5.25 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 13 | 5.25 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 11 | 5.25 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 11 | 5.25 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 11 | 5.25 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 7 | 5.25 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 7 | 5.25 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 7 | 5.25 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 4 | 5.25 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 4 | 5.25 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 4 | 5.25 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 4 | 5.25 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 4 | 5.25 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 4 | 5.25 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 20 | 5.25 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 20 | 5.25 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 20 | 5.25 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 15 | 5.25 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 9 | 5.25 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 9 | 5.25 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 9 | 5.25 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 12 | 5.25 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 12 | 5.25 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 12 | 5.25 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 14 | 5.25 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 14 | 5.25 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 5.25 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 5.25 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 2 | 5.25 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 1 | 5.25 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 14 | 5.25 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 12 | 5.25 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 12 | 5.25 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 12 | 5.25 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 20 | 5.25 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 20 | 5.25 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 20 | 5.25 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 13 | 5.25 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 8 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 8 | 5.25 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 8 | 5.25 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 9 | 5.25 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 20 | 5.25 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 20 | 5.25 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 20 | 5.25 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 20 | 5.25 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 20 | 5.25 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 20 | 5.25 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 10 | 5.25 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 16 | 5.25 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 16 | 5.25 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 16 | 5.25 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 5 | 5.25 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 5 | 5.25 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 5 | 5.25 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 18 | 5.25 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 3 | 5.25 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 3 | 5.25 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 3 | 5.25 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 1 | 5.25 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 1 | 5.25 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 1 | 5.25 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 13 | 5.25 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 13 | 5.25 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 13 | 5.25 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 15 | 5.25 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 15 | 5.25 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 18 | 5.25 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 18 | 5.25 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 18 | 5.25 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 3 | 5.25 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 6 | 5.25 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 16 | 5.25 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 11 | 5.25 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 11 | 5.25 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 11 | 5.25 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 7 | 5.25 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 16 | 5.25 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 16 | 5.25 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 16 | 5.25 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 10 | 5.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 10 | 5.25 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 10 | 5.25 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 10 | 5.25 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 3 | 5.25 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 1 | 5.24 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 11 | 5.24 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 16 | 5.24 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 17 | 5.24 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 16 | 5.24 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 2 | 5.24 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 2 | 5.24 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 8 | 5.24 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 8 | 5.24 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 8 | 5.24 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 8 | 5.24 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 8 | 5.24 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 8 | 5.24 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 17 | 5.24 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 17 | 5.24 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 17 | 5.24 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 17 | 5.24 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 17 | 5.24 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 17 | 5.24 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 5 | 5.24 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 5 | 5.24 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 18 | 5.24 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 18 | 5.24 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 18 | 5.24 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 18 | 5.24 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 4 | 5.24 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 4 | 5.24 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 5.24 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 5.24 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 2 | 5.24 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 2 | 5.24 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 1 | 5.24 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 1 | 5.24 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 1 | 5.24 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 1 | 5.24 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 1 | 5.24 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 1 | 5.24 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 7 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 7 | 5.24 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 7 | 5.24 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 7 | 5.24 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 18 | 5.24 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 18 | 5.24 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 18 | 5.24 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 18 | 5.24 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 3 | 5.24 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 3 | 5.24 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 3 | 5.24 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 3 | 5.24 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 16 | 5.24 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 16 | 5.24 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 17 | 5.24 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 17 | 5.24 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 9 | 5.24 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 9 | 5.24 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 9 | 5.24 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 9 | 5.24 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 9 | 5.24 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 9 | 5.24 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 10 | 5.24 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 10 | 5.24 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 10 | 5.24 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 10 | 5.24 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 10 | 5.24 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 10 | 5.24 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 14 | 5.24 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 14 | 5.24 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 1 | 5.24 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 1 | 5.24 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 1 | 5.24 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 1 | 5.24 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 1 | 5.24 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 1 | 5.24 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 5 | 5.24 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 5 | 5.24 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 2 | 5.24 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 2 | 5.24 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 2 | 5.24 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 2 | 5.24 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 17 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 17 | 5.24 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 18 | 5.24 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 18 | 5.24 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 19 | 5.24 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 19 | 5.24 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 11 | 5.24 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 11 | 5.24 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 11 | 5.24 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 11 | 5.24 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 11 | 5.24 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 11 | 5.24 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 17 | 5.24 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 17 | 5.24 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 1 | 5.24 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 1 | 5.24 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 1 | 5.24 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 1 | 5.24 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 1 | 5.24 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 1 | 5.24 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 8 | 5.24 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 8 | 5.24 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 13 | 5.24 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 13 | 5.24 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 13 | 5.24 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 13 | 5.24 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 13 | 5.24 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 13 | 5.24 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 13 | 5.24 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 13 | 5.24 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 13 | 5.24 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 1 | 5.24 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 1 | 5.24 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 1 | 5.24 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 14 | 5.24 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 14 | 5.24 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 14 | 5.24 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 12 | 5.24 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 12 | 5.24 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 12 | 5.24 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 20 | 5.24 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 20 | 5.24 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 20 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 6 | 5.24 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 6 | 5.24 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 7 | 5.24 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 14 | 5.24 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 14 | 5.24 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 14 | 5.24 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 10 | 5.24 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 10 | 5.24 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 10 | 5.24 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 10 | 5.24 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 20 | 5.24 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 20 | 5.24 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 20 | 5.24 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 16 | 5.24 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 16 | 5.24 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 1 | 5.24 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 1 | 5.24 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 1 | 5.24 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 20 | 5.24 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 19 | 5.24 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 19 | 5.24 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 19 | 5.24 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 18 | 5.24 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 18 | 5.24 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 18 | 5.24 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 20 | 5.24 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 18 | 5.24 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 18 | 5.24 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 18 | 5.24 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 11 | 5.24 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 14 | 5.24 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 14 | 5.24 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 14 | 5.24 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 6 | 5.24 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 6 | 5.24 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 6 | 5.24 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 3 | 5.24 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 3 | 5.24 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 3 | 5.24 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 5 | 5.24 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 5 | 5.24 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 5 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 5 | 5.24 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 5 | 5.24 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 5 | 5.24 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 5 | 5.24 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 5 | 5.24 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 5 | 5.24 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 8 | 5.24 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 8 | 5.24 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 8 | 5.24 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 17 | 5.24 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 17 | 5.24 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 17 | 5.24 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 9 | 5.24 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 17 | 5.24 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 17 | 5.24 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 17 | 5.24 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 4 | 5.24 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 12 | 5.24 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 13 | 5.24 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 1 | 5.24 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 1 | 5.24 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 6 | 5.24 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 6 | 5.24 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 6 | 5.24 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 14 | 5.24 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 3 | 5.24 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 3 | 5.24 |
| (1,7175) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 5 | 5.24 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 13 | 5.24 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 13 | 5.24 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 13 | 5.24 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 3 | 5.24 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 10 | 5.24 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 10 | 5.24 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 3 | 5.24 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 1 | 5.24 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 11 | 5.24 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 11 | 5.24 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 19 | 5.24 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 19 | 5.24 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 19 | 5.24 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 19 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 8 | 5.24 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 8 | 5.24 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 16 | 5.24 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 6 | 5.24 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 2 | 5.24 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 2 | 5.24 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 2 | 5.24 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 12 | 5.24 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 12 | 5.24 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 12 | 5.24 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 10 | 5.24 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 10 | 5.24 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 10 | 5.24 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 18 | 5.24 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 18 | 5.24 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 18 | 5.24 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 18 | 5.24 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 18 | 5.24 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 18 | 5.24 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 18 | 5.24 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 18 | 5.24 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 18 | 5.24 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 4 | 5.24 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 4 | 5.24 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 4 | 5.24 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 1 | 5.24 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 1 | 5.24 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 1 | 5.24 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 7 | 5.24 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 7 | 5.24 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 7 | 5.24 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 20 | 5.24 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 20 | 5.24 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 20 | 5.24 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 1 | 5.24 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 9 | 5.24 |
| (1,5820) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 18 | 5.24 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 16 | 5.24 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 16 | 5.24 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 16 | 5.24 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 16 | 5.24 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 3 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 3 | 5.24 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 3 | 5.24 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 1 | 5.24 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 9 | 5.24 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 4 | 5.24 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 17 | 5.24 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 17 | 5.24 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 17 | 5.24 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 5 | 5.24 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 5 | 5.24 |
| (1,5414) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 5 | 5.24 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 14 | 5.24 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 14 | 5.24 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 14 | 5.24 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 2 | 5.24 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 7 | 5.24 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 14 | 5.24 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 14 | 5.24 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 14 | 5.24 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 11 | 5.24 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 11 | 5.24 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 11 | 5.24 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 5 | 5.24 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 5 | 5.24 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 5 | 5.24 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 7 | 5.24 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 7 | 5.24 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 7 | 5.24 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 11 | 5.24 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 5 | 5.24 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 5 | 5.24 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 5 | 5.24 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 20 | 5.24 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 20 | 5.24 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 20 | 5.24 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 13 | 5.24 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 13 | 5.24 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 13 | 5.24 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 17 | 5.24 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 20 | 5.24 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 20 | 5.24 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 20 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 6 | 5.24 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 6 | 5.24 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 9 | 5.24 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 18 | 5.24 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 18 | 5.24 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 18 | 5.24 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 18 | 5.24 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 4 | 5.24 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 4 | 5.24 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 4 | 5.24 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 4 | 5.24 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 5.24 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 5.24 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 12 | 5.24 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 15 | 5.24 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 9 | 5.24 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 17 | 5.24 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 17 | 5.24 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 1 | 5.24 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 1 | 5.24 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 13 | 5.24 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 1 | 5.24 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 17 | 5.24 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 17 | 5.24 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 7 | 5.24 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 4 | 5.24 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 11 | 5.24 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 11 | 5.24 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 11 | 5.24 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 11 | 5.24 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 11 | 5.24 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 1 | 5.24 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 1 | 5.24 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 1 | 5.24 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 1 | 5.24 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 1 | 5.24 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 1 | 5.24 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 8 | 5.24 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 8 | 5.24 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 17 | 5.24 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 17 | 5.24 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 8 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 8 | 5.24 |
| (1,3294) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 5 | 5.24 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 13 | 5.24 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 13 | 5.24 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 13 | 5.24 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 3 | 5.24 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 4 | 5.24 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 17 | 5.24 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 10 | 5.24 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 10 | 5.24 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 3 | 5.24 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 1 | 5.24 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 18 | 5.24 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 18 | 5.24 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 11 | 5.24 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 11 | 5.24 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 19 | 5.24 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 19 | 5.24 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 19 | 5.24 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 19 | 5.24 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 8 | 5.24 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 8 | 5.24 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 16 | 5.24 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 6 | 5.24 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 2 | 5.24 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 2 | 5.24 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 2 | 5.24 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 12 | 5.24 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 12 | 5.24 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 12 | 5.24 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 6 | 5.24 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 6 | 5.24 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 6 | 5.24 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 10 | 5.24 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 10 | 5.24 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 10 | 5.24 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 18 | 5.24 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 18 | 5.24 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 18 | 5.24 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 18 | 5.24 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 18 | 5.24 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 18 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 18 | 5.24 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 18 | 5.24 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 18 | 5.24 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 4 | 5.24 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 4 | 5.24 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 4 | 5.24 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 16 | 5.24 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 12 | 5.24 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 17 | 5.24 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 17 | 5.24 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 1 | 5.24 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 1 | 5.24 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 1 | 5.24 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 7 | 5.24 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 7 | 5.24 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 7 | 5.24 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 20 | 5.24 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 20 | 5.24 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 20 | 5.24 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 1 | 5.24 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 9 | 5.24 |
| (1,1194) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 18 | 5.24 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 16 | 5.24 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 16 | 5.24 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 16 | 5.24 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 15 | 5.24 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 15 | 5.24 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 15 | 5.24 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 15 | 5.24 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 15 | 5.24 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 15 | 5.24 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 16 | 5.24 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 3 | 5.24 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 3 | 5.24 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 3 | 5.24 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 1 | 5.24 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 9 | 5.24 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 4 | 5.24 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 17 | 5.24 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 17 | 5.24 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 17 | 5.24 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 15 | 5.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 15 | 5.24 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 15 | 5.24 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 6 | 5.24 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 6 | 5.24 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 6 | 5.24 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 13 | 5.23 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 13 | 5.23 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 13 | 5.23 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 13 | 5.23 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 13 | 5.23 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 13 | 5.23 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 5 | 5.23 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 5 | 5.23 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 5.23 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 5.23 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 5.23 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 5.23 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 5.23 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 5.23 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 19 | 5.23 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 19 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 12 | 5.23 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 12 | 5.23 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 5.23 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 5.23 |
| (1,9322) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 5.23 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 5.23 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 5.23 |
| (1,9322) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 5.23 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 4 | 5.23 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 4 | 5.23 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 4 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 4 | 5.23 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 8 | 5.23 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 8 | 5.23 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 8 | 5.23 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 8 | 5.23 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 8 | 5.23 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 8 | 5.23 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 15 | 5.23 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 15 | 5.23 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 18 | 5.23 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 18 | 5.23 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 8 | 5.23 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 8 | 5.23 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 1 | 5.23 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 1 | 5.23 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 2 | 5.23 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 2 | 5.23 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 2 | 5.23 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 2 | 5.23 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 2 | 5.23 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 2 | 5.23 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 20 | 5.23 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 20 | 5.23 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 20 | 5.23 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 20 | 5.23 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 20 | 5.23 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 20 | 5.23 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 1 | 5.23 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 1 | 5.23 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 9 | 5.23 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 9 | 5.23 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 8 | 5.23 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 8 | 5.23 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 16 | 5.23 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 16 | 5.23 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 17 | 5.23 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 17 | 5.23 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 2 | 5.23 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 2 | 5.23 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 2 | 5.23 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 2 | 5.23 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 2 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 2 | 5.23 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 7 | 5.23 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 7 | 5.23 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 19 | 5.23 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 19 | 5.23 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 12 | 5.23 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 12 | 5.23 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 13 | 5.23 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 13 | 5.23 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 10 | 5.23 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 10 | 5.23 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 10 | 5.23 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 10 | 5.23 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 15 | 5.23 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 15 | 5.23 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 5 | 5.23 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 5 | 5.23 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 5 | 5.23 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 5 | 5.23 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 12 | 5.23 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 12 | 5.23 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 5 | 5.23 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 5 | 5.23 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 5 | 5.23 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 5 | 5.23 |
| (1,8604) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 14 | 5.23 |
| (1,8604) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 14 | 5.23 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 14 | 5.23 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 14 | 5.23 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 14 | 5.23 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 14 | 5.23 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 14 | 5.23 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 14 | 5.23 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 2 | 5.23 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 2 | 5.23 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 2 | 5.23 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 2 | 5.23 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 2 | 5.23 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 2 | 5.23 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 16 | 5.23 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 16 | 5.23 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 16 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 16 | 5.23 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 16 | 5.23 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 16 | 5.23 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 6 | 5.23 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 6 | 5.23 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 13 | 5.23 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 13 | 5.23 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 13 | 5.23 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 13 | 5.23 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 13 | 5.23 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 13 | 5.23 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 3 | 5.23 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 3 | 5.23 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 3 | 5.23 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 3 | 5.23 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 3 | 5.23 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 3 | 5.23 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 3 | 5.23 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 3 | 5.23 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 3 | 5.23 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 8 | 5.23 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 17 | 5.23 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 17 | 5.23 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 10 | 5.23 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 17 | 5.23 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 16 | 5.23 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 16 | 5.23 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 16 | 5.23 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 11 | 5.23 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 9 | 5.23 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 1 | 5.23 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 1 | 5.23 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 13 | 5.23 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 13 | 5.23 |
| (1,8200) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 19 | 5.23 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 17 | 5.23 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 17 | 5.23 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 17 | 5.23 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 4 | 5.23 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 4 | 5.23 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 4 | 5.23 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 6 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 6 | 5.23 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 6 | 5.23 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 11 | 5.23 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 11 | 5.23 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 11 | 5.23 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 16 | 5.23 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 16 | 5.23 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 16 | 5.23 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 11 | 5.23 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 11 | 5.23 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 11 | 5.23 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 11 | 5.23 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 11 | 5.23 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 11 | 5.23 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 19 | 5.23 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 19 | 5.23 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 11 | 5.23 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 11 | 5.23 |
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 11 | 5.23 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 6 | 5.23 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 6 | 5.23 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 6 | 5.23 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 13 | 5.23 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 13 | 5.23 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 13 | 5.23 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 13 | 5.23 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 6 | 5.23 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 6 | 5.23 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 15 | 5.23 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 15 | 5.23 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 7 | 5.23 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 19 | 5.23 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 15 | 5.23 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG21 | 11 | 5.23 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG22 | 11 | 5.23 |
| (1,7608) | 1:26:A:ASN:H | 1:29:A:THR:HG23 | 11 | 5.23 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 2 | 5.23 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 2 | 5.23 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 10 | 5.23 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 19 | 5.23 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 7 | 5.23 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 12 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 2 | 5.23 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 15 | 5.23 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 13 | 5.23 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 13 | 5.23 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 13 | 5.23 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 15 | 5.23 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 15 | 5.23 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 15 | 5.23 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 15 | 5.23 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 15 | 5.23 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 3 | 5.23 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 3 | 5.23 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 3 | 5.23 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 6 | 5.23 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 8 | 5.23 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 10 | 5.23 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 15 | 5.23 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 15 | 5.23 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 15 | 5.23 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 18 | 5.23 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 12 | 5.23 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 13 | 5.23 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 16 | 5.23 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 19 | 5.23 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 19 | 5.23 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 15 | 5.23 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 15 | 5.23 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 15 | 5.23 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 15 | 5.23 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 15 | 5.23 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 12 | 5.23 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 12 | 5.23 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 12 | 5.23 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 16 | 5.23 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 16 | 5.23 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 16 | 5.23 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 10 | 5.23 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 10 | 5.23 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 10 | 5.23 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 15 | 5.23 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 15 | 5.23 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 15 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 15 | 5.23 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 15 | 5.23 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 15 | 5.23 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 15 | 5.23 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 15 | 5.23 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 15 | 5.23 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 15 | 5.23 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 8 | 5.23 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 8 | 5.23 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 10 | 5.23 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 10 | 5.23 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 19 | 5.23 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 19 | 5.23 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 12 | 5.23 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 7 | 5.23 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 18 | 5.23 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 18 | 5.23 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 18 | 5.23 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 12 | 5.23 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 12 | 5.23 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 12 | 5.23 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 16 | 5.23 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 20 | 5.23 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 12 | 5.23 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 4 | 5.23 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 12 | 5.23 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 12 | 5.23 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 9 | 5.23 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 9 | 5.23 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 9 | 5.23 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 10 | 5.23 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 10 | 5.23 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 10 | 5.23 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 19 | 5.23 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 19 | 5.23 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 19 | 5.23 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 16 | 5.23 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 16 | 5.23 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 16 | 5.23 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 16 | 5.23 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 13 | 5.23 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 13 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 13 | 5.23 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 13 | 5.23 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 13 | 5.23 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 13 | 5.23 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 12 | 5.23 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 4 | 5.23 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 4 | 5.23 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 2 | 5.23 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 14 | 5.23 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 14 | 5.23 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 16 | 5.23 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 5.23 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 5.23 |
| (1,4312) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 5.23 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 5.23 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 5.23 |
| (1,4312) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 5.23 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 5.23 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 5.23 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 10 | 5.23 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 4 | 5.23 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 1 | 5.23 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 1 | 5.23 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 7 | 5.23 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 16 | 5.23 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 16 | 5.23 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 20 | 5.23 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 8 | 5.23 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 8 | 5.23 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 8 | 5.23 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 18 | 5.23 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 18 | 5.23 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 19 | 5.23 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 19 | 5.23 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 4 | 5.23 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 12 | 5.23 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 12 | 5.23 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 10 | 5.23 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 10 | 5.23 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 10 | 5.23 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 10 | 5.23 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 6 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 6 | 5.23 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 15 | 5.23 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 15 | 5.23 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 15 | 5.23 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 15 | 5.23 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 5 | 5.23 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 5 | 5.23 |
| (1,3546) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 14 | 5.23 |
| (1,3546) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 14 | 5.23 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 14 | 5.23 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 14 | 5.23 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 14 | 5.23 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 14 | 5.23 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 14 | 5.23 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 14 | 5.23 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 13 | 5.23 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 13 | 5.23 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 13 | 5.23 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 13 | 5.23 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 13 | 5.23 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 13 | 5.23 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 15 | 5.23 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 15 | 5.23 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 16 | 5.23 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 16 | 5.23 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 15 | 5.23 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 15 | 5.23 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 15 | 5.23 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 3 | 5.23 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 3 | 5.23 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 3 | 5.23 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 6 | 5.23 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 8 | 5.23 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 10 | 5.23 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 15 | 5.23 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 15 | 5.23 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 15 | 5.23 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 18 | 5.23 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 19 | 5.23 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 19 | 5.23 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 19 | 5.23 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 12 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 13 | 5.23 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 16 | 5.23 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 19 | 5.23 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 19 | 5.23 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 15 | 5.23 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 15 | 5.23 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 16 | 5.23 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 7 | 5.23 |
| (1,2242) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 5 | 5.23 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 2 | 5.23 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 2 | 5.23 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 2 | 5.23 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 15 | 5.23 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 15 | 5.23 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 15 | 5.23 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 12 | 5.23 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 12 | 5.23 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 12 | 5.23 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 16 | 5.23 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 16 | 5.23 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 16 | 5.23 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 10 | 5.23 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 10 | 5.23 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 10 | 5.23 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 15 | 5.23 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 15 | 5.23 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 15 | 5.23 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 15 | 5.23 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 15 | 5.23 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 15 | 5.23 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 15 | 5.23 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 15 | 5.23 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 15 | 5.23 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 15 | 5.23 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 1 | 5.23 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 1 | 5.23 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 1 | 5.23 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 12 | 5.23 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 8 | 5.23 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 8 | 5.23 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 10 | 5.23 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 10 | 5.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 19 | 5.23 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 19 | 5.23 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 12 | 5.23 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 7 | 5.23 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 18 | 5.23 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 18 | 5.23 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 18 | 5.23 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 5 | 5.23 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 5 | 5.23 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 5 | 5.23 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 1 | 5.23 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 2 | 5.22 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 2 | 5.22 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 3 | 5.22 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 3 | 5.22 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 3 | 5.22 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 3 | 5.22 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 3 | 5.22 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 3 | 5.22 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 18 | 5.22 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 18 | 5.22 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 17 | 5.22 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 17 | 5.22 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 8 | 5.22 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 8 | 5.22 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 20 | 5.22 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 20 | 5.22 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 10 | 5.22 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 10 | 5.22 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 10 | 5.22 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 10 | 5.22 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 10 | 5.22 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 10 | 5.22 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 1 | 5.22 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 1 | 5.22 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 14 | 5.22 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 14 | 5.22 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 15 | 5.22 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 15 | 5.22 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 15 | 5.22 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 15 | 5.22 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 15 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 15 | 5.22 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 17 | 5.22 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 17 | 5.22 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 11 | 5.22 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 11 | 5.22 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 4 | 5.22 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 4 | 5.22 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 1 | 5.22 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 1 | 5.22 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 7 | 5.22 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 7 | 5.22 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 19 | 5.22 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 19 | 5.22 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 19 | 5.22 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 19 | 5.22 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 19 | 5.22 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 19 | 5.22 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 3 | 5.22 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 3 | 5.22 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 17 | 5.22 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 17 | 5.22 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 17 | 5.22 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 17 | 5.22 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 17 | 5.22 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 17 | 5.22 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 17 | 5.22 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 17 | 5.22 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 18 | 5.22 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 18 | 5.22 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 5 | 5.22 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 5 | 5.22 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 14 | 5.22 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 14 | 5.22 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 13 | 5.22 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 13 | 5.22 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 13 | 5.22 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 13 | 5.22 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 8 | 5.22 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 8 | 5.22 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 8 | 5.22 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 8 | 5.22 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 6 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 6 | 5.22 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 10 | 5.22 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 10 | 5.22 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 10 | 5.22 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 10 | 5.22 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 10 | 5.22 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 10 | 5.22 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 5 | 5.22 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 5 | 5.22 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 5 | 5.22 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 12 | 5.22 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 12 | 5.22 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 12 | 5.22 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 12 | 5.22 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 12 | 5.22 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 12 | 5.22 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 12 | 5.22 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 12 | 5.22 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 12 | 5.22 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 2 | 5.22 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 2 | 5.22 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 14 | 5.22 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 14 | 5.22 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 20 | 5.22 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 15 | 5.22 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 15 | 5.22 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 15 | 5.22 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 19 | 5.22 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 19 | 5.22 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 19 | 5.22 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 9 | 5.22 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 9 | 5.22 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 5 | 5.22 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 10 | 5.22 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 10 | 5.22 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 12 | 5.22 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 12 | 5.22 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 2 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 4 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 4 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 4 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 4 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 4 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 4 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 15 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 15 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 15 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 15 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 15 | 5.22 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 15 | 5.22 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 5 | 5.22 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 5 | 5.22 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 5 | 5.22 |
| (1,7936) | 1:72:A:SER:H | 1:74:A:ARG:H | 19 | 5.22 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 6 | 5.22 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 4 | 5.22 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 20 | 5.22 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 20 | 5.22 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 20 | 5.22 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 20 | 5.22 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 20 | 5.22 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 20 | 5.22 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 20 | 5.22 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 20 | 5.22 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 20 | 5.22 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 14 | 5.22 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 14 | 5.22 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 14 | 5.22 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 9 | 5.22 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 9 | 5.22 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 9 | 5.22 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 9 | 5.22 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 9 | 5.22 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 9 | 5.22 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 18 | 5.22 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 18 | 5.22 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 18 | 5.22 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 18 | 5.22 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 18 | 5.22 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 18 | 5.22 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 18 | 5.22 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 18 | 5.22 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 18 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 18 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 18 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 18 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 18 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 18 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 18 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 18 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 18 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 18 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 20 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 20 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 20 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 20 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 20 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 20 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 20 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 20 | 5.22 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 20 | 5.22 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 1 | 5.22 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 4 | 5.22 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 4 | 5.22 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 4 | 5.22 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 4 | 5.22 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 10 | 5.22 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 20 | 5.22 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 3 | 5.22 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 7 | 5.22 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 17 | 5.22 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 20 | 5.22 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 20 | 5.22 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 7 | 5.22 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 9 | 5.22 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 9 | 5.22 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 20 | 5.22 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 20 | 5.22 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 20 | 5.22 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 15 | 5.22 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 15 | 5.22 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 15 | 5.22 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 16 | 5.22 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 16 | 5.22 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 16 | 5.22 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 13 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 13 | 5.22 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 7 | 5.22 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 4 | 5.22 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 4 | 5.22 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 4 | 5.22 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 10 | 5.22 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 10 | 5.22 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 10 | 5.22 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 9 | 5.22 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 9 | 5.22 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 9 | 5.22 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 16 | 5.22 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 16 | 5.22 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 11 | 5.22 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 11 | 5.22 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 6 | 5.22 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 15 | 5.22 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 15 | 5.22 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 20 | 5.22 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 20 | 5.22 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 2 | 5.22 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 8 | 5.22 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 18 | 5.22 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 18 | 5.22 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 18 | 5.22 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 14 | 5.22 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 14 | 5.22 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 14 | 5.22 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 12 | 5.22 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 12 | 5.22 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 12 | 5.22 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 3 | 5.22 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 3 | 5.22 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 3 | 5.22 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 6 | 5.22 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 5 | 5.22 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 5 | 5.22 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 5 | 5.22 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 5 | 5.22 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 5 | 5.22 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 5 | 5.22 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 5 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 5 | 5.22 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 5 | 5.22 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 5 | 5.22 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 5 | 5.22 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 5 | 5.22 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 1 | 5.22 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 11 | 5.22 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 4 | 5.22 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 4 | 5.22 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 4 | 5.22 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 7 | 5.22 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 7 | 5.22 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 7 | 5.22 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 14 | 5.22 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 14 | 5.22 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 14 | 5.22 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 7 | 5.22 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 7 | 5.22 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 7 | 5.22 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 17 | 5.22 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 17 | 5.22 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 17 | 5.22 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 11 | 5.22 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 6 | 5.22 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 6 | 5.22 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 6 | 5.22 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 16 | 5.22 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 16 | 5.22 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 16 | 5.22 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 15 | 5.22 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 15 | 5.22 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 15 | 5.22 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 3 | 5.22 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 13 | 5.22 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 13 | 5.22 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 13 | 5.22 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 13 | 5.22 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 13 | 5.22 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 13 | 5.22 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 13 | 5.22 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 13 | 5.22 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 13 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 13 | 5.22 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 16 | 5.22 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 16 | 5.22 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 16 | 5.22 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 16 | 5.22 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 16 | 5.22 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 16 | 5.22 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 7 | 5.22 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 7 | 5.22 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 7 | 5.22 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 18 | 5.22 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 6 | 5.22 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 6 | 5.22 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 6 | 5.22 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 13 | 5.22 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 13 | 5.22 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 13 | 5.22 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 11 | 5.22 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 2 | 5.22 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 2 | 5.22 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 2 | 5.22 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 16 | 5.22 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 6 | 5.22 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 6 | 5.22 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 10 | 5.22 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 10 | 5.22 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 10 | 5.22 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 10 | 5.22 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 10 | 5.22 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 10 | 5.22 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 5.22 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 5.22 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 5.22 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 5.22 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 5.22 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 5.22 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 1 | 5.22 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 1 | 5.22 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 14 | 5.22 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 14 | 5.22 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 15 | 5.22 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 15 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 15 | 5.22 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 15 | 5.22 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 15 | 5.22 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 15 | 5.22 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 19 | 5.22 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 6 | 5.22 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 6 | 5.22 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 6 | 5.22 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 6 | 5.22 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 6 | 5.22 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 6 | 5.22 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 18 | 5.22 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 4 | 5.22 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 15 | 5.22 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 15 | 5.22 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 17 | 5.22 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 17 | 5.22 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 17 | 5.22 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 17 | 5.22 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 17 | 5.22 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 18 | 5.22 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 18 | 5.22 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 18 | 5.22 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 16 | 5.22 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 14 | 5.22 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 14 | 5.22 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 13 | 5.22 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 13 | 5.22 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 13 | 5.22 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 13 | 5.22 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 13 | 5.22 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 15 | 5.22 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 7 | 5.22 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 7 | 5.22 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 4 | 5.22 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 4 | 5.22 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 4 | 5.22 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 10 | 5.22 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 10 | 5.22 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 10 | 5.22 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 9 | 5.22 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 9 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 9 | 5.22 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 16 | 5.22 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 16 | 5.22 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 6 | 5.22 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 6 | 5.22 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 6 | 5.22 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 6 | 5.22 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 15 | 5.22 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 15 | 5.22 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 20 | 5.22 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 20 | 5.22 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 2 | 5.22 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 14 | 5.22 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 14 | 5.22 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 14 | 5.22 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 8 | 5.22 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 20 | 5.22 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 20 | 5.22 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 20 | 5.22 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 13 | 5.22 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 13 | 5.22 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 13 | 5.22 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 13 | 5.22 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 13 | 5.22 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 13 | 5.22 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 10 | 5.22 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 17 | 5.22 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 2 | 5.22 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 2 | 5.22 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 2 | 5.22 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 18 | 5.22 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 18 | 5.22 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 18 | 5.22 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 5.22 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 17 | 5.22 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 17 | 5.22 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 17 | 5.22 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 14 | 5.22 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 14 | 5.22 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 14 | 5.22 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 12 | 5.22 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 12 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 12 | 5.22 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 2 | 5.22 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 2 | 5.22 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 11 | 5.22 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 11 | 5.22 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 11 | 5.22 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 3 | 5.22 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 3 | 5.22 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 3 | 5.22 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 12 | 5.22 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 16 | 5.22 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 16 | 5.22 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 5 | 5.22 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 5 | 5.22 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 14 | 5.22 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 14 | 5.22 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 15 | 5.22 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 15 | 5.22 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 19 | 5.22 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 19 | 5.22 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 6 | 5.22 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 1 | 5.22 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 1 | 5.22 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 5 | 5.22 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 5 | 5.22 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 5 | 5.22 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 5 | 5.22 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 5 | 5.22 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 5 | 5.22 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 7 | 5.22 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 5 | 5.22 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 5 | 5.22 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 5 | 5.22 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 5 | 5.22 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 5 | 5.22 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 5 | 5.22 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 1 | 5.22 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 11 | 5.22 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 4 | 5.22 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 4 | 5.22 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 4 | 5.22 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 1 | 5.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 1 | 5.22 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 7 | 5.22 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 7 | 5.22 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 7 | 5.22 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 14 | 5.22 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 14 | 5.22 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 14 | 5.22 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 7 | 5.22 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 7 | 5.22 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 7 | 5.22 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 8 | 5.22 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 3 | 5.22 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 3 | 5.22 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 3 | 5.22 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 6 | 5.22 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 2 | 5.21 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 5 | 5.21 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 11 | 5.21 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 20 | 5.21 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 20 | 5.21 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 11 | 5.21 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 11 | 5.21 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 6 | 5.21 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 6 | 5.21 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 18 | 5.21 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 18 | 5.21 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 18 | 5.21 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 18 | 5.21 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 3 | 5.21 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 3 | 5.21 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 2 | 5.21 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 2 | 5.21 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 2 | 5.21 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 2 | 5.21 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 2 | 5.21 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 2 | 5.21 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 16 | 5.21 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 16 | 5.21 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 11 | 5.21 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 11 | 5.21 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 18 | 5.21 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 18 | 5.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 10 | 5.21 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 10 | 5.21 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 9 | 5.21 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 9 | 5.21 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 10 | 5.21 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 10 | 5.21 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 10 | 5.21 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 10 | 5.21 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 19 | 5.21 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 19 | 5.21 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 1 | 5.21 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 1 | 5.21 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 13 | 5.21 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 13 | 5.21 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 19 | 5.21 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 19 | 5.21 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 2 | 5.21 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 2 | 5.21 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 11 | 5.21 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 11 | 5.21 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 6 | 5.21 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 6 | 5.21 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 3 | 5.21 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 3 | 5.21 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 3 | 5.21 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 8 | 5.21 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 8 | 5.21 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 8 | 5.21 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 8 | 5.21 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 8 | 5.21 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 8 | 5.21 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 8 | 5.21 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 8 | 5.21 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 8 | 5.21 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 7 | 5.21 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 7 | 5.21 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 15 | 5.21 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 15 | 5.21 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 18 | 5.21 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 18 | 5.21 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 18 | 5.21 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 15 | 5.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 4 | 5.21 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 4 | 5.21 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 19 | 5.21 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 10 | 5.21 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 10 | 5.21 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 10 | 5.21 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 17 | 5.21 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 7 | 5.21 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 7 | 5.21 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 7 | 5.21 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 7 | 5.21 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 17 | 5.21 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 17 | 5.21 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 17 | 5.21 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 5 | 5.21 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 10 | 5.21 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 10 | 5.21 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 3 | 5.21 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 3 | 5.21 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 3 | 5.21 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 17 | 5.21 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 17 | 5.21 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 17 | 5.21 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 17 | 5.21 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 17 | 5.21 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 17 | 5.21 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 20 | 5.21 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 20 | 5.21 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 20 | 5.21 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 16 | 5.21 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 16 | 5.21 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 16 | 5.21 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 16 | 5.21 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 16 | 5.21 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 16 | 5.21 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 16 | 5.21 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 16 | 5.21 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 16 | 5.21 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 14 | 5.21 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 14 | 5.21 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 14 | 5.21 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 17 | 5.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 14 | 5.21 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 14 | 5.21 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 14 | 5.21 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 14 | 5.21 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 14 | 5.21 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 14 | 5.21 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 14 | 5.21 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 14 | 5.21 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 14 | 5.21 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 18 | 5.21 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 8 | 5.21 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 11 | 5.21 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 20 | 5.21 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 9 | 5.21 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 14 | 5.21 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 20 | 5.21 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 20 | 5.21 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 20 | 5.21 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 20 | 5.21 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 20 | 5.21 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 20 | 5.21 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 6 | 5.21 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 10 | 5.21 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 10 | 5.21 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 16 | 5.21 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 16 | 5.21 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 16 | 5.21 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 4 | 5.21 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 4 | 5.21 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 9 | 5.21 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 5 | 5.21 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 5 | 5.21 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 16 | 5.21 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 1 | 5.21 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 1 | 5.21 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 1 | 5.21 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 20 | 5.21 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 20 | 5.21 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 20 | 5.21 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 5.21 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 7 | 5.21 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 7 | 5.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 7 | 5.21 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 11 | 5.21 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 11 | 5.21 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 11 | 5.21 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 18 | 5.21 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 18 | 5.21 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 6 | 5.21 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 6 | 5.21 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 6 | 5.21 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 6 | 5.21 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 19 | 5.21 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 19 | 5.21 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 11 | 5.21 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 11 | 5.21 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 11 | 5.21 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 11 | 5.21 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 11 | 5.21 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 11 | 5.21 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 10 | 5.21 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 10 | 5.21 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 2 | 5.21 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 3 | 5.21 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 3 | 5.21 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 3 | 5.21 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 7 | 5.21 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 7 | 5.21 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 7 | 5.21 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 16 | 5.21 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 16 | 5.21 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 16 | 5.21 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 3 | 5.21 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 8 | 5.21 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 8 | 5.21 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 8 | 5.21 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 17 | 5.21 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 10 | 5.21 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 14 | 5.21 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 11 | 5.21 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 11 | 5.21 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 11 | 5.21 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 16 | 5.21 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 10 | 5.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 20 | 5.21 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 7 | 5.21 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 18 | 5.21 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 15 | 5.21 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 15 | 5.21 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 15 | 5.21 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 8 | 5.21 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 8 | 5.21 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 8 | 5.21 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 16 | 5.21 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 11 | 5.21 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 15 | 5.21 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 15 | 5.21 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 15 | 5.21 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 15 | 5.21 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 15 | 5.21 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 15 | 5.21 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 15 | 5.21 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 15 | 5.21 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 15 | 5.21 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 2 | 5.21 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 1 | 5.21 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 3 | 5.21 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 12 | 5.21 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 12 | 5.21 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 12 | 5.21 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 12 | 5.21 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 14 | 5.21 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 11 | 5.21 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 11 | 5.21 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 3 | 5.21 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 3 | 5.21 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 3 | 5.21 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 2 | 5.21 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 2 | 5.21 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 2 | 5.21 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 2 | 5.21 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 2 | 5.21 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 2 | 5.21 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 16 | 5.21 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 16 | 5.21 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 16 | 5.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 17 | 5.21 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 17 | 5.21 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 17 | 5.21 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 17 | 5.21 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 17 | 5.21 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 17 | 5.21 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 11 | 5.21 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 11 | 5.21 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 11 | 5.21 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 19 | 5.21 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 19 | 5.21 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 19 | 5.21 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 10 | 5.21 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 10 | 5.21 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 15 | 5.21 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 15 | 5.21 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 15 | 5.21 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 13 | 5.21 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 13 | 5.21 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 13 | 5.21 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 18 | 5.21 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 19 | 5.21 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 19 | 5.21 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 5.21 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 6 | 5.21 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 6 | 5.21 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 9 | 5.21 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 10 | 5.21 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 19 | 5.21 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 19 | 5.21 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 19 | 5.21 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 17 | 5.21 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 16 | 5.21 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 16 | 5.21 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 16 | 5.21 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 3 | 5.21 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 4 | 5.21 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 4 | 5.21 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 9 | 5.21 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 5 | 5.21 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 5 | 5.21 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 16 | 5.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 3 | 5.21 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 3 | 5.21 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 1 | 5.21 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 1 | 5.21 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 1 | 5.21 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 20 | 5.21 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 20 | 5.21 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 20 | 5.21 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 5.21 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 5.21 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 5.21 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 5.21 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 7 | 5.21 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 7 | 5.21 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 7 | 5.21 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 11 | 5.21 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 11 | 5.21 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 11 | 5.21 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 18 | 5.21 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 18 | 5.21 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 4 | 5.21 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 4 | 5.21 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 4 | 5.21 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 6 | 5.21 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 6 | 5.21 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 6 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 2 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 2 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 4 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 4 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 8 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 8 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 10 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 10 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 11 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 11 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 17 | 5.21 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 17 | 5.21 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 6 | 5.21 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 19 | 5.21 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 19 | 5.21 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 11 | 5.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 11 | 5.21 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 11 | 5.21 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 11 | 5.21 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 11 | 5.21 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 11 | 5.21 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 10 | 5.21 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 10 | 5.21 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 6 | 5.21 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 2 | 5.21 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 11 | 5.21 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 12 | 5.21 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 12 | 5.21 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 12 | 5.21 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 12 | 5.21 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 12 | 5.21 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 12 | 5.21 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 12 | 5.21 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 17 | 5.21 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 17 | 5.21 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 17 | 5.21 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 17 | 5.21 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 17 | 5.21 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 17 | 5.21 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 12 | 5.2 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 7 | 5.2 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 2 | 5.2 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 4 | 5.2 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 4 | 5.2 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 5.2 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 5.2 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 5.2 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 5.2 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 5.2 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 5.2 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 14 | 5.2 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 14 | 5.2 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 14 | 5.2 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 14 | 5.2 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 14 | 5.2 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 14 | 5.2 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 4 | 5.2 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 4 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 19 | 5.2 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 19 | 5.2 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 19 | 5.2 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 19 | 5.2 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 19 | 5.2 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 19 | 5.2 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 11 | 5.2 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 11 | 5.2 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 17 | 5.2 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 17 | 5.2 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 12 | 5.2 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 12 | 5.2 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 18 | 5.2 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 18 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 13 | 5.2 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 13 | 5.2 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 8 | 5.2 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 8 | 5.2 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 10 | 5.2 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 10 | 5.2 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 10 | 5.2 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 10 | 5.2 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 10 | 5.2 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 10 | 5.2 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 20 | 5.2 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 20 | 5.2 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 15 | 5.2 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 15 | 5.2 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 15 | 5.2 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 15 | 5.2 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 12 | 5.2 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 12 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 5 | 5.2 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 5 | 5.2 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 16 | 5.2 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 16 | 5.2 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 16 | 5.2 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 16 | 5.2 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 3 | 5.2 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 3 | 5.2 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 3 | 5.2 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 3 | 5.2 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 3 | 5.2 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 3 | 5.2 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 11 | 5.2 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 11 | 5.2 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 12 | 5.2 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 12 | 5.2 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 1 | 5.2 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 1 | 5.2 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 1 | 5.2 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 1 | 5.2 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 1 | 5.2 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 1 | 5.2 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 20 | 5.2 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 20 | 5.2 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 20 | 5.2 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 20 | 5.2 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 20 | 5.2 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 20 | 5.2 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 13 | 5.2 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 13 | 5.2 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 17 | 5.2 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 17 | 5.2 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 5.2 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 5.2 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 5.2 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 5.2 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 5.2 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 5.2 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 5.2 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 20 | 5.2 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 5.2 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 20 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 15 | 5.2 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 15 | 5.2 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 1 | 5.2 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 1 | 5.2 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 6 | 5.2 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 6 | 5.2 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 6 | 5.2 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 6 | 5.2 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 1 | 5.2 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 1 | 5.2 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 8 | 5.2 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 8 | 5.2 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 8 | 5.2 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 8 | 5.2 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 8 | 5.2 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 8 | 5.2 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 6 | 5.2 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 6 | 5.2 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 9 | 5.2 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 9 | 5.2 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 4 | 5.2 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 4 | 5.2 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 16 | 5.2 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 16 | 5.2 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 16 | 5.2 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 16 | 5.2 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 16 | 5.2 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 16 | 5.2 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 13 | 5.2 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 13 | 5.2 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 13 | 5.2 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 1 | 5.2 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 1 | 5.2 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 20 | 5.2 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 19 | 5.2 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 15 | 5.2 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 16 | 5.2 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 16 | 5.2 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 16 | 5.2 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 6 | 5.2 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 6 | 5.2 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 6 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 2 | 5.2 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 5.2 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 5.2 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 5.2 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 11 | 5.2 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 3 | 5.2 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 3 | 5.2 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 3 | 5.2 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 7 | 5.2 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 7 | 5.2 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 7 | 5.2 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 8 | 5.2 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 9 | 5.2 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 19 | 5.2 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 3 | 5.2 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 3 | 5.2 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 3 | 5.2 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 17 | 5.2 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 8 | 5.2 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 8 | 5.2 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 8 | 5.2 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 11 | 5.2 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 11 | 5.2 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 11 | 5.2 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 11 | 5.2 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 11 | 5.2 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 11 | 5.2 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 11 | 5.2 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 11 | 5.2 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 11 | 5.2 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 17 | 5.2 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 20 | 5.2 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 15 | 5.2 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 15 | 5.2 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 12 | 5.2 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 12 | 5.2 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 12 | 5.2 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 12 | 5.2 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 12 | 5.2 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 12 | 5.2 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 13 | 5.2 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 3 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 3 | 5.2 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 19 | 5.2 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 19 | 5.2 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 7 | 5.2 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 20 | 5.2 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 20 | 5.2 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 12 | 5.2 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 6 | 5.2 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 6 | 5.2 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 4 | 5.2 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 4 | 5.2 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 3 | 5.2 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 15 | 5.2 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 19 | 5.2 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 19 | 5.2 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 19 | 5.2 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 7 | 5.2 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 19 | 5.2 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 11 | 5.2 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 19 | 5.2 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 3 | 5.2 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 2 | 5.2 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 2 | 5.2 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 2 | 5.2 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 6 | 5.2 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 6 | 5.2 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 6 | 5.2 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 7 | 5.2 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 7 | 5.2 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 7 | 5.2 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 15 | 5.2 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 15 | 5.2 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 15 | 5.2 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 15 | 5.2 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 15 | 5.2 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 15 | 5.2 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 4 | 5.2 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 10 | 5.2 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 17 | 5.2 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 15 | 5.2 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 15 | 5.2 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 11 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 7 | 5.2 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 7 | 5.2 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 7 | 5.2 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 16 | 5.2 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 11 | 5.2 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 17 | 5.2 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 8 | 5.2 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 8 | 5.2 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 8 | 5.2 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 10 | 5.2 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 8 | 5.2 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 8 | 5.2 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 8 | 5.2 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 8 | 5.2 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 8 | 5.2 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 8 | 5.2 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 8 | 5.2 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 8 | 5.2 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 8 | 5.2 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 5 | 5.2 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 10 | 5.2 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 7 | 5.2 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 19 | 5.2 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 14 | 5.2 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 14 | 5.2 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 14 | 5.2 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 14 | 5.2 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 14 | 5.2 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 14 | 5.2 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 17 | 5.2 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 17 | 5.2 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 17 | 5.2 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 4 | 5.2 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 19 | 5.2 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 19 | 5.2 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 1 | 5.2 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 18 | 5.2 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 8 | 5.2 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 4 | 5.2 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 19 | 5.2 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 19 | 5.2 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 19 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 4 | 5.2 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 4 | 5.2 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 4 | 5.2 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 15 | 5.2 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 15 | 5.2 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 15 | 5.2 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 1 | 5.2 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 1 | 5.2 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 1 | 5.2 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 1 | 5.2 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 1 | 5.2 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 1 | 5.2 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 1 | 5.2 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 1 | 5.2 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 1 | 5.2 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 12 | 5.2 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 20 | 5.2 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 20 | 5.2 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 19 | 5.2 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 19 | 5.2 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 19 | 5.2 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 19 | 5.2 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 16 | 5.2 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 12 | 5.2 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 5 | 5.2 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 16 | 5.2 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 16 | 5.2 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 16 | 5.2 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 5.2 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 5.2 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 5.2 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 5.2 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 5.2 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 5.2 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 19 | 5.2 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 19 | 5.2 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 19 | 5.2 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 5.2 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 5.2 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 5.2 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 5 | 5.2 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 5 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 5 | 5.2 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 5 | 5.2 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 9 | 5.2 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 15 | 5.2 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 15 | 5.2 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 15 | 5.2 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 15 | 5.2 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 8 | 5.2 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 1 | 5.2 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 1 | 5.2 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 1 | 5.2 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 3 | 5.2 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 3 | 5.2 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 3 | 5.2 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 3 | 5.2 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 3 | 5.2 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 3 | 5.2 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 1 | 5.2 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 1 | 5.2 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 1 | 5.2 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 12 | 5.2 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 12 | 5.2 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 12 | 5.2 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 9 | 5.2 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 9 | 5.2 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 9 | 5.2 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 18 | 5.2 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 13 | 5.2 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 12 | 5.2 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 13 | 5.2 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 13 | 5.2 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 5.2 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 5.2 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 5.2 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 5.2 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 5.2 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 5.2 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 5.2 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 20 | 5.2 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 5.2 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 20 | 5.2 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 15 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 15 | 5.2 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 9 | 5.2 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 1 | 5.2 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 1 | 5.2 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 14 | 5.2 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 1 | 5.2 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 1 | 5.2 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 15 | 5.2 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 15 | 5.2 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 19 | 5.2 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 3 | 5.2 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 2 | 5.2 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 2 | 5.2 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 2 | 5.2 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 6 | 5.2 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 6 | 5.2 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 6 | 5.2 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 17 | 5.2 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 17 | 5.2 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 9 | 5.2 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 9 | 5.2 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 7 | 5.2 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 7 | 5.2 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 7 | 5.2 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 15 | 5.2 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 15 | 5.2 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 15 | 5.2 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 15 | 5.2 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 15 | 5.2 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 15 | 5.2 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 4 | 5.2 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 10 | 5.2 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 17 | 5.2 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 15 | 5.2 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 15 | 5.2 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 11 | 5.2 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 7 | 5.2 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 7 | 5.2 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 7 | 5.2 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 16 | 5.2 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 16 | 5.2 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 1 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 1 | 5.2 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 1 | 5.2 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 16 | 5.2 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 11 | 5.2 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 17 | 5.2 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 8 | 5.2 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 1 | 5.2 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 8 | 5.2 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 8 | 5.2 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 8 | 5.2 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 10 | 5.2 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 8 | 5.2 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 8 | 5.2 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 8 | 5.2 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 8 | 5.2 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 8 | 5.2 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 8 | 5.2 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 8 | 5.2 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 8 | 5.2 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 8 | 5.2 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 19 | 5.2 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 19 | 5.2 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 19 | 5.2 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 7 | 5.2 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 18 | 5.2 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 18 | 5.2 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 18 | 5.2 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 2 | 5.2 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 2 | 5.2 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 2 | 5.2 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 18 | 5.2 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 18 | 5.2 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 18 | 5.2 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 5 | 5.2 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 5.2 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 9 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 9 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 12 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 12 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 13 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 13 | 5.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 16 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 16 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 18 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 18 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 20 | 5.2 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 20 | 5.2 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 10 | 5.2 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 7 | 5.2 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 19 | 5.2 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 2 | 5.2 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 2 | 5.2 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 2 | 5.2 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 14 | 5.2 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 14 | 5.2 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 14 | 5.2 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 14 | 5.2 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 14 | 5.2 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 14 | 5.2 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 19 | 5.2 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 19 | 5.2 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 19 | 5.2 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 17 | 5.2 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 17 | 5.2 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 17 | 5.2 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 3 | 5.2 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 13 | 5.2 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 13 | 5.2 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 13 | 5.2 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 4 | 5.2 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 19 | 5.2 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 19 | 5.2 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 1 | 5.2 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 19 | 5.2 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 16 | 5.19 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 6 | 5.19 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 17 | 5.19 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 17 | 5.19 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 14 | 5.19 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 14 | 5.19 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 14 | 5.19 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 14 | 5.19 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 14 | 5.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 14 | 5.19 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 12 | 5.19 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 12 | 5.19 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 1 | 5.19 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 1 | 5.19 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 3 | 5.19 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 3 | 5.19 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 15 | 5.19 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 15 | 5.19 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 12 | 5.19 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 12 | 5.19 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 15 | 5.19 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 15 | 5.19 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 15 | 5.19 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 15 | 5.19 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 12 | 5.19 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 12 | 5.19 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 11 | 5.19 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 11 | 5.19 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 9 | 5.19 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 9 | 5.19 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 6 | 5.19 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 6 | 5.19 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 16 | 5.19 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 16 | 5.19 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 1 | 5.19 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 1 | 5.19 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 1 | 5.19 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 1 | 5.19 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 1 | 5.19 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 1 | 5.19 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 15 | 5.19 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 15 | 5.19 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 17 | 5.19 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 17 | 5.19 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 17 | 5.19 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 17 | 5.19 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 12 | 5.19 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 12 | 5.19 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 9 | 5.19 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 9 | 5.19 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 16 | 5.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 16 | 5.19 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 17 | 5.19 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 17 | 5.19 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 17 | 5.19 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 17 | 5.19 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 17 | 5.19 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 17 | 5.19 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 16 | 5.19 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 16 | 5.19 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 16 | 5.19 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 16 | 5.19 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 5 | 5.19 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 5 | 5.19 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 5 | 5.19 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 5 | 5.19 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 11 | 5.19 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 11 | 5.19 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 2 | 5.19 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 6 | 5.19 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 6 | 5.19 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 6 | 5.19 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 6 | 5.19 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 6 | 5.19 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 6 | 5.19 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 6 | 5.19 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 6 | 5.19 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 6 | 5.19 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 19 | 5.19 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 15 | 5.19 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 15 | 5.19 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 15 | 5.19 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 15 | 5.19 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 11 | 5.19 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 11 | 5.19 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 11 | 5.19 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 11 | 5.19 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 16 | 5.19 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 12 | 5.19 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 12 | 5.19 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 12 | 5.19 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 13 | 5.19 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 4 | 5.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 5 | 5.19 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 16 | 5.19 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 16 | 5.19 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 16 | 5.19 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 19 | 5.19 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 19 | 5.19 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 19 | 5.19 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 6 | 5.19 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 17 | 5.19 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 20 | 5.19 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 2 | 5.19 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 8 | 5.19 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 12 | 5.19 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 12 | 5.19 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 12 | 5.19 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 2 | 5.19 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 2 | 5.19 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 2 | 5.19 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 2 | 5.19 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 2 | 5.19 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 2 | 5.19 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 2 | 5.19 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 2 | 5.19 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 2 | 5.19 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 17 | 5.19 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 3 | 5.19 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 4 | 5.19 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 4 | 5.19 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 15 | 5.19 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 7 | 5.19 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 3 | 5.19 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 4 | 5.19 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 15 | 5.19 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 7 | 5.19 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 16 | 5.19 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 19 | 5.19 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 2 | 5.19 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 2 | 5.19 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 2 | 5.19 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 10 | 5.19 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 10 | 5.19 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 10 | 5.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 20 | 5.19 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 1 | 5.19 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 1 | 5.19 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 18 | 5.19 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 1 | 5.19 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 1 | 5.19 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 16 | 5.19 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 16 | 5.19 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 16 | 5.19 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 20 | 5.19 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 13 | 5.19 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 15 | 5.19 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 15 | 5.19 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 15 | 5.19 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 9 | 5.19 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 9 | 5.19 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 9 | 5.19 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 9 | 5.19 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 9 | 5.19 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 9 | 5.19 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 3 | 5.19 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 3 | 5.19 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 3 | 5.19 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 12 | 5.19 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 12 | 5.19 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 12 | 5.19 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 12 | 5.19 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 12 | 5.19 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 12 | 5.19 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 9 | 5.19 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 17 | 5.19 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 17 | 5.19 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 5 | 5.19 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 5 | 5.19 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 5 | 5.19 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 1 | 5.19 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 6 | 5.19 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 6 | 5.19 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 18 | 5.19 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 18 | 5.19 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 18 | 5.19 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 18 | 5.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 18 | 5.19 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 18 | 5.19 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 18 | 5.19 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 18 | 5.19 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 18 | 5.19 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 17 | 5.19 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 4 | 5.19 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 4 | 5.19 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 4 | 5.19 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 1 | 5.19 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 17 | 5.19 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 5 | 5.19 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 5 | 5.19 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 5 | 5.19 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 3 | 5.19 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 14 | 5.19 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 14 | 5.19 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 14 | 5.19 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 8 | 5.19 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 8 | 5.19 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 8 | 5.19 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 7 | 5.19 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 7 | 5.19 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 7 | 5.19 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 16 | 5.19 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 20 | 5.19 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 20 | 5.19 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 5 | 5.19 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 5 | 5.19 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 5 | 5.19 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 4 | 5.19 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 4 | 5.19 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 4 | 5.19 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 4 | 5.19 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 4 | 5.19 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 4 | 5.19 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 15 | 5.19 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 15 | 5.19 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 15 | 5.19 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 3 | 5.19 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 15 | 5.19 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 15 | 5.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 15 | 5.19 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 16 | 5.19 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 16 | 5.19 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 16 | 5.19 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 11 | 5.19 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 19 | 5.19 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 19 | 5.19 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 19 | 5.19 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 17 | 5.19 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 13 | 5.19 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 13 | 5.19 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 13 | 5.19 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 18 | 5.19 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 18 | 5.19 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 18 | 5.19 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 3 | 5.19 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 15 | 5.19 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 15 | 5.19 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 15 | 5.19 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 15 | 5.19 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 9 | 5.19 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 9 | 5.19 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 9 | 5.19 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 9 | 5.19 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 12 | 5.19 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 9 | 5.19 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 8 | 5.19 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 8 | 5.19 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 12 | 5.19 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 12 | 5.19 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 14 | 5.19 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 14 | 5.19 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 14 | 5.19 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 14 | 5.19 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 14 | 5.19 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 14 | 5.19 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 4 | 5.19 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 6 | 5.19 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 6 | 5.19 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 5 | 5.19 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 12 | 5.19 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 12 | 5.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 16 | 5.19 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 16 | 5.19 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 8 | 5.19 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 8 | 5.19 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 8 | 5.19 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 17 | 5.19 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 17 | 5.19 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 17 | 5.19 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 17 | 5.19 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 17 | 5.19 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 17 | 5.19 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 16 | 5.19 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 16 | 5.19 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 17 | 5.19 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 17 | 5.19 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 5 | 5.19 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 5 | 5.19 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 5 | 5.19 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 18 | 5.19 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 18 | 5.19 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 18 | 5.19 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 18 | 5.19 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 5 | 5.19 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 5 | 5.19 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 5 | 5.19 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 5 | 5.19 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 14 | 5.19 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 14 | 5.19 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 14 | 5.19 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 14 | 5.19 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 5.19 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 7 | 5.19 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 6 | 5.19 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 6 | 5.19 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 6 | 5.19 |
| (1,3376) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 4 | 5.19 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 3 | 5.19 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 3 | 5.19 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 3 | 5.19 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 12 | 5.19 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 12 | 5.19 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 12 | 5.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 12 | 5.19 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 12 | 5.19 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 12 | 5.19 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 9 | 5.19 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 17 | 5.19 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 17 | 5.19 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 5 | 5.19 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 5 | 5.19 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 5 | 5.19 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 1 | 5.19 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 6 | 5.19 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 6 | 5.19 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 18 | 5.19 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 18 | 5.19 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 18 | 5.19 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 18 | 5.19 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 18 | 5.19 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 18 | 5.19 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 18 | 5.19 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 18 | 5.19 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 18 | 5.19 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 17 | 5.19 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 4 | 5.19 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 4 | 5.19 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 4 | 5.19 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 1 | 5.19 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 17 | 5.19 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 5 | 5.19 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 5 | 5.19 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 5 | 5.19 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 3 | 5.19 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 6 | 5.19 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 14 | 5.19 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 14 | 5.19 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 14 | 5.19 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 8 | 5.19 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 8 | 5.19 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 8 | 5.19 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 7 | 5.19 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 7 | 5.19 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 7 | 5.19 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 3 | 5.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 16 | 5.19 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 4 | 5.19 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 4 | 5.19 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 4 | 5.19 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 13 | 5.19 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 20 | 5.19 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 20 | 5.19 |
| (1,1698) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 8 | 5.19 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 6 | 5.19 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 6 | 5.19 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 5 | 5.19 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 5 | 5.19 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 5 | 5.19 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 4 | 5.19 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 4 | 5.19 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 4 | 5.19 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 4 | 5.19 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 4 | 5.19 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 4 | 5.19 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 2 | 5.19 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 9 | 5.18 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 14 | 5.18 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 4 | 5.18 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 13 | 5.18 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 6 | 5.18 |
| (4,48) | 1:15:A:MET:CB | 1:105:A:SER:H | 14 | 5.18 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 10 | 5.18 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 10 | 5.18 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 10 | 5.18 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 10 | 5.18 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 10 | 5.18 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 10 | 5.18 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 9 | 5.18 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 9 | 5.18 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 12 | 5.18 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 12 | 5.18 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 2 | 5.18 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 2 | 5.18 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 2 | 5.18 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 2 | 5.18 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 2 | 5.18 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 2 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 18 | 5.18 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 18 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 3 | 5.18 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 3 | 5.18 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 19 | 5.18 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 19 | 5.18 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 19 | 5.18 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 19 | 5.18 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 19 | 5.18 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 19 | 5.18 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 19 | 5.18 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 19 | 5.18 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 9 | 5.18 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 9 | 5.18 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 1 | 5.18 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 1 | 5.18 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 8 | 5.18 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 8 | 5.18 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 6 | 5.18 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 6 | 5.18 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 6 | 5.18 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 6 | 5.18 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 12 | 5.18 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 12 | 5.18 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 12 | 5.18 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 12 | 5.18 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 5 | 5.18 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 5 | 5.18 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 5 | 5.18 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 5 | 5.18 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 5 | 5.18 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 5 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 7 | 5.18 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 7 | 5.18 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 2 | 5.18 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 2 | 5.18 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 9 | 5.18 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 9 | 5.18 |
| (1,8994) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 10 | 5.18 |
| (1,8994) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 10 | 5.18 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 16 | 5.18 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 16 | 5.18 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 18 | 5.18 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 18 | 5.18 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 4 | 5.18 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 4 | 5.18 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 19 | 5.18 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 19 | 5.18 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 4 | 5.18 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 4 | 5.18 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 5 | 5.18 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 5 | 5.18 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 5 | 5.18 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 5 | 5.18 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 5 | 5.18 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 5 | 5.18 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 10 | 5.18 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 10 | 5.18 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 10 | 5.18 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 10 | 5.18 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 10 | 5.18 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 10 | 5.18 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 17 | 5.18 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 17 | 5.18 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 17 | 5.18 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 17 | 5.18 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 7 | 5.18 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 7 | 5.18 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 6 | 5.18 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 6 | 5.18 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 6 | 5.18 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 6 | 5.18 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 13 | 5.18 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 13 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 13 | 5.18 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 13 | 5.18 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 16 | 5.18 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 16 | 5.18 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD11 | 13 | 5.18 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD12 | 13 | 5.18 |
| (1,8516) | 1:28:A:ILE:H | 1:141:A:LEU:HD13 | 13 | 5.18 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 9 | 5.18 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 6 | 5.18 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 1 | 5.18 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 1 | 5.18 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 6 | 5.18 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 14 | 5.18 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 14 | 5.18 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 18 | 5.18 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 18 | 5.18 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 18 | 5.18 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 13 | 5.18 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 13 | 5.18 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 18 | 5.18 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 7 | 5.18 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 7 | 5.18 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 7 | 5.18 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 1 | 5.18 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 1 | 5.18 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 1 | 5.18 |
| (1,8129) | 1:95:A:LYS:H | 1:99:A:GLY:H | 10 | 5.18 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 1 | 5.18 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 1 | 5.18 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 1 | 5.18 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 15 | 5.18 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 15 | 5.18 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 15 | 5.18 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 20 | 5.18 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 20 | 5.18 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 20 | 5.18 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 2 | 5.18 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 2 | 5.18 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 2 | 5.18 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 14 | 5.18 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 16 | 5.18 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 16 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 6 | 5.18 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 6 | 5.18 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 6 | 5.18 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 6 | 5.18 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 16 | 5.18 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 16 | 5.18 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 16 | 5.18 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 17 | 5.18 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 8 | 5.18 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 19 | 5.18 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 19 | 5.18 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 1 | 5.18 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 1 | 5.18 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 1 | 5.18 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 5 | 5.18 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 19 | 5.18 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 15 | 5.18 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 8 | 5.18 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 18 | 5.18 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 18 | 5.18 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 18 | 5.18 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 1 | 5.18 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 19 | 5.18 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 14 | 5.18 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 7 | 5.18 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 7 | 5.18 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 7 | 5.18 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 7 | 5.18 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 7 | 5.18 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 7 | 5.18 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 9 | 5.18 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 9 | 5.18 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 9 | 5.18 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 17 | 5.18 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 17 | 5.18 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 17 | 5.18 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 19 | 5.18 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 9 | 5.18 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 9 | 5.18 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 9 | 5.18 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 18 | 5.18 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 18 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 18 | 5.18 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 18 | 5.18 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 18 | 5.18 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 1 | 5.18 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 1 | 5.18 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 8 | 5.18 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 13 | 5.18 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 8 | 5.18 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 15 | 5.18 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 19 | 5.18 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 19 | 5.18 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 19 | 5.18 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 19 | 5.18 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 19 | 5.18 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 19 | 5.18 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 19 | 5.18 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 19 | 5.18 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 19 | 5.18 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 4 | 5.18 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 4 | 5.18 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 4 | 5.18 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 4 | 5.18 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 4 | 5.18 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 4 | 5.18 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 4 | 5.18 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 4 | 5.18 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 4 | 5.18 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 4 | 5.18 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 9 | 5.18 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 9 | 5.18 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 9 | 5.18 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 17 | 5.18 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 17 | 5.18 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 17 | 5.18 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 16 | 5.18 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 11 | 5.18 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 1 | 5.18 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 1 | 5.18 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 10 | 5.18 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 14 | 5.18 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 18 | 5.18 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 4 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 4 | 5.18 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 4 | 5.18 |
| (1,5494) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 5 | 5.18 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 15 | 5.18 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 15 | 5.18 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 15 | 5.18 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 5 | 5.18 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 5 | 5.18 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 5 | 5.18 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 5 | 5.18 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 5 | 5.18 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 5 | 5.18 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 18 | 5.18 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 18 | 5.18 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 18 | 5.18 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 16 | 5.18 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 16 | 5.18 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 16 | 5.18 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 17 | 5.18 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 6 | 5.18 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 12 | 5.18 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 1 | 5.18 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 1 | 5.18 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 1 | 5.18 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 15 | 5.18 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 15 | 5.18 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 15 | 5.18 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 3 | 5.18 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 3 | 5.18 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 5 | 5.18 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 5 | 5.18 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 5 | 5.18 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 17 | 5.18 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 17 | 5.18 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 17 | 5.18 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 10 | 5.18 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 10 | 5.18 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 10 | 5.18 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 12 | 5.18 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 12 | 5.18 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 12 | 5.18 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 12 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 12 | 5.18 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 12 | 5.18 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 16 | 5.18 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 16 | 5.18 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 16 | 5.18 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 9 | 5.18 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 9 | 5.18 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 6 | 5.18 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 6 | 5.18 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 6 | 5.18 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 12 | 5.18 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 12 | 5.18 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 2 | 5.18 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 2 | 5.18 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 2 | 5.18 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 2 | 5.18 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 2 | 5.18 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 2 | 5.18 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 18 | 5.18 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 18 | 5.18 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 19 | 5.18 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 19 | 5.18 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 19 | 5.18 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 19 | 5.18 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 9 | 5.18 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 9 | 5.18 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 14 | 5.18 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 14 | 5.18 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 16 | 5.18 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 18 | 5.18 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 13 | 5.18 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 5 | 5.18 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 5 | 5.18 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 10 | 5.18 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 2 | 5.18 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 2 | 5.18 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 5 | 5.18 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 12 | 5.18 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 10 | 5.18 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 3 | 5.18 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 3 | 5.18 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 3 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 10 | 5.18 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 10 | 5.18 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 10 | 5.18 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 10 | 5.18 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 10 | 5.18 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 10 | 5.18 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 17 | 5.18 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 17 | 5.18 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 17 | 5.18 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 17 | 5.18 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 6 | 5.18 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 6 | 5.18 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 6 | 5.18 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 6 | 5.18 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 13 | 5.18 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 13 | 5.18 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 13 | 5.18 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 13 | 5.18 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 11 | 5.18 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 11 | 5.18 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 11 | 5.18 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 14 | 5.18 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 7 | 5.18 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 7 | 5.18 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 7 | 5.18 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 7 | 5.18 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 7 | 5.18 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 7 | 5.18 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 19 | 5.18 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 9 | 5.18 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 9 | 5.18 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 9 | 5.18 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 5 | 5.18 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 5 | 5.18 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 17 | 5.18 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 17 | 5.18 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 17 | 5.18 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 19 | 5.18 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 9 | 5.18 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 9 | 5.18 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 9 | 5.18 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 18 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 18 | 5.18 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 18 | 5.18 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 18 | 5.18 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 18 | 5.18 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 1 | 5.18 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 1 | 5.18 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 18 | 5.18 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 8 | 5.18 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 13 | 5.18 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 8 | 5.18 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 15 | 5.18 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 8 | 5.18 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 19 | 5.18 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 19 | 5.18 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 19 | 5.18 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 19 | 5.18 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 19 | 5.18 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 19 | 5.18 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 19 | 5.18 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 19 | 5.18 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 19 | 5.18 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 4 | 5.18 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 4 | 5.18 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 4 | 5.18 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 4 | 5.18 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 4 | 5.18 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 4 | 5.18 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 4 | 5.18 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 4 | 5.18 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 4 | 5.18 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 9 | 5.18 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 9 | 5.18 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 9 | 5.18 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 17 | 5.18 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 17 | 5.18 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 17 | 5.18 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 7 | 5.18 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 7 | 5.18 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 7 | 5.18 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 7 | 5.18 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 7 | 5.18 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 7 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 1 | 5.18 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 1 | 5.18 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 3 | 5.18 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 3 | 5.18 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 7 | 5.18 |
| (1,1550) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 7 | 5.18 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 18 | 5.18 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 18 | 5.18 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 16 | 5.18 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 11 | 5.18 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 16 | 5.18 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 17 | 5.18 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 17 | 5.18 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 17 | 5.18 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 1 | 5.18 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 1 | 5.18 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 10 | 5.18 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 14 | 5.18 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 18 | 5.18 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 12 | 5.18 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 12 | 5.18 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 12 | 5.18 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 4 | 5.18 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 4 | 5.18 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 4 | 5.18 |
| (1,632) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 5 | 5.18 |
| (1,589) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 18 | 5.18 |
| (1,589) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 18 | 5.18 |
| (1,589) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 18 | 5.18 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 15 | 5.18 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 15 | 5.18 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 15 | 5.18 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 5 | 5.18 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 5 | 5.18 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 5 | 5.18 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 5 | 5.18 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 5 | 5.18 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 5 | 5.18 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 1 | 5.18 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 11 | 5.17 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 15 | 5.17 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 10 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 3 | 5.17 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 3 | 5.17 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 12 | 5.17 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 12 | 5.17 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 9 | 5.17 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 9 | 5.17 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 6 | 5.17 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 6 | 5.17 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 6 | 5.17 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 6 | 5.17 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 6 | 5.17 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 6 | 5.17 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 6 | 5.17 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 6 | 5.17 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 15 | 5.17 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 15 | 5.17 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 15 | 5.17 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 15 | 5.17 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 15 | 5.17 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 15 | 5.17 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 11 | 5.17 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 11 | 5.17 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 11 | 5.17 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 11 | 5.17 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 11 | 5.17 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 11 | 5.17 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 14 | 5.17 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 14 | 5.17 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 14 | 5.17 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 14 | 5.17 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 14 | 5.17 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 14 | 5.17 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 5 | 5.17 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 5 | 5.17 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 19 | 5.17 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 19 | 5.17 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 2 | 5.17 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 2 | 5.17 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 13 | 5.17 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 13 | 5.17 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 13 | 5.17 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 13 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 19 | 5.17 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 19 | 5.17 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 18 | 5.17 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 18 | 5.17 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 18 | 5.17 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 18 | 5.17 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 18 | 5.17 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 18 | 5.17 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 6 | 5.17 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 6 | 5.17 |
| (1,8788) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 16 | 5.17 |
| (1,8788) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 16 | 5.17 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 2 | 5.17 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 2 | 5.17 |
| (1,8741) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 14 | 5.17 |
| (1,8741) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 14 | 5.17 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 8 | 5.17 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 8 | 5.17 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 8 | 5.17 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 8 | 5.17 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 8 | 5.17 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 8 | 5.17 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 15 | 5.17 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 15 | 5.17 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 15 | 5.17 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 15 | 5.17 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 13 | 5.17 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 13 | 5.17 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 17 | 5.17 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 17 | 5.17 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 8 | 5.17 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 8 | 5.17 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 8 | 5.17 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 8 | 5.17 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 8 | 5.17 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 8 | 5.17 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 8 | 5.17 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 8 | 5.17 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 8 | 5.17 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 14 | 5.17 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 14 | 5.17 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 14 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 11 | 5.17 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 11 | 5.17 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 11 | 5.17 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 11 | 5.17 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 11 | 5.17 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 11 | 5.17 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 1 | 5.17 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 1 | 5.17 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 1 | 5.17 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 18 | 5.17 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 20 | 5.17 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 20 | 5.17 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 20 | 5.17 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 20 | 5.17 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 20 | 5.17 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 20 | 5.17 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 11 | 5.17 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 1 | 5.17 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 4 | 5.17 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 4 | 5.17 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 17 | 5.17 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 5 | 5.17 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 2 | 5.17 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 1 | 5.17 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 7 | 5.17 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 15 | 5.17 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 15 | 5.17 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 15 | 5.17 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 4 | 5.17 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 4 | 5.17 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 4 | 5.17 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 10 | 5.17 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 10 | 5.17 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 10 | 5.17 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 13 | 5.17 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 13 | 5.17 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 13 | 5.17 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 16 | 5.17 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 16 | 5.17 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 16 | 5.17 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 5 | 5.17 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 5 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 7 | 5.17 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 7 | 5.17 |
| (1,8120) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 7 | 5.17 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 5 | 5.17 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 5 | 5.17 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 5 | 5.17 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 5 | 5.17 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 19 | 5.17 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 19 | 5.17 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 19 | 5.17 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 15 | 5.17 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 15 | 5.17 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 15 | 5.17 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 2 | 5.17 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 2 | 5.17 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 18 | 5.17 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 18 | 5.17 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 18 | 5.17 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 7 | 5.17 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 6 | 5.17 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 6 | 5.17 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 6 | 5.17 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 10 | 5.17 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 10 | 5.17 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 10 | 5.17 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 8 | 5.17 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 8 | 5.17 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 8 | 5.17 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 17 | 5.17 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 17 | 5.17 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 17 | 5.17 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 17 | 5.17 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 4 | 5.17 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 6 | 5.17 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 5 | 5.17 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 5 | 5.17 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 5 | 5.17 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 14 | 5.17 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 12 | 5.17 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 12 | 5.17 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 18 | 5.17 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 18 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 2 | 5.17 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 2 | 5.17 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 5 | 5.17 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 20 | 5.17 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 18 | 5.17 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 18 | 5.17 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 5 | 5.17 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 12 | 5.17 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 12 | 5.17 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 11 | 5.17 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 11 | 5.17 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 11 | 5.17 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 11 | 5.17 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 11 | 5.17 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 11 | 5.17 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 11 | 5.17 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 11 | 5.17 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 11 | 5.17 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 15 | 5.17 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 15 | 5.17 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 15 | 5.17 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 15 | 5.17 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 15 | 5.17 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 15 | 5.17 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 15 | 5.17 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 15 | 5.17 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 15 | 5.17 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 6 | 5.17 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 6 | 5.17 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 6 | 5.17 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 16 | 5.17 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 3 | 5.17 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 3 | 5.17 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 3 | 5.17 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 3 | 5.17 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 3 | 5.17 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 8 | 5.17 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 11 | 5.17 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 3 | 5.17 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 13 | 5.17 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 13 | 5.17 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 13 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 4 | 5.17 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 4 | 5.17 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 4 | 5.17 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 18 | 5.17 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 18 | 5.17 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 18 | 5.17 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 17 | 5.17 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 17 | 5.17 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 17 | 5.17 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 8 | 5.17 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 8 | 5.17 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 8 | 5.17 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 8 | 5.17 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 8 | 5.17 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 8 | 5.17 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 8 | 5.17 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 8 | 5.17 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 8 | 5.17 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 9 | 5.17 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 9 | 5.17 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 8 | 5.17 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 8 | 5.17 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 8 | 5.17 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 12 | 5.17 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 12 | 5.17 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 12 | 5.17 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 1 | 5.17 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 18 | 5.17 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 18 | 5.17 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 18 | 5.17 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 5 | 5.17 |
| (1,5708) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 4 | 5.17 |
| (1,5708) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 4 | 5.17 |
| (1,5708) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 4 | 5.17 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 1 | 5.17 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 1 | 5.17 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 1 | 5.17 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 10 | 5.17 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 4 | 5.17 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 4 | 5.17 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 4 | 5.17 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 18 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 18 | 5.17 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 18 | 5.17 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 10 | 5.17 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 10 | 5.17 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 10 | 5.17 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 16 | 5.17 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 16 | 5.17 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 16 | 5.17 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 17 | 5.17 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 17 | 5.17 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 12 | 5.17 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 1 | 5.17 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 1 | 5.17 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 1 | 5.17 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 9 | 5.17 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 14 | 5.17 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 14 | 5.17 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 14 | 5.17 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 17 | 5.17 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 13 | 5.17 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 13 | 5.17 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 12 | 5.17 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 12 | 5.17 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 12 | 5.17 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 18 | 5.17 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 18 | 5.17 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 18 | 5.17 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 12 | 5.17 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 12 | 5.17 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 12 | 5.17 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 6 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 6 | 5.17 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 6 | 5.17 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 4 | 5.17 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 4 | 5.17 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 4 | 5.17 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 4 | 5.17 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 4 | 5.17 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 4 | 5.17 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 4 | 5.17 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 4 | 5.17 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 4 | 5.17 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 4 | 5.17 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 5 | 5.17 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 10 | 5.17 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 10 | 5.17 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 10 | 5.17 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 3 | 5.17 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 3 | 5.17 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 12 | 5.17 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 12 | 5.17 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 19 | 5.17 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 19 | 5.17 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 15 | 5.17 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 15 | 5.17 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 2 | 5.17 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 18 | 5.17 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 6 | 5.17 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 6 | 5.17 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 6 | 5.17 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 6 | 5.17 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 6 | 5.17 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 6 | 5.17 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 6 | 5.17 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 6 | 5.17 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 15 | 5.17 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 15 | 5.17 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 15 | 5.17 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 15 | 5.17 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 15 | 5.17 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 15 | 5.17 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 15 | 5.17 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 15 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 15 | 5.17 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 15 | 5.17 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 15 | 5.17 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 16 | 5.17 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 16 | 5.17 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 16 | 5.17 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 11 | 5.17 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 11 | 5.17 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 11 | 5.17 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 11 | 5.17 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 11 | 5.17 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 11 | 5.17 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 5.17 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 17 | 5.17 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 5 | 5.17 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 5.17 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 15 | 5.17 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 12 | 5.17 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 12 | 5.17 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 12 | 5.17 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 19 | 5.17 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 19 | 5.17 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 7 | 5.17 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 7 | 5.17 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 7 | 5.17 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 7 | 5.17 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 15 | 5.17 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 17 | 5.17 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 16 | 5.17 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 16 | 5.17 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 16 | 5.17 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 16 | 5.17 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 8 | 5.17 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 8 | 5.17 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 8 | 5.17 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 8 | 5.17 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 8 | 5.17 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 8 | 5.17 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 2 | 5.17 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 2 | 5.17 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 8 | 5.17 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 8 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 11 | 5.17 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 5 | 5.17 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 1 | 5.17 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 1 | 5.17 |
| (1,3364) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 1 | 5.17 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 11 | 5.17 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 11 | 5.17 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 11 | 5.17 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 11 | 5.17 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 11 | 5.17 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 11 | 5.17 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 11 | 5.17 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 11 | 5.17 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 11 | 5.17 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 15 | 5.17 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 15 | 5.17 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 15 | 5.17 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 15 | 5.17 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 15 | 5.17 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 15 | 5.17 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 15 | 5.17 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 15 | 5.17 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 15 | 5.17 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 6 | 5.17 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 6 | 5.17 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 6 | 5.17 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 16 | 5.17 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 3 | 5.17 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 3 | 5.17 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 3 | 5.17 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 3 | 5.17 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 3 | 5.17 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 11 | 5.17 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 11 | 5.17 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 8 | 5.17 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 11 | 5.17 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 3 | 5.17 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 13 | 5.17 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 13 | 5.17 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 13 | 5.17 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 16 | 5.17 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 4 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 4 | 5.17 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 4 | 5.17 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 16 | 5.17 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 5.17 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 17 | 5.17 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 18 | 5.17 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 18 | 5.17 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 18 | 5.17 |
| (1,1922) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 18 | 5.17 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 17 | 5.17 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 17 | 5.17 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 17 | 5.17 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 8 | 5.17 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 8 | 5.17 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 8 | 5.17 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 8 | 5.17 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 8 | 5.17 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 8 | 5.17 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 8 | 5.17 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 8 | 5.17 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 8 | 5.17 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 9 | 5.17 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 9 | 5.17 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 8 | 5.17 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 8 | 5.17 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 8 | 5.17 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 12 | 5.17 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 12 | 5.17 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 12 | 5.17 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 18 | 5.17 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 18 | 5.17 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 18 | 5.17 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 1 | 5.17 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 18 | 5.17 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 18 | 5.17 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 18 | 5.17 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 5 | 5.17 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 11 | 5.17 |
| (1,988) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 4 | 5.17 |
| (1,988) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 4 | 5.17 |
| (1,988) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 4 | 5.17 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 1 | 5.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 1 | 5.17 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 1 | 5.17 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 20 | 5.17 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 10 | 5.17 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 7 | 5.17 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 4 | 5.17 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 4 | 5.17 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 4 | 5.17 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 18 | 5.17 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 18 | 5.17 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 18 | 5.17 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 10 | 5.17 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 10 | 5.17 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 10 | 5.17 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 16 | 5.17 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 16 | 5.17 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 16 | 5.17 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 17 | 5.17 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 2 | 5.17 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 9 | 5.17 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 7 | 5.17 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 20 | 5.17 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 15 | 5.17 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 15 | 5.17 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 15 | 5.17 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 14 | 5.16 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 19 | 5.16 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 19 | 5.16 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 5 | 5.16 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 5 | 5.16 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 5 | 5.16 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 5 | 5.16 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 5 | 5.16 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 5 | 5.16 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 13 | 5.16 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 13 | 5.16 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 6 | 5.16 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 6 | 5.16 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 6 | 5.16 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 6 | 5.16 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 6 | 5.16 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 6 | 5.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 5 | 5.16 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 5 | 5.16 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 5 | 5.16 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 5 | 5.16 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 5 | 5.16 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 5 | 5.16 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 15 | 5.16 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 15 | 5.16 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 14 | 5.16 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 14 | 5.16 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 10 | 5.16 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 10 | 5.16 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 10 | 5.16 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 10 | 5.16 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 17 | 5.16 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 17 | 5.16 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 8 | 5.16 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 8 | 5.16 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 8 | 5.16 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 8 | 5.16 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 1 | 5.16 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 1 | 5.16 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 1 | 5.16 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 1 | 5.16 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 7 | 5.16 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 7 | 5.16 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 7 | 5.16 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 7 | 5.16 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 7 | 5.16 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 7 | 5.16 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 2 | 5.16 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 2 | 5.16 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 6 | 5.16 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 6 | 5.16 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 12 | 5.16 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 12 | 5.16 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 12 | 5.16 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 12 | 5.16 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 14 | 5.16 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 14 | 5.16 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 14 | 5.16 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 14 | 5.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 14 | 5.16 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 14 | 5.16 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 10 | 5.16 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 10 | 5.16 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 6 | 5.16 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 6 | 5.16 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 9 | 5.16 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 9 | 5.16 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 18 | 5.16 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 18 | 5.16 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 15 | 5.16 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 15 | 5.16 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 12 | 5.16 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 12 | 5.16 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 5 | 5.16 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 5 | 5.16 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 5 | 5.16 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 5 | 5.16 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 5 | 5.16 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 5 | 5.16 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 5 | 5.16 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 5 | 5.16 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 5 | 5.16 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 3 | 5.16 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 1 | 5.16 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 1 | 5.16 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 1 | 5.16 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 1 | 5.16 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 1 | 5.16 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 1 | 5.16 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 19 | 5.16 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 19 | 5.16 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 19 | 5.16 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 19 | 5.16 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 10 | 5.16 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 10 | 5.16 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 4 | 5.16 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 8 | 5.16 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 8 | 5.16 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 8 | 5.16 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 8 | 5.16 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 8 | 5.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 8 | 5.16 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 8 | 5.16 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 8 | 5.16 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 8 | 5.16 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 12 | 5.16 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 12 | 5.16 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 12 | 5.16 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 12 | 5.16 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 12 | 5.16 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 12 | 5.16 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 16 | 5.16 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 2 | 5.16 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 2 | 5.16 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 13 | 5.16 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 10 | 5.16 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 10 | 5.16 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 10 | 5.16 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 15 | 5.16 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 13 | 5.16 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 7 | 5.16 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 7 | 5.16 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 17 | 5.16 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 17 | 5.16 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 17 | 5.16 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 6 | 5.16 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 6 | 5.16 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 6 | 5.16 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 1 | 5.16 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 3 | 5.16 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 4 | 5.16 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 4 | 5.16 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 4 | 5.16 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 12 | 5.16 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 12 | 5.16 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 9 | 5.16 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 1 | 5.16 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 1 | 5.16 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 18 | 5.16 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 18 | 5.16 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 18 | 5.16 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 18 | 5.16 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 18 | 5.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 18 | 5.16 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 12 | 5.16 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 11 | 5.16 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 4 | 5.16 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 1 | 5.16 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 12 | 5.16 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 2 | 5.16 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 2 | 5.16 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 19 | 5.16 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 19 | 5.16 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 7 | 5.16 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 7 | 5.16 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 7 | 5.16 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 18 | 5.16 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 17 | 5.16 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 17 | 5.16 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 17 | 5.16 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 2 | 5.16 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 2 | 5.16 |
| (1,7441) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 2 | 5.16 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 2 | 5.16 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 13 | 5.16 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 4 | 5.16 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 4 | 5.16 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 4 | 5.16 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 6 | 5.16 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 17 | 5.16 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 17 | 5.16 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 17 | 5.16 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 12 | 5.16 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 12 | 5.16 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 12 | 5.16 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 8 | 5.16 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 8 | 5.16 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 8 | 5.16 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 19 | 5.16 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 20 | 5.16 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 20 | 5.16 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 20 | 5.16 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 20 | 5.16 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 10 | 5.16 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 20 | 5.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 20 | 5.16 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 20 | 5.16 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 18 | 5.16 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 18 | 5.16 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 18 | 5.16 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 18 | 5.16 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 18 | 5.16 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 18 | 5.16 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 18 | 5.16 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 18 | 5.16 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 18 | 5.16 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 19 | 5.16 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 7 | 5.16 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 7 | 5.16 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 7 | 5.16 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 2 | 5.16 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 11 | 5.16 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 19 | 5.16 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 3 | 5.16 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 3 | 5.16 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 4 | 5.16 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 4 | 5.16 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 9 | 5.16 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 9 | 5.16 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 16 | 5.16 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 16 | 5.16 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 11 | 5.16 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 13 | 5.16 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 13 | 5.16 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 9 | 5.16 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 14 | 5.16 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 8 | 5.16 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 9 | 5.16 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 17 | 5.16 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 17 | 5.16 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 17 | 5.16 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 5 | 5.16 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 20 | 5.16 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 6 | 5.16 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 19 | 5.16 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 3 | 5.16 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 20 | 5.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 20 | 5.16 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 13 | 5.16 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 13 | 5.16 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 13 | 5.16 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 13 | 5.16 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 13 | 5.16 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 13 | 5.16 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 11 | 5.16 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 11 | 5.16 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 11 | 5.16 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 16 | 5.16 |
| (1,4645) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 1 | 5.16 |
| (1,4645) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 1 | 5.16 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 14 | 5.16 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 14 | 5.16 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 14 | 5.16 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 12 | 5.16 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 12 | 5.16 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 12 | 5.16 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 8 | 5.16 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 8 | 5.16 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 8 | 5.16 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 13 | 5.16 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 13 | 5.16 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 16 | 5.16 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 16 | 5.16 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 5 | 5.16 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 5 | 5.16 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 5 | 5.16 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 5 | 5.16 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 5 | 5.16 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 5 | 5.16 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 10 | 5.16 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 10 | 5.16 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 10 | 5.16 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 10 | 5.16 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 19 | 5.16 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 5 | 5.16 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 6 | 5.16 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 12 | 5.16 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 8 | 5.16 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 8 | 5.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 8 | 5.16 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 8 | 5.16 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 1 | 5.16 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 1 | 5.16 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 1 | 5.16 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 1 | 5.16 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 3 | 5.16 |
| (1,4170) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 7 | 5.16 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 7 | 5.16 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 13 | 5.16 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 13 | 5.16 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 13 | 5.16 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 7 | 5.16 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 7 | 5.16 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 7 | 5.16 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 7 | 5.16 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 7 | 5.16 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 7 | 5.16 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 6 | 5.16 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 9 | 5.16 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 9 | 5.16 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 9 | 5.16 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 7 | 5.16 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 10 | 5.16 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 10 | 5.16 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 10 | 5.16 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 10 | 5.16 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 10 | 5.16 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 10 | 5.16 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 16 | 5.16 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 14 | 5.16 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 3 | 5.16 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 10 | 5.16 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 10 | 5.16 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 8 | 5.16 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 17 | 5.16 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 12 | 5.16 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 12 | 5.16 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 3 | 5.16 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 3 | 5.16 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 3 | 5.16 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 3 | 5.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 3 | 5.16 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 12 | 5.16 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 12 | 5.16 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 5 | 5.16 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 6 | 5.16 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 17 | 5.16 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 17 | 5.16 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 17 | 5.16 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 19 | 5.16 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 19 | 5.16 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 19 | 5.16 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 12 | 5.16 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 12 | 5.16 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 12 | 5.16 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 8 | 5.16 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 8 | 5.16 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 8 | 5.16 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 19 | 5.16 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 20 | 5.16 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 17 | 5.16 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 17 | 5.16 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 17 | 5.16 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 20 | 5.16 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 20 | 5.16 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 20 | 5.16 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 9 | 5.16 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 20 | 5.16 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 20 | 5.16 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 20 | 5.16 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 18 | 5.16 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 18 | 5.16 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 18 | 5.16 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 18 | 5.16 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 18 | 5.16 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 18 | 5.16 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 18 | 5.16 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 18 | 5.16 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 18 | 5.16 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 9 | 5.16 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 9 | 5.16 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 9 | 5.16 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 4 | 5.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 19 | 5.16 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 7 | 5.16 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 7 | 5.16 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 7 | 5.16 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 2 | 5.16 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 11 | 5.16 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 19 | 5.16 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 7 | 5.16 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 7 | 5.16 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 11 | 5.16 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 13 | 5.16 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 13 | 5.16 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 9 | 5.16 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 14 | 5.16 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 8 | 5.16 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 9 | 5.16 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 17 | 5.16 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 17 | 5.16 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 17 | 5.16 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 17 | 5.16 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 17 | 5.16 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 17 | 5.16 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 17 | 5.16 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 17 | 5.16 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 17 | 5.16 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 10 | 5.15 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 9 | 5.15 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 7 | 5.15 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 7 | 5.15 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 8 | 5.15 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 8 | 5.15 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 8 | 5.15 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 8 | 5.15 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 8 | 5.15 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 8 | 5.15 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 15 | 5.15 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 15 | 5.15 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 15 | 5.15 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 15 | 5.15 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 15 | 5.15 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 15 | 5.15 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 15 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 15 | 5.15 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 15 | 5.15 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 15 | 5.15 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 14 | 5.15 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 14 | 5.15 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 14 | 5.15 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 14 | 5.15 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 14 | 5.15 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 14 | 5.15 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 16 | 5.15 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 16 | 5.15 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 5 | 5.15 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 5 | 5.15 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 5 | 5.15 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 5 | 5.15 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 7 | 5.15 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 7 | 5.15 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 7 | 5.15 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 7 | 5.15 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 17 | 5.15 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 17 | 5.15 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 17 | 5.15 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 17 | 5.15 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 16 | 5.15 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 16 | 5.15 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 16 | 5.15 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 16 | 5.15 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 16 | 5.15 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 16 | 5.15 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 16 | 5.15 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 16 | 5.15 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 3 | 5.15 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 3 | 5.15 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 3 | 5.15 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 3 | 5.15 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 8 | 5.15 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 8 | 5.15 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 3 | 5.15 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 3 | 5.15 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 18 | 5.15 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 18 | 5.15 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 7 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 7 | 5.15 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 16 | 5.15 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 16 | 5.15 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 16 | 5.15 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 16 | 5.15 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 16 | 5.15 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 16 | 5.15 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 15 | 5.15 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 15 | 5.15 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 15 | 5.15 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 15 | 5.15 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 4 | 5.15 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 4 | 5.15 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 20 | 5.15 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 20 | 5.15 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 20 | 5.15 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 20 | 5.15 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 16 | 5.15 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 16 | 5.15 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 1 | 5.15 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 1 | 5.15 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 1 | 5.15 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 1 | 5.15 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 2 | 5.15 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 2 | 5.15 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 4 | 5.15 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 4 | 5.15 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 4 | 5.15 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 4 | 5.15 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 5 | 5.15 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 5 | 5.15 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 16 | 5.15 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 16 | 5.15 |
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 16 | 5.15 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 11 | 5.15 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 11 | 5.15 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 11 | 5.15 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 14 | 5.15 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 14 | 5.15 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 14 | 5.15 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 8 | 5.15 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 18 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 18 | 5.15 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 18 | 5.15 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 18 | 5.15 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 18 | 5.15 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 18 | 5.15 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 10 | 5.15 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 9 | 5.15 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 14 | 5.15 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 2 | 5.15 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 2 | 5.15 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 9 | 5.15 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 9 | 5.15 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 9 | 5.15 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 3 | 5.15 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 4 | 5.15 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 4 | 5.15 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 4 | 5.15 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 10 | 5.15 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 3 | 5.15 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 2 | 5.15 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 2 | 5.15 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 14 | 5.15 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 14 | 5.15 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 14 | 5.15 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 14 | 5.15 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 7 | 5.15 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 6 | 5.15 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 15 | 5.15 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 15 | 5.15 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 15 | 5.15 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 15 | 5.15 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 3 | 5.15 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 6 | 5.15 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 9 | 5.15 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 13 | 5.15 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 13 | 5.15 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 13 | 5.15 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 13 | 5.15 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 18 | 5.15 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 18 | 5.15 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 18 | 5.15 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 12 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 9 | 5.15 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 9 | 5.15 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 9 | 5.15 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 9 | 5.15 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 9 | 5.15 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 9 | 5.15 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 9 | 5.15 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 9 | 5.15 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 9 | 5.15 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 15 | 5.15 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 18 | 5.15 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 18 | 5.15 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 18 | 5.15 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 11 | 5.15 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 11 | 5.15 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 15 | 5.15 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 15 | 5.15 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 15 | 5.15 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 5 | 5.15 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 20 | 5.15 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 20 | 5.15 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 20 | 5.15 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 20 | 5.15 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 20 | 5.15 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 20 | 5.15 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 6 | 5.15 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 19 | 5.15 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 2 | 5.15 |
| (1,7445) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 2 | 5.15 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 18 | 5.15 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 1 | 5.15 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 8 | 5.15 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 8 | 5.15 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 2 | 5.15 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 2 | 5.15 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 17 | 5.15 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 3 | 5.15 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 8 | 5.15 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 8 | 5.15 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 8 | 5.15 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 8 | 5.15 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 8 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 8 | 5.15 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 18 | 5.15 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 18 | 5.15 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 18 | 5.15 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 18 | 5.15 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 18 | 5.15 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 18 | 5.15 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 11 | 5.15 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 11 | 5.15 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 19 | 5.15 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 19 | 5.15 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 19 | 5.15 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 19 | 5.15 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 19 | 5.15 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 3 | 5.15 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 3 | 5.15 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 16 | 5.15 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 7 | 5.15 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 18 | 5.15 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 18 | 5.15 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 18 | 5.15 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 1 | 5.15 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 1 | 5.15 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 19 | 5.15 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 19 | 5.15 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 19 | 5.15 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 15 | 5.15 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 14 | 5.15 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 14 | 5.15 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 14 | 5.15 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 1 | 5.15 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 1 | 5.15 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 1 | 5.15 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 19 | 5.15 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 19 | 5.15 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 19 | 5.15 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 10 | 5.15 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 5 | 5.15 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 8 | 5.15 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 7 | 5.15 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 12 | 5.15 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 12 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 12 | 5.15 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 12 | 5.15 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 12 | 5.15 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 12 | 5.15 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 12 | 5.15 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 12 | 5.15 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 12 | 5.15 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 19 | 5.15 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 19 | 5.15 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 19 | 5.15 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 20 | 5.15 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 19 | 5.15 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 19 | 5.15 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 19 | 5.15 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 10 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 1 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 1 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 2 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 2 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 5 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 5 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 6 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 6 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 7 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 7 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 8 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 8 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 10 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 10 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 11 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 11 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 12 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 12 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 13 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 13 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 14 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 14 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 15 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 15 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 17 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 17 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 18 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 18 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 19 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 19 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 20 | 5.15 |
| (1,5936) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 20 | 5.15 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 11 | 5.15 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 11 | 5.15 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 13 | 5.15 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 10 | 5.15 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 5 | 5.15 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 9 | 5.15 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 9 | 5.15 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 9 | 5.15 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 1 | 5.15 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 1 | 5.15 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 1 | 5.15 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 1 | 5.15 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 1 | 5.15 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 1 | 5.15 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 4 | 5.15 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 3 | 5.15 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 5 | 5.15 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 1 | 5.15 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 8 | 5.15 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 17 | 5.15 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 16 | 5.15 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 20 | 5.15 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 20 | 5.15 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 20 | 5.15 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 14 | 5.15 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 14 | 5.15 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 14 | 5.15 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 2 | 5.15 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 7 | 5.15 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 7 | 5.15 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 3 | 5.15 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 3 | 5.15 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 3 | 5.15 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 1 | 5.15 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 1 | 5.15 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 15 | 5.15 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 15 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 15 | 5.15 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 15 | 5.15 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 15 | 5.15 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 15 | 5.15 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 15 | 5.15 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 15 | 5.15 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 15 | 5.15 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 15 | 5.15 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 14 | 5.15 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 14 | 5.15 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 14 | 5.15 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 14 | 5.15 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 14 | 5.15 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 14 | 5.15 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 5 | 5.15 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 5 | 5.15 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 5 | 5.15 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 5 | 5.15 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 18 | 5.15 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 3 | 5.15 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 3 | 5.15 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 3 | 5.15 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 3 | 5.15 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 2 | 5.15 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 2 | 5.15 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 2 | 5.15 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 18 | 5.15 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 18 | 5.15 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 3 | 5.15 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 3 | 5.15 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 8 | 5.15 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 8 | 5.15 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 10 | 5.15 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 10 | 5.15 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 10 | 5.15 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 11 | 5.15 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 20 | 5.15 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 20 | 5.15 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 20 | 5.15 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 20 | 5.15 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 11 | 5.15 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 11 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 11 | 5.15 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 11 | 5.15 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 2 | 5.15 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 1 | 5.15 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 1 | 5.15 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 16 | 5.15 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 17 | 5.15 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 7 | 5.15 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 2 | 5.15 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 8 | 5.15 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 3 | 5.15 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 8 | 5.15 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 8 | 5.15 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 8 | 5.15 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 8 | 5.15 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 8 | 5.15 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 8 | 5.15 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 18 | 5.15 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 18 | 5.15 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 18 | 5.15 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 18 | 5.15 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 18 | 5.15 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 18 | 5.15 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 11 | 5.15 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 11 | 5.15 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 19 | 5.15 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 19 | 5.15 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 19 | 5.15 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 19 | 5.15 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 19 | 5.15 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 3 | 5.15 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 3 | 5.15 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 16 | 5.15 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 19 | 5.15 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 19 | 5.15 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 19 | 5.15 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 7 | 5.15 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 18 | 5.15 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 18 | 5.15 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 18 | 5.15 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 1 | 5.15 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 1 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 19 | 5.15 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 19 | 5.15 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 19 | 5.15 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 15 | 5.15 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 14 | 5.15 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 14 | 5.15 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 14 | 5.15 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 1 | 5.15 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 1 | 5.15 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 1 | 5.15 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 8 | 5.15 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 19 | 5.15 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 19 | 5.15 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 19 | 5.15 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 10 | 5.15 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 5 | 5.15 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 14 | 5.15 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 8 | 5.15 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 14 | 5.15 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 19 | 5.15 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 5.15 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 7 | 5.15 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 12 | 5.15 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 12 | 5.15 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 12 | 5.15 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 12 | 5.15 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 12 | 5.15 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 12 | 5.15 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 12 | 5.15 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 12 | 5.15 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 12 | 5.15 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 19 | 5.15 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 19 | 5.15 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 19 | 5.15 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 8 | 5.15 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 8 | 5.15 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 8 | 5.15 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 12 | 5.15 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 12 | 5.15 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 12 | 5.15 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 19 | 5.15 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 19 | 5.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 19 | 5.15 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 19 | 5.15 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 19 | 5.15 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 19 | 5.15 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 15 | 5.15 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 15 | 5.15 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 15 | 5.15 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 10 | 5.15 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 11 | 5.15 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 11 | 5.15 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 13 | 5.15 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 3 | 5.15 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 10 | 5.15 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 18 | 5.15 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 2 | 5.15 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 2 | 5.15 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 2 | 5.15 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 5 | 5.15 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 9 | 5.15 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 9 | 5.15 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 9 | 5.15 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 1 | 5.15 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 1 | 5.15 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 1 | 5.15 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 7 | 5.15 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 11 | 5.15 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 11 | 5.15 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 11 | 5.15 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 9 | 5.15 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 2 | 5.14 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 14 | 5.14 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 2 | 5.14 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 1 | 5.14 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 8 | 5.14 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 8 | 5.14 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 3 | 5.14 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 3 | 5.14 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 10 | 5.14 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 10 | 5.14 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 6 | 5.14 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 6 | 5.14 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 6 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 6 | 5.14 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 7 | 5.14 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 7 | 5.14 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 14 | 5.14 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 14 | 5.14 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 11 | 5.14 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 11 | 5.14 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 9 | 5.14 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 9 | 5.14 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 9 | 5.14 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 9 | 5.14 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 9 | 5.14 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 9 | 5.14 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 12 | 5.14 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 12 | 5.14 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 17 | 5.14 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 17 | 5.14 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 13 | 5.14 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 13 | 5.14 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 19 | 5.14 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 19 | 5.14 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 19 | 5.14 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 19 | 5.14 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 19 | 5.14 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 19 | 5.14 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 19 | 5.14 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 19 | 5.14 |
| (1,9133) | 1:89:A:ILE:HG12 | 1:91:A:GLY:H | 19 | 5.14 |
| (1,9133) | 1:89:A:ILE:HG13 | 1:91:A:GLY:H | 19 | 5.14 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 4 | 5.14 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 4 | 5.14 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 19 | 5.14 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 19 | 5.14 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 19 | 5.14 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 19 | 5.14 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 19 | 5.14 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 19 | 5.14 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 13 | 5.14 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 13 | 5.14 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 13 | 5.14 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 13 | 5.14 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 13 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 13 | 5.14 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 6 | 5.14 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 6 | 5.14 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 10 | 5.14 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 10 | 5.14 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 12 | 5.14 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 12 | 5.14 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 17 | 5.14 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 17 | 5.14 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 9 | 5.14 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 9 | 5.14 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 9 | 5.14 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 9 | 5.14 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 19 | 5.14 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 19 | 5.14 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 19 | 5.14 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 19 | 5.14 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 14 | 5.14 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 14 | 5.14 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 14 | 5.14 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 14 | 5.14 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 18 | 5.14 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 18 | 5.14 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 18 | 5.14 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 18 | 5.14 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 15 | 5.14 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 15 | 5.14 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 3 | 5.14 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 3 | 5.14 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 15 | 5.14 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 6 | 5.14 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 6 | 5.14 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 6 | 5.14 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 17 | 5.14 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 17 | 5.14 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 12 | 5.14 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 10 | 5.14 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 10 | 5.14 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 16 | 5.14 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 9 | 5.14 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 9 | 5.14 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 20 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 20 | 5.14 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 10 | 5.14 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 10 | 5.14 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 10 | 5.14 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 14 | 5.14 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 14 | 5.14 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 14 | 5.14 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 14 | 5.14 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 19 | 5.14 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 19 | 5.14 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 1 | 5.14 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 1 | 5.14 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 1 | 5.14 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 4 | 5.14 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 4 | 5.14 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 4 | 5.14 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 12 | 5.14 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 12 | 5.14 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 12 | 5.14 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 11 | 5.14 |
| (1,8018) | 1:85:A:ALA:H | 1:88:A:LEU:H | 18 | 5.14 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 2 | 5.14 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 2 | 5.14 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 12 | 5.14 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 12 | 5.14 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 17 | 5.14 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 3 | 5.14 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 3 | 5.14 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 3 | 5.14 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 3 | 5.14 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 3 | 5.14 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 3 | 5.14 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 3 | 5.14 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 3 | 5.14 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 3 | 5.14 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 2 | 5.14 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 2 | 5.14 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 2 | 5.14 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 8 | 5.14 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 8 | 5.14 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 7 | 5.14 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 7 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 7 | 5.14 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 3 | 5.14 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 8 | 5.14 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 2 | 5.14 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 2 | 5.14 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 2 | 5.14 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 11 | 5.14 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 3 | 5.14 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 3 | 5.14 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 3 | 5.14 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 18 | 5.14 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 18 | 5.14 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 18 | 5.14 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 18 | 5.14 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 11 | 5.14 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 11 | 5.14 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 11 | 5.14 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 15 | 5.14 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 15 | 5.14 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 15 | 5.14 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 18 | 5.14 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 2 | 5.14 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 2 | 5.14 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 2 | 5.14 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 2 | 5.14 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 1 | 5.14 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 16 | 5.14 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 12 | 5.14 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 12 | 5.14 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 12 | 5.14 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 13 | 5.14 |
| (1,7119) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 12 | 5.14 |
| (1,7119) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 12 | 5.14 |
| (1,7119) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 12 | 5.14 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 14 | 5.14 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 14 | 5.14 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 15 | 5.14 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 15 | 5.14 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 11 | 5.14 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 14 | 5.14 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 13 | 5.14 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 13 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 13 | 5.14 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 7 | 5.14 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 14 | 5.14 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 12 | 5.14 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 8 | 5.14 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 2 | 5.14 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 7 | 5.14 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 1 | 5.14 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 1 | 5.14 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 1 | 5.14 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 18 | 5.14 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 14 | 5.14 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 14 | 5.14 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 14 | 5.14 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 19 | 5.14 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 19 | 5.14 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 19 | 5.14 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 20 | 5.14 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 20 | 5.14 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 20 | 5.14 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 20 | 5.14 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 20 | 5.14 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 20 | 5.14 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 20 | 5.14 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 20 | 5.14 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 20 | 5.14 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 7 | 5.14 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 7 | 5.14 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 7 | 5.14 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 20 | 5.14 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 20 | 5.14 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 20 | 5.14 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 13 | 5.14 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 13 | 5.14 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 13 | 5.14 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 13 | 5.14 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 18 | 5.14 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 9 | 5.14 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 12 | 5.14 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 7 | 5.14 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 18 | 5.14 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 18 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 18 | 5.14 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 5 | 5.14 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 5 | 5.14 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 5 | 5.14 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 3 | 5.14 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 18 | 5.14 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 19 | 5.14 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 12 | 5.14 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 9 | 5.14 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 20 | 5.14 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 20 | 5.14 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 20 | 5.14 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 20 | 5.14 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 20 | 5.14 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 20 | 5.14 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 20 | 5.14 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 20 | 5.14 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 20 | 5.14 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 6 | 5.14 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 16 | 5.14 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 16 | 5.14 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 16 | 5.14 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 16 | 5.14 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 16 | 5.14 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 16 | 5.14 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 16 | 5.14 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 16 | 5.14 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 16 | 5.14 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 17 | 5.14 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 18 | 5.14 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 18 | 5.14 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 14 | 5.14 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 14 | 5.14 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 14 | 5.14 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 2 | 5.14 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 2 | 5.14 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 2 | 5.14 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 12 | 5.14 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 12 | 5.14 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 12 | 5.14 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 15 | 5.14 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 15 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 15 | 5.14 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 6 | 5.14 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 8 | 5.14 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 3 | 5.14 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 3 | 5.14 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 2 | 5.14 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 10 | 5.14 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 10 | 5.14 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 4 | 5.14 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 5 | 5.14 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 6 | 5.14 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 6 | 5.14 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 15 | 5.14 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 6 | 5.14 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 9 | 5.14 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 13 | 5.14 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 13 | 5.14 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 3 | 5.14 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 3 | 5.14 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 19 | 5.14 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 18 | 5.14 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 15 | 5.14 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 15 | 5.14 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 15 | 5.14 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 5 | 5.14 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 5 | 5.14 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 5 | 5.14 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 13 | 5.14 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 13 | 5.14 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 13 | 5.14 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 13 | 5.14 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 13 | 5.14 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 13 | 5.14 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 6 | 5.14 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 6 | 5.14 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 8 | 5.14 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 16 | 5.14 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 12 | 5.14 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 15 | 5.14 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 10 | 5.14 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 10 | 5.14 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 10 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 10 | 5.14 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 19 | 5.14 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 19 | 5.14 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 19 | 5.14 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 19 | 5.14 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 19 | 5.14 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 19 | 5.14 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 19 | 5.14 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 15 | 5.14 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 15 | 5.14 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 14 | 5.14 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 1 | 5.14 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 16 | 5.14 |
| (1,3338) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 4 | 5.14 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 11 | 5.14 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 12 | 5.14 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 12 | 5.14 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 12 | 5.14 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 13 | 5.14 |
| (1,3210) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 12 | 5.14 |
| (1,3210) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 12 | 5.14 |
| (1,3210) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 12 | 5.14 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 14 | 5.14 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 14 | 5.14 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 15 | 5.14 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 15 | 5.14 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 11 | 5.14 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 14 | 5.14 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 13 | 5.14 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 13 | 5.14 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 13 | 5.14 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 7 | 5.14 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 19 | 5.14 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 19 | 5.14 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 11 | 5.14 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 11 | 5.14 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 11 | 5.14 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 11 | 5.14 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 11 | 5.14 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 11 | 5.14 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 6 | 5.14 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 6 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 14 | 5.14 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 12 | 5.14 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 7 | 5.14 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 5.14 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 7 | 5.14 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 8 | 5.14 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 2 | 5.14 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 7 | 5.14 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 1 | 5.14 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 1 | 5.14 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 1 | 5.14 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 18 | 5.14 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 14 | 5.14 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 14 | 5.14 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 14 | 5.14 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 1 | 5.14 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 19 | 5.14 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 19 | 5.14 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 19 | 5.14 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 20 | 5.14 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 20 | 5.14 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 20 | 5.14 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 20 | 5.14 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 20 | 5.14 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 20 | 5.14 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 20 | 5.14 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 20 | 5.14 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 20 | 5.14 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 7 | 5.14 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 7 | 5.14 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 7 | 5.14 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 20 | 5.14 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 20 | 5.14 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 20 | 5.14 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 13 | 5.14 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 13 | 5.14 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 13 | 5.14 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 13 | 5.14 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 18 | 5.14 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 18 | 5.14 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 18 | 5.14 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 10 | 5.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 10 | 5.14 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 18 | 5.14 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 9 | 5.14 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 12 | 5.14 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 7 | 5.14 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 18 | 5.14 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 18 | 5.14 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 18 | 5.14 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 5 | 5.14 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 5 | 5.14 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 5 | 5.14 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 3 | 5.14 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 18 | 5.14 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 7 | 5.14 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 19 | 5.14 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 12 | 5.14 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 15 | 5.14 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 15 | 5.14 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 15 | 5.14 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 10 | 5.14 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 18 | 5.14 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 4 | 5.13 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 8 | 5.13 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 8 | 5.13 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 7 | 5.13 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 5 | 5.13 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 5 | 5.13 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 2 | 5.13 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 2 | 5.13 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 11 | 5.13 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 11 | 5.13 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 11 | 5.13 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 11 | 5.13 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 9 | 5.13 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 9 | 5.13 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 15 | 5.13 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 15 | 5.13 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 8 | 5.13 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 8 | 5.13 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 5 | 5.13 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 5 | 5.13 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 5 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 5 | 5.13 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 10 | 5.13 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 10 | 5.13 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 3 | 5.13 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 3 | 5.13 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 3 | 5.13 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 3 | 5.13 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 3 | 5.13 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 3 | 5.13 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 19 | 5.13 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 19 | 5.13 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 19 | 5.13 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 19 | 5.13 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 19 | 5.13 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 19 | 5.13 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 17 | 5.13 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 17 | 5.13 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 17 | 5.13 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 17 | 5.13 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 9 | 5.13 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 9 | 5.13 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 8 | 5.13 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 8 | 5.13 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 10 | 5.13 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 10 | 5.13 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 10 | 5.13 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 10 | 5.13 |
| (1,9187) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 19 | 5.13 |
| (1,9187) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 19 | 5.13 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 10 | 5.13 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 10 | 5.13 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 10 | 5.13 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 10 | 5.13 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 10 | 5.13 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 10 | 5.13 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 14 | 5.13 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 14 | 5.13 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 14 | 5.13 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 14 | 5.13 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 14 | 5.13 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 14 | 5.13 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 12 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 12 | 5.13 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 12 | 5.13 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 12 | 5.13 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 17 | 5.13 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 17 | 5.13 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB2 | 7 | 5.13 |
| (1,8929) | 1:70:A:PRO:HB2 | 1:77:A:LYS:HB3 | 7 | 5.13 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 10 | 5.13 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 10 | 5.13 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 15 | 5.13 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 15 | 5.13 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 13 | 5.13 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 13 | 5.13 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 7 | 5.13 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 7 | 5.13 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 1 | 5.13 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 1 | 5.13 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 3 | 5.13 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 3 | 5.13 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 10 | 5.13 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 10 | 5.13 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 10 | 5.13 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 12 | 5.13 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 17 | 5.13 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 17 | 5.13 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 17 | 5.13 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 14 | 5.13 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 14 | 5.13 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 14 | 5.13 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 8 | 5.13 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 8 | 5.13 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 19 | 5.13 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 19 | 5.13 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 18 | 5.13 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 17 | 5.13 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 17 | 5.13 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 3 | 5.13 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 3 | 5.13 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 3 | 5.13 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 7 | 5.13 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 2 | 5.13 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 2 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 2 | 5.13 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 2 | 5.13 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 16 | 5.13 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 14 | 5.13 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 5 | 5.13 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 19 | 5.13 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 19 | 5.13 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 19 | 5.13 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 8 | 5.13 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 8 | 5.13 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 8 | 5.13 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 1 | 5.13 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 1 | 5.13 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 1 | 5.13 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 5 | 5.13 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 5 | 5.13 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 5 | 5.13 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 9 | 5.13 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 7 | 5.13 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 7 | 5.13 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 7 | 5.13 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 2 | 5.13 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 2 | 5.13 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 2 | 5.13 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 9 | 5.13 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 9 | 5.13 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 9 | 5.13 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 11 | 5.13 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 11 | 5.13 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 11 | 5.13 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 11 | 5.13 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 11 | 5.13 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 11 | 5.13 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 11 | 5.13 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 11 | 5.13 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 11 | 5.13 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 11 | 5.13 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 11 | 5.13 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 11 | 5.13 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 16 | 5.13 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 16 | 5.13 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 16 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 7 | 5.13 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 7 | 5.13 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 7 | 5.13 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 3 | 5.13 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 12 | 5.13 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 20 | 5.13 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 18 | 5.13 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 19 | 5.13 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 4 | 5.13 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 4 | 5.13 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 17 | 5.13 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 17 | 5.13 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 11 | 5.13 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 11 | 5.13 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 11 | 5.13 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 17 | 5.13 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 17 | 5.13 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 17 | 5.13 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 19 | 5.13 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 14 | 5.13 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 14 | 5.13 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 14 | 5.13 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 14 | 5.13 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 14 | 5.13 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 14 | 5.13 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 7 | 5.13 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 7 | 5.13 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 17 | 5.13 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 17 | 5.13 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 17 | 5.13 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 19 | 5.13 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 13 | 5.13 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 13 | 5.13 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 4 | 5.13 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 4 | 5.13 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 4 | 5.13 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 13 | 5.13 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 8 | 5.13 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 8 | 5.13 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 17 | 5.13 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 8 | 5.13 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 8 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 8 | 5.13 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 20 | 5.13 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 20 | 5.13 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 20 | 5.13 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 3 | 5.13 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 20 | 5.13 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 20 | 5.13 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 12 | 5.13 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 12 | 5.13 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 1 | 5.13 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 1 | 5.13 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 1 | 5.13 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 1 | 5.13 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 1 | 5.13 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 1 | 5.13 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 1 | 5.13 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 1 | 5.13 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 1 | 5.13 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 2 | 5.13 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 4 | 5.13 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 4 | 5.13 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 4 | 5.13 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 16 | 5.13 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 1 | 5.13 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 19 | 5.13 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 19 | 5.13 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 19 | 5.13 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 5 | 5.13 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 5 | 5.13 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 5 | 5.13 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 1 | 5.13 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 1 | 5.13 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 1 | 5.13 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 2 | 5.13 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 2 | 5.13 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 2 | 5.13 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 2 | 5.13 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 2 | 5.13 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 2 | 5.13 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 18 | 5.13 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 18 | 5.13 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 18 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 18 | 5.13 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 18 | 5.13 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 18 | 5.13 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 18 | 5.13 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 18 | 5.13 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 18 | 5.13 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 4 | 5.13 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 20 | 5.13 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 20 | 5.13 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 20 | 5.13 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 9 | 5.13 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 9 | 5.13 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 9 | 5.13 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 7 | 5.13 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 7 | 5.13 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 7 | 5.13 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 9 | 5.13 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 18 | 5.13 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 17 | 5.13 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 17 | 5.13 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 17 | 5.13 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 17 | 5.13 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 17 | 5.13 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 17 | 5.13 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 15 | 5.13 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 15 | 5.13 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 15 | 5.13 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 12 | 5.13 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 4 | 5.13 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 2 | 5.13 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 2 | 5.13 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 2 | 5.13 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 11 | 5.13 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 13 | 5.13 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 14 | 5.13 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 14 | 5.13 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 3 | 5.13 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 3 | 5.13 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 3 | 5.13 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 1 | 5.13 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 1 | 5.13 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 1 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 1 | 5.13 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 1 | 5.13 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 1 | 5.13 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 6 | 5.13 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 6 | 5.13 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 6 | 5.13 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 19 | 5.13 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 5 | 5.13 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 18 | 5.13 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 10 | 5.13 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 1 | 5.13 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 1 | 5.13 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 1 | 5.13 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 10 | 5.13 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 10 | 5.13 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 10 | 5.13 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 9 | 5.13 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 9 | 5.13 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 9 | 5.13 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 18 | 5.13 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 18 | 5.13 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 18 | 5.13 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 8 | 5.13 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 15 | 5.13 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 15 | 5.13 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 15 | 5.13 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 15 | 5.13 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 18 | 5.13 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 5 | 5.13 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 5 | 5.13 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 2 | 5.13 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 2 | 5.13 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 13 | 5.13 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 11 | 5.13 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 11 | 5.13 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 8 | 5.13 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 11 | 5.13 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 11 | 5.13 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 8 | 5.13 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 8 | 5.13 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 19 | 5.13 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 5 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 5 | 5.13 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 5 | 5.13 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 5 | 5.13 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 19 | 5.13 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 19 | 5.13 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 19 | 5.13 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 19 | 5.13 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 19 | 5.13 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 19 | 5.13 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 9 | 5.13 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 9 | 5.13 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 4 | 5.13 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 9 | 5.13 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 9 | 5.13 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 11 | 5.13 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 19 | 5.13 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 19 | 5.13 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 10 | 5.13 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 10 | 5.13 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 10 | 5.13 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 10 | 5.13 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 10 | 5.13 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 10 | 5.13 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 10 | 5.13 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 10 | 5.13 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 10 | 5.13 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 10 | 5.13 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 1 | 5.13 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 1 | 5.13 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 3 | 5.13 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 3 | 5.13 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 3 | 5.13 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 14 | 5.13 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 14 | 5.13 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 14 | 5.13 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 14 | 5.13 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 14 | 5.13 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 14 | 5.13 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 10 | 5.13 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 10 | 5.13 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 10 | 5.13 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 10 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 10 | 5.13 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 10 | 5.13 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 17 | 5.13 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 17 | 5.13 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 12 | 5.13 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 12 | 5.13 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 19 | 5.13 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 3 | 5.13 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 9 | 5.13 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 10 | 5.13 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 10 | 5.13 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 11 | 5.13 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 4 | 5.13 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 16 | 5.13 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 16 | 5.13 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 8 | 5.13 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 8 | 5.13 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 1 | 5.13 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 1 | 5.13 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 4 | 5.13 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 18 | 5.13 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 17 | 5.13 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 19 | 5.13 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 9 | 5.13 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 8 | 5.13 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 8 | 5.13 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 8 | 5.13 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 20 | 5.13 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 20 | 5.13 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 20 | 5.13 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 3 | 5.13 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 20 | 5.13 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 20 | 5.13 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 12 | 5.13 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 12 | 5.13 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 1 | 5.13 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 1 | 5.13 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 1 | 5.13 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 1 | 5.13 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 1 | 5.13 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 1 | 5.13 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 1 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 1 | 5.13 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 1 | 5.13 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 10 | 5.13 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 10 | 5.13 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 10 | 5.13 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 2 | 5.13 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 14 | 5.13 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 14 | 5.13 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 14 | 5.13 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 4 | 5.13 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 4 | 5.13 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 4 | 5.13 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 16 | 5.13 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 11 | 5.13 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 11 | 5.13 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 11 | 5.13 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 5.13 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 5.13 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 5.13 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 1 | 5.13 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 19 | 5.13 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 19 | 5.13 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 19 | 5.13 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 5 | 5.13 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 5 | 5.13 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 5 | 5.13 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 1 | 5.13 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 1 | 5.13 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 1 | 5.13 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 2 | 5.13 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 2 | 5.13 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 2 | 5.13 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 2 | 5.13 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 2 | 5.13 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 2 | 5.13 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 18 | 5.13 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 18 | 5.13 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 18 | 5.13 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 18 | 5.13 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 18 | 5.13 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 18 | 5.13 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 18 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 18 | 5.13 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 18 | 5.13 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 4 | 5.13 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 20 | 5.13 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 20 | 5.13 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 20 | 5.13 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 9 | 5.13 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 9 | 5.13 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 9 | 5.13 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 7 | 5.13 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 7 | 5.13 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 7 | 5.13 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 9 | 5.13 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 18 | 5.13 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 17 | 5.13 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 17 | 5.13 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 17 | 5.13 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 17 | 5.13 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 17 | 5.13 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 17 | 5.13 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 10 | 5.13 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 10 | 5.13 |
| (1,1466) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 10 | 5.13 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 15 | 5.13 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 15 | 5.13 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 15 | 5.13 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 14 | 5.13 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 12 | 5.13 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 4 | 5.13 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 2 | 5.13 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 2 | 5.13 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 2 | 5.13 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 11 | 5.13 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 13 | 5.13 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 14 | 5.13 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 14 | 5.13 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 3 | 5.13 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 3 | 5.13 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 3 | 5.13 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 1 | 5.13 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 1 | 5.13 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 1 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 1 | 5.13 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 1 | 5.13 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 1 | 5.13 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 8 | 5.13 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 8 | 5.13 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 8 | 5.13 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 5 | 5.12 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 3 | 5.12 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 3 | 5.12 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 3 | 5.12 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 3 | 5.12 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 18 | 5.12 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 18 | 5.12 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 18 | 5.12 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 18 | 5.12 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 18 | 5.12 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 18 | 5.12 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 18 | 5.12 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 18 | 5.12 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 13 | 5.12 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 13 | 5.12 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 2 | 5.12 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 2 | 5.12 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 8 | 5.12 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 8 | 5.12 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 14 | 5.12 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 14 | 5.12 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 14 | 5.12 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 14 | 5.12 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 14 | 5.12 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 14 | 5.12 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 7 | 5.12 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 7 | 5.12 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 3 | 5.12 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 3 | 5.12 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 19 | 5.12 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 19 | 5.12 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 14 | 5.12 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 14 | 5.12 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 15 | 5.12 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 15 | 5.12 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 15 | 5.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 15 | 5.12 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 15 | 5.12 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 15 | 5.12 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 2 | 5.12 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 2 | 5.12 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 2 | 5.12 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 2 | 5.12 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 2 | 5.12 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 2 | 5.12 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 6 | 5.12 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 6 | 5.12 |
| (1,8663) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 1 | 5.12 |
| (1,8663) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 1 | 5.12 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 11 | 5.12 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 11 | 5.12 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 11 | 5.12 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 11 | 5.12 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 11 | 5.12 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 11 | 5.12 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 20 | 5.12 |
| (1,8611) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 20 | 5.12 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 4 | 5.12 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 4 | 5.12 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 11 | 5.12 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 11 | 5.12 |
| (1,8513) | 1:28:A:ILE:HD11 | 1:140:A:ALA:H | 4 | 5.12 |
| (1,8513) | 1:28:A:ILE:HD12 | 1:140:A:ALA:H | 4 | 5.12 |
| (1,8513) | 1:28:A:ILE:HD13 | 1:140:A:ALA:H | 4 | 5.12 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 10 | 5.12 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 7 | 5.12 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 10 | 5.12 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 10 | 5.12 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 10 | 5.12 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 8 | 5.12 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 8 | 5.12 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 8 | 5.12 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 8 | 5.12 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 8 | 5.12 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 8 | 5.12 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 18 | 5.12 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 18 | 5.12 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 19 | 5.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 19 | 5.12 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 7 | 5.12 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 7 | 5.12 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 7 | 5.12 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 14 | 5.12 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 14 | 5.12 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 4 | 5.12 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 4 | 5.12 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 5 | 5.12 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 5 | 5.12 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 5 | 5.12 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 16 | 5.12 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 8 | 5.12 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 8 | 5.12 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 17 | 5.12 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 17 | 5.12 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 12 | 5.12 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 19 | 5.12 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 10 | 5.12 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 10 | 5.12 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 10 | 5.12 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 4 | 5.12 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 10 | 5.12 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 20 | 5.12 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 16 | 5.12 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 16 | 5.12 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 16 | 5.12 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 12 | 5.12 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 12 | 5.12 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 12 | 5.12 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 6 | 5.12 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 7 | 5.12 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 10 | 5.12 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 14 | 5.12 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 1 | 5.12 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 2 | 5.12 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 1 | 5.12 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 1 | 5.12 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 1 | 5.12 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 12 | 5.12 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 12 | 5.12 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 12 | 5.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 3 | 5.12 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 5 | 5.12 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 2 | 5.12 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 2 | 5.12 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 2 | 5.12 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 2 | 5.12 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 5 | 5.12 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 14 | 5.12 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 8 | 5.12 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 9 | 5.12 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 4 | 5.12 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 12 | 5.12 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 18 | 5.12 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 18 | 5.12 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 18 | 5.12 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 18 | 5.12 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 18 | 5.12 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 14 | 5.12 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 18 | 5.12 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 19 | 5.12 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 3 | 5.12 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 3 | 5.12 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 3 | 5.12 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 17 | 5.12 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 7 | 5.12 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 7 | 5.12 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 7 | 5.12 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 7 | 5.12 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 7 | 5.12 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 7 | 5.12 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 7 | 5.12 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 7 | 5.12 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 7 | 5.12 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 6 | 5.12 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 12 | 5.12 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 1 | 5.12 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 1 | 5.12 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 18 | 5.12 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 16 | 5.12 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 20 | 5.12 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 16 | 5.12 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 16 | 5.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 16 | 5.12 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 12 | 5.12 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 12 | 5.12 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 12 | 5.12 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 19 | 5.12 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 19 | 5.12 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 19 | 5.12 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 2 | 5.12 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 20 | 5.12 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 20 | 5.12 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 20 | 5.12 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 20 | 5.12 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 20 | 5.12 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 20 | 5.12 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 20 | 5.12 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 20 | 5.12 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 20 | 5.12 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 2 | 5.12 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 2 | 5.12 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 2 | 5.12 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 11 | 5.12 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 11 | 5.12 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 11 | 5.12 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 4 | 5.12 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 4 | 5.12 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 4 | 5.12 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 16 | 5.12 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 3 | 5.12 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 3 | 5.12 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 3 | 5.12 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 16 | 5.12 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 20 | 5.12 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 16 | 5.12 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 16 | 5.12 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 14 | 5.12 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 1 | 5.12 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 5 | 5.12 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 5 | 5.12 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 5 | 5.12 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 19 | 5.12 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 19 | 5.12 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 19 | 5.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 7 | 5.12 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 5.12 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 5.12 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 5.12 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 9 | 5.12 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 9 | 5.12 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 9 | 5.12 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 12 | 5.12 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 17 | 5.12 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 17 | 5.12 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 18 | 5.12 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 18 | 5.12 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 18 | 5.12 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 9 | 5.12 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 9 | 5.12 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 10 | 5.12 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 10 | 5.12 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 3 | 5.12 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 19 | 5.12 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 19 | 5.12 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 19 | 5.12 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 20 | 5.12 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 20 | 5.12 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 20 | 5.12 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 10 | 5.12 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 10 | 5.12 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 10 | 5.12 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 18 | 5.12 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 18 | 5.12 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 18 | 5.12 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 3 | 5.12 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 3 | 5.12 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 3 | 5.12 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 6 | 5.12 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 6 | 5.12 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 6 | 5.12 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 10 | 5.12 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 10 | 5.12 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 15 | 5.12 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 4 | 5.12 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 4 | 5.12 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 4 | 5.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 5.12 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 5.12 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 18 | 5.12 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 18 | 5.12 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 18 | 5.12 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 18 | 5.12 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 14 | 5.12 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 2 | 5.12 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 2 | 5.12 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 5 | 5.12 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 12 | 5.12 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 7 | 5.12 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 7 | 5.12 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 17 | 5.12 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 17 | 5.12 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 17 | 5.12 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 13 | 5.12 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 16 | 5.12 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 16 | 5.12 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 15 | 5.12 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 15 | 5.12 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 15 | 5.12 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 7 | 5.12 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 7 | 5.12 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 7 | 5.12 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 2 | 5.12 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 2 | 5.12 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 2 | 5.12 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 2 | 5.12 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 2 | 5.12 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 2 | 5.12 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 13 | 5.12 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 5 | 5.12 |
| (1,3638) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 1 | 5.12 |
| (1,3638) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 1 | 5.12 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 8 | 5.12 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 11 | 5.12 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 11 | 5.12 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 11 | 5.12 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 11 | 5.12 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 11 | 5.12 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 11 | 5.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 6 | 5.12 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 6 | 5.12 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 6 | 5.12 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 15 | 5.12 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 19 | 5.12 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 3 | 5.12 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 3 | 5.12 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 3 | 5.12 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 9 | 5.12 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 9 | 5.12 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 9 | 5.12 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 17 | 5.12 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 7 | 5.12 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 7 | 5.12 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 7 | 5.12 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 7 | 5.12 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 7 | 5.12 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 7 | 5.12 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 7 | 5.12 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 7 | 5.12 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 7 | 5.12 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 6 | 5.12 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 13 | 5.12 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 13 | 5.12 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 6 | 5.12 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 12 | 5.12 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 19 | 5.12 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 1 | 5.12 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 1 | 5.12 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 18 | 5.12 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 19 | 5.12 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 16 | 5.12 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 20 | 5.12 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 16 | 5.12 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 16 | 5.12 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 12 | 5.12 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 12 | 5.12 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 12 | 5.12 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 10 | 5.12 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 19 | 5.12 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 19 | 5.12 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 19 | 5.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 2 | 5.12 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 20 | 5.12 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 20 | 5.12 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 20 | 5.12 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 20 | 5.12 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 20 | 5.12 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 20 | 5.12 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 20 | 5.12 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 20 | 5.12 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 20 | 5.12 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 2 | 5.12 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 2 | 5.12 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 2 | 5.12 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 11 | 5.12 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 11 | 5.12 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 11 | 5.12 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 12 | 5.12 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 12 | 5.12 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 12 | 5.12 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 4 | 5.12 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 4 | 5.12 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 4 | 5.12 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 16 | 5.12 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 3 | 5.12 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 3 | 5.12 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 3 | 5.12 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 12 | 5.12 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 12 | 5.12 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 11 | 5.12 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 16 | 5.12 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 2 | 5.12 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 20 | 5.12 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 11 | 5.12 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 16 | 5.12 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 16 | 5.12 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 7 | 5.12 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 14 | 5.12 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 1 | 5.12 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 5 | 5.12 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 5 | 5.12 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 5 | 5.12 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 19 | 5.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 19 | 5.12 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 19 | 5.12 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 7 | 5.12 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 9 | 5.12 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 14 | 5.12 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 5.12 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 5.12 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 5.12 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 19 | 5.12 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 12 | 5.12 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 12 | 5.12 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 18 | 5.11 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 18 | 5.11 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 6 | 5.11 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 6 | 5.11 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 6 | 5.11 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 14 | 5.11 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 14 | 5.11 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 14 | 5.11 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 14 | 5.11 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 14 | 5.11 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 14 | 5.11 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 10 | 5.11 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 10 | 5.11 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 18 | 5.11 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 18 | 5.11 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 11 | 5.11 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 11 | 5.11 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 19 | 5.11 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 19 | 5.11 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 18 | 5.11 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 18 | 5.11 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 18 | 5.11 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 18 | 5.11 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 18 | 5.11 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 18 | 5.11 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 13 | 5.11 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 13 | 5.11 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 3 | 5.11 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 3 | 5.11 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 3 | 5.11 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 3 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 3 | 5.11 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 3 | 5.11 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 3 | 5.11 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 3 | 5.11 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 19 | 5.11 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 19 | 5.11 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 11 | 5.11 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 11 | 5.11 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 11 | 5.11 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 11 | 5.11 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 11 | 5.11 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 11 | 5.11 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 13 | 5.11 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 13 | 5.11 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 11 | 5.11 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 11 | 5.11 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 16 | 5.11 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 16 | 5.11 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 17 | 5.11 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 17 | 5.11 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 18 | 5.11 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 18 | 5.11 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 2 | 5.11 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 2 | 5.11 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 2 | 5.11 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 2 | 5.11 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 2 | 5.11 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 2 | 5.11 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 1 | 5.11 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 1 | 5.11 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 11 | 5.11 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 11 | 5.11 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 12 | 5.11 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 12 | 5.11 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 4 | 5.11 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 4 | 5.11 |
| (1,8614) | 1:15:A:MET:HB2 | 1:20:A:GLY:H | 8 | 5.11 |
| (1,8614) | 1:15:A:MET:HB3 | 1:20:A:GLY:H | 8 | 5.11 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 8 | 5.11 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 8 | 5.11 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 8 | 5.11 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 17 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 17 | 5.11 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 17 | 5.11 |
| (1,8459) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 15 | 5.11 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 16 | 5.11 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 16 | 5.11 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 16 | 5.11 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 1 | 5.11 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 1 | 5.11 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 1 | 5.11 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 1 | 5.11 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 7 | 5.11 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 7 | 5.11 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 7 | 5.11 |
| (1,8369) | 1:137:A:ALA:H | 1:138:A:SER:HA | 19 | 5.11 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 18 | 5.11 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 13 | 5.11 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 15 | 5.11 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 3 | 5.11 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 4 | 5.11 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 4 | 5.11 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 15 | 5.11 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 1 | 5.11 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 3 | 5.11 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 12 | 5.11 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 9 | 5.11 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 9 | 5.11 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 9 | 5.11 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 1 | 5.11 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 1 | 5.11 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 11 | 5.11 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 15 | 5.11 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 2 | 5.11 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 2 | 5.11 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 2 | 5.11 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 2 | 5.11 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 12 | 5.11 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 14 | 5.11 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 7 | 5.11 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 7 | 5.11 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 7 | 5.11 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 17 | 5.11 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 7 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 7 | 5.11 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 7 | 5.11 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 16 | 5.11 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 16 | 5.11 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 16 | 5.11 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 2 | 5.11 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 2 | 5.11 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 2 | 5.11 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 11 | 5.11 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 11 | 5.11 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 11 | 5.11 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 15 | 5.11 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 8 | 5.11 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 8 | 5.11 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 8 | 5.11 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 14 | 5.11 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 14 | 5.11 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 14 | 5.11 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 18 | 5.11 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 18 | 5.11 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 18 | 5.11 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 15 | 5.11 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 14 | 5.11 |
| (1,7598) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 13 | 5.11 |
| (1,7598) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 13 | 5.11 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 17 | 5.11 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 17 | 5.11 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 17 | 5.11 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 6 | 5.11 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 15 | 5.11 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 16 | 5.11 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 9 | 5.11 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 3 | 5.11 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 3 | 5.11 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 3 | 5.11 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 4 | 5.11 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 8 | 5.11 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 11 | 5.11 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 13 | 5.11 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 13 | 5.11 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 13 | 5.11 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 13 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 13 | 5.11 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 13 | 5.11 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 17 | 5.11 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 17 | 5.11 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 17 | 5.11 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 6 | 5.11 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 4 | 5.11 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 4 | 5.11 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 11 | 5.11 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 2 | 5.11 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 2 | 5.11 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 8 | 5.11 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 8 | 5.11 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 8 | 5.11 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 8 | 5.11 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 8 | 5.11 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 8 | 5.11 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 20 | 5.11 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 20 | 5.11 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 20 | 5.11 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 13 | 5.11 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 8 | 5.11 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 8 | 5.11 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 8 | 5.11 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 4 | 5.11 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 4 | 5.11 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 4 | 5.11 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 5 | 5.11 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 5 | 5.11 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 5 | 5.11 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 13 | 5.11 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 13 | 5.11 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 13 | 5.11 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 9 | 5.11 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 14 | 5.11 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 14 | 5.11 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 14 | 5.11 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 5 | 5.11 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 5 | 5.11 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 5 | 5.11 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 5 | 5.11 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 5 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 5 | 5.11 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 5 | 5.11 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 5 | 5.11 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 5 | 5.11 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 6 | 5.11 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 6 | 5.11 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 6 | 5.11 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 2 | 5.11 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 2 | 5.11 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 8 | 5.11 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 1 | 5.11 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 19 | 5.11 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 4 | 5.11 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 4 | 5.11 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 4 | 5.11 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 4 | 5.11 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 4 | 5.11 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 4 | 5.11 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 3 | 5.11 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 19 | 5.11 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 15 | 5.11 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 4 | 5.11 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 4 | 5.11 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 4 | 5.11 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 18 | 5.11 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 4 | 5.11 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 4 | 5.11 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 4 | 5.11 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 4 | 5.11 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 1 | 5.11 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 1 | 5.11 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 1 | 5.11 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 1 | 5.11 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 1 | 5.11 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 1 | 5.11 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 16 | 5.11 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 7 | 5.11 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 20 | 5.11 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 7 | 5.11 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 7 | 5.11 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 7 | 5.11 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 7 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 7 | 5.11 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 7 | 5.11 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 16 | 5.11 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 16 | 5.11 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 16 | 5.11 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 5 | 5.11 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 5 | 5.11 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 5 | 5.11 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 4 | 5.11 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 4 | 5.11 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 4 | 5.11 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 2 | 5.11 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 2 | 5.11 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 2 | 5.11 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 11 | 5.11 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 17 | 5.11 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 14 | 5.11 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 14 | 5.11 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 14 | 5.11 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 14 | 5.11 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 14 | 5.11 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 14 | 5.11 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 5.11 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 10 | 5.11 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 10 | 5.11 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 19 | 5.11 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 19 | 5.11 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 3 | 5.11 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 3 | 5.11 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 3 | 5.11 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 3 | 5.11 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 3 | 5.11 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 3 | 5.11 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 3 | 5.11 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 5.11 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 5.11 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 5.11 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 19 | 5.11 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 19 | 5.11 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 16 | 5.11 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 16 | 5.11 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 11 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 11 | 5.11 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 11 | 5.11 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 11 | 5.11 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 11 | 5.11 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 11 | 5.11 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 9 | 5.11 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 13 | 5.11 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 13 | 5.11 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 5.11 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 5.11 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 5.11 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 5.11 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 17 | 5.11 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 17 | 5.11 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 18 | 5.11 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 18 | 5.11 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 2 | 5.11 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 2 | 5.11 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 2 | 5.11 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 2 | 5.11 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 2 | 5.11 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 2 | 5.11 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 2 | 5.11 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 1 | 5.11 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 1 | 5.11 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 11 | 5.11 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 11 | 5.11 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 19 | 5.11 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 19 | 5.11 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 19 | 5.11 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 7 | 5.11 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 7 | 5.11 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 7 | 5.11 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 12 | 5.11 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 2 | 5.11 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 12 | 5.11 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 12 | 5.11 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 12 | 5.11 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 5.11 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 5.11 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 1 | 5.11 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 18 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 17 | 5.11 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 17 | 5.11 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 17 | 5.11 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 16 | 5.11 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 6 | 5.11 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 4 | 5.11 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 4 | 5.11 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 16 | 5.11 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 11 | 5.11 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 2 | 5.11 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 2 | 5.11 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 2 | 5.11 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 2 | 5.11 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 8 | 5.11 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 8 | 5.11 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 8 | 5.11 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 8 | 5.11 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 8 | 5.11 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 8 | 5.11 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 20 | 5.11 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 20 | 5.11 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 20 | 5.11 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 13 | 5.11 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 8 | 5.11 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 8 | 5.11 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 8 | 5.11 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 11 | 5.11 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 9 | 5.11 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 4 | 5.11 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 4 | 5.11 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 4 | 5.11 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 5 | 5.11 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 5 | 5.11 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 5 | 5.11 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 13 | 5.11 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 13 | 5.11 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 13 | 5.11 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 9 | 5.11 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 14 | 5.11 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 14 | 5.11 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 14 | 5.11 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 14 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 14 | 5.11 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 5 | 5.11 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 5 | 5.11 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 5 | 5.11 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 5 | 5.11 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 5 | 5.11 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 5 | 5.11 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 5 | 5.11 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 5 | 5.11 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 5 | 5.11 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 6 | 5.11 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 6 | 5.11 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 6 | 5.11 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 2 | 5.11 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 2 | 5.11 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 8 | 5.11 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 8 | 5.11 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 1 | 5.11 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 19 | 5.11 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 4 | 5.11 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 4 | 5.11 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 4 | 5.11 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 4 | 5.11 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 4 | 5.11 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 4 | 5.11 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 3 | 5.11 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 4 | 5.11 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 19 | 5.11 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 15 | 5.11 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 4 | 5.11 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 4 | 5.11 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 4 | 5.11 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 3 | 5.11 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 3 | 5.11 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 3 | 5.11 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 18 | 5.11 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 4 | 5.11 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 5 | 5.11 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 12 | 5.11 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 19 | 5.11 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 5.11 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 4 | 5.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 4 | 5.11 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 4 | 5.11 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 1 | 5.11 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 1 | 5.11 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 1 | 5.11 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 1 | 5.11 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 1 | 5.11 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 1 | 5.11 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 7 | 5.11 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 2 | 5.1 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 14 | 5.1 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 14 | 5.1 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 14 | 5.1 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 2 | 5.1 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 2 | 5.1 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 8 | 5.1 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 8 | 5.1 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 14 | 5.1 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 14 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 3 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 3 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 3 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 3 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 3 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 3 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 19 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 19 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 19 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 19 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 19 | 5.1 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 19 | 5.1 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 8 | 5.1 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 8 | 5.1 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 15 | 5.1 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 15 | 5.1 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 17 | 5.1 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 17 | 5.1 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 17 | 5.1 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 17 | 5.1 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 17 | 5.1 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 17 | 5.1 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 4 | 5.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 4 | 5.1 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 4 | 5.1 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 4 | 5.1 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 18 | 5.1 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 18 | 5.1 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 13 | 5.1 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 13 | 5.1 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 2 | 5.1 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 2 | 5.1 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 15 | 5.1 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 15 | 5.1 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 5 | 5.1 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 5 | 5.1 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 6 | 5.1 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 6 | 5.1 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 3 | 5.1 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 3 | 5.1 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 9 | 5.1 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 9 | 5.1 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 6 | 5.1 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 6 | 5.1 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 6 | 5.1 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 6 | 5.1 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 1 | 5.1 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 1 | 5.1 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 1 | 5.1 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 1 | 5.1 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 1 | 5.1 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 1 | 5.1 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 16 | 5.1 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 16 | 5.1 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 4 | 5.1 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 4 | 5.1 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 1 | 5.1 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 1 | 5.1 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 8 | 5.1 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 8 | 5.1 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 16 | 5.1 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 16 | 5.1 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 15 | 5.1 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 15 | 5.1 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 14 | 5.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 14 | 5.1 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 16 | 5.1 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 16 | 5.1 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 16 | 5.1 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 16 | 5.1 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 19 | 5.1 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 19 | 5.1 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 19 | 5.1 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 19 | 5.1 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 13 | 5.1 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 13 | 5.1 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 3 | 5.1 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 3 | 5.1 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 10 | 5.1 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 17 | 5.1 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 17 | 5.1 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 17 | 5.1 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 3 | 5.1 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 6 | 5.1 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 3 | 5.1 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 3 | 5.1 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 3 | 5.1 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 6 | 5.1 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 15 | 5.1 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 14 | 5.1 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 14 | 5.1 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 14 | 5.1 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 15 | 5.1 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 15 | 5.1 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 15 | 5.1 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 18 | 5.1 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 20 | 5.1 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 20 | 5.1 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 11 | 5.1 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 5 | 5.1 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 5 | 5.1 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 11 | 5.1 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG2 | 9 | 5.1 |
| (1,8142) | 1:96:A:ILE:H | 1:101:A:GLU:HG3 | 9 | 5.1 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 1 | 5.1 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 1 | 5.1 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 1 | 5.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 2 | 5.1 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 2 | 5.1 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 2 | 5.1 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 6 | 5.1 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 6 | 5.1 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 6 | 5.1 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 4 | 5.1 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 7 | 5.1 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 16 | 5.1 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 16 | 5.1 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 16 | 5.1 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 10 | 5.1 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 10 | 5.1 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 10 | 5.1 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 11 | 5.1 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 7 | 5.1 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 15 | 5.1 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 16 | 5.1 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 16 | 5.1 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 16 | 5.1 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 5 | 5.1 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 5 | 5.1 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 16 | 5.1 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 8 | 5.1 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 8 | 5.1 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 8 | 5.1 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 18 | 5.1 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 6 | 5.1 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 7 | 5.1 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 9 | 5.1 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 14 | 5.1 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 14 | 5.1 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 20 | 5.1 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 2 | 5.1 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 4 | 5.1 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 10 | 5.1 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 3 | 5.1 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 1 | 5.1 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 1 | 5.1 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 10 | 5.1 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 10 | 5.1 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 10 | 5.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 16 | 5.1 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 18 | 5.1 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 19 | 5.1 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 1 | 5.1 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 18 | 5.1 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 18 | 5.1 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 11 | 5.1 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 15 | 5.1 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 7 | 5.1 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 8 | 5.1 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 8 | 5.1 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 8 | 5.1 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 3 | 5.1 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 10 | 5.1 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 10 | 5.1 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 10 | 5.1 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 10 | 5.1 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 18 | 5.1 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 18 | 5.1 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 18 | 5.1 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 9 | 5.1 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 9 | 5.1 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 9 | 5.1 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 9 | 5.1 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 9 | 5.1 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 9 | 5.1 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 9 | 5.1 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 9 | 5.1 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 9 | 5.1 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 20 | 5.1 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 20 | 5.1 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 20 | 5.1 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 16 | 5.1 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 16 | 5.1 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 16 | 5.1 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 10 | 5.1 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 10 | 5.1 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 10 | 5.1 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 20 | 5.1 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 20 | 5.1 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 20 | 5.1 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 20 | 5.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 7 | 5.1 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 18 | 5.1 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 18 | 5.1 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 18 | 5.1 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 18 | 5.1 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 18 | 5.1 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 18 | 5.1 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 6 | 5.1 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 6 | 5.1 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 6 | 5.1 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 6 | 5.1 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 6 | 5.1 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 6 | 5.1 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 6 | 5.1 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 6 | 5.1 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 6 | 5.1 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 17 | 5.1 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 5 | 5.1 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 5 | 5.1 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 5 | 5.1 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 16 | 5.1 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 16 | 5.1 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 16 | 5.1 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 8 | 5.1 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 8 | 5.1 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 8 | 5.1 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 10 | 5.1 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 10 | 5.1 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 10 | 5.1 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 10 | 5.1 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 10 | 5.1 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 10 | 5.1 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 13 | 5.1 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 13 | 5.1 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 13 | 5.1 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 9 | 5.1 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 20 | 5.1 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 14 | 5.1 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 14 | 5.1 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 12 | 5.1 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 7 | 5.1 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 7 | 5.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 7 | 5.1 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 8 | 5.1 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 8 | 5.1 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 14 | 5.1 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 14 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 6 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 6 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 6 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 6 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 6 | 5.1 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 6 | 5.1 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 14 | 5.1 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 14 | 5.1 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 14 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 3 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 3 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 3 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 3 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 3 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 3 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 19 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 19 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 19 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 19 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 19 | 5.1 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 19 | 5.1 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 4 | 5.1 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 11 | 5.1 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 11 | 5.1 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 11 | 5.1 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 5.1 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 5.1 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 5.1 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 19 | 5.1 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 5 | 5.1 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 5 | 5.1 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 17 | 5.1 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 17 | 5.1 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 17 | 5.1 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 17 | 5.1 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 17 | 5.1 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 17 | 5.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 2 | 5.1 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 18 | 5.1 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 18 | 5.1 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 13 | 5.1 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 13 | 5.1 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 11 | 5.1 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 2 | 5.1 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 2 | 5.1 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 3 | 5.1 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 3 | 5.1 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 9 | 5.1 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 9 | 5.1 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 16 | 5.1 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 16 | 5.1 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 4 | 5.1 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 4 | 5.1 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 12 | 5.1 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 19 | 5.1 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 19 | 5.1 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 19 | 5.1 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 15 | 5.1 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 15 | 5.1 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 6 | 5.1 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 6 | 5.1 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 9 | 5.1 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 9 | 5.1 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 19 | 5.1 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 19 | 5.1 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 10 | 5.1 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 3 | 5.1 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 1 | 5.1 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 1 | 5.1 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 3 | 5.1 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 3 | 5.1 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 3 | 5.1 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 10 | 5.1 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 10 | 5.1 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 10 | 5.1 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 16 | 5.1 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 18 | 5.1 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 19 | 5.1 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 1 | 5.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 18 | 5.1 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 18 | 5.1 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 11 | 5.1 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 4 | 5.1 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 4 | 5.1 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 4 | 5.1 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 15 | 5.1 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 10 | 5.1 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 5.1 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 10 | 5.1 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 7 | 5.1 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 8 | 5.1 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 8 | 5.1 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 8 | 5.1 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 3 | 5.1 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 10 | 5.1 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 10 | 5.1 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 10 | 5.1 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 10 | 5.1 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 19 | 5.1 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 19 | 5.1 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 19 | 5.1 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 18 | 5.1 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 18 | 5.1 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 18 | 5.1 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 9 | 5.1 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 9 | 5.1 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 9 | 5.1 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 9 | 5.1 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 9 | 5.1 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 9 | 5.1 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 9 | 5.1 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 9 | 5.1 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 9 | 5.1 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 20 | 5.1 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 20 | 5.1 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 20 | 5.1 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 16 | 5.1 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 16 | 5.1 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 16 | 5.1 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 10 | 5.1 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 10 | 5.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 10 | 5.1 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 4 | 5.1 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 4 | 5.1 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 4 | 5.1 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 20 | 5.1 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 2 | 5.1 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 2 | 5.1 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 2 | 5.1 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 20 | 5.1 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 20 | 5.1 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 20 | 5.1 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 7 | 5.1 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 3 | 5.1 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 3 | 5.1 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 3 | 5.1 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 16 | 5.1 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 18 | 5.1 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 18 | 5.1 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 18 | 5.1 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 18 | 5.1 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 18 | 5.1 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 18 | 5.1 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 6 | 5.1 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 6 | 5.1 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 6 | 5.1 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 6 | 5.1 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 6 | 5.1 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 6 | 5.1 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 10 | 5.1 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 10 | 5.1 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 10 | 5.1 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 20 | 5.09 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 20 | 5.09 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 15 | 5.09 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 15 | 5.09 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 15 | 5.09 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 15 | 5.09 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 15 | 5.09 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 15 | 5.09 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 15 | 5.09 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 15 | 5.09 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 15 | 5.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 7 | 5.09 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 7 | 5.09 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 18 | 5.09 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 18 | 5.09 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 12 | 5.09 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 12 | 5.09 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 12 | 5.09 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 12 | 5.09 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 19 | 5.09 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 19 | 5.09 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 18 | 5.09 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 18 | 5.09 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 9 | 5.09 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 9 | 5.09 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 9 | 5.09 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 9 | 5.09 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 6 | 5.09 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 6 | 5.09 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 6 | 5.09 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 6 | 5.09 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 8 | 5.09 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 8 | 5.09 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 8 | 5.09 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 8 | 5.09 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 8 | 5.09 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 8 | 5.09 |
| (1,8780) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 4 | 5.09 |
| (1,8780) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 4 | 5.09 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 10 | 5.09 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 10 | 5.09 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 10 | 5.09 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 10 | 5.09 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 10 | 5.09 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 10 | 5.09 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 1 | 5.09 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 1 | 5.09 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 10 | 5.09 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 10 | 5.09 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 13 | 5.09 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 13 | 5.09 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 13 | 5.09 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 13 | 5.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 13 | 5.09 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 13 | 5.09 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 1 | 5.09 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 12 | 5.09 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 12 | 5.09 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 12 | 5.09 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 7 | 5.09 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 7 | 5.09 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 7 | 5.09 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 18 | 5.09 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 16 | 5.09 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 11 | 5.09 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 5 | 5.09 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 17 | 5.09 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 17 | 5.09 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 15 | 5.09 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 15 | 5.09 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 18 | 5.09 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 18 | 5.09 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 18 | 5.09 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 19 | 5.09 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 3 | 5.09 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 3 | 5.09 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 3 | 5.09 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 7 | 5.09 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 1 | 5.09 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 1 | 5.09 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 1 | 5.09 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 9 | 5.09 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 9 | 5.09 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 9 | 5.09 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 6 | 5.09 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 6 | 5.09 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 6 | 5.09 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 14 | 5.09 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 15 | 5.09 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 18 | 5.09 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 18 | 5.09 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 18 | 5.09 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 15 | 5.09 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 6 | 5.09 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 16 | 5.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 16 | 5.09 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 8 | 5.09 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 20 | 5.09 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 20 | 5.09 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 20 | 5.09 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 2 | 5.09 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 2 | 5.09 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 2 | 5.09 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 11 | 5.09 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 15 | 5.09 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 15 | 5.09 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 15 | 5.09 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 7 | 5.09 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 19 | 5.09 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 19 | 5.09 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 19 | 5.09 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 15 | 5.09 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 4 | 5.09 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 1 | 5.09 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 20 | 5.09 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 20 | 5.09 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 20 | 5.09 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 20 | 5.09 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 17 | 5.09 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 7 | 5.09 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 5 | 5.09 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 5 | 5.09 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 1 | 5.09 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 16 | 5.09 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 10 | 5.09 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 15 | 5.09 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 6 | 5.09 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 4 | 5.09 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 4 | 5.09 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 4 | 5.09 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 4 | 5.09 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 7 | 5.09 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 7 | 5.09 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 7 | 5.09 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 10 | 5.09 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 18 | 5.09 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 18 | 5.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 1 | 5.09 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 1 | 5.09 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 1 | 5.09 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 12 | 5.09 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 12 | 5.09 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 12 | 5.09 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 8 | 5.09 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 6 | 5.09 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 5 | 5.09 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 13 | 5.09 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 8 | 5.09 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 8 | 5.09 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 12 | 5.09 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 2 | 5.09 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 16 | 5.09 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 16 | 5.09 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 16 | 5.09 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 11 | 5.09 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 11 | 5.09 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 15 | 5.09 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 17 | 5.09 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 2 | 5.09 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 9 | 5.09 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 9 | 5.09 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 9 | 5.09 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 10 | 5.09 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 10 | 5.09 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 10 | 5.09 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 10 | 5.09 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 2 | 5.09 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 2 | 5.09 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 2 | 5.09 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 18 | 5.09 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 18 | 5.09 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 18 | 5.09 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 6 | 5.09 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 12 | 5.09 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 4 | 5.09 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 4 | 5.09 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 4 | 5.09 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 4 | 5.09 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 4 | 5.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 4 | 5.09 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 15 | 5.09 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 15 | 5.09 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 15 | 5.09 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 15 | 5.09 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 15 | 5.09 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 15 | 5.09 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 13 | 5.09 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 13 | 5.09 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 13 | 5.09 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 13 | 5.09 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 13 | 5.09 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 13 | 5.09 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 19 | 5.09 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 19 | 5.09 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 19 | 5.09 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 8 | 5.09 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 8 | 5.09 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 8 | 5.09 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 15 | 5.09 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 15 | 5.09 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 15 | 5.09 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 8 | 5.09 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 16 | 5.09 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 15 | 5.09 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 4 | 5.09 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 4 | 5.09 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 4 | 5.09 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 3 | 5.09 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 15 | 5.09 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 17 | 5.09 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 17 | 5.09 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 17 | 5.09 |
| (1,4870) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 19 | 5.09 |
| (1,4870) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 19 | 5.09 |
| (1,4870) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 19 | 5.09 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 19 | 5.09 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 19 | 5.09 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 19 | 5.09 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 19 | 5.09 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 1 | 5.09 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 18 | 5.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 18 | 5.09 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 18 | 5.09 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 11 | 5.09 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 11 | 5.09 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 11 | 5.09 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 11 | 5.09 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 11 | 5.09 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 11 | 5.09 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 5 | 5.09 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 15 | 5.09 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 15 | 5.09 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 4 | 5.09 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 4 | 5.09 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 4 | 5.09 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 4 | 5.09 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 4 | 5.09 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 5.09 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 5.09 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 9 | 5.09 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 10 | 5.09 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 16 | 5.09 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 10 | 5.09 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 4 | 5.09 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 7 | 5.09 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 7 | 5.09 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 18 | 5.09 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 18 | 5.09 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 19 | 5.09 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 19 | 5.09 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 19 | 5.09 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 4 | 5.09 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 4 | 5.09 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 4 | 5.09 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 8 | 5.09 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 8 | 5.09 |
| (1,3862) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 18 | 5.09 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 9 | 5.09 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 9 | 5.09 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 3 | 5.09 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 8 | 5.09 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 8 | 5.09 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 8 | 5.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 8 | 5.09 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 8 | 5.09 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 8 | 5.09 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 6 | 5.09 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 9 | 5.09 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 5 | 5.09 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 10 | 5.09 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 10 | 5.09 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 13 | 5.09 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 13 | 5.09 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 13 | 5.09 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 13 | 5.09 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 13 | 5.09 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 13 | 5.09 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 13 | 5.09 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 5 | 5.09 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 7 | 5.09 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 7 | 5.09 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 18 | 5.09 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 18 | 5.09 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 1 | 5.09 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 1 | 5.09 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 1 | 5.09 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 12 | 5.09 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 12 | 5.09 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 12 | 5.09 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 8 | 5.09 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 6 | 5.09 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 5 | 5.09 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 13 | 5.09 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 8 | 5.09 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 8 | 5.09 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 12 | 5.09 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 2 | 5.09 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 16 | 5.09 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 16 | 5.09 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 16 | 5.09 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 11 | 5.09 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 3 | 5.09 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 4 | 5.09 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 3 | 5.09 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 3 | 5.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 3 | 5.09 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 11 | 5.09 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 15 | 5.09 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 17 | 5.09 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 6 | 5.09 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 11 | 5.09 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 2 | 5.09 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 9 | 5.09 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 9 | 5.09 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 9 | 5.09 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 7 | 5.09 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 10 | 5.09 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 10 | 5.09 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 10 | 5.09 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 10 | 5.09 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 2 | 5.09 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 2 | 5.09 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 2 | 5.09 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 18 | 5.09 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 18 | 5.09 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 18 | 5.09 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 6 | 5.09 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 12 | 5.09 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 4 | 5.09 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 4 | 5.09 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 4 | 5.09 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 4 | 5.09 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 4 | 5.09 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 4 | 5.09 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 15 | 5.09 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 15 | 5.09 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 15 | 5.09 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 15 | 5.09 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 15 | 5.09 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 15 | 5.09 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 13 | 5.09 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 13 | 5.09 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 13 | 5.09 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 13 | 5.09 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 13 | 5.09 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 13 | 5.09 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 4 | 5.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 19 | 5.08 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 19 | 5.08 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 19 | 5.08 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 18 | 5.08 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 18 | 5.08 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 1 | 5.08 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 1 | 5.08 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 1 | 5.08 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 1 | 5.08 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 6 | 5.08 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 6 | 5.08 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 6 | 5.08 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 6 | 5.08 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 6 | 5.08 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 6 | 5.08 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 14 | 5.08 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 14 | 5.08 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 14 | 5.08 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 14 | 5.08 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 3 | 5.08 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 3 | 5.08 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 3 | 5.08 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 3 | 5.08 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 3 | 5.08 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 3 | 5.08 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 19 | 5.08 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 19 | 5.08 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 10 | 5.08 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 10 | 5.08 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 6 | 5.08 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 6 | 5.08 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 6 | 5.08 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 6 | 5.08 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 17 | 5.08 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 17 | 5.08 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 19 | 5.08 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 19 | 5.08 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 18 | 5.08 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 18 | 5.08 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 2 | 5.08 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 2 | 5.08 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 5.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 5.08 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 5.08 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 5.08 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 5.08 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 5.08 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 14 | 5.08 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 14 | 5.08 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 14 | 5.08 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 14 | 5.08 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 14 | 5.08 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 14 | 5.08 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 8 | 5.08 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 8 | 5.08 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 8 | 5.08 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 8 | 5.08 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 13 | 5.08 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 13 | 5.08 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 13 | 5.08 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 13 | 5.08 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 20 | 5.08 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 20 | 5.08 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 10 | 5.08 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 10 | 5.08 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 2 | 5.08 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 2 | 5.08 |
| (1,8475) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 2 | 5.08 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 19 | 5.08 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 19 | 5.08 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 19 | 5.08 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 15 | 5.08 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 12 | 5.08 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 14 | 5.08 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 14 | 5.08 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 8 | 5.08 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 8 | 5.08 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 8 | 5.08 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 8 | 5.08 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 2 | 5.08 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 2 | 5.08 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 2 | 5.08 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 7 | 5.08 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 7 | 5.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 16 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 1 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 1 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 1 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 2 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 2 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 2 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 3 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 3 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 3 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 4 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 4 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 4 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 7 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 7 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 7 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 8 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 8 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 8 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 12 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 12 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 12 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 13 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 13 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 13 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 15 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 15 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 15 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 20 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 20 | 5.08 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 20 | 5.08 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 1 | 5.08 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 2 | 5.08 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 2 | 5.08 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 10 | 5.08 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 10 | 5.08 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 11 | 5.08 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 11 | 5.08 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 15 | 5.08 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 15 | 5.08 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 15 | 5.08 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 4 | 5.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 4 | 5.08 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 4 | 5.08 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 19 | 5.08 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 9 | 5.08 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 14 | 5.08 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 14 | 5.08 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 14 | 5.08 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 17 | 5.08 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 16 | 5.08 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 16 | 5.08 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 17 | 5.08 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 17 | 5.08 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 13 | 5.08 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 13 | 5.08 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 13 | 5.08 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 9 | 5.08 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 6 | 5.08 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 6 | 5.08 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 6 | 5.08 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 8 | 5.08 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 8 | 5.08 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 8 | 5.08 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 8 | 5.08 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 8 | 5.08 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 8 | 5.08 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 2 | 5.08 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 13 | 5.08 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 14 | 5.08 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 16 | 5.08 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 16 | 5.08 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 17 | 5.08 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 15 | 5.08 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 13 | 5.08 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 13 | 5.08 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 18 | 5.08 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 12 | 5.08 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 9 | 5.08 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 13 | 5.08 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 13 | 5.08 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 13 | 5.08 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 12 | 5.08 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 12 | 5.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 10 | 5.08 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 20 | 5.08 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 20 | 5.08 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 20 | 5.08 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 20 | 5.08 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 20 | 5.08 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 20 | 5.08 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 5 | 5.08 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 5 | 5.08 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 16 | 5.08 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 16 | 5.08 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 16 | 5.08 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 16 | 5.08 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 16 | 5.08 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 16 | 5.08 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 5 | 5.08 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 5 | 5.08 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 5 | 5.08 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 2 | 5.08 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 15 | 5.08 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 2 | 5.08 |
| (1,6606) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 1 | 5.08 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 12 | 5.08 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 12 | 5.08 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 12 | 5.08 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 9 | 5.08 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 9 | 5.08 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 9 | 5.08 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 16 | 5.08 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 16 | 5.08 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 16 | 5.08 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 17 | 5.08 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 17 | 5.08 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 17 | 5.08 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 13 | 5.08 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 5 | 5.08 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 5 | 5.08 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 5 | 5.08 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 10 | 5.08 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 16 | 5.08 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 7 | 5.08 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 7 | 5.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 7 | 5.08 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 11 | 5.08 |
| (1,5384) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 1 | 5.08 |
| (1,5384) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 1 | 5.08 |
| (1,5384) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 1 | 5.08 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 19 | 5.08 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 13 | 5.08 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 10 | 5.08 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 18 | 5.08 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 18 | 5.08 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 18 | 5.08 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 11 | 5.08 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 17 | 5.08 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 17 | 5.08 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 17 | 5.08 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 12 | 5.08 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 12 | 5.08 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 12 | 5.08 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 13 | 5.08 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 3 | 5.08 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 2 | 5.08 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 2 | 5.08 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 2 | 5.08 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 10 | 5.08 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 8 | 5.08 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 6 | 5.08 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 5.08 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 5.08 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 5.08 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 5.08 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 5.08 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 5.08 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 5.08 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 5.08 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 5.08 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 5.08 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 5.08 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 5.08 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 19 | 5.08 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 2 | 5.08 |
| (1,4260) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 2 | 5.08 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 5.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 5.08 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 18 | 5.08 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 18 | 5.08 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 19 | 5.08 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 5.08 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 5.08 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 5.08 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 17 | 5.08 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 11 | 5.08 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 11 | 5.08 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 11 | 5.08 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 19 | 5.08 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 19 | 5.08 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 10 | 5.08 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 10 | 5.08 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 17 | 5.08 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 17 | 5.08 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 17 | 5.08 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 7 | 5.08 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 7 | 5.08 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 7 | 5.08 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 17 | 5.08 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 17 | 5.08 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 17 | 5.08 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 17 | 5.08 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 5.08 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 5.08 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 5.08 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 5.08 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 5.08 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 5.08 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 5.08 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 5.08 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 5.08 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 3 | 5.08 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 5 | 5.08 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 14 | 5.08 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 14 | 5.08 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 14 | 5.08 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 14 | 5.08 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 14 | 5.08 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 14 | 5.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 16 | 5.08 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 16 | 5.08 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 16 | 5.08 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 10 | 5.08 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 10 | 5.08 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 20 | 5.08 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 20 | 5.08 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 20 | 5.08 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 20 | 5.08 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 20 | 5.08 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 20 | 5.08 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 5 | 5.08 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 5 | 5.08 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 16 | 5.08 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 16 | 5.08 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 16 | 5.08 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 16 | 5.08 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 16 | 5.08 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 16 | 5.08 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 17 | 5.08 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 17 | 5.08 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 5 | 5.08 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 5 | 5.08 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 5 | 5.08 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 10 | 5.08 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 10 | 5.08 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 10 | 5.08 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 2 | 5.08 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 15 | 5.08 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 2 | 5.08 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 12 | 5.08 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 12 | 5.08 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 12 | 5.08 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 9 | 5.08 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 9 | 5.08 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 9 | 5.08 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 9 | 5.08 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 9 | 5.08 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 9 | 5.08 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 16 | 5.08 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 16 | 5.08 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 16 | 5.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 6 | 5.08 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 6 | 5.08 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 6 | 5.08 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 18 | 5.08 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 18 | 5.08 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 18 | 5.08 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 14 | 5.08 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 1 | 5.08 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 17 | 5.08 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 17 | 5.08 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 17 | 5.08 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 13 | 5.08 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 11 | 5.08 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 5 | 5.08 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 5 | 5.08 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 5 | 5.08 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 8 | 5.08 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 8 | 5.08 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 8 | 5.08 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 10 | 5.08 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 4 | 5.08 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 16 | 5.08 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 8 | 5.08 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 4 | 5.08 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 7 | 5.08 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 7 | 5.08 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 7 | 5.08 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 6 | 5.08 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 10 | 5.08 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 11 | 5.08 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 13 | 5.08 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 4 | 5.08 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 4 | 5.08 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 4 | 5.08 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 19 | 5.08 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 7 | 5.08 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 1 | 5.07 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 8 | 5.07 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 6 | 5.07 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 15 | 5.07 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 9 | 5.07 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 9 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 1 | 5.07 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 1 | 5.07 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 4 | 5.07 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 4 | 5.07 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 4 | 5.07 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 4 | 5.07 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 20 | 5.07 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 20 | 5.07 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 20 | 5.07 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 20 | 5.07 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 2 | 5.07 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 2 | 5.07 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 16 | 5.07 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 16 | 5.07 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 19 | 5.07 |
| (1,8935) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 19 | 5.07 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 12 | 5.07 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 12 | 5.07 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 2 | 5.07 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 2 | 5.07 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 2 | 5.07 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 2 | 5.07 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 2 | 5.07 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 2 | 5.07 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 4 | 5.07 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 4 | 5.07 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 4 | 5.07 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 4 | 5.07 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 4 | 5.07 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 4 | 5.07 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 12 | 5.07 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 12 | 5.07 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 5 | 5.07 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 5 | 5.07 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 11 | 5.07 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 11 | 5.07 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 11 | 5.07 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 11 | 5.07 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 11 | 5.07 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 11 | 5.07 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 8 | 5.07 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 8 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 11 | 5.07 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 11 | 5.07 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 5 | 5.07 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 5 | 5.07 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 2 | 5.07 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 2 | 5.07 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 2 | 5.07 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 2 | 5.07 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 2 | 5.07 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 2 | 5.07 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 2 | 5.07 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 2 | 5.07 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 2 | 5.07 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 17 | 5.07 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 17 | 5.07 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 17 | 5.07 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 5 | 5.07 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 5 | 5.07 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 5 | 5.07 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 14 | 5.07 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 14 | 5.07 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 14 | 5.07 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 16 | 5.07 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 16 | 5.07 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 16 | 5.07 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 19 | 5.07 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 19 | 5.07 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 19 | 5.07 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 4 | 5.07 |
| (1,8221) | 1:108:A:SER:H | 1:111:A:SER:H | 15 | 5.07 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 10 | 5.07 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 14 | 5.07 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 13 | 5.07 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 17 | 5.07 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 12 | 5.07 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 1 | 5.07 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 1 | 5.07 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 1 | 5.07 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 1 | 5.07 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 15 | 5.07 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 17 | 5.07 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 17 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 17 | 5.07 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 11 | 5.07 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 11 | 5.07 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 11 | 5.07 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 2 | 5.07 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 2 | 5.07 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 2 | 5.07 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 18 | 5.07 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 18 | 5.07 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 18 | 5.07 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 13 | 5.07 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 1 | 5.07 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 10 | 5.07 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 13 | 5.07 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 10 | 5.07 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 18 | 5.07 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 6 | 5.07 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 6 | 5.07 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 6 | 5.07 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 6 | 5.07 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 6 | 5.07 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 6 | 5.07 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 6 | 5.07 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 6 | 5.07 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 6 | 5.07 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 20 | 5.07 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 4 | 5.07 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 4 | 5.07 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 4 | 5.07 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 4 | 5.07 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 4 | 5.07 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 4 | 5.07 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 4 | 5.07 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 4 | 5.07 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 4 | 5.07 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 17 | 5.07 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 17 | 5.07 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 17 | 5.07 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 2 | 5.07 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 5 | 5.07 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 12 | 5.07 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 3 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 16 | 5.07 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 20 | 5.07 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 16 | 5.07 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 5 | 5.07 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 8 | 5.07 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 8 | 5.07 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 2 | 5.07 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 16 | 5.07 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 16 | 5.07 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 1 | 5.07 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 7 | 5.07 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 1 | 5.07 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 6 | 5.07 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 5 | 5.07 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 5 | 5.07 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 5 | 5.07 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 20 | 5.07 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 1 | 5.07 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 1 | 5.07 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 1 | 5.07 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 1 | 5.07 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 18 | 5.07 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 18 | 5.07 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 18 | 5.07 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 3 | 5.07 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 6 | 5.07 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 17 | 5.07 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 5 | 5.07 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 5 | 5.07 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 16 | 5.07 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 19 | 5.07 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 1 | 5.07 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 1 | 5.07 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 1 | 5.07 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 1 | 5.07 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 1 | 5.07 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 1 | 5.07 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 1 | 5.07 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 1 | 5.07 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 1 | 5.07 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 3 | 5.07 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 3 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 3 | 5.07 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 1 | 5.07 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 1 | 5.07 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 1 | 5.07 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 15 | 5.07 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 1 | 5.07 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 1 | 5.07 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 1 | 5.07 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 19 | 5.07 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 4 | 5.07 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 20 | 5.07 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 11 | 5.07 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 11 | 5.07 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 11 | 5.07 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 5 | 5.07 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 11 | 5.07 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 4 | 5.07 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 5 | 5.07 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 5 | 5.07 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 5 | 5.07 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 18 | 5.07 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 5 | 5.07 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 19 | 5.07 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 20 | 5.07 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 7 | 5.07 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 9 | 5.07 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 13 | 5.07 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 7 | 5.07 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 7 | 5.07 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 7 | 5.07 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 19 | 5.07 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 19 | 5.07 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 17 | 5.07 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 17 | 5.07 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 17 | 5.07 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 3 | 5.07 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 3 | 5.07 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 3 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 9 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 9 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 9 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 9 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 9 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 9 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 9 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 9 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 9 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 20 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 20 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 20 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 20 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 20 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 20 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 20 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 20 | 5.07 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 20 | 5.07 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 14 | 5.07 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 14 | 5.07 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 14 | 5.07 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 14 | 5.07 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 14 | 5.07 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 14 | 5.07 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 14 | 5.07 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 14 | 5.07 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 14 | 5.07 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 11 | 5.07 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 12 | 5.07 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 12 | 5.07 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 12 | 5.07 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 5 | 5.07 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 5 | 5.07 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 5 | 5.07 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 19 | 5.07 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 2 | 5.07 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 2 | 5.07 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 2 | 5.07 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 1 | 5.07 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 1 | 5.07 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 18 | 5.07 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 18 | 5.07 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 18 | 5.07 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 18 | 5.07 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 18 | 5.07 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 18 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 12 | 5.07 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 5.07 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 17 | 5.07 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 5.07 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 5 | 5.07 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 5 | 5.07 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 11 | 5.07 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 5 | 5.07 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 10 | 5.07 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 8 | 5.07 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 8 | 5.07 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 16 | 5.07 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 3 | 5.07 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 12 | 5.07 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 12 | 5.07 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 12 | 5.07 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 8 | 5.07 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 19 | 5.07 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 19 | 5.07 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 15 | 5.07 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 12 | 5.07 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 12 | 5.07 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 17 | 5.07 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 17 | 5.07 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 2 | 5.07 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 7 | 5.07 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 7 | 5.07 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 13 | 5.07 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 13 | 5.07 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 13 | 5.07 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 20 | 5.07 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 20 | 5.07 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 20 | 5.07 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 20 | 5.07 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 5.07 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 5.07 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 5 | 5.07 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 5 | 5.07 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 19 | 5.07 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 1 | 5.07 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 1 | 5.07 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 1 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 18 | 5.07 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 18 | 5.07 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 18 | 5.07 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 5 | 5.07 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 5 | 5.07 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 5 | 5.07 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 9 | 5.07 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 9 | 5.07 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 9 | 5.07 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 15 | 5.07 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 3 | 5.07 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 18 | 5.07 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 14 | 5.07 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 6 | 5.07 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 17 | 5.07 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 19 | 5.07 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 19 | 5.07 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 19 | 5.07 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 19 | 5.07 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 19 | 5.07 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 19 | 5.07 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 16 | 5.07 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 16 | 5.07 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 5 | 5.07 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 5 | 5.07 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 16 | 5.07 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 19 | 5.07 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 1 | 5.07 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 13 | 5.07 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 14 | 5.07 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 10 | 5.07 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 10 | 5.07 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 10 | 5.07 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 7 | 5.07 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 7 | 5.07 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 7 | 5.07 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 1 | 5.07 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 1 | 5.07 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 1 | 5.07 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 1 | 5.07 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 1 | 5.07 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 1 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 1 | 5.07 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 1 | 5.07 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 1 | 5.07 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 6 | 5.07 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 6 | 5.07 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 6 | 5.07 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 3 | 5.07 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 3 | 5.07 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 3 | 5.07 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 1 | 5.07 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 1 | 5.07 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 1 | 5.07 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 15 | 5.07 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 1 | 5.07 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 1 | 5.07 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 1 | 5.07 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 19 | 5.07 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 3 | 5.07 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 3 | 5.07 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 3 | 5.07 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 13 | 5.07 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 4 | 5.07 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 20 | 5.07 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 14 | 5.07 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 14 | 5.07 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 11 | 5.07 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 11 | 5.07 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 11 | 5.07 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 5 | 5.07 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 11 | 5.07 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 4 | 5.07 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 11 | 5.07 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 11 | 5.07 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 11 | 5.07 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 5 | 5.07 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 5 | 5.07 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 5 | 5.07 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 18 | 5.07 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 3 | 5.07 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 14 | 5.07 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 5 | 5.07 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 12 | 5.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 12 | 5.07 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 12 | 5.07 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 12 | 5.07 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 12 | 5.07 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 12 | 5.07 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 20 | 5.07 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 20 | 5.07 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 20 | 5.07 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 5 | 5.06 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 2 | 5.06 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 16 | 5.06 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 2 | 5.06 |
| (4,33) | 1:15:A:MET:CB | 1:84:A:GLU:H | 2 | 5.06 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 14 | 5.06 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 14 | 5.06 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 17 | 5.06 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 17 | 5.06 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 6 | 5.06 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 6 | 5.06 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 12 | 5.06 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 12 | 5.06 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 15 | 5.06 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 15 | 5.06 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 7 | 5.06 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 7 | 5.06 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 3 | 5.06 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 3 | 5.06 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 3 | 5.06 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 3 | 5.06 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 3 | 5.06 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 3 | 5.06 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 8 | 5.06 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 8 | 5.06 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 8 | 5.06 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 8 | 5.06 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 8 | 5.06 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 8 | 5.06 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 6 | 5.06 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 6 | 5.06 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 17 | 5.06 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 17 | 5.06 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 20 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 20 | 5.06 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 9 | 5.06 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 9 | 5.06 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 9 | 5.06 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 9 | 5.06 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 19 | 5.06 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 19 | 5.06 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 14 | 5.06 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 14 | 5.06 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 20 | 5.06 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 20 | 5.06 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 20 | 5.06 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 20 | 5.06 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 20 | 5.06 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 20 | 5.06 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 6 | 5.06 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 6 | 5.06 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 6 | 5.06 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 6 | 5.06 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 6 | 5.06 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 6 | 5.06 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 20 | 5.06 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 20 | 5.06 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 14 | 5.06 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 14 | 5.06 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 16 | 5.06 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 16 | 5.06 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 16 | 5.06 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 16 | 5.06 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 20 | 5.06 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 20 | 5.06 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 4 | 5.06 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 4 | 5.06 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 4 | 5.06 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 4 | 5.06 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 4 | 5.06 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 4 | 5.06 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 18 | 5.06 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 18 | 5.06 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 7 | 5.06 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 7 | 5.06 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 7 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 7 | 5.06 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 7 | 5.06 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 7 | 5.06 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 5 | 5.06 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 5 | 5.06 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 17 | 5.06 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 17 | 5.06 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 2 | 5.06 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 10 | 5.06 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 8 | 5.06 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 4 | 5.06 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 8 | 5.06 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 8 | 5.06 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 19 | 5.06 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 19 | 5.06 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 5 | 5.06 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 5 | 5.06 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 5 | 5.06 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 9 | 5.06 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 9 | 5.06 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 9 | 5.06 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 11 | 5.06 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 11 | 5.06 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 11 | 5.06 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 3 | 5.06 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 3 | 5.06 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 19 | 5.06 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 16 | 5.06 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 7 | 5.06 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 7 | 5.06 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 7 | 5.06 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 6 | 5.06 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 3 | 5.06 |
| (1,8075) | 1:90:A:ASN:HB3 | 1:92:A:TYR:H | 11 | 5.06 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE2 | 2 | 5.06 |
| (1,7965) | 1:77:A:LYS:H | 1:77:A:LYS:HE3 | 2 | 5.06 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 2 | 5.06 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 2 | 5.06 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 5 | 5.06 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 3 | 5.06 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 18 | 5.06 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 18 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 18 | 5.06 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 14 | 5.06 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 14 | 5.06 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 14 | 5.06 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 14 | 5.06 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 14 | 5.06 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 14 | 5.06 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 14 | 5.06 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 14 | 5.06 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 14 | 5.06 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 6 | 5.06 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 10 | 5.06 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 8 | 5.06 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 11 | 5.06 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 15 | 5.06 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 15 | 5.06 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 15 | 5.06 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 1 | 5.06 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 1 | 5.06 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 12 | 5.06 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 14 | 5.06 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 14 | 5.06 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 5 | 5.06 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 18 | 5.06 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 18 | 5.06 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 18 | 5.06 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 18 | 5.06 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 18 | 5.06 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 18 | 5.06 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 18 | 5.06 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 18 | 5.06 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 18 | 5.06 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 5 | 5.06 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 17 | 5.06 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 3 | 5.06 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 18 | 5.06 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 18 | 5.06 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 18 | 5.06 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 6 | 5.06 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 9 | 5.06 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 9 | 5.06 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 8 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 8 | 5.06 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 8 | 5.06 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 8 | 5.06 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 17 | 5.06 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 1 | 5.06 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 1 | 5.06 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 1 | 5.06 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 10 | 5.06 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 10 | 5.06 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 10 | 5.06 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 7 | 5.06 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 2 | 5.06 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 20 | 5.06 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 18 | 5.06 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 18 | 5.06 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 2 | 5.06 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 2 | 5.06 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 2 | 5.06 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 16 | 5.06 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 16 | 5.06 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 16 | 5.06 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 9 | 5.06 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 14 | 5.06 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 20 | 5.06 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 20 | 5.06 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 20 | 5.06 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 20 | 5.06 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 20 | 5.06 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 20 | 5.06 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 5 | 5.06 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 19 | 5.06 |
| (1,6615) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 16 | 5.06 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 4 | 5.06 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 6 | 5.06 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 6 | 5.06 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 6 | 5.06 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 12 | 5.06 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 6 | 5.06 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 6 | 5.06 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 20 | 5.06 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 20 | 5.06 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 20 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 12 | 5.06 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 12 | 5.06 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 12 | 5.06 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 11 | 5.06 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 11 | 5.06 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 11 | 5.06 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 9 | 5.06 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 9 | 5.06 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 9 | 5.06 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 12 | 5.06 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 14 | 5.06 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 14 | 5.06 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 14 | 5.06 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 3 | 5.06 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 3 | 5.06 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 3 | 5.06 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 11 | 5.06 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 11 | 5.06 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 12 | 5.06 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 12 | 5.06 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 3 | 5.06 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 3 | 5.06 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 3 | 5.06 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 3 | 5.06 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 15 | 5.06 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 3 | 5.06 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 9 | 5.06 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 9 | 5.06 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 9 | 5.06 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 8 | 5.06 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 3 | 5.06 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 12 | 5.06 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 12 | 5.06 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 12 | 5.06 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 20 | 5.06 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 9 | 5.06 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 9 | 5.06 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 9 | 5.06 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 19 | 5.06 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 19 | 5.06 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 19 | 5.06 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 20 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 1 | 5.06 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 9 | 5.06 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 13 | 5.06 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 13 | 5.06 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 13 | 5.06 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 13 | 5.06 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 13 | 5.06 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 13 | 5.06 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 6 | 5.06 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 6 | 5.06 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 12 | 5.06 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 12 | 5.06 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 7 | 5.06 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 5 | 5.06 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 17 | 5.06 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 18 | 5.06 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 18 | 5.06 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 18 | 5.06 |
| (1,4843) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 15 | 5.06 |
| (1,4843) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 15 | 5.06 |
| (1,4843) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 15 | 5.06 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 17 | 5.06 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 19 | 5.06 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 16 | 5.06 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 16 | 5.06 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 16 | 5.06 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 17 | 5.06 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 17 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 15 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 15 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 15 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 15 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 15 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 15 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 5.06 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 5.06 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 15 | 5.06 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 15 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 5 | 5.06 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 5 | 5.06 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 8 | 5.06 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 8 | 5.06 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 8 | 5.06 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 8 | 5.06 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 8 | 5.06 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 8 | 5.06 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 5 | 5.06 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 5 | 5.06 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 5 | 5.06 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 19 | 5.06 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 19 | 5.06 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 19 | 5.06 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 11 | 5.06 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 18 | 5.06 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 18 | 5.06 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 18 | 5.06 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 4 | 5.06 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 4 | 5.06 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 4 | 5.06 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 4 | 5.06 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 1 | 5.06 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 1 | 5.06 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 14 | 5.06 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 14 | 5.06 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 4 | 5.06 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 4 | 5.06 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 16 | 5.06 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 16 | 5.06 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 16 | 5.06 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 16 | 5.06 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 19 | 5.06 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 19 | 5.06 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 19 | 5.06 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 18 | 5.06 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 18 | 5.06 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 5 | 5.06 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 5 | 5.06 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 5 | 5.06 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 17 | 5.06 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 1 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 1 | 5.06 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 1 | 5.06 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 18 | 5.06 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 11 | 5.06 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 11 | 5.06 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 13 | 5.06 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 13 | 5.06 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 7 | 5.06 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 7 | 5.06 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 7 | 5.06 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 10 | 5.06 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 10 | 5.06 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 10 | 5.06 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 5.06 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 5.06 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 5.06 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 6 | 5.06 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 7 | 5.06 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 13 | 5.06 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 2 | 5.06 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 20 | 5.06 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 18 | 5.06 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 18 | 5.06 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 2 | 5.06 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 2 | 5.06 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 2 | 5.06 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 16 | 5.06 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 16 | 5.06 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 16 | 5.06 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 9 | 5.06 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 14 | 5.06 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 16 | 5.06 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 16 | 5.06 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 16 | 5.06 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 5 | 5.06 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 19 | 5.06 |
| (1,2472) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 16 | 5.06 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 4 | 5.06 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 6 | 5.06 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 6 | 5.06 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 6 | 5.06 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 12 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 7 | 5.06 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 18 | 5.06 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 18 | 5.06 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 18 | 5.06 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 20 | 5.06 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 20 | 5.06 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 20 | 5.06 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 10 | 5.06 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 12 | 5.06 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 12 | 5.06 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 12 | 5.06 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 11 | 5.06 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 11 | 5.06 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 11 | 5.06 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 9 | 5.06 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 9 | 5.06 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 9 | 5.06 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 12 | 5.06 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 14 | 5.06 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 14 | 5.06 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 14 | 5.06 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 3 | 5.06 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 3 | 5.06 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 3 | 5.06 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 3 | 5.06 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 11 | 5.06 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 11 | 5.06 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 12 | 5.06 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 12 | 5.06 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 3 | 5.06 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 3 | 5.06 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 3 | 5.06 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 3 | 5.06 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 15 | 5.06 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 6 | 5.06 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 3 | 5.06 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 9 | 5.06 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 9 | 5.06 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 9 | 5.06 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 17 | 5.06 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 17 | 5.06 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 17 | 5.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 8 | 5.06 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 3 | 5.06 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 12 | 5.06 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 12 | 5.06 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 12 | 5.06 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 12 | 5.05 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 7 | 5.05 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 11 | 5.05 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 11 | 5.05 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 10 | 5.05 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 10 | 5.05 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 6 | 5.05 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 6 | 5.05 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 6 | 5.05 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 6 | 5.05 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 6 | 5.05 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 6 | 5.05 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 6 | 5.05 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 6 | 5.05 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 6 | 5.05 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 6 | 5.05 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 10 | 5.05 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 10 | 5.05 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 20 | 5.05 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 20 | 5.05 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 19 | 5.05 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 19 | 5.05 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 15 | 5.05 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 15 | 5.05 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 11 | 5.05 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 11 | 5.05 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 11 | 5.05 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 11 | 5.05 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 11 | 5.05 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 11 | 5.05 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 12 | 5.05 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 12 | 5.05 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 12 | 5.05 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 12 | 5.05 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 5 | 5.05 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 5 | 5.05 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 5 | 5.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 5 | 5.05 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 5 | 5.05 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 5 | 5.05 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 3 | 5.05 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 3 | 5.05 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 3 | 5.05 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 3 | 5.05 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 16 | 5.05 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 16 | 5.05 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 20 | 5.05 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 20 | 5.05 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 7 | 5.05 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 7 | 5.05 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 7 | 5.05 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 7 | 5.05 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 19 | 5.05 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 19 | 5.05 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 17 | 5.05 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 17 | 5.05 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 9 | 5.05 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 9 | 5.05 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 9 | 5.05 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 9 | 5.05 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 8 | 5.05 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 8 | 5.05 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 1 | 5.05 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 1 | 5.05 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 10 | 5.05 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 10 | 5.05 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 8 | 5.05 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 8 | 5.05 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 8 | 5.05 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 8 | 5.05 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 19 | 5.05 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 19 | 5.05 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 19 | 5.05 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 19 | 5.05 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 20 | 5.05 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 20 | 5.05 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 20 | 5.05 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 20 | 5.05 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 3 | 5.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 10 | 5.05 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 1 | 5.05 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 1 | 5.05 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 7 | 5.05 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 7 | 5.05 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 16 | 5.05 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 16 | 5.05 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 16 | 5.05 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 16 | 5.05 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 16 | 5.05 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 16 | 5.05 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 10 | 5.05 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 10 | 5.05 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 1 | 5.05 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 1 | 5.05 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 1 | 5.05 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 13 | 5.05 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 13 | 5.05 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 13 | 5.05 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 6 | 5.05 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 6 | 5.05 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 10 | 5.05 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 5 | 5.05 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 17 | 5.05 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 13 | 5.05 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 19 | 5.05 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 13 | 5.05 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 14 | 5.05 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 14 | 5.05 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 14 | 5.05 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 8 | 5.05 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 8 | 5.05 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 8 | 5.05 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 13 | 5.05 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 13 | 5.05 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 13 | 5.05 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 6 | 5.05 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 5 | 5.05 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 20 | 5.05 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 20 | 5.05 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 5 | 5.05 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 5 | 5.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 10 | 5.05 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 5 | 5.05 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 12 | 5.05 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 12 | 5.05 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 7 | 5.05 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 7 | 5.05 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 7 | 5.05 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 12 | 5.05 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 12 | 5.05 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 12 | 5.05 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 15 | 5.05 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 15 | 5.05 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 15 | 5.05 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 15 | 5.05 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 15 | 5.05 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 15 | 5.05 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 15 | 5.05 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 15 | 5.05 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 15 | 5.05 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 1 | 5.05 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 1 | 5.05 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 1 | 5.05 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 19 | 5.05 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 19 | 5.05 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 19 | 5.05 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 19 | 5.05 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 19 | 5.05 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 19 | 5.05 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 18 | 5.05 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 18 | 5.05 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 18 | 5.05 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 18 | 5.05 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 18 | 5.05 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 18 | 5.05 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 18 | 5.05 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 18 | 5.05 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 18 | 5.05 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 6 | 5.05 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 17 | 5.05 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 8 | 5.05 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 17 | 5.05 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 12 | 5.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 17 | 5.05 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 17 | 5.05 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 17 | 5.05 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 14 | 5.05 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 14 | 5.05 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 7 | 5.05 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 12 | 5.05 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 12 | 5.05 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 12 | 5.05 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 7 | 5.05 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 4 | 5.05 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 1 | 5.05 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 8 | 5.05 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 13 | 5.05 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 13 | 5.05 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 13 | 5.05 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 1 | 5.05 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 1 | 5.05 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 1 | 5.05 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 18 | 5.05 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 18 | 5.05 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 18 | 5.05 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 15 | 5.05 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 15 | 5.05 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 15 | 5.05 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 14 | 5.05 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 14 | 5.05 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 14 | 5.05 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 17 | 5.05 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 8 | 5.05 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 18 | 5.05 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 14 | 5.05 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 18 | 5.05 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 6 | 5.05 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 12 | 5.05 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 17 | 5.05 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 5 | 5.05 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 7 | 5.05 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 12 | 5.05 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 17 | 5.05 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 17 | 5.05 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 17 | 5.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 19 | 5.05 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 19 | 5.05 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 19 | 5.05 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 19 | 5.05 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 19 | 5.05 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 19 | 5.05 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 7 | 5.05 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 16 | 5.05 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 19 | 5.05 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 19 | 5.05 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 19 | 5.05 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 19 | 5.05 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 9 | 5.05 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 9 | 5.05 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 9 | 5.05 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 14 | 5.05 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 7 | 5.05 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 19 | 5.05 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 3 | 5.05 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 3 | 5.05 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 3 | 5.05 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 3 | 5.05 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 3 | 5.05 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 3 | 5.05 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 3 | 5.05 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 3 | 5.05 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 3 | 5.05 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 14 | 5.05 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 14 | 5.05 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 14 | 5.05 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 13 | 5.05 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 13 | 5.05 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 13 | 5.05 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 1 | 5.05 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 1 | 5.05 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 1 | 5.05 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 12 | 5.05 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 12 | 5.05 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 12 | 5.05 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 5 | 5.05 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 16 | 5.05 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 16 | 5.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 16 | 5.05 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 5 | 5.05 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 9 | 5.05 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 9 | 5.05 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 9 | 5.05 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 2 | 5.05 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 2 | 5.05 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 8 | 5.05 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 11 | 5.05 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 11 | 5.05 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 10 | 5.05 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 10 | 5.05 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 3 | 5.05 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 3 | 5.05 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 18 | 5.05 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 18 | 5.05 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 6 | 5.05 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 6 | 5.05 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 6 | 5.05 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 6 | 5.05 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 5.05 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 5.05 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 5.05 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 5.05 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 1 | 5.05 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 1 | 5.05 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 1 | 5.05 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 1 | 5.05 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 1 | 5.05 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 16 | 5.05 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 16 | 5.05 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 5 | 5.05 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 5 | 5.05 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 5 | 5.05 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 5 | 5.05 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 5 | 5.05 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 5 | 5.05 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 13 | 5.05 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 13 | 5.05 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 13 | 5.05 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 1 | 5.05 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 1 | 5.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 1 | 5.05 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 19 | 5.05 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 17 | 5.05 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 3 | 5.05 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 3 | 5.05 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 3 | 5.05 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 3 | 5.05 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 3 | 5.05 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 12 | 5.05 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 8 | 5.05 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 8 | 5.05 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 11 | 5.05 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 17 | 5.05 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 6 | 5.05 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 6 | 5.05 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 5.05 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 5.05 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 5.05 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 5.05 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 18 | 5.05 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 18 | 5.05 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 18 | 5.05 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 8 | 5.05 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 8 | 5.05 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 8 | 5.05 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 8 | 5.05 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 8 | 5.05 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 8 | 5.05 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 3 | 5.05 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 3 | 5.05 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 4 | 5.05 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 4 | 5.05 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 1 | 5.05 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 12 | 5.05 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 12 | 5.05 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 12 | 5.05 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 13 | 5.05 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 8 | 5.05 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 1 | 5.05 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 5 | 5.05 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 13 | 5.05 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 13 | 5.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 13 | 5.05 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 9 | 5.05 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 9 | 5.05 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 9 | 5.05 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 1 | 5.05 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 1 | 5.05 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 1 | 5.05 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 18 | 5.05 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 18 | 5.05 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 18 | 5.05 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 12 | 5.05 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 9 | 5.05 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 15 | 5.05 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 15 | 5.05 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 15 | 5.05 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 14 | 5.05 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 14 | 5.05 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 14 | 5.05 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 14 | 5.05 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 14 | 5.05 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 14 | 5.05 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 17 | 5.05 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 8 | 5.05 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 18 | 5.05 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 14 | 5.05 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 18 | 5.05 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 6 | 5.05 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 12 | 5.05 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 17 | 5.05 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 5 | 5.05 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 7 | 5.05 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 12 | 5.05 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 17 | 5.05 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 17 | 5.05 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 17 | 5.05 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 19 | 5.05 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 19 | 5.05 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 19 | 5.05 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 19 | 5.05 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 19 | 5.05 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 19 | 5.05 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 7 | 5.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 14 | 5.05 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 14 | 5.05 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 14 | 5.05 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 16 | 5.05 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 19 | 5.05 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 19 | 5.05 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 19 | 5.05 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 19 | 5.05 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 19 | 5.05 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 19 | 5.05 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 19 | 5.05 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 2 | 5.05 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 5.05 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 5.05 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 6 | 5.05 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 6 | 5.05 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 6 | 5.05 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 9 | 5.05 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 9 | 5.05 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 9 | 5.05 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 14 | 5.05 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 4 | 5.05 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 7 | 5.05 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 19 | 5.05 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 3 | 5.05 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 3 | 5.05 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 3 | 5.05 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 3 | 5.05 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 3 | 5.05 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 3 | 5.05 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 13 | 5.05 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 13 | 5.05 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 13 | 5.05 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 13 | 5.05 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 13 | 5.05 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 13 | 5.05 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 13 | 5.05 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 13 | 5.05 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 13 | 5.05 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 13 | 5.05 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 8 | 5.04 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 13 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 16 | 5.04 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 16 | 5.04 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 16 | 5.04 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 16 | 5.04 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 16 | 5.04 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 16 | 5.04 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 12 | 5.04 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 12 | 5.04 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 12 | 5.04 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 12 | 5.04 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 4 | 5.04 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 4 | 5.04 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 18 | 5.04 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 18 | 5.04 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 1 | 5.04 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 1 | 5.04 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 1 | 5.04 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 1 | 5.04 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 1 | 5.04 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 1 | 5.04 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 19 | 5.04 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 19 | 5.04 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 7 | 5.04 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 7 | 5.04 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 17 | 5.04 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 17 | 5.04 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 18 | 5.04 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 18 | 5.04 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 9 | 5.04 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 9 | 5.04 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 20 | 5.04 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 20 | 5.04 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 8 | 5.04 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 8 | 5.04 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 8 | 5.04 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 8 | 5.04 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 8 | 5.04 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 8 | 5.04 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 14 | 5.04 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 14 | 5.04 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 14 | 5.04 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 14 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 14 | 5.04 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 14 | 5.04 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 9 | 5.04 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 9 | 5.04 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 9 | 5.04 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 9 | 5.04 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 9 | 5.04 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 9 | 5.04 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 6 | 5.04 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 6 | 5.04 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 20 | 5.04 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 20 | 5.04 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 20 | 5.04 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 20 | 5.04 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 5 | 5.04 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 5 | 5.04 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 5 | 5.04 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 5 | 5.04 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 12 | 5.04 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 12 | 5.04 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 16 | 5.04 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 16 | 5.04 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 16 | 5.04 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 16 | 5.04 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 19 | 5.04 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 19 | 5.04 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 4 | 5.04 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 4 | 5.04 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 5 | 5.04 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 5 | 5.04 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 5 | 5.04 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 5 | 5.04 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 18 | 5.04 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 18 | 5.04 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 17 | 5.04 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 17 | 5.04 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 6 | 5.04 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 6 | 5.04 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 6 | 5.04 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 6 | 5.04 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 3 | 5.04 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 3 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 3 | 5.04 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 19 | 5.04 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 19 | 5.04 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 19 | 5.04 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 12 | 5.04 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 1 | 5.04 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 11 | 5.04 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 11 | 5.04 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 11 | 5.04 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 20 | 5.04 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 20 | 5.04 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 20 | 5.04 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 8 | 5.04 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 17 | 5.04 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 18 | 5.04 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 4 | 5.04 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 6 | 5.04 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 6 | 5.04 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 6 | 5.04 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 10 | 5.04 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 10 | 5.04 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 10 | 5.04 |
| (1,8260) | 1:118:A:ALA:HB1 | 1:119:A:ARG:HA | 17 | 5.04 |
| (1,8260) | 1:118:A:ALA:HB2 | 1:119:A:ARG:HA | 17 | 5.04 |
| (1,8260) | 1:118:A:ALA:HB3 | 1:119:A:ARG:HA | 17 | 5.04 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 17 | 5.04 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 7 | 5.04 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 7 | 5.04 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 7 | 5.04 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 8 | 5.04 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 8 | 5.04 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 8 | 5.04 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 9 | 5.04 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 13 | 5.04 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 13 | 5.04 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 13 | 5.04 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 2 | 5.04 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 17 | 5.04 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 11 | 5.04 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 11 | 5.04 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 12 | 5.04 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 11 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 11 | 5.04 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 11 | 5.04 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 18 | 5.04 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 18 | 5.04 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 18 | 5.04 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 18 | 5.04 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 18 | 5.04 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 18 | 5.04 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 18 | 5.04 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 18 | 5.04 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 18 | 5.04 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 20 | 5.04 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 20 | 5.04 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 20 | 5.04 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 3 | 5.04 |
| (1,7746) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 4 | 5.04 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 20 | 5.04 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 20 | 5.04 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 20 | 5.04 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 20 | 5.04 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 20 | 5.04 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 20 | 5.04 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 20 | 5.04 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 20 | 5.04 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 20 | 5.04 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 20 | 5.04 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 14 | 5.04 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 14 | 5.04 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 14 | 5.04 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 14 | 5.04 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 15 | 5.04 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG21 | 14 | 5.04 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG22 | 14 | 5.04 |
| (1,7629) | 1:27:A:HIS:H | 1:29:A:THR:HG23 | 14 | 5.04 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 9 | 5.04 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 9 | 5.04 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 2 | 5.04 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 11 | 5.04 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 5 | 5.04 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 5 | 5.04 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 5 | 5.04 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 6 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 3 | 5.04 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 3 | 5.04 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 4 | 5.04 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 7 | 5.04 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 7 | 5.04 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 7 | 5.04 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 7 | 5.04 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 2 | 5.04 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 2 | 5.04 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 2 | 5.04 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 19 | 5.04 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 19 | 5.04 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 19 | 5.04 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 19 | 5.04 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 19 | 5.04 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 19 | 5.04 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 19 | 5.04 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 19 | 5.04 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 19 | 5.04 |
| (1,7190) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 8 | 5.04 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 13 | 5.04 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 13 | 5.04 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 4 | 5.04 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 14 | 5.04 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 14 | 5.04 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 14 | 5.04 |
| (1,6810) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 17 | 5.04 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 15 | 5.04 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 15 | 5.04 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 15 | 5.04 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 5 | 5.04 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 9 | 5.04 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 9 | 5.04 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 9 | 5.04 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 2 | 5.04 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 2 | 5.04 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 5 | 5.04 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 5 | 5.04 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 5 | 5.04 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 5 | 5.04 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 5 | 5.04 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 5 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 3 | 5.04 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 3 | 5.04 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 3 | 5.04 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 17 | 5.04 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 17 | 5.04 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 17 | 5.04 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 16 | 5.04 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 13 | 5.04 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 4 | 5.04 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 4 | 5.04 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 4 | 5.04 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 15 | 5.04 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 12 | 5.04 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 12 | 5.04 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 12 | 5.04 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 9 | 5.04 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 20 | 5.04 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 20 | 5.04 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 20 | 5.04 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 20 | 5.04 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 7 | 5.04 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 7 | 5.04 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 7 | 5.04 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 18 | 5.04 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 18 | 5.04 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 18 | 5.04 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 13 | 5.04 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 20 | 5.04 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 20 | 5.04 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 20 | 5.04 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 14 | 5.04 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 14 | 5.04 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 14 | 5.04 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 17 | 5.04 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 17 | 5.04 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 17 | 5.04 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 3 | 5.04 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 3 | 5.04 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 3 | 5.04 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 3 | 5.04 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 3 | 5.04 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 3 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 8 | 5.04 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 8 | 5.04 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 8 | 5.04 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 9 | 5.04 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 9 | 5.04 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 9 | 5.04 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 3 | 5.04 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 3 | 5.04 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 3 | 5.04 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 17 | 5.04 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 6 | 5.04 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 6 | 5.04 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 6 | 5.04 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 6 | 5.04 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 6 | 5.04 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 6 | 5.04 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 12 | 5.04 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 12 | 5.04 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 13 | 5.04 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 4 | 5.04 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 4 | 5.04 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 4 | 5.04 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 4 | 5.04 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 4 | 5.04 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 18 | 5.04 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 18 | 5.04 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 15 | 5.04 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 15 | 5.04 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 15 | 5.04 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 10 | 5.04 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 11 | 5.04 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 7 | 5.04 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 17 | 5.04 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 17 | 5.04 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 11 | 5.04 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 11 | 5.04 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 4 | 5.04 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 12 | 5.04 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 1 | 5.04 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 5 | 5.04 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 5 | 5.04 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 5 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 2 | 5.04 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 2 | 5.04 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 2 | 5.04 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 11 | 5.04 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 11 | 5.04 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 11 | 5.04 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 18 | 5.04 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 18 | 5.04 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 11 | 5.04 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 11 | 5.04 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 11 | 5.04 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 9 | 5.04 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 8 | 5.04 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 16 | 5.04 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 17 | 5.04 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 17 | 5.04 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 17 | 5.04 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 5 | 5.04 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 5 | 5.04 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 5 | 5.04 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 5 | 5.04 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 12 | 5.04 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 11 | 5.04 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 11 | 5.04 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 18 | 5.04 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 16 | 5.04 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 5.04 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 16 | 5.04 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 17 | 5.04 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 17 | 5.04 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 9 | 5.04 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 9 | 5.04 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 9 | 5.04 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 2 | 5.04 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 2 | 5.04 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 2 | 5.04 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 6 | 5.04 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 6 | 5.04 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 6 | 5.04 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 19 | 5.04 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 19 | 5.04 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 19 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 19 | 5.04 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 19 | 5.04 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 19 | 5.04 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 19 | 5.04 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 19 | 5.04 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 19 | 5.04 |
| (1,3344) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 8 | 5.04 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 13 | 5.04 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 13 | 5.04 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 11 | 5.04 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 12 | 5.04 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 4 | 5.04 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 2 | 5.04 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 2 | 5.04 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 14 | 5.04 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 14 | 5.04 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 14 | 5.04 |
| (1,2788) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 17 | 5.04 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 18 | 5.04 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 15 | 5.04 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 15 | 5.04 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 15 | 5.04 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 15 | 5.04 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 15 | 5.04 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 15 | 5.04 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 15 | 5.04 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 15 | 5.04 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 15 | 5.04 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 5 | 5.04 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 9 | 5.04 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 9 | 5.04 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 9 | 5.04 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 2 | 5.04 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 2 | 5.04 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 5 | 5.04 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 5 | 5.04 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 5 | 5.04 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 5 | 5.04 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 5 | 5.04 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 5 | 5.04 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 3 | 5.04 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 3 | 5.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 3 | 5.04 |
| (1,2192) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 3 | 5.04 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 17 | 5.04 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 17 | 5.04 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 17 | 5.04 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 9 | 5.04 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 16 | 5.04 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 16 | 5.04 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 13 | 5.04 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 8 | 5.04 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 8 | 5.04 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 8 | 5.04 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 12 | 5.04 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 12 | 5.04 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 12 | 5.04 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 4 | 5.04 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 4 | 5.04 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 4 | 5.04 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 15 | 5.04 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 13 | 5.04 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 12 | 5.04 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 12 | 5.04 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 10 | 5.04 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 12 | 5.04 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 5 | 5.04 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 9 | 5.04 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 9 | 5.04 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 9 | 5.04 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 9 | 5.04 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 9 | 5.04 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 9 | 5.04 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 9 | 5.04 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 20 | 5.04 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 16 | 5.04 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 16 | 5.04 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 16 | 5.04 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 14 | 5.03 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 14 | 5.03 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 14 | 5.03 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 14 | 5.03 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 14 | 5.03 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 14 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 14 | 5.03 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 11 | 5.03 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 11 | 5.03 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 13 | 5.03 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 13 | 5.03 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 2 | 5.03 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 2 | 5.03 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 2 | 5.03 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 2 | 5.03 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 2 | 5.03 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 2 | 5.03 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 14 | 5.03 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 14 | 5.03 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 2 | 5.03 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 2 | 5.03 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 13 | 5.03 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 13 | 5.03 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 18 | 5.03 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 18 | 5.03 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 1 | 5.03 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 1 | 5.03 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 8 | 5.03 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 8 | 5.03 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 12 | 5.03 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 12 | 5.03 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 12 | 5.03 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 12 | 5.03 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 12 | 5.03 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 12 | 5.03 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 3 | 5.03 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 3 | 5.03 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 12 | 5.03 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 12 | 5.03 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 12 | 5.03 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 12 | 5.03 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 12 | 5.03 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 12 | 5.03 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 12 | 5.03 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 12 | 5.03 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 12 | 5.03 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 12 | 5.03 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 8 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 8 | 5.03 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 2 | 5.03 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 2 | 5.03 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 2 | 5.03 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 2 | 5.03 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 2 | 5.03 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 2 | 5.03 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 16 | 5.03 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 16 | 5.03 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 16 | 5.03 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 16 | 5.03 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 16 | 5.03 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 16 | 5.03 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 17 | 5.03 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 17 | 5.03 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 17 | 5.03 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 17 | 5.03 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 7 | 5.03 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 7 | 5.03 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 15 | 5.03 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 15 | 5.03 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 20 | 5.03 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 20 | 5.03 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 5.03 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 5.03 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 9 | 5.03 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 9 | 5.03 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 20 | 5.03 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 5.03 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 4 | 5.03 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 4 | 5.03 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 16 | 5.03 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 16 | 5.03 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 16 | 5.03 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 16 | 5.03 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 2 | 5.03 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 2 | 5.03 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 9 | 5.03 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 9 | 5.03 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 9 | 5.03 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 9 | 5.03 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 3 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 3 | 5.03 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 6 | 5.03 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 6 | 5.03 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 12 | 5.03 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 12 | 5.03 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 17 | 5.03 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 17 | 5.03 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 17 | 5.03 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 17 | 5.03 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 17 | 5.03 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 17 | 5.03 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 4 | 5.03 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 4 | 5.03 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 10 | 5.03 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 10 | 5.03 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 16 | 5.03 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 16 | 5.03 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 17 | 5.03 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 17 | 5.03 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 17 | 5.03 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 17 | 5.03 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 17 | 5.03 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 17 | 5.03 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 17 | 5.03 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 17 | 5.03 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 17 | 5.03 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 3 | 5.03 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 3 | 5.03 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 3 | 5.03 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 8 | 5.03 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 8 | 5.03 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 8 | 5.03 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 18 | 5.03 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 18 | 5.03 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 18 | 5.03 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 2 | 5.03 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 9 | 5.03 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 6 | 5.03 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 18 | 5.03 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 2 | 5.03 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 16 | 5.03 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD21 | 12 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD22 | 12 | 5.03 |
| (1,8202) | 1:105:A:SER:HB3 | 1:106:A:LEU:HD23 | 12 | 5.03 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 11 | 5.03 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 11 | 5.03 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 11 | 5.03 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 10 | 5.03 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 14 | 5.03 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 17 | 5.03 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 17 | 5.03 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 17 | 5.03 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 17 | 5.03 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 17 | 5.03 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 17 | 5.03 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 17 | 5.03 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 17 | 5.03 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 17 | 5.03 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 3 | 5.03 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 3 | 5.03 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 3 | 5.03 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 11 | 5.03 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 11 | 5.03 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 11 | 5.03 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 16 | 5.03 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 18 | 5.03 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 8 | 5.03 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 8 | 5.03 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 8 | 5.03 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 10 | 5.03 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 7 | 5.03 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 7 | 5.03 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 13 | 5.03 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 13 | 5.03 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 9 | 5.03 |
| (1,7866) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HB | 6 | 5.03 |
| (1,7866) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HB | 6 | 5.03 |
| (1,7866) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HB | 6 | 5.03 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 12 | 5.03 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 12 | 5.03 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 12 | 5.03 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 3 | 5.03 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 3 | 5.03 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 3 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 11 | 5.03 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 17 | 5.03 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 8 | 5.03 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 8 | 5.03 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 16 | 5.03 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 6 | 5.03 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 6 | 5.03 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 6 | 5.03 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 6 | 5.03 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 6 | 5.03 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 6 | 5.03 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 6 | 5.03 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 6 | 5.03 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 6 | 5.03 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 5 | 5.03 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 6 | 5.03 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 6 | 5.03 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 4 | 5.03 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 19 | 5.03 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 18 | 5.03 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 13 | 5.03 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 13 | 5.03 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 18 | 5.03 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 18 | 5.03 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 19 | 5.03 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 5 | 5.03 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 8 | 5.03 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 8 | 5.03 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 8 | 5.03 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 8 | 5.03 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 8 | 5.03 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 8 | 5.03 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 4 | 5.03 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 3 | 5.03 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 10 | 5.03 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 14 | 5.03 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 5 | 5.03 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 5 | 5.03 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 5 | 5.03 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 1 | 5.03 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 1 | 5.03 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 1 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 1 | 5.03 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 1 | 5.03 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 1 | 5.03 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 12 | 5.03 |
| (1,7191) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 13 | 5.03 |
| (1,7191) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 13 | 5.03 |
| (1,7191) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 13 | 5.03 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 12 | 5.03 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 12 | 5.03 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 4 | 5.03 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 4 | 5.03 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 4 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 13 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 13 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 13 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 13 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 13 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 13 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 17 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 17 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 17 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 17 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 17 | 5.03 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 17 | 5.03 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 7 | 5.03 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 7 | 5.03 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 7 | 5.03 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 11 | 5.03 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 11 | 5.03 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 11 | 5.03 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 4 | 5.03 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 4 | 5.03 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 7 | 5.03 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 16 | 5.03 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 5 | 5.03 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 3 | 5.03 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 13 | 5.03 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 13 | 5.03 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 13 | 5.03 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 8 | 5.03 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 13 | 5.03 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 1 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 8 | 5.03 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 8 | 5.03 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 7 | 5.03 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 11 | 5.03 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 11 | 5.03 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 11 | 5.03 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 13 | 5.03 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 13 | 5.03 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 13 | 5.03 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 3 | 5.03 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 3 | 5.03 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 6 | 5.03 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 6 | 5.03 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 6 | 5.03 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 2 | 5.03 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 14 | 5.03 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 13 | 5.03 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 2 | 5.03 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 2 | 5.03 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 2 | 5.03 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 19 | 5.03 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 15 | 5.03 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 14 | 5.03 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 2 | 5.03 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 12 | 5.03 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 12 | 5.03 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 12 | 5.03 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 17 | 5.03 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 5 | 5.03 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 17 | 5.03 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 17 | 5.03 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 17 | 5.03 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 17 | 5.03 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 17 | 5.03 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 17 | 5.03 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 12 | 5.03 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 12 | 5.03 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 12 | 5.03 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 11 | 5.03 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 11 | 5.03 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 11 | 5.03 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 11 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 11 | 5.03 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 11 | 5.03 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 13 | 5.03 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 13 | 5.03 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 13 | 5.03 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 11 | 5.03 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 9 | 5.03 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 9 | 5.03 |
| (1,5214) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 9 | 5.03 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 8 | 5.03 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 7 | 5.03 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 19 | 5.03 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 1 | 5.03 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 12 | 5.03 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 12 | 5.03 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 12 | 5.03 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 3 | 5.03 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 3 | 5.03 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 3 | 5.03 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 6 | 5.03 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 6 | 5.03 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 6 | 5.03 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 19 | 5.03 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 19 | 5.03 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 19 | 5.03 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 5.03 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 5.03 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 5.03 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 2 | 5.03 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 2 | 5.03 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 18 | 5.03 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 18 | 5.03 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 8 | 5.03 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 9 | 5.03 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 7 | 5.03 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 7 | 5.03 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 7 | 5.03 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 3 | 5.03 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 7 | 5.03 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 1 | 5.03 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 1 | 5.03 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 8 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 8 | 5.03 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 12 | 5.03 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 12 | 5.03 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 12 | 5.03 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 12 | 5.03 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 12 | 5.03 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 12 | 5.03 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 7 | 5.03 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 7 | 5.03 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 7 | 5.03 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 16 | 5.03 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 16 | 5.03 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 16 | 5.03 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 16 | 5.03 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 16 | 5.03 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 16 | 5.03 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 11 | 5.03 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 20 | 5.03 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 20 | 5.03 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 5.03 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 5.03 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 20 | 5.03 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 5.03 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 6 | 5.03 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 2 | 5.03 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 2 | 5.03 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 14 | 5.03 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 8 | 5.03 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 8 | 5.03 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 8 | 5.03 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 16 | 5.03 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 9 | 5.03 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 11 | 5.03 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 11 | 5.03 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 3 | 5.03 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 3 | 5.03 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 3 | 5.03 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 4 | 5.03 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 4 | 5.03 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 10 | 5.03 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 10 | 5.03 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 12 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 9 | 5.03 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 1 | 5.03 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 1 | 5.03 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 1 | 5.03 |
| (1,3348) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 13 | 5.03 |
| (1,3348) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 13 | 5.03 |
| (1,3348) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 13 | 5.03 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 12 | 5.03 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 12 | 5.03 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 16 | 5.03 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 4 | 5.03 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 4 | 5.03 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 4 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 13 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 13 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 13 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 13 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 13 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 13 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 17 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 17 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 17 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 17 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 17 | 5.03 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 17 | 5.03 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 7 | 5.03 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 7 | 5.03 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 7 | 5.03 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 11 | 5.03 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 11 | 5.03 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 11 | 5.03 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 4 | 5.03 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 4 | 5.03 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 6 | 5.03 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 10 | 5.03 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 7 | 5.03 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 16 | 5.03 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 5 | 5.03 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 3 | 5.03 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 13 | 5.03 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 13 | 5.03 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 13 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 8 | 5.03 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 13 | 5.03 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 1 | 5.03 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 8 | 5.03 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 18 | 5.03 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 8 | 5.03 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 7 | 5.03 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 18 | 5.03 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 18 | 5.03 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 18 | 5.03 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 10 | 5.03 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 10 | 5.03 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 10 | 5.03 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 9 | 5.03 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 9 | 5.03 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 9 | 5.03 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 11 | 5.03 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 11 | 5.03 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 11 | 5.03 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 9 | 5.03 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 9 | 5.03 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 8 | 5.03 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 13 | 5.03 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 13 | 5.03 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 13 | 5.03 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 3 | 5.03 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 3 | 5.03 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 15 | 5.03 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 15 | 5.03 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 6 | 5.03 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 6 | 5.03 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 6 | 5.03 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 16 | 5.03 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 2 | 5.03 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 14 | 5.03 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 13 | 5.03 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 2 | 5.03 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 2 | 5.03 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 2 | 5.03 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 19 | 5.03 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 15 | 5.03 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 14 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 2 | 5.03 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 12 | 5.03 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 12 | 5.03 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 12 | 5.03 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 17 | 5.03 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 5 | 5.03 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 17 | 5.03 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 17 | 5.03 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 17 | 5.03 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 17 | 5.03 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 17 | 5.03 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 17 | 5.03 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 12 | 5.03 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 12 | 5.03 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 12 | 5.03 |
| (1,606) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 7 | 5.03 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 11 | 5.03 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 11 | 5.03 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 11 | 5.03 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 11 | 5.03 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 11 | 5.03 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 11 | 5.03 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 4 | 5.03 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 4 | 5.03 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 4 | 5.03 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 4 | 5.03 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 4 | 5.03 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 4 | 5.03 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 9 | 5.03 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 9 | 5.03 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 9 | 5.03 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 9 | 5.03 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 9 | 5.03 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 9 | 5.03 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 15 | 5.03 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 15 | 5.03 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 15 | 5.03 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 8 | 5.02 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 4 | 5.02 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 4 | 5.02 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 11 | 5.02 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 11 | 5.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 12 | 5.02 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 12 | 5.02 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 13 | 5.02 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 13 | 5.02 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 2 | 5.02 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 2 | 5.02 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 11 | 5.02 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 11 | 5.02 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 9 | 5.02 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 9 | 5.02 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 9 | 5.02 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 9 | 5.02 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 9 | 5.02 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 9 | 5.02 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 8 | 5.02 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 8 | 5.02 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 10 | 5.02 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 10 | 5.02 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 6 | 5.02 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 6 | 5.02 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 6 | 5.02 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 6 | 5.02 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 6 | 5.02 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 6 | 5.02 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 6 | 5.02 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 6 | 5.02 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 6 | 5.02 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 6 | 5.02 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 18 | 5.02 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 18 | 5.02 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 8 | 5.02 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 8 | 5.02 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 1 | 5.02 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 1 | 5.02 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 9 | 5.02 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 9 | 5.02 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 4 | 5.02 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 4 | 5.02 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 8 | 5.02 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 8 | 5.02 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 6 | 5.02 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 6 | 5.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 6 | 5.02 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 6 | 5.02 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 6 | 5.02 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 6 | 5.02 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 1 | 5.02 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 1 | 5.02 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 20 | 5.02 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 20 | 5.02 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 20 | 5.02 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 11 | 5.02 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 6 | 5.02 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 11 | 5.02 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 9 | 5.02 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 15 | 5.02 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 2 | 5.02 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 11 | 5.02 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 19 | 5.02 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 8 | 5.02 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 8 | 5.02 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 8 | 5.02 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 11 | 5.02 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 11 | 5.02 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 11 | 5.02 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 8 | 5.02 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 14 | 5.02 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 14 | 5.02 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 1 | 5.02 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 1 | 5.02 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 1 | 5.02 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 4 | 5.02 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 11 | 5.02 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 11 | 5.02 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 11 | 5.02 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 3 | 5.02 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 14 | 5.02 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 14 | 5.02 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 12 | 5.02 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 12 | 5.02 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 12 | 5.02 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 14 | 5.02 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 14 | 5.02 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 16 | 5.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 16 | 5.02 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 16 | 5.02 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 17 | 5.02 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 17 | 5.02 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 17 | 5.02 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 9 | 5.02 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 9 | 5.02 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 9 | 5.02 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 9 | 5.02 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 6 | 5.02 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 6 | 5.02 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 6 | 5.02 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 1 | 5.02 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 10 | 5.02 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 10 | 5.02 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 17 | 5.02 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 11 | 5.02 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 11 | 5.02 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 11 | 5.02 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 8 | 5.02 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 1 | 5.02 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 6 | 5.02 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 6 | 5.02 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 6 | 5.02 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 2 | 5.02 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 2 | 5.02 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 2 | 5.02 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 2 | 5.02 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 2 | 5.02 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 2 | 5.02 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 2 | 5.02 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 2 | 5.02 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 2 | 5.02 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 5 | 5.02 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 10 | 5.02 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 10 | 5.02 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 10 | 5.02 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 10 | 5.02 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 10 | 5.02 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 10 | 5.02 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 9 | 5.02 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 9 | 5.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 10 | 5.02 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 10 | 5.02 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 10 | 5.02 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 10 | 5.02 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 16 | 5.02 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 16 | 5.02 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 16 | 5.02 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 16 | 5.02 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 2 | 5.02 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 4 | 5.02 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 10 | 5.02 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 20 | 5.02 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 6 | 5.02 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 10 | 5.02 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 9 | 5.02 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 1 | 5.02 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 1 | 5.02 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 10 | 5.02 |
| (1,7532) | 1:14:A:ARG:H | 1:25:A:PHE:HB3 | 12 | 5.02 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 7 | 5.02 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 12 | 5.02 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 2 | 5.02 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 9 | 5.02 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 9 | 5.02 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 8 | 5.02 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 8 | 5.02 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 8 | 5.02 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 2 | 5.02 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 20 | 5.02 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 11 | 5.02 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 11 | 5.02 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 11 | 5.02 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 11 | 5.02 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 11 | 5.02 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 11 | 5.02 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 11 | 5.02 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 11 | 5.02 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 11 | 5.02 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 11 | 5.02 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 20 | 5.02 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 20 | 5.02 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 15 | 5.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 15 | 5.02 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 14 | 5.02 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 14 | 5.02 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 14 | 5.02 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 1 | 5.02 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 1 | 5.02 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 11 | 5.02 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 14 | 5.02 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 3 | 5.02 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 3 | 5.02 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 3 | 5.02 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 10 | 5.02 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 7 | 5.02 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 12 | 5.02 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 1 | 5.02 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 14 | 5.02 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 14 | 5.02 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 14 | 5.02 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 14 | 5.02 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 14 | 5.02 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 14 | 5.02 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 14 | 5.02 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 14 | 5.02 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 14 | 5.02 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 11 | 5.02 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 3 | 5.02 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 9 | 5.02 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 9 | 5.02 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 20 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 11 | 5.02 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 11 | 5.02 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 19 | 5.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 12 | 5.02 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 12 | 5.02 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 12 | 5.02 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 12 | 5.02 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 12 | 5.02 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 12 | 5.02 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 19 | 5.02 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 19 | 5.02 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 19 | 5.02 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 3 | 5.02 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 3 | 5.02 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 3 | 5.02 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 18 | 5.02 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 18 | 5.02 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 5 | 5.02 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 5 | 5.02 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 5 | 5.02 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 5 | 5.02 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 5 | 5.02 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 5 | 5.02 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 10 | 5.02 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 1 | 5.02 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 1 | 5.02 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 1 | 5.02 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 14 | 5.02 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 19 | 5.02 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 19 | 5.02 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 19 | 5.02 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 4 | 5.02 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 4 | 5.02 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 2 | 5.02 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 4 | 5.02 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 4 | 5.02 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 11 | 5.02 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 11 | 5.02 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 11 | 5.02 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 11 | 5.02 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 18 | 5.02 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 18 | 5.02 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 18 | 5.02 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 18 | 5.02 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 14 | 5.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 14 | 5.02 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 14 | 5.02 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 15 | 5.02 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 15 | 5.02 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 15 | 5.02 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 5 | 5.02 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 8 | 5.02 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 8 | 5.02 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 3 | 5.02 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 3 | 5.02 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 3 | 5.02 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 3 | 5.02 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 8 | 5.02 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 8 | 5.02 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 11 | 5.02 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 1 | 5.02 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 2 | 5.02 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 2 | 5.02 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 2 | 5.02 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 4 | 5.02 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 4 | 5.02 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 4 | 5.02 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 13 | 5.02 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 9 | 5.02 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 9 | 5.02 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 4 | 5.02 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 4 | 5.02 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 15 | 5.02 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 15 | 5.02 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 2 | 5.02 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 8 | 5.02 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 8 | 5.02 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 8 | 5.02 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 8 | 5.02 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 9 | 5.02 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 9 | 5.02 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 19 | 5.02 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 19 | 5.02 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 19 | 5.02 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 6 | 5.02 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 6 | 5.02 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 6 | 5.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 6 | 5.02 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 6 | 5.02 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 6 | 5.02 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 13 | 5.02 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 16 | 5.02 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 16 | 5.02 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 20 | 5.02 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 20 | 5.02 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 15 | 5.02 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 15 | 5.02 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 2 | 5.02 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 18 | 5.02 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 14 | 5.02 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 14 | 5.02 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 14 | 5.02 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 1 | 5.02 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 1 | 5.02 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 18 | 5.02 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 11 | 5.02 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 18 | 5.02 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 14 | 5.02 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 17 | 5.02 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 17 | 5.02 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 17 | 5.02 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 3 | 5.02 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 3 | 5.02 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 3 | 5.02 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 5.02 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 7 | 5.02 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 12 | 5.02 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 1 | 5.02 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 15 | 5.02 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 13 | 5.02 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 5.02 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 5.02 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 5.02 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 14 | 5.02 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 14 | 5.02 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 14 | 5.02 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 14 | 5.02 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 14 | 5.02 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 14 | 5.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 14 | 5.02 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 14 | 5.02 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 14 | 5.02 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 11 | 5.02 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 3 | 5.02 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 9 | 5.02 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 9 | 5.02 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 20 | 5.02 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 19 | 5.02 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 12 | 5.02 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 12 | 5.02 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 12 | 5.02 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 12 | 5.02 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 12 | 5.02 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 12 | 5.02 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 19 | 5.02 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 19 | 5.02 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 19 | 5.02 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 3 | 5.02 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 3 | 5.02 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 3 | 5.02 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 18 | 5.02 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 18 | 5.02 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 5 | 5.02 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 5 | 5.02 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 5 | 5.02 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 5 | 5.02 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 5 | 5.02 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 5 | 5.02 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 8 | 5.02 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 8 | 5.02 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 8 | 5.02 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 19 | 5.02 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 19 | 5.02 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 19 | 5.02 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 5 | 5.02 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 16 | 5.01 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 19 | 5.01 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 8 | 5.01 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 8 | 5.01 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG21 | 2 | 5.01 |
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG22 | 2 | 5.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9498) | 1:134:A:PHE:HB2 | 1:150:A:VAL:HG23 | 2 | 5.01 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG21 | 2 | 5.01 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG22 | 2 | 5.01 |
| (1,9498) | 1:134:A:PHE:HB3 | 1:150:A:VAL:HG23 | 2 | 5.01 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 4 | 5.01 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 4 | 5.01 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 11 | 5.01 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 11 | 5.01 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 19 | 5.01 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 19 | 5.01 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 18 | 5.01 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 18 | 5.01 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 20 | 5.01 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 20 | 5.01 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 15 | 5.01 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 15 | 5.01 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 20 | 5.01 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 20 | 5.01 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 17 | 5.01 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 17 | 5.01 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 20 | 5.01 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 5.01 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 12 | 5.01 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 12 | 5.01 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 4 | 5.01 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 4 | 5.01 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 18 | 5.01 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 18 | 5.01 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 11 | 5.01 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 11 | 5.01 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 11 | 5.01 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 11 | 5.01 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 11 | 5.01 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 11 | 5.01 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 3 | 5.01 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 3 | 5.01 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 13 | 5.01 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 13 | 5.01 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 13 | 5.01 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 13 | 5.01 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 20 | 5.01 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 20 | 5.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 20 | 5.01 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 20 | 5.01 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 20 | 5.01 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 20 | 5.01 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 16 | 5.01 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 16 | 5.01 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 1 | 5.01 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 1 | 5.01 |
| (1,8478) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 1 | 5.01 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 19 | 5.01 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 19 | 5.01 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 19 | 5.01 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 18 | 5.01 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 15 | 5.01 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 13 | 5.01 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 13 | 5.01 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 13 | 5.01 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 13 | 5.01 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 13 | 5.01 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 13 | 5.01 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 16 | 5.01 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 16 | 5.01 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 16 | 5.01 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 17 | 5.01 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 17 | 5.01 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 1 | 5.01 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 11 | 5.01 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 6 | 5.01 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 17 | 5.01 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 17 | 5.01 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 17 | 5.01 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 8 | 5.01 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 13 | 5.01 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 13 | 5.01 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 13 | 5.01 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 12 | 5.01 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 12 | 5.01 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 12 | 5.01 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 4 | 5.01 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 16 | 5.01 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 16 | 5.01 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 1 | 5.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 1 | 5.01 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 1 | 5.01 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 9 | 5.01 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 9 | 5.01 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 9 | 5.01 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 12 | 5.01 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 12 | 5.01 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 12 | 5.01 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 14 | 5.01 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 16 | 5.01 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 16 | 5.01 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 16 | 5.01 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 9 | 5.01 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 9 | 5.01 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 10 | 5.01 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 5 | 5.01 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 17 | 5.01 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 17 | 5.01 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 17 | 5.01 |
| (1,7854) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 4 | 5.01 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 17 | 5.01 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 17 | 5.01 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 17 | 5.01 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 5 | 5.01 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 5 | 5.01 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 5 | 5.01 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 5 | 5.01 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 5 | 5.01 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 5 | 5.01 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 2 | 5.01 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 14 | 5.01 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 14 | 5.01 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 14 | 5.01 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 10 | 5.01 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 7 | 5.01 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 19 | 5.01 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 19 | 5.01 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 19 | 5.01 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 19 | 5.01 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 19 | 5.01 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 19 | 5.01 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 16 | 5.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 19 | 5.01 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 9 | 5.01 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 19 | 5.01 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 19 | 5.01 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 19 | 5.01 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 3 | 5.01 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 3 | 5.01 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 3 | 5.01 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 12 | 5.01 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 12 | 5.01 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 12 | 5.01 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 11 | 5.01 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 20 | 5.01 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 20 | 5.01 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 19 | 5.01 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 19 | 5.01 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 19 | 5.01 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 13 | 5.01 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 7 | 5.01 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 7 | 5.01 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 7 | 5.01 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 17 | 5.01 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 17 | 5.01 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 17 | 5.01 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 16 | 5.01 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 11 | 5.01 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 11 | 5.01 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 10 | 5.01 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 11 | 5.01 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 9 | 5.01 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 10 | 5.01 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 17 | 5.01 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 17 | 5.01 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 17 | 5.01 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 9 | 5.01 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 9 | 5.01 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 9 | 5.01 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 1 | 5.01 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 16 | 5.01 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 20 | 5.01 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 10 | 5.01 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 2 | 5.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 2 | 5.01 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 2 | 5.01 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 19 | 5.01 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 19 | 5.01 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 19 | 5.01 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 2 | 5.01 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 16 | 5.01 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 16 | 5.01 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 9 | 5.01 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 9 | 5.01 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 9 | 5.01 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 11 | 5.01 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 8 | 5.01 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 7 | 5.01 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 16 | 5.01 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 16 | 5.01 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 16 | 5.01 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 18 | 5.01 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 16 | 5.01 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 15 | 5.01 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 9 | 5.01 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 9 | 5.01 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 9 | 5.01 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 1 | 5.01 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 20 | 5.01 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 20 | 5.01 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 7 | 5.01 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 15 | 5.01 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 15 | 5.01 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 15 | 5.01 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 2 | 5.01 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 2 | 5.01 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 2 | 5.01 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 8 | 5.01 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 8 | 5.01 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 13 | 5.01 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 14 | 5.01 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 14 | 5.01 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 1 | 5.01 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 14 | 5.01 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 16 | 5.01 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 5.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 3 | 5.01 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 3 | 5.01 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 1 | 5.01 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 13 | 5.01 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 14 | 5.01 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 14 | 5.01 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 19 | 5.01 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 19 | 5.01 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 10 | 5.01 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 12 | 5.01 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 16 | 5.01 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 19 | 5.01 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 6 | 5.01 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 6 | 5.01 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 20 | 5.01 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 5.01 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 4 | 5.01 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 4 | 5.01 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 12 | 5.01 |
| (1,3696) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 12 | 5.01 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 8 | 5.01 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 8 | 5.01 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 11 | 5.01 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 11 | 5.01 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 11 | 5.01 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 11 | 5.01 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 11 | 5.01 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 11 | 5.01 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 17 | 5.01 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 19 | 5.01 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 5.01 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 5.01 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 5.01 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 19 | 5.01 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 19 | 5.01 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 19 | 5.01 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 19 | 5.01 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 19 | 5.01 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 13 | 5.01 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 7 | 5.01 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 7 | 5.01 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 7 | 5.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 3 | 5.01 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 7 | 5.01 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 13 | 5.01 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 5.01 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 1 | 5.01 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 1 | 5.01 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 1 | 5.01 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 17 | 5.01 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 17 | 5.01 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 17 | 5.01 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 16 | 5.01 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 11 | 5.01 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 11 | 5.01 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 10 | 5.01 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 11 | 5.01 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 20 | 5.01 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 20 | 5.01 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 20 | 5.01 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 9 | 5.01 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 17 | 5.01 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 17 | 5.01 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 17 | 5.01 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 9 | 5.01 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 9 | 5.01 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 9 | 5.01 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 1 | 5.01 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 16 | 5.01 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 20 | 5.01 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 10 | 5.01 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 17 | 5.01 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 2 | 5.01 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 2 | 5.01 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 2 | 5.01 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 19 | 5.01 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 19 | 5.01 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 19 | 5.01 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 2 | 5.01 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 13 | 5.01 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 15 | 5.01 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 16 | 5.01 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 16 | 5.01 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 9 | 5.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 9 | 5.01 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 9 | 5.01 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 5 | 5.01 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 11 | 5.01 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 8 | 5.01 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 7 | 5.01 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 6 | 5.01 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 19 | 5.01 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 19 | 5.01 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 9 | 5.01 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 6 | 5.01 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 6 | 5.01 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 6 | 5.01 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 16 | 5.01 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 16 | 5.01 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 16 | 5.01 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 5.01 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 18 | 5.01 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 11 | 5.01 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 3 | 5.01 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 3 | 5.01 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 3 | 5.01 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 10 | 5.0 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 18 | 5.0 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 18 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 6 | 5.0 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 6 | 5.0 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 4 | 5.0 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 4 | 5.0 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 3 | 5.0 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 3 | 5.0 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 5 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 5 | 5.0 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 13 | 5.0 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 13 | 5.0 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 13 | 5.0 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 13 | 5.0 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 13 | 5.0 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 13 | 5.0 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 3 | 5.0 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 3 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 2 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 2 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 2 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 2 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 2 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 2 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 5 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 5 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 5 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 5 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 5 | 5.0 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 5 | 5.0 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 3 | 5.0 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 3 | 5.0 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 12 | 5.0 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 12 | 5.0 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 7 | 5.0 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 7 | 5.0 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 7 | 5.0 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 7 | 5.0 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 6 | 5.0 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 6 | 5.0 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 13 | 5.0 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 13 | 5.0 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 20 | 5.0 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 20 | 5.0 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 8 | 5.0 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 8 | 5.0 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 8 | 5.0 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 8 | 5.0 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 8 | 5.0 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 8 | 5.0 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 4 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 4 | 5.0 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 11 | 5.0 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 11 | 5.0 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 14 | 5.0 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 14 | 5.0 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 18 | 5.0 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 18 | 5.0 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 10 | 5.0 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 10 | 5.0 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 19 | 5.0 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 19 | 5.0 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 19 | 5.0 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 19 | 5.0 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 17 | 5.0 |
| (1,8865) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 17 | 5.0 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 17 | 5.0 |
| (1,8865) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 17 | 5.0 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 17 | 5.0 |
| (1,8865) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 17 | 5.0 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 8 | 5.0 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 8 | 5.0 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 3 | 5.0 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 3 | 5.0 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 3 | 5.0 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 3 | 5.0 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 3 | 5.0 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 3 | 5.0 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 13 | 5.0 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 13 | 5.0 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 6 | 5.0 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 6 | 5.0 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 18 | 5.0 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 18 | 5.0 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 18 | 5.0 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 18 | 5.0 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 10 | 5.0 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 10 | 5.0 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 18 | 5.0 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 18 | 5.0 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 18 | 5.0 |
| (1,8472) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HA | 6 | 5.0 |
| (1,8472) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HA | 6 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8472) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HA | 6 | 5.0 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 10 | 5.0 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 10 | 5.0 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 10 | 5.0 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 20 | 5.0 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 13 | 5.0 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 13 | 5.0 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 13 | 5.0 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 17 | 5.0 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 17 | 5.0 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 4 | 5.0 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 9 | 5.0 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 9 | 5.0 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 7 | 5.0 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 19 | 5.0 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 19 | 5.0 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 9 | 5.0 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 9 | 5.0 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 1 | 5.0 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 1 | 5.0 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 5 | 5.0 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 5 | 5.0 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 5 | 5.0 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 12 | 5.0 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 12 | 5.0 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 12 | 5.0 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 18 | 5.0 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 18 | 5.0 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 18 | 5.0 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 20 | 5.0 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 20 | 5.0 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 20 | 5.0 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 18 | 5.0 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 4 | 5.0 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 7 | 5.0 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 17 | 5.0 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 17 | 5.0 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 17 | 5.0 |
| (1,8048) | 1:88:A:LEU:HB3 | 1:91:A:GLY:H | 3 | 5.0 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 20 | 5.0 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 20 | 5.0 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 20 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 18 | 5.0 |
| (1,7920) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 19 | 5.0 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 18 | 5.0 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 15 | 5.0 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 4 | 5.0 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 3 | 5.0 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 3 | 5.0 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 3 | 5.0 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 3 | 5.0 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 3 | 5.0 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 3 | 5.0 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 18 | 5.0 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 18 | 5.0 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 18 | 5.0 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 9 | 5.0 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 9 | 5.0 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 9 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 4 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 4 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 4 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 4 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 4 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 4 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 4 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 4 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 4 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 17 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 17 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 17 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 17 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 17 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 17 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 17 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 17 | 5.0 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 17 | 5.0 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 17 | 5.0 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 17 | 5.0 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 17 | 5.0 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 17 | 5.0 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 17 | 5.0 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 17 | 5.0 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 19 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 15 | 5.0 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 19 | 5.0 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 19 | 5.0 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 17 | 5.0 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 17 | 5.0 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 17 | 5.0 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 17 | 5.0 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 17 | 5.0 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 17 | 5.0 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 6 | 5.0 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 16 | 5.0 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 16 | 5.0 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 18 | 5.0 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 14 | 5.0 |
| (1,7552) | 1:21:A:ARG:HB2 | 1:23:A:TYR:H | 19 | 5.0 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 6 | 5.0 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 14 | 5.0 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 14 | 5.0 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 16 | 5.0 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 16 | 5.0 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 4 | 5.0 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 5 | 5.0 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 5 | 5.0 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 18 | 5.0 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 8 | 5.0 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 8 | 5.0 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 8 | 5.0 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 17 | 5.0 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 15 | 5.0 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 15 | 5.0 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 20 | 5.0 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 20 | 5.0 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 20 | 5.0 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 4 | 5.0 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 5.0 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 5.0 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 5.0 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 6 | 5.0 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 6 | 5.0 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 6 | 5.0 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 17 | 5.0 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 17 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 17 | 5.0 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 17 | 5.0 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 18 | 5.0 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 18 | 5.0 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 18 | 5.0 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 1 | 5.0 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 1 | 5.0 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 14 | 5.0 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 14 | 5.0 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 16 | 5.0 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 16 | 5.0 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 16 | 5.0 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 16 | 5.0 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 16 | 5.0 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 16 | 5.0 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 16 | 5.0 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 16 | 5.0 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 16 | 5.0 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 10 | 5.0 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 14 | 5.0 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 14 | 5.0 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 14 | 5.0 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 8 | 5.0 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 19 | 5.0 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 19 | 5.0 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 17 | 5.0 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 17 | 5.0 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 17 | 5.0 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 11 | 5.0 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 6 | 5.0 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 6 | 5.0 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 6 | 5.0 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 12 | 5.0 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 12 | 5.0 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 12 | 5.0 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 12 | 5.0 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 7 | 5.0 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 7 | 5.0 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 7 | 5.0 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 7 | 5.0 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 7 | 5.0 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 7 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 14 | 5.0 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 18 | 5.0 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 20 | 5.0 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 20 | 5.0 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 20 | 5.0 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 8 | 5.0 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 8 | 5.0 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 8 | 5.0 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 4 | 5.0 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 5 | 5.0 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 5 | 5.0 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 5 | 5.0 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 5 | 5.0 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 8 | 5.0 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 8 | 5.0 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 8 | 5.0 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 2 | 5.0 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 18 | 5.0 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 18 | 5.0 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 18 | 5.0 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 12 | 5.0 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 12 | 5.0 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 12 | 5.0 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 20 | 5.0 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 20 | 5.0 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 20 | 5.0 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 10 | 5.0 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 10 | 5.0 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 10 | 5.0 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 10 | 5.0 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 10 | 5.0 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 10 | 5.0 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 11 | 5.0 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 11 | 5.0 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 11 | 5.0 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 17 | 5.0 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 17 | 5.0 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 17 | 5.0 |
| (1,5167) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 4 | 5.0 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 20 | 5.0 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 9 | 5.0 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 2 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 9 | 5.0 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 18 | 5.0 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 1 | 5.0 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 1 | 5.0 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 1 | 5.0 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 4 | 5.0 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 4 | 5.0 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 4 | 5.0 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 7 | 5.0 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 7 | 5.0 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 7 | 5.0 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 11 | 5.0 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 16 | 5.0 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 16 | 5.0 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 16 | 5.0 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 18 | 5.0 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 18 | 5.0 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 5.0 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 5.0 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 5.0 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 5.0 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 5.0 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 5.0 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 18 | 5.0 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 18 | 5.0 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 5 | 5.0 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 2 | 5.0 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 12 | 5.0 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 17 | 5.0 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 4 | 5.0 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 4 | 5.0 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 13 | 5.0 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 3 | 5.0 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 3 | 5.0 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 3 | 5.0 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 3 | 5.0 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 3 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 2 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 2 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 2 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 2 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 2 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 2 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 5 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 5 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 5 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 5 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 5 | 5.0 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 5 | 5.0 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 9 | 5.0 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 1 | 5.0 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 7 | 5.0 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 7 | 5.0 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 7 | 5.0 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 3 | 5.0 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 3 | 5.0 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 15 | 5.0 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 4 | 5.0 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 15 | 5.0 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 2 | 5.0 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 13 | 5.0 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 18 | 5.0 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 6 | 5.0 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 6 | 5.0 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 6 | 5.0 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 3 | 5.0 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 3 | 5.0 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 3 | 5.0 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 3 | 5.0 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 3 | 5.0 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 3 | 5.0 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 9 | 5.0 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 9 | 5.0 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 9 | 5.0 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 9 | 5.0 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 9 | 5.0 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 9 | 5.0 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 3 | 5.0 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 3 | 5.0 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 6 | 5.0 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 6 | 5.0 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 11 | 5.0 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 11 | 5.0 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 9 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 19 | 5.0 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 4 | 5.0 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 17 | 5.0 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 5.0 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 5.0 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 5.0 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 6 | 5.0 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 6 | 5.0 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 6 | 5.0 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 14 | 5.0 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 19 | 5.0 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 17 | 5.0 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 17 | 5.0 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 17 | 5.0 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 17 | 5.0 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 18 | 5.0 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 18 | 5.0 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 18 | 5.0 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 7 | 5.0 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 7 | 5.0 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 1 | 5.0 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 1 | 5.0 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 14 | 5.0 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 14 | 5.0 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 16 | 5.0 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 16 | 5.0 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 16 | 5.0 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 16 | 5.0 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 16 | 5.0 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 16 | 5.0 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 16 | 5.0 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 16 | 5.0 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 16 | 5.0 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 10 | 5.0 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 14 | 5.0 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 14 | 5.0 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 14 | 5.0 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 8 | 5.0 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 5 | 5.0 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 5 | 5.0 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 5 | 5.0 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 6 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 6 | 5.0 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 6 | 5.0 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 6 | 5.0 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 17 | 5.0 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 17 | 5.0 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 17 | 5.0 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 11 | 5.0 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 5.0 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 13 | 5.0 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 13 | 5.0 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 13 | 5.0 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 2 | 5.0 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 5 | 5.0 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 5 | 5.0 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 5 | 5.0 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 5.0 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 5.0 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 5.0 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 6 | 5.0 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 6 | 5.0 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 6 | 5.0 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 13 | 5.0 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 19 | 5.0 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 19 | 5.0 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 19 | 5.0 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 16 | 5.0 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 16 | 5.0 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 16 | 5.0 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 12 | 5.0 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 12 | 5.0 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 12 | 5.0 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 12 | 5.0 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 7 | 5.0 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 7 | 5.0 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 7 | 5.0 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 7 | 5.0 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 7 | 5.0 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 7 | 5.0 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 14 | 5.0 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 14 | 5.0 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 14 | 5.0 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 4 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 3 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 3 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 3 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 12 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 12 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 12 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 13 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 13 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 13 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 15 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 15 | 5.0 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 15 | 5.0 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 18 | 5.0 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 20 | 5.0 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 20 | 5.0 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 20 | 5.0 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 8 | 5.0 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 8 | 5.0 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 8 | 5.0 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 4 | 5.0 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 5 | 5.0 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 2 | 5.0 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 2 | 5.0 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 2 | 5.0 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 2 | 5.0 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 2 | 5.0 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 2 | 5.0 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 5 | 5.0 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 5 | 5.0 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 5 | 5.0 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 8 | 5.0 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 8 | 5.0 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 8 | 5.0 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 2 | 5.0 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 17 | 5.0 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 17 | 5.0 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 17 | 5.0 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 18 | 5.0 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 18 | 5.0 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 18 | 5.0 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 11 | 5.0 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 11 | 5.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 11 | 5.0 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 12 | 5.0 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 12 | 5.0 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 12 | 5.0 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 20 | 5.0 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 20 | 5.0 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 20 | 5.0 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 9 | 5.0 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 10 | 5.0 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 10 | 5.0 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 10 | 5.0 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 10 | 5.0 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 10 | 5.0 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 10 | 5.0 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 5 | 5.0 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 5 | 5.0 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 5 | 5.0 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 5 | 5.0 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 5 | 5.0 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 5 | 5.0 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 15 | 5.0 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 15 | 5.0 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 15 | 5.0 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 15 | 5.0 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 15 | 5.0 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 15 | 5.0 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 15 | 5.0 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 15 | 5.0 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 15 | 5.0 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 12 | 4.99 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 15 | 4.99 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 13 | 4.99 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 8 | 4.99 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 8 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 11 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 11 | 4.99 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 11 | 4.99 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 17 | 4.99 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 17 | 4.99 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 17 | 4.99 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 17 | 4.99 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 17 | 4.99 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 17 | 4.99 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 4 | 4.99 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 4 | 4.99 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 4 | 4.99 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 4 | 4.99 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 7 | 4.99 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 7 | 4.99 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 7 | 4.99 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 7 | 4.99 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 7 | 4.99 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 7 | 4.99 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 2 | 4.99 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 2 | 4.99 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 2 | 4.99 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 2 | 4.99 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 2 | 4.99 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 2 | 4.99 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 10 | 4.99 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 10 | 4.99 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 10 | 4.99 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 10 | 4.99 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 10 | 4.99 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 10 | 4.99 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 5 | 4.99 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 5 | 4.99 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 6 | 4.99 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 6 | 4.99 |
| (1,9009) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 4 | 4.99 |
| (1,9009) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 4 | 4.99 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 16 | 4.99 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 16 | 4.99 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 3 | 4.99 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 3 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 3 | 4.99 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 3 | 4.99 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 3 | 4.99 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 3 | 4.99 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 6 | 4.99 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 6 | 4.99 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 6 | 4.99 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 6 | 4.99 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 6 | 4.99 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 6 | 4.99 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 18 | 4.99 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 18 | 4.99 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 9 | 4.99 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 9 | 4.99 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 3 | 4.99 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 3 | 4.99 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 3 | 4.99 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 3 | 4.99 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 5 | 4.99 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 5 | 4.99 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 9 | 4.99 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 9 | 4.99 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 1 | 4.99 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 1 | 4.99 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 1 | 4.99 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 1 | 4.99 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 1 | 4.99 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 1 | 4.99 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 1 | 4.99 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 1 | 4.99 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 1 | 4.99 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 18 | 4.99 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 18 | 4.99 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 18 | 4.99 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 18 | 4.99 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 18 | 4.99 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 18 | 4.99 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 18 | 4.99 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 18 | 4.99 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 18 | 4.99 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 3 | 4.99 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 16 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 17 | 4.99 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 17 | 4.99 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 17 | 4.99 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 7 | 4.99 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 10 | 4.99 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 3 | 4.99 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 5 | 4.99 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 5 | 4.99 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 4 | 4.99 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 13 | 4.99 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 13 | 4.99 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 13 | 4.99 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 12 | 4.99 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 14 | 4.99 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 14 | 4.99 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 6 | 4.99 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 3 | 4.99 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 3 | 4.99 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 3 | 4.99 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 18 | 4.99 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 8 | 4.99 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 8 | 4.99 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 8 | 4.99 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 1 | 4.99 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 18 | 4.99 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 18 | 4.99 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 18 | 4.99 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 10 | 4.99 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 10 | 4.99 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 10 | 4.99 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 12 | 4.99 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 12 | 4.99 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 12 | 4.99 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 11 | 4.99 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 14 | 4.99 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 14 | 4.99 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 14 | 4.99 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 14 | 4.99 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 14 | 4.99 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 14 | 4.99 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 14 | 4.99 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 14 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 14 | 4.99 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 3 | 4.99 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 4 | 4.99 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 14 | 4.99 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 14 | 4.99 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 12 | 4.99 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 5 | 4.99 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 15 | 4.99 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 5 | 4.99 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 5 | 4.99 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 5 | 4.99 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 14 | 4.99 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 14 | 4.99 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 14 | 4.99 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 14 | 4.99 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 14 | 4.99 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 14 | 4.99 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 11 | 4.99 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 8 | 4.99 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 11 | 4.99 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 11 | 4.99 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 11 | 4.99 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 3 | 4.99 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 9 | 4.99 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 1 | 4.99 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 20 | 4.99 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 6 | 4.99 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 4 | 4.99 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 4 | 4.99 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 18 | 4.99 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 18 | 4.99 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 9 | 4.99 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 9 | 4.99 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 20 | 4.99 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 1 | 4.99 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 13 | 4.99 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 4 | 4.99 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 4 | 4.99 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 4 | 4.99 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 15 | 4.99 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 1 | 4.99 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 1 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 1 | 4.99 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 1 | 4.99 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 1 | 4.99 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 1 | 4.99 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 1 | 4.99 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 9 | 4.99 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 9 | 4.99 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 9 | 4.99 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 9 | 4.99 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 18 | 4.99 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 9 | 4.99 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 9 | 4.99 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 9 | 4.99 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 9 | 4.99 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 4 | 4.99 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 4 | 4.99 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 7 | 4.99 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 18 | 4.99 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 11 | 4.99 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 1 | 4.99 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 16 | 4.99 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 6 | 4.99 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 5 | 4.99 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 5 | 4.99 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 5 | 4.99 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 16 | 4.99 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 16 | 4.99 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 16 | 4.99 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 9 | 4.99 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 9 | 4.99 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 9 | 4.99 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 12 | 4.99 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 12 | 4.99 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 12 | 4.99 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 12 | 4.99 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 12 | 4.99 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 12 | 4.99 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 2 | 4.99 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 2 | 4.99 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 2 | 4.99 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 16 | 4.99 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 5 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 4 | 4.99 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 13 | 4.99 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 13 | 4.99 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 13 | 4.99 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 14 | 4.99 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 4.99 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 4 | 4.99 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 4 | 4.99 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 4 | 4.99 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 4 | 4.99 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 4 | 4.99 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 4 | 4.99 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 1 | 4.99 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 1 | 4.99 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 17 | 4.99 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 17 | 4.99 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 17 | 4.99 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 20 | 4.99 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 20 | 4.99 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 20 | 4.99 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 10 | 4.99 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 10 | 4.99 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 10 | 4.99 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 18 | 4.99 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 4 | 4.99 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 4 | 4.99 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 4 | 4.99 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 8 | 4.99 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 20 | 4.99 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 13 | 4.99 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 13 | 4.99 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 13 | 4.99 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 6 | 4.99 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 8 | 4.99 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 4 | 4.99 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 4 | 4.99 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 4 | 4.99 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 4.99 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 12 | 4.99 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 12 | 4.99 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 12 | 4.99 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 4 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 8 | 4.99 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 8 | 4.99 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 8 | 4.99 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 8 | 4.99 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 7 | 4.99 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 15 | 4.99 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 17 | 4.99 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 17 | 4.99 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 17 | 4.99 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 17 | 4.99 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 17 | 4.99 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 17 | 4.99 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 4 | 4.99 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 4 | 4.99 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 4 | 4.99 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 4 | 4.99 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 15 | 4.99 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 15 | 4.99 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 15 | 4.99 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 7 | 4.99 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 7 | 4.99 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 7 | 4.99 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 7 | 4.99 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 7 | 4.99 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 7 | 4.99 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 2 | 4.99 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 2 | 4.99 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 2 | 4.99 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 2 | 4.99 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 2 | 4.99 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 2 | 4.99 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 6 | 4.99 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 6 | 4.99 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 14 | 4.99 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 16 | 4.99 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 5 | 4.99 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 5 | 4.99 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 5 | 4.99 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 13 | 4.99 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 7 | 4.99 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 7 | 4.99 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 7 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 18 | 4.99 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 3 | 4.99 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 3 | 4.99 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 3 | 4.99 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 3 | 4.99 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 3 | 4.99 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 3 | 4.99 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 6 | 4.99 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 6 | 4.99 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 6 | 4.99 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 6 | 4.99 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 6 | 4.99 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 6 | 4.99 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 18 | 4.99 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 18 | 4.99 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 9 | 4.99 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 9 | 4.99 |
| (1,3708) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 9 | 4.99 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 3 | 4.99 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 3 | 4.99 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 3 | 4.99 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 3 | 4.99 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 10 | 4.99 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 10 | 4.99 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 10 | 4.99 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 9 | 4.99 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 7 | 4.99 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 7 | 4.99 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 7 | 4.99 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 11 | 4.99 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 11 | 4.99 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 9 | 4.99 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 9 | 4.99 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 9 | 4.99 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 18 | 4.99 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 9 | 4.99 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 9 | 4.99 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 9 | 4.99 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 13 | 4.99 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 20 | 4.99 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 17 | 4.99 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 9 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 4 | 4.99 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 4 | 4.99 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 7 | 4.99 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 18 | 4.99 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 7 | 4.99 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 11 | 4.99 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 1 | 4.99 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 16 | 4.99 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 6 | 4.99 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 5 | 4.99 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 6 | 4.99 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 6 | 4.99 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 6 | 4.99 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 5 | 4.99 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 5 | 4.99 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 5 | 4.99 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 16 | 4.99 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 16 | 4.99 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 16 | 4.99 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 9 | 4.99 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 9 | 4.99 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 9 | 4.99 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 12 | 4.99 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 12 | 4.99 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 12 | 4.99 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 12 | 4.99 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 12 | 4.99 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 12 | 4.99 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 2 | 4.99 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 2 | 4.99 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 2 | 4.99 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 16 | 4.99 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 18 | 4.99 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 18 | 4.99 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 5 | 4.99 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 4 | 4.99 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 5 | 4.99 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 13 | 4.99 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 13 | 4.99 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 13 | 4.99 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 3 | 4.99 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 3 | 4.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 14 | 4.99 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 4.99 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 4 | 4.99 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 4 | 4.99 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 4 | 4.99 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 4 | 4.99 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 4 | 4.99 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 4 | 4.99 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 14 | 4.99 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 14 | 4.99 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 14 | 4.99 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 1 | 4.99 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 1 | 4.99 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 17 | 4.99 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 17 | 4.99 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 17 | 4.99 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 8 | 4.99 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 8 | 4.99 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 8 | 4.99 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 8 | 4.99 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 2 | 4.98 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 16 | 4.98 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 10 | 4.98 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 18 | 4.98 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 18 | 4.98 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 13 | 4.98 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 13 | 4.98 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 15 | 4.98 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 15 | 4.98 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 15 | 4.98 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 15 | 4.98 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 15 | 4.98 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 15 | 4.98 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 2 | 4.98 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 2 | 4.98 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 2 | 4.98 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 2 | 4.98 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 18 | 4.98 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 18 | 4.98 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 18 | 4.98 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 18 | 4.98 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 4.98 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 4.98 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 4.98 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 4.98 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 4.98 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 4 | 4.98 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 4 | 4.98 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 4 | 4.98 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 4 | 4.98 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 4 | 4.98 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 4 | 4.98 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 20 | 4.98 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 20 | 4.98 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 20 | 4.98 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 20 | 4.98 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 18 | 4.98 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 18 | 4.98 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 5 | 4.98 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 5 | 4.98 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 5 | 4.98 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 5 | 4.98 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 8 | 4.98 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 8 | 4.98 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 2 | 4.98 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 2 | 4.98 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 13 | 4.98 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 13 | 4.98 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 13 | 4.98 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 13 | 4.98 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 11 | 4.98 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 11 | 4.98 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 11 | 4.98 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 11 | 4.98 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 7 | 4.98 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 7 | 4.98 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 6 | 4.98 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 6 | 4.98 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 3 | 4.98 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 3 | 4.98 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 9 | 4.98 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 9 | 4.98 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 7 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 14 | 4.98 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 14 | 4.98 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 14 | 4.98 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 8 | 4.98 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 4 | 4.98 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 4 | 4.98 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 4 | 4.98 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 6 | 4.98 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 6 | 4.98 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 16 | 4.98 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 16 | 4.98 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 6 | 4.98 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 6 | 4.98 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 6 | 4.98 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 4 | 4.98 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 4 | 4.98 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 4 | 4.98 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 9 | 4.98 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 9 | 4.98 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 9 | 4.98 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 18 | 4.98 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 3 | 4.98 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 3 | 4.98 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 3 | 4.98 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 4 | 4.98 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 11 | 4.98 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 7 | 4.98 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 7 | 4.98 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 7 | 4.98 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 12 | 4.98 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 12 | 4.98 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 12 | 4.98 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 5 | 4.98 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 5 | 4.98 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 13 | 4.98 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 13 | 4.98 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 13 | 4.98 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 13 | 4.98 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 13 | 4.98 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 13 | 4.98 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 6 | 4.98 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 6 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 11 | 4.98 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 19 | 4.98 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 19 | 4.98 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 19 | 4.98 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 10 | 4.98 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 10 | 4.98 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 10 | 4.98 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 19 | 4.98 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 20 | 4.98 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 20 | 4.98 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 20 | 4.98 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 6 | 4.98 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 6 | 4.98 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 6 | 4.98 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 19 | 4.98 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 19 | 4.98 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 19 | 4.98 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 20 | 4.98 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 16 | 4.98 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 16 | 4.98 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 16 | 4.98 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 16 | 4.98 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 20 | 4.98 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 18 | 4.98 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 1 | 4.98 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 13 | 4.98 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 13 | 4.98 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 13 | 4.98 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 13 | 4.98 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 13 | 4.98 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 13 | 4.98 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 13 | 4.98 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 13 | 4.98 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 13 | 4.98 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 17 | 4.98 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 19 | 4.98 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 14 | 4.98 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 17 | 4.98 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 5 | 4.98 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 5 | 4.98 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 5 | 4.98 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 10 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 1 | 4.98 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 1 | 4.98 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 1 | 4.98 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 1 | 4.98 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 1 | 4.98 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 1 | 4.98 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 13 | 4.98 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 13 | 4.98 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 13 | 4.98 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 19 | 4.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 19 | 4.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 19 | 4.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 19 | 4.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 19 | 4.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 19 | 4.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 19 | 4.98 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 5 | 4.98 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 5 | 4.98 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 5 | 4.98 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 20 | 4.98 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 2 | 4.98 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 12 | 4.98 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 5 | 4.98 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 5 | 4.98 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 8 | 4.98 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 8 | 4.98 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 8 | 4.98 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 20 | 4.98 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 8 | 4.98 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 8 | 4.98 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 8 | 4.98 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 10 | 4.98 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 10 | 4.98 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 15 | 4.98 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 15 | 4.98 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 15 | 4.98 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 7 | 4.98 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 7 | 4.98 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 14 | 4.98 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 10 | 4.98 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 2 | 4.98 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 2 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 2 | 4.98 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 19 | 4.98 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 19 | 4.98 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 19 | 4.98 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 1 | 4.98 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 1 | 4.98 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 18 | 4.98 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 18 | 4.98 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 4 | 4.98 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 4 | 4.98 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 4 | 4.98 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 6 | 4.98 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 1 | 4.98 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 1 | 4.98 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 7 | 4.98 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 7 | 4.98 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 7 | 4.98 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 17 | 4.98 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 17 | 4.98 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 17 | 4.98 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 5 | 4.98 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 18 | 4.98 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 6 | 4.98 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 6 | 4.98 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 6 | 4.98 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 15 | 4.98 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 18 | 4.98 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 18 | 4.98 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 18 | 4.98 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 19 | 4.98 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 19 | 4.98 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 9 | 4.98 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 9 | 4.98 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 9 | 4.98 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 5 | 4.98 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 5 | 4.98 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 5 | 4.98 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 16 | 4.98 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 7 | 4.98 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 18 | 4.98 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 1 | 4.98 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 1 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 1 | 4.98 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 8 | 4.98 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 9 | 4.98 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 7 | 4.98 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 9 | 4.98 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 9 | 4.98 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 9 | 4.98 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 9 | 4.98 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 9 | 4.98 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 9 | 4.98 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 9 | 4.98 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 9 | 4.98 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 9 | 4.98 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 20 | 4.98 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 20 | 4.98 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 20 | 4.98 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 18 | 4.98 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 18 | 4.98 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 18 | 4.98 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 13 | 4.98 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 13 | 4.98 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 13 | 4.98 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 15 | 4.98 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 15 | 4.98 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 15 | 4.98 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 15 | 4.98 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 15 | 4.98 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 15 | 4.98 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 2 | 4.98 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 13 | 4.98 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 13 | 4.98 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 13 | 4.98 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 13 | 4.98 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 8 | 4.98 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 8 | 4.98 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 8 | 4.98 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 4.98 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 4.98 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 4.98 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 4.98 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 4.98 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 1 | 4.98 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 6 | 4.98 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 4.98 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 3 | 4.98 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 4.98 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 5 | 4.98 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 5 | 4.98 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 5 | 4.98 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 5 | 4.98 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 18 | 4.98 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 18 | 4.98 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 18 | 4.98 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 4.98 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 11 | 4.98 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 11 | 4.98 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 11 | 4.98 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 11 | 4.98 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 9 | 4.98 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 14 | 4.98 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 14 | 4.98 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 8 | 4.98 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 8 | 4.98 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 8 | 4.98 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 8 | 4.98 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 16 | 4.98 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 3 | 4.98 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 3 | 4.98 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 17 | 4.98 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 8 | 4.98 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 9 | 4.98 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 9 | 4.98 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 10 | 4.98 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 19 | 4.98 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 4 | 4.98 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 4 | 4.98 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 4 | 4.98 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 2 | 4.98 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 2 | 4.98 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 2 | 4.98 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 19 | 4.98 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 19 | 4.98 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 19 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 1 | 4.98 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 1 | 4.98 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 1 | 4.98 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 18 | 4.98 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 18 | 4.98 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 16 | 4.98 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 16 | 4.98 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 16 | 4.98 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 2 | 4.98 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 3 | 4.98 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 4 | 4.98 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 4 | 4.98 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 4 | 4.98 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 8 | 4.98 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 6 | 4.98 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 1 | 4.98 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 1 | 4.98 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 7 | 4.98 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 7 | 4.98 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 7 | 4.98 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 17 | 4.98 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 17 | 4.98 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 17 | 4.98 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 14 | 4.98 |
| (1,2338) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 5 | 4.98 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 5 | 4.98 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 18 | 4.98 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 1 | 4.98 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 1 | 4.98 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 1 | 4.98 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 6 | 4.98 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 6 | 4.98 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 6 | 4.98 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 7 | 4.98 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 17 | 4.98 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 6 | 4.98 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 6 | 4.98 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 6 | 4.98 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 15 | 4.98 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 18 | 4.98 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 18 | 4.98 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 18 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 11 | 4.98 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 11 | 4.98 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 11 | 4.98 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 14 | 4.98 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 14 | 4.98 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 14 | 4.98 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 4 | 4.98 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 4 | 4.98 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 11 | 4.98 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 1 | 4.98 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 1 | 4.98 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 1 | 4.98 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 17 | 4.98 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 17 | 4.98 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 17 | 4.98 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 17 | 4.98 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 17 | 4.98 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 17 | 4.98 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 19 | 4.98 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 19 | 4.98 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 9 | 4.98 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 9 | 4.98 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 9 | 4.98 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 16 | 4.98 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 16 | 4.98 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 16 | 4.98 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 5 | 4.98 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 5 | 4.98 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 5 | 4.98 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 16 | 4.98 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 5 | 4.98 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 6 | 4.98 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 9 | 4.98 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 9 | 4.98 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 9 | 4.98 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 7 | 4.98 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 18 | 4.98 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 17 | 4.98 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 1 | 4.98 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 1 | 4.98 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 1 | 4.98 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 19 | 4.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 19 | 4.98 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 19 | 4.98 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 19 | 4.98 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 19 | 4.98 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 19 | 4.98 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 15 | 4.98 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 19 | 4.98 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 19 | 4.98 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 19 | 4.98 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 20 | 4.98 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 20 | 4.98 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 20 | 4.98 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 4.97 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 4.97 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 7 | 4.97 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 7 | 4.97 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 7 | 4.97 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 7 | 4.97 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 7 | 4.97 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 7 | 4.97 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 13 | 4.97 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 13 | 4.97 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 13 | 4.97 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 13 | 4.97 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 13 | 4.97 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 13 | 4.97 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 19 | 4.97 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 19 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 8 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 8 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 8 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 8 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 8 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 8 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 18 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 18 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 18 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 18 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 18 | 4.97 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 18 | 4.97 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 5 | 4.97 |
| (1,9541) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 5 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 12 | 4.97 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 12 | 4.97 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 12 | 4.97 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 12 | 4.97 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 12 | 4.97 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 12 | 4.97 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 5 | 4.97 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 5 | 4.97 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 10 | 4.97 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 10 | 4.97 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 8 | 4.97 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 8 | 4.97 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 1 | 4.97 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 1 | 4.97 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 7 | 4.97 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 7 | 4.97 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 17 | 4.97 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 17 | 4.97 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 7 | 4.97 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 7 | 4.97 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 7 | 4.97 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 7 | 4.97 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 7 | 4.97 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 7 | 4.97 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 18 | 4.97 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 18 | 4.97 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 18 | 4.97 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 18 | 4.97 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 18 | 4.97 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 18 | 4.97 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 2 | 4.97 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 2 | 4.97 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 2 | 4.97 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 2 | 4.97 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 2 | 4.97 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 2 | 4.97 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 19 | 4.97 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 19 | 4.97 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 19 | 4.97 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 19 | 4.97 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 19 | 4.97 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 19 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 9 | 4.97 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 9 | 4.97 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 14 | 4.97 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 14 | 4.97 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 10 | 4.97 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 10 | 4.97 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 19 | 4.97 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 19 | 4.97 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 19 | 4.97 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 19 | 4.97 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 19 | 4.97 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 19 | 4.97 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 12 | 4.97 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 12 | 4.97 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 20 | 4.97 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 20 | 4.97 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 20 | 4.97 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 4.97 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 4.97 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 4.97 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 20 | 4.97 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 20 | 4.97 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 20 | 4.97 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 20 | 4.97 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 15 | 4.97 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 15 | 4.97 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 1 | 4.97 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 1 | 4.97 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 11 | 4.97 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 11 | 4.97 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 16 | 4.97 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 16 | 4.97 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 1 | 4.97 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 1 | 4.97 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 1 | 4.97 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 1 | 4.97 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 10 | 4.97 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 10 | 4.97 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 1 | 4.97 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 1 | 4.97 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 1 | 4.97 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 1 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 12 | 4.97 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 12 | 4.97 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 12 | 4.97 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 12 | 4.97 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 4 | 4.97 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 4 | 4.97 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 4 | 4.97 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 4 | 4.97 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 4 | 4.97 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 4 | 4.97 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 6 | 4.97 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 6 | 4.97 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 6 | 4.97 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 6 | 4.97 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 6 | 4.97 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 6 | 4.97 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 16 | 4.97 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 16 | 4.97 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 18 | 4.97 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 10 | 4.97 |
| (1,8468) | 1:150:A:VAL:H | 1:152:A:THR:H | 7 | 4.97 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 8 | 4.97 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 8 | 4.97 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 8 | 4.97 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 11 | 4.97 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 11 | 4.97 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 11 | 4.97 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 1 | 4.97 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 1 | 4.97 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 1 | 4.97 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 6 | 4.97 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 6 | 4.97 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 6 | 4.97 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 11 | 4.97 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 11 | 4.97 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 1 | 4.97 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 12 | 4.97 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 12 | 4.97 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 12 | 4.97 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 13 | 4.97 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 13 | 4.97 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 13 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 17 | 4.97 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 17 | 4.97 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 17 | 4.97 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 20 | 4.97 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 20 | 4.97 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 20 | 4.97 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 20 | 4.97 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 20 | 4.97 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 19 | 4.97 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 19 | 4.97 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 19 | 4.97 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 17 | 4.97 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 4 | 4.97 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 4 | 4.97 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 9 | 4.97 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 19 | 4.97 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 4 | 4.97 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 3 | 4.97 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 14 | 4.97 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 14 | 4.97 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 14 | 4.97 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 16 | 4.97 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 19 | 4.97 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 19 | 4.97 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 19 | 4.97 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 19 | 4.97 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 19 | 4.97 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 19 | 4.97 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 19 | 4.97 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 19 | 4.97 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 19 | 4.97 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 18 | 4.97 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 16 | 4.97 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 20 | 4.97 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 7 | 4.97 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 7 | 4.97 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 7 | 4.97 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 18 | 4.97 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 18 | 4.97 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 18 | 4.97 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 18 | 4.97 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 18 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 18 | 4.97 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 18 | 4.97 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 18 | 4.97 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 18 | 4.97 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 8 | 4.97 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 16 | 4.97 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 18 | 4.97 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 4 | 4.97 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 5 | 4.97 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 5 | 4.97 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 5 | 4.97 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 8 | 4.97 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 7 | 4.97 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 7 | 4.97 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 12 | 4.97 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 11 | 4.97 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 11 | 4.97 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 11 | 4.97 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 20 | 4.97 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 20 | 4.97 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 20 | 4.97 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 13 | 4.97 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 3 | 4.97 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 9 | 4.97 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 5 | 4.97 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 3 | 4.97 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 8 | 4.97 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 11 | 4.97 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 11 | 4.97 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 11 | 4.97 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 9 | 4.97 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 9 | 4.97 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 15 | 4.97 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 15 | 4.97 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 15 | 4.97 |
| (1,7122) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 18 | 4.97 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 4 | 4.97 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 11 | 4.97 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 3 | 4.97 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 3 | 4.97 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 10 | 4.97 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 9 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 5 | 4.97 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 5 | 4.97 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 5 | 4.97 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 2 | 4.97 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 14 | 4.97 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 14 | 4.97 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 14 | 4.97 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 14 | 4.97 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 14 | 4.97 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 14 | 4.97 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 14 | 4.97 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 14 | 4.97 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 14 | 4.97 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 18 | 4.97 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 19 | 4.97 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 19 | 4.97 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 19 | 4.97 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 14 | 4.97 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 14 | 4.97 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 14 | 4.97 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 15 | 4.97 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 15 | 4.97 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 15 | 4.97 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 16 | 4.97 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 16 | 4.97 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 16 | 4.97 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 2 | 4.97 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 8 | 4.97 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 8 | 4.97 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 8 | 4.97 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 20 | 4.97 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 20 | 4.97 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 13 | 4.97 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 5 | 4.97 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 15 | 4.97 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 15 | 4.97 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 15 | 4.97 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 10 | 4.97 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 10 | 4.97 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 10 | 4.97 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 14 | 4.97 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 14 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 14 | 4.97 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 14 | 4.97 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 7 | 4.97 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 17 | 4.97 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 19 | 4.97 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 1 | 4.97 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 12 | 4.97 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 12 | 4.97 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 12 | 4.97 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 7 | 4.97 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 7 | 4.97 |
| (1,5444) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 7 | 4.97 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 4 | 4.97 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 4 | 4.97 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 4 | 4.97 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 19 | 4.97 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 19 | 4.97 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 19 | 4.97 |
| (1,5193) | 1:84:A:GLU:H | 1:87:A:GLU:H | 18 | 4.97 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 16 | 4.97 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 16 | 4.97 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 16 | 4.97 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 6 | 4.97 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 10 | 4.97 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 5 | 4.97 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 5 | 4.97 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 5 | 4.97 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 3 | 4.97 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 4 | 4.97 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 20 | 4.97 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 20 | 4.97 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 20 | 4.97 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 15 | 4.97 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 15 | 4.97 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 15 | 4.97 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 8 | 4.97 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 8 | 4.97 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 8 | 4.97 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 13 | 4.97 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 13 | 4.97 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 13 | 4.97 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 4.97 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 13 | 4.97 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 13 | 4.97 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 13 | 4.97 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 13 | 4.97 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 13 | 4.97 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 13 | 4.97 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 19 | 4.97 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 19 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 8 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 8 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 8 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 8 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 8 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 8 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 18 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 18 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 18 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 18 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 18 | 4.97 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 18 | 4.97 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 5 | 4.97 |
| (1,4532) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 5 | 4.97 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 2 | 4.97 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 2 | 4.97 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 12 | 4.97 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 12 | 4.97 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 12 | 4.97 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 12 | 4.97 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 12 | 4.97 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 12 | 4.97 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 19 | 4.97 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 19 | 4.97 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 19 | 4.97 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 19 | 4.97 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 2 | 4.97 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 11 | 4.97 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 18 | 4.97 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 18 | 4.97 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 18 | 4.97 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 18 | 4.97 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 18 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 18 | 4.97 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 19 | 4.97 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 2 | 4.97 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 2 | 4.97 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 2 | 4.97 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 2 | 4.97 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 2 | 4.97 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 2 | 4.97 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 19 | 4.97 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 19 | 4.97 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 19 | 4.97 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 19 | 4.97 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 19 | 4.97 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 19 | 4.97 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 5 | 4.97 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 15 | 4.97 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 9 | 4.97 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 9 | 4.97 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 20 | 4.97 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 20 | 4.97 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 20 | 4.97 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 4.97 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 4.97 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 4.97 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 1 | 4.97 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 1 | 4.97 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 14 | 4.97 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 12 | 4.97 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 16 | 4.97 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 16 | 4.97 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 8 | 4.97 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 8 | 4.97 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 8 | 4.97 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 12 | 4.97 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 12 | 4.97 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 12 | 4.97 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 2 | 4.97 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 8 | 4.97 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 7 | 4.97 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 13 | 4.97 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 6 | 4.97 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 6 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 6 | 4.97 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 6 | 4.97 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 6 | 4.97 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 6 | 4.97 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 17 | 4.97 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 11 | 4.97 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 11 | 4.97 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 11 | 4.97 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 16 | 4.97 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 16 | 4.97 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 16 | 4.97 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 4 | 4.97 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 4 | 4.97 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 4 | 4.97 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 11 | 4.97 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 3 | 4.97 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 3 | 4.97 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 5 | 4.97 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 5 | 4.97 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 15 | 4.97 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 15 | 4.97 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 15 | 4.97 |
| (1,3214) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 18 | 4.97 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 17 | 4.97 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 4 | 4.97 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 11 | 4.97 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 7 | 4.97 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 7 | 4.97 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 8 | 4.97 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 8 | 4.97 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 6 | 4.97 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 6 | 4.97 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 3 | 4.97 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 3 | 4.97 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 9 | 4.97 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 5 | 4.97 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 5 | 4.97 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 5 | 4.97 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 2 | 4.97 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 1 | 4.97 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 11 | 4.97 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 16 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 13 | 4.97 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 13 | 4.97 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 13 | 4.97 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 14 | 4.97 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 14 | 4.97 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 14 | 4.97 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 14 | 4.97 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 14 | 4.97 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 14 | 4.97 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 14 | 4.97 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 14 | 4.97 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 14 | 4.97 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 17 | 4.97 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 17 | 4.97 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 17 | 4.97 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 18 | 4.97 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 19 | 4.97 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 19 | 4.97 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 19 | 4.97 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 14 | 4.97 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 14 | 4.97 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 14 | 4.97 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 15 | 4.97 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 15 | 4.97 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 15 | 4.97 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 16 | 4.97 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 16 | 4.97 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 16 | 4.97 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 2 | 4.97 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 8 | 4.97 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 8 | 4.97 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 8 | 4.97 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 20 | 4.97 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 20 | 4.97 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 13 | 4.97 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 5 | 4.97 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 1 | 4.97 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 1 | 4.97 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 1 | 4.97 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 15 | 4.97 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 15 | 4.97 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 15 | 4.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 10 | 4.97 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 10 | 4.97 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 10 | 4.97 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 14 | 4.97 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 14 | 4.97 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 14 | 4.97 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 14 | 4.97 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 7 | 4.97 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 14 | 4.97 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 17 | 4.97 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 19 | 4.97 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 15 | 4.97 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 15 | 4.97 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 15 | 4.97 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 15 | 4.97 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 15 | 4.97 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 15 | 4.97 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 1 | 4.97 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 12 | 4.97 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 12 | 4.97 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 12 | 4.97 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 7 | 4.97 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 7 | 4.97 |
| (1,538) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 7 | 4.97 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 16 | 4.97 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 16 | 4.97 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 16 | 4.97 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 20 | 4.96 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 17 | 4.96 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 19 | 4.96 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 6 | 4.96 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 6 | 4.96 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 2 | 4.96 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 2 | 4.96 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 2 | 4.96 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 2 | 4.96 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 2 | 4.96 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 2 | 4.96 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 2 | 4.96 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 2 | 4.96 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 17 | 4.96 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 17 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 19 | 4.96 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 19 | 4.96 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 19 | 4.96 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 19 | 4.96 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 19 | 4.96 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 19 | 4.96 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 14 | 4.96 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 14 | 4.96 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 14 | 4.96 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 14 | 4.96 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 14 | 4.96 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 14 | 4.96 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 9 | 4.96 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 9 | 4.96 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 12 | 4.96 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 12 | 4.96 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 20 | 4.96 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 20 | 4.96 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 2 | 4.96 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 2 | 4.96 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 10 | 4.96 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 10 | 4.96 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 15 | 4.96 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 15 | 4.96 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 16 | 4.96 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 16 | 4.96 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 6 | 4.96 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 6 | 4.96 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 2 | 4.96 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 2 | 4.96 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 2 | 4.96 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 2 | 4.96 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 12 | 4.96 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 12 | 4.96 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 12 | 4.96 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 12 | 4.96 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 20 | 4.96 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 20 | 4.96 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 20 | 4.96 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 20 | 4.96 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 20 | 4.96 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 20 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 11 | 4.96 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 11 | 4.96 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 8 | 4.96 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 8 | 4.96 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 11 | 4.96 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 11 | 4.96 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 11 | 4.96 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 11 | 4.96 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 11 | 4.96 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 11 | 4.96 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 5 | 4.96 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 5 | 4.96 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 5 | 4.96 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 5 | 4.96 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 18 | 4.96 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 18 | 4.96 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 18 | 4.96 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 18 | 4.96 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 10 | 4.96 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 10 | 4.96 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 14 | 4.96 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 14 | 4.96 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 6 | 4.96 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 6 | 4.96 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 6 | 4.96 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 6 | 4.96 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 9 | 4.96 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 9 | 4.96 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 10 | 4.96 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 10 | 4.96 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 12 | 4.96 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 12 | 4.96 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 12 | 4.96 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 19 | 4.96 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 15 | 4.96 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 15 | 4.96 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 15 | 4.96 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 15 | 4.96 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 15 | 4.96 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 15 | 4.96 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 9 | 4.96 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 10 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 10 | 4.96 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 10 | 4.96 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 14 | 4.96 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 14 | 4.96 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 14 | 4.96 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 19 | 4.96 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 19 | 4.96 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 18 | 4.96 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 18 | 4.96 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 18 | 4.96 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 17 | 4.96 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 17 | 4.96 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 17 | 4.96 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 20 | 4.96 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 20 | 4.96 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 20 | 4.96 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 20 | 4.96 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 12 | 4.96 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 1 | 4.96 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 9 | 4.96 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 19 | 4.96 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 19 | 4.96 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 14 | 4.96 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 2 | 4.96 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 2 | 4.96 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 2 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 2 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 2 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 2 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 9 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 9 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 9 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 15 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 15 | 4.96 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 15 | 4.96 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 1 | 4.96 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 12 | 4.96 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 10 | 4.96 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 10 | 4.96 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 11 | 4.96 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 11 | 4.96 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 15 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 15 | 4.96 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 15 | 4.96 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 18 | 4.96 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 14 | 4.96 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 14 | 4.96 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 14 | 4.96 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 4 | 4.96 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 6 | 4.96 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 6 | 4.96 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 6 | 4.96 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 15 | 4.96 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 15 | 4.96 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 20 | 4.96 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 20 | 4.96 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 20 | 4.96 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 20 | 4.96 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 8 | 4.96 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 15 | 4.96 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 15 | 4.96 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 19 | 4.96 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 1 | 4.96 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 1 | 4.96 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 1 | 4.96 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 6 | 4.96 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 6 | 4.96 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 6 | 4.96 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 6 | 4.96 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 6 | 4.96 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 6 | 4.96 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 20 | 4.96 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 20 | 4.96 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 20 | 4.96 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 3 | 4.96 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 17 | 4.96 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 17 | 4.96 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 17 | 4.96 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 8 | 4.96 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 19 | 4.96 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 1 | 4.96 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 13 | 4.96 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 18 | 4.96 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 15 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 6 | 4.96 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 15 | 4.96 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 13 | 4.96 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 13 | 4.96 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 13 | 4.96 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 12 | 4.96 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 12 | 4.96 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 11 | 4.96 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 11 | 4.96 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 5 | 4.96 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 4 | 4.96 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 4 | 4.96 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 4 | 4.96 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 17 | 4.96 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 8 | 4.96 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 8 | 4.96 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 8 | 4.96 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 8 | 4.96 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 12 | 4.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 8 | 4.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 8 | 4.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 8 | 4.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 8 | 4.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 8 | 4.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 8 | 4.96 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 16 | 4.96 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 6 | 4.96 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 6 | 4.96 |
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 6 | 4.96 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 19 | 4.96 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 19 | 4.96 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 2 | 4.96 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 2 | 4.96 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 2 | 4.96 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 19 | 4.96 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 19 | 4.96 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 18 | 4.96 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 18 | 4.96 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 18 | 4.96 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 15 | 4.96 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 4 | 4.96 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 4 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 12 | 4.96 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 16 | 4.96 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 16 | 4.96 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 16 | 4.96 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 17 | 4.96 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 9 | 4.96 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 9 | 4.96 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 9 | 4.96 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 9 | 4.96 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 9 | 4.96 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 9 | 4.96 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 9 | 4.96 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 9 | 4.96 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 9 | 4.96 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 20 | 4.96 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 20 | 4.96 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 17 | 4.96 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 17 | 4.96 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 17 | 4.96 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 7 | 4.96 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 7 | 4.96 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 5 | 4.96 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 5 | 4.96 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 5 | 4.96 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 7 | 4.96 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 19 | 4.96 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 1 | 4.96 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 1 | 4.96 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 1 | 4.96 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 8 | 4.96 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 8 | 4.96 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 8 | 4.96 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 6 | 4.96 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 18 | 4.96 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 18 | 4.96 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 18 | 4.96 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 18 | 4.96 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 5 | 4.96 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 5 | 4.96 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 17 | 4.96 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 3 | 4.96 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 4 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 4 | 4.96 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 4 | 4.96 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 4 | 4.96 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 4 | 4.96 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 4 | 4.96 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 13 | 4.96 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 18 | 4.96 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 18 | 4.96 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 18 | 4.96 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 4 | 4.96 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 4 | 4.96 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 4 | 4.96 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 4 | 4.96 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 4 | 4.96 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 4 | 4.96 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 9 | 4.96 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 4.96 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 6 | 4.96 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 6 | 4.96 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 6 | 4.96 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 18 | 4.96 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 18 | 4.96 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 18 | 4.96 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 11 | 4.96 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 12 | 4.96 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 1 | 4.96 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 1 | 4.96 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 1 | 4.96 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 11 | 4.96 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 11 | 4.96 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 9 | 4.96 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 2 | 4.96 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 9 | 4.96 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 6 | 4.96 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 6 | 4.96 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 12 | 4.96 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 12 | 4.96 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 12 | 4.96 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 12 | 4.96 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 15 | 4.96 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 15 | 4.96 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 15 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 15 | 4.96 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 15 | 4.96 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 15 | 4.96 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 2 | 4.96 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 2 | 4.96 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 2 | 4.96 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 2 | 4.96 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 11 | 4.96 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 11 | 4.96 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 11 | 4.96 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 4.96 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 11 | 4.96 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 19 | 4.96 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 19 | 4.96 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 19 | 4.96 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 19 | 4.96 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 19 | 4.96 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 19 | 4.96 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 9 | 4.96 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 19 | 4.96 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 1 | 4.96 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 13 | 4.96 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 13 | 4.96 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 17 | 4.96 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 4.96 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 11 | 4.96 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 20 | 4.96 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 19 | 4.96 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 12 | 4.96 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 12 | 4.96 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 12 | 4.96 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 18 | 4.96 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 18 | 4.96 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 18 | 4.96 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 12 | 4.96 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 12 | 4.96 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 7 | 4.96 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 10 | 4.96 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 10 | 4.96 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 10 | 4.96 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 11 | 4.96 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 11 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 11 | 4.96 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 11 | 4.96 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 11 | 4.96 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 11 | 4.96 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 8 | 4.96 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 8 | 4.96 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 16 | 4.96 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 16 | 4.96 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 16 | 4.96 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 18 | 4.96 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 18 | 4.96 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 18 | 4.96 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 18 | 4.96 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 9 | 4.96 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 9 | 4.96 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 10 | 4.96 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 10 | 4.96 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 15 | 4.96 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 15 | 4.96 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 19 | 4.96 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 19 | 4.96 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 2 | 4.96 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 2 | 4.96 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 2 | 4.96 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 19 | 4.96 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 19 | 4.96 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 18 | 4.96 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 18 | 4.96 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 18 | 4.96 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 6 | 4.96 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 15 | 4.96 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 7 | 4.96 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 4 | 4.96 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 4 | 4.96 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 12 | 4.96 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 16 | 4.96 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 16 | 4.96 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 16 | 4.96 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 17 | 4.96 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 2 | 4.96 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 2 | 4.96 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 7 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 7 | 4.96 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 7 | 4.96 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 7 | 4.96 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 7 | 4.96 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 7 | 4.96 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 9 | 4.96 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 9 | 4.96 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 9 | 4.96 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 9 | 4.96 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 9 | 4.96 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 9 | 4.96 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 9 | 4.96 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 9 | 4.96 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 9 | 4.96 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 20 | 4.96 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 20 | 4.96 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 17 | 4.96 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 17 | 4.96 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 17 | 4.96 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 11 | 4.96 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 5 | 4.96 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 5 | 4.96 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 5 | 4.96 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 1 | 4.96 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 5 | 4.96 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 11 | 4.96 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 7 | 4.96 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 19 | 4.96 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 3 | 4.96 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 5 | 4.96 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 5 | 4.96 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 1 | 4.96 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 1 | 4.96 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 1 | 4.96 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 8 | 4.96 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 8 | 4.96 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 8 | 4.96 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 17 | 4.96 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 17 | 4.96 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 10 | 4.96 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 10 | 4.96 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 10 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 6 | 4.96 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 19 | 4.96 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 18 | 4.96 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 18 | 4.96 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 18 | 4.96 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 18 | 4.96 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 5 | 4.96 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 5 | 4.96 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 17 | 4.96 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 3 | 4.96 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 4 | 4.96 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 4 | 4.96 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 4 | 4.96 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 4 | 4.96 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 4 | 4.96 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 4 | 4.96 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 8 | 4.96 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 13 | 4.96 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 16 | 4.96 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 16 | 4.96 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 16 | 4.96 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 18 | 4.96 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 18 | 4.96 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 18 | 4.96 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 4 | 4.96 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 4 | 4.96 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 4 | 4.96 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 4 | 4.96 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 4 | 4.96 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 4 | 4.96 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 9 | 4.96 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 9 | 4.96 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 20 | 4.95 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 20 | 4.95 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 18 | 4.95 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 11 | 4.95 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 11 | 4.95 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 4 | 4.95 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 4 | 4.95 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 14 | 4.95 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 14 | 4.95 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 2 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 2 | 4.95 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 4 | 4.95 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 4 | 4.95 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 20 | 4.95 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 20 | 4.95 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 18 | 4.95 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 18 | 4.95 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 18 | 4.95 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 18 | 4.95 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 18 | 4.95 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 18 | 4.95 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 3 | 4.95 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 3 | 4.95 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 3 | 4.95 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 3 | 4.95 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 3 | 4.95 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 3 | 4.95 |
| (1,9376) | 1:117:A:LYS:HB2 | 1:121:A:ASP:H | 16 | 4.95 |
| (1,9376) | 1:117:A:LYS:HB3 | 1:121:A:ASP:H | 16 | 4.95 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 12 | 4.95 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 12 | 4.95 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 4 | 4.95 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 4 | 4.95 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 15 | 4.95 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 15 | 4.95 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 15 | 4.95 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 15 | 4.95 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 15 | 4.95 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 15 | 4.95 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 19 | 4.95 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 19 | 4.95 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 12 | 4.95 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 12 | 4.95 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 19 | 4.95 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 19 | 4.95 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 19 | 4.95 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 19 | 4.95 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 12 | 4.95 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 12 | 4.95 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 9 | 4.95 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 9 | 4.95 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 20 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 20 | 4.95 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 20 | 4.95 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 20 | 4.95 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 20 | 4.95 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 20 | 4.95 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 8 | 4.95 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 8 | 4.95 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 16 | 4.95 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 16 | 4.95 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 3 | 4.95 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 3 | 4.95 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 4 | 4.95 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 4 | 4.95 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 1 | 4.95 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 1 | 4.95 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 1 | 4.95 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 1 | 4.95 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 15 | 4.95 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 15 | 4.95 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 11 | 4.95 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 11 | 4.95 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 15 | 4.95 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 15 | 4.95 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 15 | 4.95 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 15 | 4.95 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 3 | 4.95 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 3 | 4.95 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 6 | 4.95 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 6 | 4.95 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 6 | 4.95 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 6 | 4.95 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 6 | 4.95 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 6 | 4.95 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 14 | 4.95 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 14 | 4.95 |
| (1,8517) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 2 | 4.95 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 4 | 4.95 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 4 | 4.95 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 4 | 4.95 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 9 | 4.95 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 16 | 4.95 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 16 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 16 | 4.95 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 20 | 4.95 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 14 | 4.95 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 14 | 4.95 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 9 | 4.95 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 16 | 4.95 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 14 | 4.95 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 19 | 4.95 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 9 | 4.95 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 20 | 4.95 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 2 | 4.95 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 20 | 4.95 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 20 | 4.95 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 20 | 4.95 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 8 | 4.95 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 8 | 4.95 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 8 | 4.95 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 17 | 4.95 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 17 | 4.95 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 5 | 4.95 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 20 | 4.95 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 1 | 4.95 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 1 | 4.95 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 1 | 4.95 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 3 | 4.95 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 5 | 4.95 |
| (1,8109) | 1:93:A:ILE:HG13 | 1:148:A:GLY:H | 18 | 4.95 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 10 | 4.95 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 10 | 4.95 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 7 | 4.95 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 11 | 4.95 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 11 | 4.95 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 20 | 4.95 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 20 | 4.95 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 20 | 4.95 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 5 | 4.95 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 5 | 4.95 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 5 | 4.95 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 5 | 4.95 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 5 | 4.95 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 5 | 4.95 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 7 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 19 | 4.95 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 16 | 4.95 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 1 | 4.95 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 1 | 4.95 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 17 | 4.95 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 20 | 4.95 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 12 | 4.95 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 12 | 4.95 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 12 | 4.95 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 5 | 4.95 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 5 | 4.95 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 13 | 4.95 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 13 | 4.95 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 13 | 4.95 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 12 | 4.95 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 12 | 4.95 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 16 | 4.95 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 5 | 4.95 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 15 | 4.95 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 14 | 4.95 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 20 | 4.95 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 20 | 4.95 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 2 | 4.95 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 19 | 4.95 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 19 | 4.95 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 19 | 4.95 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 3 | 4.95 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 19 | 4.95 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 2 | 4.95 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 2 | 4.95 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 2 | 4.95 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 2 | 4.95 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 2 | 4.95 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 2 | 4.95 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 1 | 4.95 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 1 | 4.95 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 1 | 4.95 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 16 | 4.95 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 8 | 4.95 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 11 | 4.95 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 11 | 4.95 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 11 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 16 | 4.95 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 16 | 4.95 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 16 | 4.95 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 6 | 4.95 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 6 | 4.95 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 6 | 4.95 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 14 | 4.95 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 14 | 4.95 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 10 | 4.95 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 10 | 4.95 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 18 | 4.95 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 6 | 4.95 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 20 | 4.95 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 3 | 4.95 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 15 | 4.95 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 10 | 4.95 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 5 | 4.95 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 7 | 4.95 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 7 | 4.95 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 7 | 4.95 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 7 | 4.95 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 13 | 4.95 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 19 | 4.95 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 19 | 4.95 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 19 | 4.95 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 8 | 4.95 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 9 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 7 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 7 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 7 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 7 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 7 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 7 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 10 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 10 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 10 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 10 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 10 | 4.95 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 10 | 4.95 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 2 | 4.95 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 2 | 4.95 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 2 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 18 | 4.95 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 18 | 4.95 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 18 | 4.95 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 4 | 4.95 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 4 | 4.95 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 4 | 4.95 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 10 | 4.95 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 15 | 4.95 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 12 | 4.95 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 14 | 4.95 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 7 | 4.95 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 7 | 4.95 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 7 | 4.95 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 3 | 4.95 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 19 | 4.95 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 16 | 4.95 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 12 | 4.95 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 4 | 4.95 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 4 | 4.95 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 4 | 4.95 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 20 | 4.95 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 20 | 4.95 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 20 | 4.95 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 20 | 4.95 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 20 | 4.95 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 20 | 4.95 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 19 | 4.95 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 19 | 4.95 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 19 | 4.95 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 7 | 4.95 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 9 | 4.95 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 7 | 4.95 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 11 | 4.95 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 15 | 4.95 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 17 | 4.95 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 4 | 4.95 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 4 | 4.95 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 4 | 4.95 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 4 | 4.95 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 4 | 4.95 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 4 | 4.95 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 7 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 6 | 4.95 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 12 | 4.95 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 12 | 4.95 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 12 | 4.95 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 6 | 4.95 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 7 | 4.95 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 7 | 4.95 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 7 | 4.95 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 17 | 4.95 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 17 | 4.95 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 17 | 4.95 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 20 | 4.95 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 5 | 4.95 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 5 | 4.95 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 5 | 4.95 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 20 | 4.95 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 20 | 4.95 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 20 | 4.95 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 2 | 4.95 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 19 | 4.95 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 19 | 4.95 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 17 | 4.95 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 17 | 4.95 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 17 | 4.95 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 17 | 4.95 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 14 | 4.95 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 14 | 4.95 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 9 | 4.95 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 9 | 4.95 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 9 | 4.95 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 14 | 4.95 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 14 | 4.95 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 14 | 4.95 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 2 | 4.95 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 2 | 4.95 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 4 | 4.95 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 4 | 4.95 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 1 | 4.95 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 1 | 4.95 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 1 | 4.95 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 1 | 4.95 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 1 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 1 | 4.95 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 12 | 4.95 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 12 | 4.95 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 2 | 4.95 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 18 | 4.95 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 18 | 4.95 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 18 | 4.95 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 18 | 4.95 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 18 | 4.95 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 18 | 4.95 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 18 | 4.95 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 4.95 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 4.95 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 4.95 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 5 | 4.95 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 12 | 4.95 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 12 | 4.95 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 1 | 4.95 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 1 | 4.95 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 17 | 4.95 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 17 | 4.95 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 19 | 4.95 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 19 | 4.95 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 19 | 4.95 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 19 | 4.95 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 13 | 4.95 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 13 | 4.95 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 13 | 4.95 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 13 | 4.95 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 12 | 4.95 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 12 | 4.95 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 10 | 4.95 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 10 | 4.95 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 10 | 4.95 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 5 | 4.95 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 6 | 4.95 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 20 | 4.95 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 20 | 4.95 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 14 | 4.95 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 14 | 4.95 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 14 | 4.95 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 3 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 3 | 4.95 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 3 | 4.95 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 17 | 4.95 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 20 | 4.95 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 8 | 4.95 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 8 | 4.95 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 11 | 4.95 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 11 | 4.95 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 11 | 4.95 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 19 | 4.95 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 19 | 4.95 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 19 | 4.95 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 3 | 4.95 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 3 | 4.95 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 18 | 4.95 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 7 | 4.95 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 1 | 4.95 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 1 | 4.95 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 1 | 4.95 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 1 | 4.95 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 10 | 4.95 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 10 | 4.95 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 1 | 4.95 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 1 | 4.95 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 7 | 4.95 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 4.95 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 7 | 4.95 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 7 | 4.95 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 4.95 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 7 | 4.95 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 6 | 4.95 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 6 | 4.95 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 6 | 4.95 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 6 | 4.95 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 6 | 4.95 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 6 | 4.95 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 10 | 4.95 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 10 | 4.95 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 10 | 4.95 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 10 | 4.95 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 10 | 4.95 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 10 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 1 | 4.95 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 1 | 4.95 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 1 | 4.95 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 12 | 4.95 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 15 | 4.95 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 16 | 4.95 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 11 | 4.95 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 8 | 4.95 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 11 | 4.95 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 11 | 4.95 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 11 | 4.95 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 16 | 4.95 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 16 | 4.95 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 16 | 4.95 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 6 | 4.95 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 6 | 4.95 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 6 | 4.95 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 14 | 4.95 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 14 | 4.95 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 10 | 4.95 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 10 | 4.95 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 18 | 4.95 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 4.95 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 6 | 4.95 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 20 | 4.95 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 3 | 4.95 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 15 | 4.95 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 10 | 4.95 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 5 | 4.95 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 7 | 4.95 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 7 | 4.95 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 7 | 4.95 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 17 | 4.95 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 7 | 4.95 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 4.95 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 4.95 |
| (1,2111) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 4.95 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 19 | 4.95 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 19 | 4.95 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 19 | 4.95 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 8 | 4.95 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 9 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 7 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 7 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 7 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 7 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 7 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 7 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 10 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 10 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 10 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 10 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 10 | 4.95 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 10 | 4.95 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 2 | 4.95 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 2 | 4.95 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 2 | 4.95 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 18 | 4.95 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 18 | 4.95 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 18 | 4.95 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 4 | 4.95 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 4 | 4.95 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 4 | 4.95 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 19 | 4.95 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 4.95 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 17 | 4.95 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 17 | 4.95 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 17 | 4.95 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 10 | 4.95 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 15 | 4.95 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 12 | 4.95 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 15 | 4.95 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 15 | 4.95 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 15 | 4.95 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 12 | 4.95 |
| (1,990) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 14 | 4.95 |
| (1,990) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 14 | 4.95 |
| (1,990) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 14 | 4.95 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 14 | 4.95 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 7 | 4.95 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 7 | 4.95 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 7 | 4.95 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 12 | 4.95 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 3 | 4.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 19 | 4.95 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 16 | 4.95 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 12 | 4.95 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 4 | 4.95 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 4 | 4.95 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 4 | 4.95 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 11 | 4.95 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 20 | 4.95 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 20 | 4.95 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 20 | 4.95 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 20 | 4.95 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 20 | 4.95 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 20 | 4.95 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 19 | 4.95 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 19 | 4.95 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 1 | 4.94 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 10 | 4.94 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 2 | 4.94 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 2 | 4.94 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 5 | 4.94 |
| (1,9588) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 5 | 4.94 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 4 | 4.94 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 4 | 4.94 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 5 | 4.94 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 5 | 4.94 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 9 | 4.94 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 9 | 4.94 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 6 | 4.94 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 6 | 4.94 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 6 | 4.94 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 6 | 4.94 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 14 | 4.94 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 14 | 4.94 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 8 | 4.94 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 8 | 4.94 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 3 | 4.94 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 3 | 4.94 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 8 | 4.94 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 8 | 4.94 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 8 | 4.94 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 8 | 4.94 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 7 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 7 | 4.94 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 7 | 4.94 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 7 | 4.94 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 7 | 4.94 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 7 | 4.94 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 12 | 4.94 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 12 | 4.94 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 1 | 4.94 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 1 | 4.94 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 1 | 4.94 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 1 | 4.94 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 1 | 4.94 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 1 | 4.94 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 2 | 4.94 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 2 | 4.94 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 7 | 4.94 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 7 | 4.94 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 18 | 4.94 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 18 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 13 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 13 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 13 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 13 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 13 | 4.94 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 13 | 4.94 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 3 | 4.94 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 3 | 4.94 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 3 | 4.94 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 3 | 4.94 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 3 | 4.94 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 3 | 4.94 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 3 | 4.94 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 3 | 4.94 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 14 | 4.94 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 14 | 4.94 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 14 | 4.94 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 14 | 4.94 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 14 | 4.94 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 14 | 4.94 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 9 | 4.94 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 9 | 4.94 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 11 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 11 | 4.94 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 11 | 4.94 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 11 | 4.94 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 3 | 4.94 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 3 | 4.94 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 3 | 4.94 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 3 | 4.94 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 3 | 4.94 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 3 | 4.94 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 3 | 4.94 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 3 | 4.94 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 4 | 4.94 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 4 | 4.94 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 10 | 4.94 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 10 | 4.94 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 1 | 4.94 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 1 | 4.94 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 1 | 4.94 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 1 | 4.94 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 8 | 4.94 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 8 | 4.94 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 8 | 4.94 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 12 | 4.94 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 20 | 4.94 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 1 | 4.94 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 1 | 4.94 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 14 | 4.94 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 14 | 4.94 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 14 | 4.94 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 18 | 4.94 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 6 | 4.94 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 11 | 4.94 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 11 | 4.94 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 4 | 4.94 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 1 | 4.94 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 1 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 10 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 10 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 10 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 11 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 11 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 11 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 14 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 14 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 14 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 16 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 16 | 4.94 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 16 | 4.94 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 18 | 4.94 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 19 | 4.94 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 6 | 4.94 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 6 | 4.94 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 6 | 4.94 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 3 | 4.94 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 6 | 4.94 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 6 | 4.94 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 6 | 4.94 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 6 | 4.94 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 10 | 4.94 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 3 | 4.94 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 6 | 4.94 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 6 | 4.94 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 6 | 4.94 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 15 | 4.94 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 15 | 4.94 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 15 | 4.94 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 19 | 4.94 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 14 | 4.94 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 11 | 4.94 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 13 | 4.94 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 13 | 4.94 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 13 | 4.94 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 17 | 4.94 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 11 | 4.94 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 16 | 4.94 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 16 | 4.94 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 16 | 4.94 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 11 | 4.94 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 11 | 4.94 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 11 | 4.94 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 11 | 4.94 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 11 | 4.94 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 11 | 4.94 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 11 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 11 | 4.94 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 11 | 4.94 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 19 | 4.94 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 19 | 4.94 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 19 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 3 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 3 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 3 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 3 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 3 | 4.94 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 3 | 4.94 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 2 | 4.94 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 14 | 4.94 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 6 | 4.94 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 6 | 4.94 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 9 | 4.94 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 14 | 4.94 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 6 | 4.94 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 15 | 4.94 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 11 | 4.94 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 11 | 4.94 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 10 | 4.94 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 10 | 4.94 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 13 | 4.94 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 13 | 4.94 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 9 | 4.94 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 7 | 4.94 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 7 | 4.94 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 7 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 6 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 6 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 6 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 6 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 6 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 6 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 18 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 18 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 18 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 18 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 18 | 4.94 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 18 | 4.94 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 7 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 18 | 4.94 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 20 | 4.94 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 19 | 4.94 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 2 | 4.94 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 14 | 4.94 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 14 | 4.94 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 4 | 4.94 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 8 | 4.94 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 1 | 4.94 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 15 | 4.94 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 15 | 4.94 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 17 | 4.94 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 17 | 4.94 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 17 | 4.94 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 14 | 4.94 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 14 | 4.94 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 14 | 4.94 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 16 | 4.94 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 3 | 4.94 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 7 | 4.94 |
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 2 | 4.94 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 2 | 4.94 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 16 | 4.94 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 16 | 4.94 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 10 | 4.94 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 10 | 4.94 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 10 | 4.94 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 10 | 4.94 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 10 | 4.94 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 10 | 4.94 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 10 | 4.94 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 10 | 4.94 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 10 | 4.94 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 8 | 4.94 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 8 | 4.94 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 8 | 4.94 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 3 | 4.94 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 4 | 4.94 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 8 | 4.94 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 16 | 4.94 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 15 | 4.94 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 15 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 15 | 4.94 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 10 | 4.94 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 10 | 4.94 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 10 | 4.94 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 9 | 4.94 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 10 | 4.94 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 10 | 4.94 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 3 | 4.94 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 1 | 4.94 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 17 | 4.94 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 9 | 4.94 |
| (1,5586) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 6 | 4.94 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 14 | 4.94 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 14 | 4.94 |
| (1,5343) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 14 | 4.94 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 14 | 4.94 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 14 | 4.94 |
| (1,5343) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 14 | 4.94 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 14 | 4.94 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 14 | 4.94 |
| (1,5343) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 14 | 4.94 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 11 | 4.94 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 11 | 4.94 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 11 | 4.94 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 4 | 4.94 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 4 | 4.94 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 4 | 4.94 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 20 | 4.94 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 20 | 4.94 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 20 | 4.94 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 17 | 4.94 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 17 | 4.94 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 17 | 4.94 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 17 | 4.94 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 17 | 4.94 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 17 | 4.94 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 4 | 4.94 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 16 | 4.94 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 15 | 4.94 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 4 | 4.94 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 4 | 4.94 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 4 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 16 | 4.94 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 16 | 4.94 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 16 | 4.94 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 17 | 4.94 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 17 | 4.94 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 17 | 4.94 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 5 | 4.94 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 1 | 4.94 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 1 | 4.94 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 1 | 4.94 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 9 | 4.94 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 9 | 4.94 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 9 | 4.94 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 1 | 4.94 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 1 | 4.94 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 1 | 4.94 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 3 | 4.94 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 3 | 4.94 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 3 | 4.94 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 8 | 4.94 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 16 | 4.94 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 2 | 4.94 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 2 | 4.94 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 3 | 4.94 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 4 | 4.94 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 4 | 4.94 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 5 | 4.94 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 5 | 4.94 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 3 | 4.94 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 2 | 4.94 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 4.94 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 13 | 4.94 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 4.94 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 4.94 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 4.94 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 4.94 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 4.94 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 4.94 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 4.94 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 2 | 4.94 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 2 | 4.94 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 2 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 2 | 4.94 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 8 | 4.94 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 8 | 4.94 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 3 | 4.94 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 3 | 4.94 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 12 | 4.94 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 12 | 4.94 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 12 | 4.94 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 1 | 4.94 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 1 | 4.94 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 1 | 4.94 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 1 | 4.94 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 1 | 4.94 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 1 | 4.94 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 2 | 4.94 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 2 | 4.94 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 18 | 4.94 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 18 | 4.94 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 18 | 4.94 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 13 | 4.94 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 10 | 4.94 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 18 | 4.94 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 18 | 4.94 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 6 | 4.94 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 13 | 4.94 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 13 | 4.94 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 5 | 4.94 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 9 | 4.94 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 16 | 4.94 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 19 | 4.94 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 4 | 4.94 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 11 | 4.94 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 11 | 4.94 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 11 | 4.94 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 11 | 4.94 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 3 | 4.94 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 3 | 4.94 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 3 | 4.94 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 3 | 4.94 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 3 | 4.94 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 3 | 4.94 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 2 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 4 | 4.94 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 4 | 4.94 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 13 | 4.94 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 4 | 4.94 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 19 | 4.94 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 19 | 4.94 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 19 | 4.94 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 3 | 4.94 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 3 | 4.94 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 3 | 4.94 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 17 | 4.94 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 17 | 4.94 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 14 | 4.94 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 14 | 4.94 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 14 | 4.94 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 15 | 4.94 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 16 | 4.94 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 3 | 4.94 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 7 | 4.94 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 2 | 4.94 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 2 | 4.94 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 16 | 4.94 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 16 | 4.94 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 10 | 4.94 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 10 | 4.94 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 10 | 4.94 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 10 | 4.94 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 10 | 4.94 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 10 | 4.94 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 10 | 4.94 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 10 | 4.94 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 10 | 4.94 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 8 | 4.94 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 8 | 4.94 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 8 | 4.94 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 3 | 4.94 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 4 | 4.94 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 8 | 4.94 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 13 | 4.94 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 13 | 4.94 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 13 | 4.94 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 11 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 18 | 4.94 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 15 | 4.94 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 5 | 4.94 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 4.94 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 16 | 4.94 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 11 | 4.94 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 15 | 4.94 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 15 | 4.94 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 15 | 4.94 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 1 | 4.94 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 1 | 4.94 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 1 | 4.94 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 14 | 4.94 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 14 | 4.94 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 14 | 4.94 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 10 | 4.94 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 10 | 4.94 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 10 | 4.94 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 9 | 4.94 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 12 | 4.94 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 12 | 4.94 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 12 | 4.94 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 4 | 4.94 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 4 | 4.94 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 4 | 4.94 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 2 | 4.94 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 2 | 4.94 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 2 | 4.94 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 2 | 4.94 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 2 | 4.94 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 2 | 4.94 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 14 | 4.94 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 16 | 4.94 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 16 | 4.94 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 15 | 4.94 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 15 | 4.94 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 15 | 4.94 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 10 | 4.94 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 10 | 4.94 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 14 | 4.94 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 3 | 4.94 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 1 | 4.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 17 | 4.94 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 9 | 4.94 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 8 | 4.94 |
| (1,768) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 6 | 4.94 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 13 | 4.94 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 13 | 4.94 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 13 | 4.94 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 6 | 4.94 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 8 | 4.93 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 9 | 4.93 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 16 | 4.93 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 7 | 4.93 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 17 | 4.93 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 17 | 4.93 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 15 | 4.93 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 15 | 4.93 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 7 | 4.93 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 7 | 4.93 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 7 | 4.93 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 7 | 4.93 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 15 | 4.93 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 15 | 4.93 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 15 | 4.93 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 15 | 4.93 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 15 | 4.93 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 15 | 4.93 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 7 | 4.93 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 7 | 4.93 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 2 | 4.93 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 2 | 4.93 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 2 | 4.93 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 2 | 4.93 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 2 | 4.93 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 2 | 4.93 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 2 | 4.93 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 2 | 4.93 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 2 | 4.93 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 2 | 4.93 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 8 | 4.93 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 8 | 4.93 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 20 | 4.93 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 20 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 5 | 4.93 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 5 | 4.93 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 7 | 4.93 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 7 | 4.93 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 7 | 4.93 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 7 | 4.93 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 7 | 4.93 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 7 | 4.93 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 10 | 4.93 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 10 | 4.93 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 19 | 4.93 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 19 | 4.93 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 2 | 4.93 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 2 | 4.93 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 17 | 4.93 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 17 | 4.93 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 17 | 4.93 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 17 | 4.93 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 17 | 4.93 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 17 | 4.93 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 3 | 4.93 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 3 | 4.93 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 3 | 4.93 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 3 | 4.93 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 3 | 4.93 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 3 | 4.93 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 3 | 4.93 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 3 | 4.93 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 3 | 4.93 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 3 | 4.93 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 17 | 4.93 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 17 | 4.93 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 20 | 4.93 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 20 | 4.93 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 5 | 4.93 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 8 | 4.93 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 8 | 4.93 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 8 | 4.93 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 8 | 4.93 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 8 | 4.93 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 8 | 4.93 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 8 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 8 | 4.93 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 8 | 4.93 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 6 | 4.93 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 6 | 4.93 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 10 | 4.93 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 10 | 4.93 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 12 | 4.93 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 8 | 4.93 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 18 | 4.93 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 18 | 4.93 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 8 | 4.93 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 14 | 4.93 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 14 | 4.93 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 14 | 4.93 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 20 | 4.93 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 20 | 4.93 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 20 | 4.93 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 13 | 4.93 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 13 | 4.93 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 13 | 4.93 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 19 | 4.93 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 19 | 4.93 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 19 | 4.93 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG21 | 5 | 4.93 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG22 | 5 | 4.93 |
| (1,8101) | 1:93:A:ILE:HA | 1:158:A:ILE:HG23 | 5 | 4.93 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 7 | 4.93 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 7 | 4.93 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 7 | 4.93 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 9 | 4.93 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 9 | 4.93 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 9 | 4.93 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 17 | 4.93 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 17 | 4.93 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 17 | 4.93 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 11 | 4.93 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 13 | 4.93 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 7 | 4.93 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 7 | 4.93 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 7 | 4.93 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 6 | 4.93 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 11 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 11 | 4.93 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 11 | 4.93 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 14 | 4.93 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 14 | 4.93 |
| (1,7797) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 14 | 4.93 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 15 | 4.93 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 15 | 4.93 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 15 | 4.93 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 15 | 4.93 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 15 | 4.93 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 15 | 4.93 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 2 | 4.93 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 2 | 4.93 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 2 | 4.93 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 14 | 4.93 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 7 | 4.93 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 11 | 4.93 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 11 | 4.93 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 2 | 4.93 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 7 | 4.93 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 3 | 4.93 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 3 | 4.93 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 10 | 4.93 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 15 | 4.93 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 15 | 4.93 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 15 | 4.93 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 10 | 4.93 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 10 | 4.93 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 13 | 4.93 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 13 | 4.93 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 13 | 4.93 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 2 | 4.93 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 8 | 4.93 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 3 | 4.93 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 19 | 4.93 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 2 | 4.93 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 7 | 4.93 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 20 | 4.93 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 6 | 4.93 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 6 | 4.93 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 13 | 4.93 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 13 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 13 | 4.93 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 1 | 4.93 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 1 | 4.93 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 11 | 4.93 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 11 | 4.93 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 16 | 4.93 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 16 | 4.93 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 16 | 4.93 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 19 | 4.93 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 19 | 4.93 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 19 | 4.93 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 6 | 4.93 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 1 | 4.93 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 1 | 4.93 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 1 | 4.93 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 5 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 1 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 1 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 1 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 1 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 1 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 1 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 10 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 10 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 10 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 10 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 10 | 4.93 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 10 | 4.93 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 18 | 4.93 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 18 | 4.93 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 20 | 4.93 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 20 | 4.93 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 20 | 4.93 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 13 | 4.93 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 1 | 4.93 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 1 | 4.93 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 1 | 4.93 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 10 | 4.93 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 4 | 4.93 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 4 | 4.93 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 4 | 4.93 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 2 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 2 | 4.93 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 2 | 4.93 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 19 | 4.93 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 19 | 4.93 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 19 | 4.93 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 6 | 4.93 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 6 | 4.93 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 6 | 4.93 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 10 | 4.93 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 10 | 4.93 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 10 | 4.93 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 11 | 4.93 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 11 | 4.93 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 11 | 4.93 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 19 | 4.93 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 20 | 4.93 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 1 | 4.93 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 1 | 4.93 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 1 | 4.93 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 5 | 4.93 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 12 | 4.93 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 12 | 4.93 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 12 | 4.93 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 14 | 4.93 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 14 | 4.93 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 14 | 4.93 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 20 | 4.93 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 20 | 4.93 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 20 | 4.93 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 19 | 4.93 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 19 | 4.93 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 19 | 4.93 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 19 | 4.93 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 19 | 4.93 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 19 | 4.93 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 12 | 4.93 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 12 | 4.93 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 12 | 4.93 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 12 | 4.93 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 10 | 4.93 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 15 | 4.93 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 4 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 1 | 4.93 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 20 | 4.93 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 11 | 4.93 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 19 | 4.93 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 19 | 4.93 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 19 | 4.93 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 4 | 4.93 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 4 | 4.93 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 4 | 4.93 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 8 | 4.93 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 8 | 4.93 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 8 | 4.93 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 8 | 4.93 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 8 | 4.93 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 8 | 4.93 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 8 | 4.93 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 8 | 4.93 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 8 | 4.93 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 19 | 4.93 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 19 | 4.93 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 18 | 4.93 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 18 | 4.93 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 18 | 4.93 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 18 | 4.93 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 17 | 4.93 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 17 | 4.93 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 15 | 4.93 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 13 | 4.93 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 9 | 4.93 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 6 | 4.93 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 6 | 4.93 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 6 | 4.93 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 6 | 4.93 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 4.93 |
| (1,4322) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 2 | 4.93 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 5 | 4.93 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 5 | 4.93 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 5 | 4.93 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 5 | 4.93 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 4 | 4.93 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 4 | 4.93 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 4 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 4 | 4.93 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 4 | 4.93 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 4 | 4.93 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 3 | 4.93 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 5 | 4.93 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 5 | 4.93 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 17 | 4.93 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 8 | 4.93 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 2 | 4.93 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 12 | 4.93 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 3 | 4.93 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 13 | 4.93 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 11 | 4.93 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 11 | 4.93 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 11 | 4.93 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 11 | 4.93 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 11 | 4.93 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 11 | 4.93 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 11 | 4.93 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 11 | 4.93 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 11 | 4.93 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 11 | 4.93 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 11 | 4.93 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 11 | 4.93 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 8 | 4.93 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 13 | 4.93 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 17 | 4.93 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 17 | 4.93 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 17 | 4.93 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 17 | 4.93 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 17 | 4.93 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 17 | 4.93 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 6 | 4.93 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 4 | 4.93 |
| (1,3471) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 19 | 4.93 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 11 | 4.93 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 12 | 4.93 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 17 | 4.93 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 6 | 4.93 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 6 | 4.93 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 6 | 4.93 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 16 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 16 | 4.93 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 16 | 4.93 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 11 | 4.93 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 19 | 4.93 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 19 | 4.93 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 19 | 4.93 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 4.93 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 6 | 4.93 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 1 | 4.93 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 1 | 4.93 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 1 | 4.93 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 5 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 1 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 1 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 1 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 1 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 1 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 1 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 10 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 10 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 10 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 10 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 10 | 4.93 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 10 | 4.93 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 18 | 4.93 |
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 18 | 4.93 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 20 | 4.93 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 20 | 4.93 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 20 | 4.93 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 13 | 4.93 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 1 | 4.93 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 1 | 4.93 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 1 | 4.93 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 10 | 4.93 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 4 | 4.93 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 4 | 4.93 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 4 | 4.93 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 2 | 4.93 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 2 | 4.93 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 2 | 4.93 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 19 | 4.93 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 19 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 19 | 4.93 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 3 | 4.93 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 4.93 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 4.93 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 4.93 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 6 | 4.93 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 6 | 4.93 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 6 | 4.93 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 14 | 4.93 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 14 | 4.93 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 14 | 4.93 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 10 | 4.93 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 10 | 4.93 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 10 | 4.93 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 11 | 4.93 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 11 | 4.93 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 11 | 4.93 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 11 | 4.93 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 11 | 4.93 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 4.93 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 4.93 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 4.93 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 10 | 4.93 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 10 | 4.93 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 10 | 4.93 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 13 | 4.93 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 13 | 4.93 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 13 | 4.93 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 4 | 4.93 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 4.93 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 4.93 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 19 | 4.93 |
| (1,1190) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 6 | 4.93 |
| (1,1190) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 6 | 4.93 |
| (1,1190) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 6 | 4.93 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 20 | 4.93 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 1 | 4.93 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 1 | 4.93 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 1 | 4.93 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 5 | 4.93 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 12 | 4.93 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 12 | 4.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 12 | 4.93 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 14 | 4.93 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 14 | 4.93 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 14 | 4.93 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 18 | 4.93 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 18 | 4.93 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 18 | 4.93 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 20 | 4.93 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 20 | 4.93 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 20 | 4.93 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 6 | 4.93 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 2 | 4.93 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 18 | 4.93 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 12 | 4.93 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 12 | 4.93 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 12 | 4.93 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 19 | 4.93 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 19 | 4.93 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 19 | 4.93 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 19 | 4.93 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 19 | 4.93 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 19 | 4.93 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 6 | 4.93 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 19 | 4.93 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 19 | 4.93 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 19 | 4.93 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 6 | 4.93 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 3 | 4.92 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 11 | 4.92 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 13 | 4.92 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 14 | 4.92 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 14 | 4.92 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 1 | 4.92 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 1 | 4.92 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 1 | 4.92 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 1 | 4.92 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 1 | 4.92 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 1 | 4.92 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 8 | 4.92 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 8 | 4.92 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 9 | 4.92 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 9 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 9 | 4.92 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 9 | 4.92 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 9 | 4.92 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 9 | 4.92 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 12 | 4.92 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 12 | 4.92 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 12 | 4.92 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 12 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 2 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 2 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 2 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 2 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 2 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 2 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 6 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 6 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 6 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 6 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 6 | 4.92 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 6 | 4.92 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 2 | 4.92 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 2 | 4.92 |
| (1,9137) | 1:89:A:ILE:HG12 | 1:157:A:HIS:H | 3 | 4.92 |
| (1,9137) | 1:89:A:ILE:HG13 | 1:157:A:HIS:H | 3 | 4.92 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 3 | 4.92 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 3 | 4.92 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 3 | 4.92 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 3 | 4.92 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 3 | 4.92 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 3 | 4.92 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 7 | 4.92 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 7 | 4.92 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 14 | 4.92 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 14 | 4.92 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 18 | 4.92 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 18 | 4.92 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 12 | 4.92 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 12 | 4.92 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 12 | 4.92 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 12 | 4.92 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 12 | 4.92 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 12 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 13 | 4.92 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 13 | 4.92 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 3 | 4.92 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 3 | 4.92 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 3 | 4.92 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 3 | 4.92 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 9 | 4.92 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 9 | 4.92 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 9 | 4.92 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 9 | 4.92 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 9 | 4.92 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 9 | 4.92 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 10 | 4.92 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 10 | 4.92 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 10 | 4.92 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 10 | 4.92 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 10 | 4.92 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 10 | 4.92 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 19 | 4.92 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 19 | 4.92 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 10 | 4.92 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 10 | 4.92 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 10 | 4.92 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 10 | 4.92 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 10 | 4.92 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 10 | 4.92 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 6 | 4.92 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 6 | 4.92 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 6 | 4.92 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 6 | 4.92 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 14 | 4.92 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 14 | 4.92 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 13 | 4.92 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 13 | 4.92 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 13 | 4.92 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 13 | 4.92 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 14 | 4.92 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 14 | 4.92 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 14 | 4.92 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 14 | 4.92 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 7 | 4.92 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 7 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 15 | 4.92 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 15 | 4.92 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 15 | 4.92 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 6 | 4.92 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 5 | 4.92 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 11 | 4.92 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 7 | 4.92 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 7 | 4.92 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 7 | 4.92 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 20 | 4.92 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 12 | 4.92 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 12 | 4.92 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 4 | 4.92 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 4 | 4.92 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 8 | 4.92 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 3 | 4.92 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 4 | 4.92 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 4 | 4.92 |
| (1,8278) | 1:124:A:ALA:H | 1:125:A:PHE:HA | 9 | 4.92 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 14 | 4.92 |
| (1,8244) | 1:115:A:SER:H | 1:121:A:ASP:H | 5 | 4.92 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 1 | 4.92 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 1 | 4.92 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 9 | 4.92 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 11 | 4.92 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 4 | 4.92 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 4 | 4.92 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 5 | 4.92 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 5 | 4.92 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 5 | 4.92 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 3 | 4.92 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 14 | 4.92 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 14 | 4.92 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 14 | 4.92 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 8 | 4.92 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 8 | 4.92 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 8 | 4.92 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 2 | 4.92 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 2 | 4.92 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 2 | 4.92 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 14 | 4.92 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 14 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 14 | 4.92 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 6 | 4.92 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 12 | 4.92 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 10 | 4.92 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 10 | 4.92 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 10 | 4.92 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 10 | 4.92 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 10 | 4.92 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 10 | 4.92 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 10 | 4.92 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 10 | 4.92 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 10 | 4.92 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 12 | 4.92 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 12 | 4.92 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 12 | 4.92 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 12 | 4.92 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 12 | 4.92 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 12 | 4.92 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 12 | 4.92 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 12 | 4.92 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 12 | 4.92 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 18 | 4.92 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 20 | 4.92 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 11 | 4.92 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 11 | 4.92 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 11 | 4.92 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 10 | 4.92 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 9 | 4.92 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 4 | 4.92 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 4 | 4.92 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 8 | 4.92 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 1 | 4.92 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 15 | 4.92 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 17 | 4.92 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 17 | 4.92 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 10 | 4.92 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 10 | 4.92 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 11 | 4.92 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 8 | 4.92 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 14 | 4.92 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 7 | 4.92 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 7 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 7 | 4.92 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 15 | 4.92 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 15 | 4.92 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 15 | 4.92 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 3 | 4.92 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 12 | 4.92 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 4 | 4.92 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 7 | 4.92 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 16 | 4.92 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 16 | 4.92 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 16 | 4.92 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 18 | 4.92 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 16 | 4.92 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 15 | 4.92 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 6 | 4.92 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 6 | 4.92 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 6 | 4.92 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 12 | 4.92 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 10 | 4.92 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 10 | 4.92 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 10 | 4.92 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 17 | 4.92 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 14 | 4.92 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 14 | 4.92 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 14 | 4.92 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 4 | 4.92 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 6 | 4.92 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 19 | 4.92 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 4 | 4.92 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 5 | 4.92 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 11 | 4.92 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 15 | 4.92 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 13 | 4.92 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 13 | 4.92 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 13 | 4.92 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 16 | 4.92 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 16 | 4.92 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 16 | 4.92 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 16 | 4.92 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 16 | 4.92 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 16 | 4.92 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 1 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 1 | 4.92 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 1 | 4.92 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 1 | 4.92 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 1 | 4.92 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 1 | 4.92 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 13 | 4.92 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 13 | 4.92 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 13 | 4.92 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 18 | 4.92 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 18 | 4.92 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 18 | 4.92 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 19 | 4.92 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 9 | 4.92 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 12 | 4.92 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 2 | 4.92 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 16 | 4.92 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 17 | 4.92 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 17 | 4.92 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 10 | 4.92 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 6 | 4.92 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 6 | 4.92 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 6 | 4.92 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 8 | 4.92 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 9 | 4.92 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 10 | 4.92 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 4 | 4.92 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 18 | 4.92 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 16 | 4.92 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 16 | 4.92 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 16 | 4.92 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 3 | 4.92 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 3 | 4.92 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 3 | 4.92 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 3 | 4.92 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 3 | 4.92 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 3 | 4.92 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 8 | 4.92 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 8 | 4.92 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 8 | 4.92 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 17 | 4.92 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 17 | 4.92 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 17 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 17 | 4.92 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 17 | 4.92 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 17 | 4.92 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 17 | 4.92 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 17 | 4.92 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 17 | 4.92 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 1 | 4.92 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 1 | 4.92 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 1 | 4.92 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 16 | 4.92 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 8 | 4.92 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 1 | 4.92 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 6 | 4.92 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 8 | 4.92 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 8 | 4.92 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 8 | 4.92 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 8 | 4.92 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 8 | 4.92 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 8 | 4.92 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 8 | 4.92 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 8 | 4.92 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 8 | 4.92 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 7 | 4.92 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 7 | 4.92 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 7 | 4.92 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 7 | 4.92 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 7 | 4.92 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 7 | 4.92 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 13 | 4.92 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 13 | 4.92 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 13 | 4.92 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 1 | 4.92 |
| (1,4811) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 16 | 4.92 |
| (1,4811) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 16 | 4.92 |
| (1,4811) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 16 | 4.92 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 10 | 4.92 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 10 | 4.92 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 10 | 4.92 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 10 | 4.92 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 10 | 4.92 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 10 | 4.92 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 6 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 6 | 4.92 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 6 | 4.92 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 7 | 4.92 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 7 | 4.92 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 11 | 4.92 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 11 | 4.92 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 12 | 4.92 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 12 | 4.92 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 2 | 4.92 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 8 | 4.92 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 9 | 4.92 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 11 | 4.92 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 1 | 4.92 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 1 | 4.92 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 1 | 4.92 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 1 | 4.92 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 1 | 4.92 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 1 | 4.92 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 9 | 4.92 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 9 | 4.92 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 9 | 4.92 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 9 | 4.92 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 11 | 4.92 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 11 | 4.92 |
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 9 | 4.92 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 17 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 2 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 2 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 2 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 2 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 2 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 2 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 6 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 6 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 6 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 6 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 6 | 4.92 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 6 | 4.92 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 4 | 4.92 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 4 | 4.92 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 4 | 4.92 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 6 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 6 | 4.92 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 6 | 4.92 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 7 | 4.92 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 7 | 4.92 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 18 | 4.92 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 18 | 4.92 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 12 | 4.92 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 12 | 4.92 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 5 | 4.92 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 3 | 4.92 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 3 | 4.92 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 3 | 4.92 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 7 | 4.92 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 10 | 4.92 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 10 | 4.92 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 10 | 4.92 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 10 | 4.92 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 10 | 4.92 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 10 | 4.92 |
| (1,3720) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 4.92 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 15 | 4.92 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 19 | 4.92 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 13 | 4.92 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 13 | 4.92 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 13 | 4.92 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 13 | 4.92 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 12 | 4.92 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 7 | 4.92 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 7 | 4.92 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 6 | 4.92 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 8 | 4.92 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 14 | 4.92 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 7 | 4.92 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 16 | 4.92 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 16 | 4.92 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 16 | 4.92 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 18 | 4.92 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 16 | 4.92 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 15 | 4.92 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 6 | 4.92 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 6 | 4.92 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 6 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 10 | 4.92 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 10 | 4.92 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 20 | 4.92 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 14 | 4.92 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 14 | 4.92 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 14 | 4.92 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 14 | 4.92 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 14 | 4.92 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 14 | 4.92 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 5 | 4.92 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 5 | 4.92 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 5 | 4.92 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 5 | 4.92 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 5 | 4.92 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 5 | 4.92 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 12 | 4.92 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 10 | 4.92 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 10 | 4.92 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 10 | 4.92 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 17 | 4.92 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 14 | 4.92 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 14 | 4.92 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 14 | 4.92 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 4 | 4.92 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 6 | 4.92 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 19 | 4.92 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 4 | 4.92 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 5 | 4.92 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 11 | 4.92 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 12 | 4.92 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 1 | 4.92 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 13 | 4.92 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 13 | 4.92 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 13 | 4.92 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 16 | 4.92 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 16 | 4.92 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 16 | 4.92 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 16 | 4.92 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 16 | 4.92 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 16 | 4.92 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 1 | 4.92 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 1 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 1 | 4.92 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 1 | 4.92 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 1 | 4.92 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 1 | 4.92 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 13 | 4.92 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 13 | 4.92 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 13 | 4.92 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 18 | 4.92 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 18 | 4.92 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 18 | 4.92 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 14 | 4.92 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 14 | 4.92 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 17 | 4.92 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 17 | 4.92 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 17 | 4.92 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 19 | 4.92 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 9 | 4.92 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 4 | 4.92 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 12 | 4.92 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 2 | 4.92 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 16 | 4.92 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 17 | 4.92 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 17 | 4.92 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 10 | 4.92 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 6 | 4.92 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 6 | 4.92 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 6 | 4.92 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 8 | 4.92 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 9 | 4.92 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 10 | 4.92 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 2 | 4.92 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 2 | 4.92 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 2 | 4.92 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 4 | 4.92 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 18 | 4.92 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 16 | 4.92 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 16 | 4.92 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 16 | 4.92 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 14 | 4.92 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 3 | 4.92 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 3 | 4.92 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 3 | 4.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 3 | 4.92 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 3 | 4.92 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 3 | 4.92 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 13 | 4.92 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 13 | 4.92 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 8 | 4.92 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 13 | 4.92 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 18 | 4.92 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 18 | 4.92 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 18 | 4.92 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 11 | 4.91 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 8 | 4.91 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 1 | 4.91 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 19 | 4.91 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 19 | 4.91 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 11 | 4.91 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 11 | 4.91 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 11 | 4.91 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 11 | 4.91 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 11 | 4.91 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 11 | 4.91 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 18 | 4.91 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 18 | 4.91 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 17 | 4.91 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 17 | 4.91 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 16 | 4.91 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 16 | 4.91 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 11 | 4.91 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 11 | 4.91 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 13 | 4.91 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 13 | 4.91 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 2 | 4.91 |
| (1,9264) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 2 | 4.91 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 13 | 4.91 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 13 | 4.91 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 14 | 4.91 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 14 | 4.91 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 4 | 4.91 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 4 | 4.91 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 20 | 4.91 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 20 | 4.91 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 14 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 14 | 4.91 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 19 | 4.91 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 19 | 4.91 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 3 | 4.91 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 3 | 4.91 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 16 | 4.91 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 16 | 4.91 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 18 | 4.91 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 18 | 4.91 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 18 | 4.91 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 18 | 4.91 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 1 | 4.91 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 1 | 4.91 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 18 | 4.91 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 18 | 4.91 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 18 | 4.91 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 18 | 4.91 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 18 | 4.91 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 18 | 4.91 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 18 | 4.91 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 18 | 4.91 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 18 | 4.91 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 20 | 4.91 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 20 | 4.91 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 20 | 4.91 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 20 | 4.91 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 20 | 4.91 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 20 | 4.91 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 20 | 4.91 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 20 | 4.91 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 20 | 4.91 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 12 | 4.91 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 3 | 4.91 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 6 | 4.91 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 6 | 4.91 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 6 | 4.91 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 12 | 4.91 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 12 | 4.91 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 12 | 4.91 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 14 | 4.91 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 14 | 4.91 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 5 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 7 | 4.91 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 2 | 4.91 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 20 | 4.91 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 20 | 4.91 |
| (1,8269) | 1:121:A:ASP:H | 1:123:A:GLY:H | 20 | 4.91 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 1 | 4.91 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 10 | 4.91 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 10 | 4.91 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 10 | 4.91 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 10 | 4.91 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 18 | 4.91 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 7 | 4.91 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 8 | 4.91 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 10 | 4.91 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 2 | 4.91 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 17 | 4.91 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 17 | 4.91 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 17 | 4.91 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 16 | 4.91 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 16 | 4.91 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 16 | 4.91 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 11 | 4.91 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 15 | 4.91 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 15 | 4.91 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 15 | 4.91 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 1 | 4.91 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 1 | 4.91 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 13 | 4.91 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 13 | 4.91 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 13 | 4.91 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 16 | 4.91 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 8 | 4.91 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 17 | 4.91 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 17 | 4.91 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 17 | 4.91 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 10 | 4.91 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 10 | 4.91 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 10 | 4.91 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 14 | 4.91 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 14 | 4.91 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 14 | 4.91 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 14 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 14 | 4.91 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 14 | 4.91 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 14 | 4.91 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 14 | 4.91 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 14 | 4.91 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 10 | 4.91 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 11 | 4.91 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 11 | 4.91 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 11 | 4.91 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 19 | 4.91 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 14 | 4.91 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 15 | 4.91 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 1 | 4.91 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 14 | 4.91 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 14 | 4.91 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 15 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 2 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 2 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 2 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 2 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 2 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 2 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 3 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 3 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 3 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 3 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 3 | 4.91 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 3 | 4.91 |
| (1,7539) | 1:15:A:MET:H | 1:22:A:VAL:H | 20 | 4.91 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 9 | 4.91 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 1 | 4.91 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 5 | 4.91 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 14 | 4.91 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 1 | 4.91 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 1 | 4.91 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 1 | 4.91 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 1 | 4.91 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 15 | 4.91 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 5 | 4.91 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 18 | 4.91 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 18 | 4.91 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 17 | 4.91 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 17 | 4.91 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 19 | 4.91 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 19 | 4.91 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 19 | 4.91 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 19 | 4.91 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 19 | 4.91 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 19 | 4.91 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 5 | 4.91 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 5 | 4.91 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 5 | 4.91 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 3 | 4.91 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 3 | 4.91 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 3 | 4.91 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 16 | 4.91 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 16 | 4.91 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 16 | 4.91 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 10 | 4.91 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 10 | 4.91 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 10 | 4.91 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 15 | 4.91 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 19 | 4.91 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 15 | 4.91 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 15 | 4.91 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 10 | 4.91 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 10 | 4.91 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 7 | 4.91 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 8 | 4.91 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 8 | 4.91 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 8 | 4.91 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 15 | 4.91 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 15 | 4.91 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 15 | 4.91 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 15 | 4.91 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 15 | 4.91 |
| (1,6401) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 15 | 4.91 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 18 | 4.91 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 18 | 4.91 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 18 | 4.91 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 19 | 4.91 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 19 | 4.91 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 19 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 9 | 4.91 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 9 | 4.91 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 9 | 4.91 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 9 | 4.91 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 9 | 4.91 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 9 | 4.91 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 9 | 4.91 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 9 | 4.91 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 9 | 4.91 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 19 | 4.91 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 19 | 4.91 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 19 | 4.91 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 1 | 4.91 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 1 | 4.91 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 1 | 4.91 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 9 | 4.91 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 9 | 4.91 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 9 | 4.91 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 19 | 4.91 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 12 | 4.91 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 12 | 4.91 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 9 | 4.91 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 16 | 4.91 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 16 | 4.91 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 16 | 4.91 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 3 | 4.91 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 20 | 4.91 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 2 | 4.91 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 2 | 4.91 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 2 | 4.91 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 2 | 4.91 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 2 | 4.91 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 2 | 4.91 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 12 | 4.91 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 3 | 4.91 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 3 | 4.91 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 3 | 4.91 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 15 | 4.91 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 15 | 4.91 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 5 | 4.91 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 5 | 4.91 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 5 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 5 | 4.91 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 5 | 4.91 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 5 | 4.91 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 5 | 4.91 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 5 | 4.91 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 5 | 4.91 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 4 | 4.91 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 4 | 4.91 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 4 | 4.91 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 9 | 4.91 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 9 | 4.91 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 9 | 4.91 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 1 | 4.91 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 4 | 4.91 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 4 | 4.91 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 4 | 4.91 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 6 | 4.91 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 13 | 4.91 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 10 | 4.91 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 10 | 4.91 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 10 | 4.91 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 6 | 4.91 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 7 | 4.91 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 7 | 4.91 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 7 | 4.91 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 4 | 4.91 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 4 | 4.91 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 4 | 4.91 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 7 | 4.91 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 7 | 4.91 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 7 | 4.91 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 6 | 4.91 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 6 | 4.91 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 6 | 4.91 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 6 | 4.91 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 6 | 4.91 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 6 | 4.91 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 18 | 4.91 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 11 | 4.91 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 11 | 4.91 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 11 | 4.91 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 4 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 4 | 4.91 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 19 | 4.91 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 19 | 4.91 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 11 | 4.91 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 4.91 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 4.91 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 4.91 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 9 | 4.91 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 18 | 4.91 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 18 | 4.91 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 15 | 4.91 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 7 | 4.91 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 7 | 4.91 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 8 | 4.91 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 15 | 4.91 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 16 | 4.91 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 16 | 4.91 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 16 | 4.91 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 2 | 4.91 |
| (1,4258) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 2 | 4.91 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 17 | 4.91 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 17 | 4.91 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 13 | 4.91 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 13 | 4.91 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 9 | 4.91 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 9 | 4.91 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 9 | 4.91 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 4 | 4.91 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 7 | 4.91 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 17 | 4.91 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 9 | 4.91 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 15 | 4.91 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 4 | 4.91 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 4 | 4.91 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 18 | 4.91 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 12 | 4.91 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 9 | 4.91 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 10 | 4.91 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 14 | 4.91 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 14 | 4.91 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 16 | 4.91 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 3 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 3 | 4.91 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 16 | 4.91 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 16 | 4.91 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 18 | 4.91 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 18 | 4.91 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 18 | 4.91 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 18 | 4.91 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 2 | 4.91 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 10 | 4.91 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 14 | 4.91 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 9 | 4.91 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 15 | 4.91 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 18 | 4.91 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 18 | 4.91 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 4.91 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 17 | 4.91 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 17 | 4.91 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 5 | 4.91 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 5 | 4.91 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 14 | 4.91 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 14 | 4.91 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 14 | 4.91 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 19 | 4.91 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 19 | 4.91 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 19 | 4.91 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 19 | 4.91 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 19 | 4.91 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 19 | 4.91 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 5 | 4.91 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 5 | 4.91 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 5 | 4.91 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 3 | 4.91 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 3 | 4.91 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 3 | 4.91 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 16 | 4.91 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 16 | 4.91 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 16 | 4.91 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 10 | 4.91 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 10 | 4.91 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 10 | 4.91 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 15 | 4.91 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 8 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 19 | 4.91 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 15 | 4.91 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 15 | 4.91 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 10 | 4.91 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 10 | 4.91 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 4.91 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 4.91 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 4 | 4.91 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 4.91 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 4 | 4.91 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 13 | 4.91 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 8 | 4.91 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 8 | 4.91 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 8 | 4.91 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 15 | 4.91 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 15 | 4.91 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 15 | 4.91 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 15 | 4.91 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 15 | 4.91 |
| (1,2114) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 15 | 4.91 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 10 | 4.91 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 10 | 4.91 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 10 | 4.91 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 16 | 4.91 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 16 | 4.91 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 16 | 4.91 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 18 | 4.91 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 18 | 4.91 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 18 | 4.91 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 19 | 4.91 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 19 | 4.91 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 19 | 4.91 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 9 | 4.91 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 9 | 4.91 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 9 | 4.91 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 9 | 4.91 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 9 | 4.91 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 9 | 4.91 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 9 | 4.91 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 9 | 4.91 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 9 | 4.91 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 8 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 8 | 4.91 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 8 | 4.91 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 19 | 4.91 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 19 | 4.91 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 19 | 4.91 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 1 | 4.91 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 1 | 4.91 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 1 | 4.91 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 9 | 4.91 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 9 | 4.91 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 9 | 4.91 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 10 | 4.91 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 19 | 4.91 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 12 | 4.91 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 12 | 4.91 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 9 | 4.91 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 16 | 4.91 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 16 | 4.91 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 16 | 4.91 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 7 | 4.91 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 7 | 4.91 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 7 | 4.91 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 3 | 4.91 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 20 | 4.91 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 7 | 4.91 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 10 | 4.91 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 2 | 4.91 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 2 | 4.91 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 2 | 4.91 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 2 | 4.91 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 2 | 4.91 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 2 | 4.91 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 14 | 4.91 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 12 | 4.91 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 3 | 4.91 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 3 | 4.91 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 3 | 4.91 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 15 | 4.91 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 15 | 4.91 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 5 | 4.91 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 5 | 4.91 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 5 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 5 | 4.91 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 5 | 4.91 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 5 | 4.91 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 5 | 4.91 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 5 | 4.91 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 5 | 4.91 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 17 | 4.91 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 17 | 4.91 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 17 | 4.91 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 17 | 4.91 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 17 | 4.91 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 17 | 4.91 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 17 | 4.91 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 17 | 4.91 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 17 | 4.91 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 10 | 4.91 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 10 | 4.91 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 9 | 4.9 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 19 | 4.9 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 1 | 4.9 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 1 | 4.9 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 3 | 4.9 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 3 | 4.9 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 3 | 4.9 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 3 | 4.9 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 14 | 4.9 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 14 | 4.9 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 14 | 4.9 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 14 | 4.9 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 13 | 4.9 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 13 | 4.9 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 13 | 4.9 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 13 | 4.9 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 13 | 4.9 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 13 | 4.9 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 8 | 4.9 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 8 | 4.9 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 11 | 4.9 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 11 | 4.9 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB2 | 12 | 4.9 |
| (1,9360) | 1:115:A:SER:H | 1:117:A:LYS:HB3 | 12 | 4.9 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 15 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 15 | 4.9 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 4.9 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 4.9 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 4.9 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 4.9 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 20 | 4.9 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 20 | 4.9 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 20 | 4.9 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 20 | 4.9 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 13 | 4.9 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 13 | 4.9 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 13 | 4.9 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 13 | 4.9 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 13 | 4.9 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 13 | 4.9 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 19 | 4.9 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 19 | 4.9 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 19 | 4.9 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 19 | 4.9 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 19 | 4.9 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 19 | 4.9 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 15 | 4.9 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 15 | 4.9 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 11 | 4.9 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 11 | 4.9 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 5 | 4.9 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 5 | 4.9 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 5 | 4.9 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 5 | 4.9 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 19 | 4.9 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 19 | 4.9 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 19 | 4.9 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 19 | 4.9 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 15 | 4.9 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 15 | 4.9 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 10 | 4.9 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 10 | 4.9 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 19 | 4.9 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 19 | 4.9 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 11 | 4.9 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 11 | 4.9 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 14 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 14 | 4.9 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 14 | 4.9 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 14 | 4.9 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 18 | 4.9 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 18 | 4.9 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 14 | 4.9 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 11 | 4.9 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 11 | 4.9 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 11 | 4.9 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 11 | 4.9 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 11 | 4.9 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 11 | 4.9 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 11 | 4.9 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 11 | 4.9 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 11 | 4.9 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 15 | 4.9 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 15 | 4.9 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 15 | 4.9 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 15 | 4.9 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 15 | 4.9 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 15 | 4.9 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 15 | 4.9 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 15 | 4.9 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 15 | 4.9 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 16 | 4.9 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 7 | 4.9 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 7 | 4.9 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 7 | 4.9 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 7 | 4.9 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 7 | 4.9 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 7 | 4.9 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 20 | 4.9 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 18 | 4.9 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 18 | 4.9 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 18 | 4.9 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 14 | 4.9 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 3 | 4.9 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 3 | 4.9 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 16 | 4.9 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 15 | 4.9 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 15 | 4.9 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 15 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 3 | 4.9 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 3 | 4.9 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 2 | 4.9 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 5 | 4.9 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 5 | 4.9 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 5 | 4.9 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 1 | 4.9 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 1 | 4.9 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 1 | 4.9 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 5 | 4.9 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 8 | 4.9 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 15 | 4.9 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 15 | 4.9 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 15 | 4.9 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 6 | 4.9 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 6 | 4.9 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 12 | 4.9 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 12 | 4.9 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 10 | 4.9 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 10 | 4.9 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 7 | 4.9 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 7 | 4.9 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 7 | 4.9 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 7 | 4.9 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 7 | 4.9 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 7 | 4.9 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 7 | 4.9 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 7 | 4.9 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 7 | 4.9 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 11 | 4.9 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 11 | 4.9 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 11 | 4.9 |
| (1,8093) | 1:92:A:TYR:HA | 1:106:A:LEU:HG | 2 | 4.9 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 5 | 4.9 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 5 | 4.9 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 5 | 4.9 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 17 | 4.9 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 17 | 4.9 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 17 | 4.9 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 2 | 4.9 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 8 | 4.9 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 19 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 15 | 4.9 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 15 | 4.9 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 15 | 4.9 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 15 | 4.9 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 15 | 4.9 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 15 | 4.9 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 15 | 4.9 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 15 | 4.9 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 15 | 4.9 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 15 | 4.9 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 17 | 4.9 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 7 | 4.9 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 8 | 4.9 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 8 | 4.9 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 11 | 4.9 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 20 | 4.9 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 12 | 4.9 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 19 | 4.9 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 20 | 4.9 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 17 | 4.9 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 17 | 4.9 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 18 | 4.9 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 18 | 4.9 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 15 | 4.9 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 15 | 4.9 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 20 | 4.9 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 3 | 4.9 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 18 | 4.9 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 19 | 4.9 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 15 | 4.9 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 9 | 4.9 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 18 | 4.9 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 18 | 4.9 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 10 | 4.9 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 12 | 4.9 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 20 | 4.9 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 20 | 4.9 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 20 | 4.9 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 19 | 4.9 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 19 | 4.9 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 10 | 4.9 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 7 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 7 | 4.9 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 7 | 4.9 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 5 | 4.9 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 5 | 4.9 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 13 | 4.9 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 12 | 4.9 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 9 | 4.9 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 9 | 4.9 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 9 | 4.9 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 9 | 4.9 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 7 | 4.9 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 8 | 4.9 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 8 | 4.9 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 6 | 4.9 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 6 | 4.9 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 6 | 4.9 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 18 | 4.9 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 15 | 4.9 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 15 | 4.9 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 15 | 4.9 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 3 | 4.9 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 3 | 4.9 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 3 | 4.9 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 14 | 4.9 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 14 | 4.9 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 14 | 4.9 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 4 | 4.9 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 9 | 4.9 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 9 | 4.9 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 1 | 4.9 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 1 | 4.9 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 1 | 4.9 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 15 | 4.9 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 13 | 4.9 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 4 | 4.9 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 11 | 4.9 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 19 | 4.9 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 19 | 4.9 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 19 | 4.9 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 1 | 4.9 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 1 | 4.9 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 1 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 1 | 4.9 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 1 | 4.9 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 1 | 4.9 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 1 | 4.9 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 1 | 4.9 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 1 | 4.9 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 8 | 4.9 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 1 | 4.9 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 1 | 4.9 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 1 | 4.9 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 12 | 4.9 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 16 | 4.9 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 19 | 4.9 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 20 | 4.9 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 20 | 4.9 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 20 | 4.9 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 1 | 4.9 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 1 | 4.9 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 1 | 4.9 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 4 | 4.9 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 4 | 4.9 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 4 | 4.9 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 12 | 4.9 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 12 | 4.9 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 5 | 4.9 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 17 | 4.9 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 17 | 4.9 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 17 | 4.9 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 17 | 4.9 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 3 | 4.9 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 15 | 4.9 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 8 | 4.9 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 8 | 4.9 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 16 | 4.9 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 16 | 4.9 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 16 | 4.9 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 16 | 4.9 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 16 | 4.9 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 16 | 4.9 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 1 | 4.9 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 1 | 4.9 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 1 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 9 | 4.9 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 9 | 4.9 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 9 | 4.9 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 16 | 4.9 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 16 | 4.9 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 2 | 4.9 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 2 | 4.9 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 2 | 4.9 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 2 | 4.9 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 2 | 4.9 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 2 | 4.9 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 9 | 4.9 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 9 | 4.9 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 9 | 4.9 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 10 | 4.9 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 10 | 4.9 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 10 | 4.9 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 13 | 4.9 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 13 | 4.9 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 13 | 4.9 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 18 | 4.9 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 18 | 4.9 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 18 | 4.9 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 5 | 4.9 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 4 | 4.9 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 1 | 4.9 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 1 | 4.9 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 1 | 4.9 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 2 | 4.9 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 6 | 4.9 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 5 | 4.9 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 20 | 4.9 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 20 | 4.9 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 20 | 4.9 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 17 | 4.9 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 19 | 4.9 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 1 | 4.9 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 1 | 4.9 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 1 | 4.9 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 9 | 4.9 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 9 | 4.9 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 9 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 8 | 4.9 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 1 | 4.9 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 1 | 4.9 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 1 | 4.9 |
| (1,4834) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 20 | 4.9 |
| (1,4834) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 20 | 4.9 |
| (1,4834) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 20 | 4.9 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 10 | 4.9 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 10 | 4.9 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 10 | 4.9 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 2 | 4.9 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 2 | 4.9 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 2 | 4.9 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 1 | 4.9 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 1 | 4.9 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 1 | 4.9 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 5 | 4.9 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 11 | 4.9 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 11 | 4.9 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 11 | 4.9 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 10 | 4.9 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 8 | 4.9 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 8 | 4.9 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 8 | 4.9 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 11 | 4.9 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 11 | 4.9 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 11 | 4.9 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 10 | 4.9 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 10 | 4.9 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 10 | 4.9 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 2 | 4.9 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 2 | 4.9 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 16 | 4.9 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 16 | 4.9 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 5 | 4.9 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 19 | 4.9 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 19 | 4.9 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 19 | 4.9 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 19 | 4.9 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 19 | 4.9 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 19 | 4.9 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 12 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 12 | 4.9 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 13 | 4.9 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 14 | 4.9 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 14 | 4.9 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 14 | 4.9 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 14 | 4.9 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 13 | 4.9 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 18 | 4.9 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 15 | 4.9 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 15 | 4.9 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 8 | 4.9 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 4.9 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 4.9 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 4.9 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 4.9 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 16 | 4.9 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 15 | 4.9 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 13 | 4.9 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 13 | 4.9 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 13 | 4.9 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 13 | 4.9 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 13 | 4.9 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 13 | 4.9 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 10 | 4.9 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 10 | 4.9 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 10 | 4.9 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 14 | 4.9 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 14 | 4.9 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 14 | 4.9 |
| (1,4018) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 2 | 4.9 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 19 | 4.9 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 19 | 4.9 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 19 | 4.9 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 3 | 4.9 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 3 | 4.9 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 6 | 4.9 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 19 | 4.9 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 19 | 4.9 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 19 | 4.9 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 19 | 4.9 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 19 | 4.9 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 17 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 17 | 4.9 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 9 | 4.9 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 9 | 4.9 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 18 | 4.9 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 12 | 4.9 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 4.9 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 4.9 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 5 | 4.9 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 5 | 4.9 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 7 | 4.9 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 7 | 4.9 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 7 | 4.9 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 7 | 4.9 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 18 | 4.9 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 18 | 4.9 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 2 | 4.9 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 2 | 4.9 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 2 | 4.9 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 2 | 4.9 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 2 | 4.9 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 2 | 4.9 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 7 | 4.9 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 9 | 4.9 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 15 | 4.9 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 16 | 4.9 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 16 | 4.9 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 8 | 4.9 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 8 | 4.9 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 3 | 4.9 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 3 | 4.9 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 3 | 4.9 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 5 | 4.9 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 6 | 4.9 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 6 | 4.9 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 6 | 4.9 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 18 | 4.9 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 9 | 4.9 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 15 | 4.9 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 15 | 4.9 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 15 | 4.9 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 3 | 4.9 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 3 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 3 | 4.9 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 14 | 4.9 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 14 | 4.9 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 14 | 4.9 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 4 | 4.9 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 9 | 4.9 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 9 | 4.9 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 4 | 4.9 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 4 | 4.9 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 5 | 4.9 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 5 | 4.9 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 1 | 4.9 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 1 | 4.9 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 1 | 4.9 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 15 | 4.9 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 13 | 4.9 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 4 | 4.9 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 11 | 4.9 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 19 | 4.9 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 19 | 4.9 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 19 | 4.9 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 9 | 4.9 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 7 | 4.9 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 11 | 4.9 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 1 | 4.9 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 1 | 4.9 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 1 | 4.9 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 6 | 4.9 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 6 | 4.9 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 6 | 4.9 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 1 | 4.9 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 1 | 4.9 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 1 | 4.9 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 1 | 4.9 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 1 | 4.9 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 1 | 4.9 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 8 | 4.9 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 8 | 4.9 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 1 | 4.9 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 1 | 4.9 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 1 | 4.9 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 12 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 16 | 4.9 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 15 | 4.9 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 15 | 4.9 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 15 | 4.9 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 19 | 4.9 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 6 | 4.9 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 6 | 4.9 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 6 | 4.9 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 20 | 4.9 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 20 | 4.9 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 20 | 4.9 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 1 | 4.9 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 1 | 4.9 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 1 | 4.9 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 4 | 4.9 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 4 | 4.9 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 4 | 4.9 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 5 | 4.9 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 5 | 4.9 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 5 | 4.9 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 12 | 4.9 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 12 | 4.9 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 5 | 4.9 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 6 | 4.9 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 6 | 4.9 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 6 | 4.9 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 17 | 4.9 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 17 | 4.9 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 17 | 4.9 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 17 | 4.9 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 3 | 4.9 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 19 | 4.9 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 15 | 4.9 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 8 | 4.9 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 8 | 4.9 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 16 | 4.9 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 16 | 4.9 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 16 | 4.9 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 5 | 4.9 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 16 | 4.9 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 16 | 4.9 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 16 | 4.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 1 | 4.9 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 1 | 4.9 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 1 | 4.9 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 9 | 4.9 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 9 | 4.9 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 9 | 4.9 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 16 | 4.9 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 16 | 4.9 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 2 | 4.9 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 2 | 4.9 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 2 | 4.9 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 2 | 4.9 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 2 | 4.9 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 2 | 4.9 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 8 | 4.9 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 18 | 4.89 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 19 | 4.89 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 2 | 4.89 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 4 | 4.89 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 4 | 4.89 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 1 | 4.89 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 1 | 4.89 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 11 | 4.89 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 11 | 4.89 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 11 | 4.89 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 11 | 4.89 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 11 | 4.89 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 11 | 4.89 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 5 | 4.89 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 5 | 4.89 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 8 | 4.89 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 8 | 4.89 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 8 | 4.89 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 8 | 4.89 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 12 | 4.89 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 12 | 4.89 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 1 | 4.89 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 1 | 4.89 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 1 | 4.89 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 1 | 4.89 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 1 | 4.89 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 1 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 7 | 4.89 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 7 | 4.89 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 7 | 4.89 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 7 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 16 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 16 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 16 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 16 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 16 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 16 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 18 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 18 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 18 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 18 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 18 | 4.89 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 18 | 4.89 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 19 | 4.89 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 19 | 4.89 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 20 | 4.89 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 20 | 4.89 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 2 | 4.89 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 2 | 4.89 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 5 | 4.89 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 5 | 4.89 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 8 | 4.89 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 8 | 4.89 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 1 | 4.89 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 1 | 4.89 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 13 | 4.89 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 13 | 4.89 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 13 | 4.89 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 13 | 4.89 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 13 | 4.89 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 13 | 4.89 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 7 | 4.89 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 7 | 4.89 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 10 | 4.89 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 10 | 4.89 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 10 | 4.89 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 10 | 4.89 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 10 | 4.89 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 10 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 4 | 4.89 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 4 | 4.89 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 4 | 4.89 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 4 | 4.89 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 4 | 4.89 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 4 | 4.89 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 8 | 4.89 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 8 | 4.89 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 8 | 4.89 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 8 | 4.89 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 13 | 4.89 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 13 | 4.89 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 13 | 4.89 |
| (1,8781) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 13 | 4.89 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 13 | 4.89 |
| (1,8781) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 13 | 4.89 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 5 | 4.89 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 5 | 4.89 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 5 | 4.89 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 5 | 4.89 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 5 | 4.89 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 5 | 4.89 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 3 | 4.89 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 3 | 4.89 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 3 | 4.89 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 5 | 4.89 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 5 | 4.89 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 5 | 4.89 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 1 | 4.89 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 1 | 4.89 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 1 | 4.89 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 1 | 4.89 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 1 | 4.89 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 1 | 4.89 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 9 | 4.89 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 5 | 4.89 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 14 | 4.89 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 14 | 4.89 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 14 | 4.89 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 9 | 4.89 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 6 | 4.89 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 6 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 6 | 4.89 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 7 | 4.89 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 13 | 4.89 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 11 | 4.89 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 11 | 4.89 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 11 | 4.89 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 8 | 4.89 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 8 | 4.89 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 8 | 4.89 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 17 | 4.89 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 17 | 4.89 |
| (1,8176) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 17 | 4.89 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 16 | 4.89 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 16 | 4.89 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 3 | 4.89 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 3 | 4.89 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 3 | 4.89 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 3 | 4.89 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 3 | 4.89 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 3 | 4.89 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 3 | 4.89 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 3 | 4.89 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 3 | 4.89 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 2 | 4.89 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 15 | 4.89 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 20 | 4.89 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 10 | 4.89 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 16 | 4.89 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 6 | 4.89 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 6 | 4.89 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 6 | 4.89 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 6 | 4.89 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 6 | 4.89 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 6 | 4.89 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 6 | 4.89 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 6 | 4.89 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 6 | 4.89 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 6 | 4.89 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 6 | 4.89 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 6 | 4.89 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 19 | 4.89 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 16 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 16 | 4.89 |
| (1,7808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 16 | 4.89 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 16 | 4.89 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 16 | 4.89 |
| (1,7808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 16 | 4.89 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 16 | 4.89 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 16 | 4.89 |
| (1,7808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 16 | 4.89 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 16 | 4.89 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 16 | 4.89 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 16 | 4.89 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 9 | 4.89 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 9 | 4.89 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 9 | 4.89 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 13 | 4.89 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 13 | 4.89 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 13 | 4.89 |
| (1,7752) | 1:55:A:VAL:H | 1:57:A:CYS:H | 15 | 4.89 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 20 | 4.89 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 20 | 4.89 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB1 | 13 | 4.89 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB2 | 13 | 4.89 |
| (1,7734) | 1:54:A:ARG:H | 1:124:A:ALA:HB3 | 13 | 4.89 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 18 | 4.89 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 20 | 4.89 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 20 | 4.89 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 20 | 4.89 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 20 | 4.89 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 8 | 4.89 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 5 | 4.89 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 5 | 4.89 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 5 | 4.89 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 13 | 4.89 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 13 | 4.89 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 13 | 4.89 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 1 | 4.89 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 2 | 4.89 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 2 | 4.89 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 12 | 4.89 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 16 | 4.89 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 6 | 4.89 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 6 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 6 | 4.89 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 2 | 4.89 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 2 | 4.89 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 2 | 4.89 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 1 | 4.89 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 1 | 4.89 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 13 | 4.89 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 13 | 4.89 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 13 | 4.89 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 18 | 4.89 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 12 | 4.89 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 12 | 4.89 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 12 | 4.89 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 17 | 4.89 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 17 | 4.89 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 17 | 4.89 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 15 | 4.89 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 8 | 4.89 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 8 | 4.89 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 11 | 4.89 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 11 | 4.89 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 20 | 4.89 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 20 | 4.89 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 20 | 4.89 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 20 | 4.89 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 20 | 4.89 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 20 | 4.89 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 14 | 4.89 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 19 | 4.89 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 19 | 4.89 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 19 | 4.89 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 11 | 4.89 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 11 | 4.89 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 11 | 4.89 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 10 | 4.89 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 11 | 4.89 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 11 | 4.89 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 17 | 4.89 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 17 | 4.89 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 17 | 4.89 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 2 | 4.89 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 2 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 2 | 4.89 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 17 | 4.89 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 2 | 4.89 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 17 | 4.89 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 5 | 4.89 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 17 | 4.89 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 17 | 4.89 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 17 | 4.89 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 17 | 4.89 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 7 | 4.89 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 2 | 4.89 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 2 | 4.89 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 2 | 4.89 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 7 | 4.89 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 7 | 4.89 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 7 | 4.89 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 7 | 4.89 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 7 | 4.89 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 7 | 4.89 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 7 | 4.89 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 7 | 4.89 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 7 | 4.89 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 5 | 4.89 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 4 | 4.89 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 4 | 4.89 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 4 | 4.89 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 7 | 4.89 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 7 | 4.89 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 4 | 4.89 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 14 | 4.89 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 5 | 4.89 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 15 | 4.89 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 15 | 4.89 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 15 | 4.89 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 1 | 4.89 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 1 | 4.89 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 1 | 4.89 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 18 | 4.89 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 12 | 4.89 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 3 | 4.89 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 3 | 4.89 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 3 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 3 | 4.89 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 3 | 4.89 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 3 | 4.89 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 6 | 4.89 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 6 | 4.89 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 6 | 4.89 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 6 | 4.89 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 6 | 4.89 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 6 | 4.89 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 16 | 4.89 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 16 | 4.89 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 16 | 4.89 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 16 | 4.89 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 16 | 4.89 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 16 | 4.89 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 19 | 4.89 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 19 | 4.89 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 19 | 4.89 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 15 | 4.89 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 4 | 4.89 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 10 | 4.89 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 19 | 4.89 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 20 | 4.89 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 7 | 4.89 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 9 | 4.89 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 4 | 4.89 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 15 | 4.89 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 12 | 4.89 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 12 | 4.89 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 12 | 4.89 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 5 | 4.89 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 5 | 4.89 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 5 | 4.89 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 6 | 4.89 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 5 | 4.89 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 5 | 4.89 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 5 | 4.89 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 5 | 4.89 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 5 | 4.89 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 5 | 4.89 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 5 | 4.89 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 5 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 5 | 4.89 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 17 | 4.89 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 7 | 4.89 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 5 | 4.89 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 5 | 4.89 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 5 | 4.89 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 6 | 4.89 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 6 | 4.89 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 6 | 4.89 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 4 | 4.89 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 4 | 4.89 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 1 | 4.89 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 1 | 4.89 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 8 | 4.89 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 8 | 4.89 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 8 | 4.89 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 8 | 4.89 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 8 | 4.89 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 8 | 4.89 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 10 | 4.89 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 12 | 4.89 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 4.89 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 5 | 4.89 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 5 | 4.89 |
| (1,4408) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 18 | 4.89 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 7 | 4.89 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 7 | 4.89 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 7 | 4.89 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 7 | 4.89 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 4 | 4.89 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 4 | 4.89 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 3 | 4.89 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 13 | 4.89 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 18 | 4.89 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 18 | 4.89 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 18 | 4.89 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 19 | 4.89 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 19 | 4.89 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 12 | 4.89 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 12 | 4.89 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 12 | 4.89 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 10 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 4.89 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 4.89 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 4.89 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 10 | 4.89 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 10 | 4.89 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 10 | 4.89 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 16 | 4.89 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 14 | 4.89 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 14 | 4.89 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 14 | 4.89 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 1 | 4.89 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 1 | 4.89 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 1 | 4.89 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 1 | 4.89 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 1 | 4.89 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 1 | 4.89 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 8 | 4.89 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 8 | 4.89 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 2 | 4.89 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 11 | 4.89 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 11 | 4.89 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 11 | 4.89 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 3 | 4.89 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 3 | 4.89 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 3 | 4.89 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 6 | 4.89 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 6 | 4.89 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 6 | 4.89 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 6 | 4.89 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 18 | 4.89 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 18 | 4.89 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 18 | 4.89 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 5 | 4.89 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 5 | 4.89 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 5 | 4.89 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 5 | 4.89 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 5 | 4.89 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 5 | 4.89 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 4.89 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 11 | 4.89 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 4.89 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 11 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 9 | 4.89 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 15 | 4.89 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 12 | 4.89 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 12 | 4.89 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 12 | 4.89 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 11 | 4.89 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 11 | 4.89 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 11 | 4.89 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 8 | 4.89 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 8 | 4.89 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 11 | 4.89 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 11 | 4.89 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 20 | 4.89 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 20 | 4.89 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 20 | 4.89 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 20 | 4.89 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 20 | 4.89 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 20 | 4.89 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 14 | 4.89 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 19 | 4.89 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 19 | 4.89 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 19 | 4.89 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 11 | 4.89 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 11 | 4.89 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 11 | 4.89 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 10 | 4.89 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 11 | 4.89 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 11 | 4.89 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 9 | 4.89 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 4.89 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 9 | 4.89 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 17 | 4.89 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 17 | 4.89 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 17 | 4.89 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 2 | 4.89 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 2 | 4.89 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 2 | 4.89 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 17 | 4.89 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 2 | 4.89 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 17 | 4.89 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 5 | 4.89 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 2 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 17 | 4.89 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 17 | 4.89 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 17 | 4.89 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 17 | 4.89 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 7 | 4.89 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 4.89 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 2 | 4.89 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 2 | 4.89 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 2 | 4.89 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 7 | 4.89 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 7 | 4.89 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 7 | 4.89 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 7 | 4.89 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 7 | 4.89 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 7 | 4.89 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 7 | 4.89 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 7 | 4.89 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 7 | 4.89 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 4.89 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 18 | 4.89 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 5 | 4.89 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 4 | 4.89 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 4 | 4.89 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 4 | 4.89 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 7 | 4.89 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 7 | 4.89 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 4 | 4.89 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 11 | 4.89 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 11 | 4.89 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 11 | 4.89 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 7 | 4.89 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 14 | 4.89 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 6 | 4.89 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 6 | 4.89 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 6 | 4.89 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 1 | 4.89 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 1 | 4.89 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 1 | 4.89 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 1 | 4.89 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 1 | 4.89 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 1 | 4.89 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 5 | 4.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 3 | 4.89 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 15 | 4.89 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 15 | 4.89 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 15 | 4.89 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 1 | 4.89 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 1 | 4.89 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 1 | 4.89 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 18 | 4.89 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 12 | 4.89 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 3 | 4.89 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 3 | 4.89 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 3 | 4.89 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 3 | 4.89 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 3 | 4.89 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 3 | 4.89 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 6 | 4.89 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 6 | 4.89 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 6 | 4.89 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 6 | 4.89 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 6 | 4.89 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 6 | 4.89 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 6 | 4.89 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 16 | 4.89 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 16 | 4.89 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 16 | 4.89 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 16 | 4.89 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 16 | 4.89 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 16 | 4.89 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 9 | 4.89 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 9 | 4.89 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 9 | 4.89 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 18 | 4.89 |
| (4,144) | 1:98:A:SER:CB | 1:3:A:ASP:H | 20 | 4.88 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 8 | 4.88 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 9 | 4.88 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 9 | 4.88 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 11 | 4.88 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 11 | 4.88 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 11 | 4.88 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 11 | 4.88 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 11 | 4.88 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 11 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 10 | 4.88 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 10 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 11 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 11 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 11 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 11 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 11 | 4.88 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 11 | 4.88 |
| (1,9333) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 19 | 4.88 |
| (1,9333) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 19 | 4.88 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 16 | 4.88 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 16 | 4.88 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 11 | 4.88 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 11 | 4.88 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 6 | 4.88 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 6 | 4.88 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 6 | 4.88 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 6 | 4.88 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 6 | 4.88 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 6 | 4.88 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 9 | 4.88 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 9 | 4.88 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 10 | 4.88 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 10 | 4.88 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 20 | 4.88 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 20 | 4.88 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 11 | 4.88 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 11 | 4.88 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 11 | 4.88 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 11 | 4.88 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 11 | 4.88 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 11 | 4.88 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 13 | 4.88 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 13 | 4.88 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 10 | 4.88 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 10 | 4.88 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 1 | 4.88 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 1 | 4.88 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 20 | 4.88 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 20 | 4.88 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 20 | 4.88 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 20 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 20 | 4.88 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 20 | 4.88 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 8 | 4.88 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 8 | 4.88 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 5 | 4.88 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 5 | 4.88 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 17 | 4.88 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 17 | 4.88 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 12 | 4.88 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 12 | 4.88 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 6 | 4.88 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 6 | 4.88 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 4 | 4.88 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 4 | 4.88 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 4 | 4.88 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 11 | 4.88 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 8 | 4.88 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 19 | 4.88 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 19 | 4.88 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 17 | 4.88 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 10 | 4.88 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 10 | 4.88 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 17 | 4.88 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 17 | 4.88 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 7 | 4.88 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 7 | 4.88 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 7 | 4.88 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 4 | 4.88 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 4 | 4.88 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 15 | 4.88 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 13 | 4.88 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 13 | 4.88 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 5 | 4.88 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 8 | 4.88 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 15 | 4.88 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 17 | 4.88 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 4 | 4.88 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 12 | 4.88 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 12 | 4.88 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 8 | 4.88 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 8 | 4.88 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 8 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 8 | 4.88 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 8 | 4.88 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 8 | 4.88 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 8 | 4.88 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 8 | 4.88 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 8 | 4.88 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 12 | 4.88 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 12 | 4.88 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 12 | 4.88 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 12 | 4.88 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 12 | 4.88 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 12 | 4.88 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 12 | 4.88 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 12 | 4.88 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 12 | 4.88 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 6 | 4.88 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 12 | 4.88 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 12 | 4.88 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 12 | 4.88 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 4 | 4.88 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 4 | 4.88 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 4 | 4.88 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 10 | 4.88 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 10 | 4.88 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 10 | 4.88 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 10 | 4.88 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 5 | 4.88 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 20 | 4.88 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 2 | 4.88 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 2 | 4.88 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 2 | 4.88 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 6 | 4.88 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 6 | 4.88 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 6 | 4.88 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 15 | 4.88 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 2 | 4.88 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 6 | 4.88 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 14 | 4.88 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 14 | 4.88 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 14 | 4.88 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 4 | 4.88 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 4 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 4 | 4.88 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 4 | 4.88 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 13 | 4.88 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 13 | 4.88 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 13 | 4.88 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 3 | 4.88 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 3 | 4.88 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 3 | 4.88 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 11 | 4.88 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 16 | 4.88 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 12 | 4.88 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 12 | 4.88 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 1 | 4.88 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 4 | 4.88 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 3 | 4.88 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 17 | 4.88 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 12 | 4.88 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 12 | 4.88 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 4 | 4.88 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 16 | 4.88 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 16 | 4.88 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 16 | 4.88 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 2 | 4.88 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 16 | 4.88 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 16 | 4.88 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 6 | 4.88 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 16 | 4.88 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 14 | 4.88 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 14 | 4.88 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 14 | 4.88 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 14 | 4.88 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 14 | 4.88 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 14 | 4.88 |
| (1,7214) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 15 | 4.88 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 11 | 4.88 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 11 | 4.88 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 11 | 4.88 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 9 | 4.88 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 9 | 4.88 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 9 | 4.88 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 9 | 4.88 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 9 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 9 | 4.88 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 19 | 4.88 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 9 | 4.88 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 11 | 4.88 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 5 | 4.88 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 5 | 4.88 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 5 | 4.88 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 15 | 4.88 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 15 | 4.88 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 15 | 4.88 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 10 | 4.88 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 10 | 4.88 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 10 | 4.88 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 7 | 4.88 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 7 | 4.88 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 7 | 4.88 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 7 | 4.88 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 7 | 4.88 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 7 | 4.88 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 10 | 4.88 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 3 | 4.88 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 1 | 4.88 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 18 | 4.88 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 18 | 4.88 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 11 | 4.88 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 5 | 4.88 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 5 | 4.88 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 5 | 4.88 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 1 | 4.88 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 1 | 4.88 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 1 | 4.88 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 1 | 4.88 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 1 | 4.88 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 1 | 4.88 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 20 | 4.88 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 6 | 4.88 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 7 | 4.88 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 3 | 4.88 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 3 | 4.88 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 3 | 4.88 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 3 | 4.88 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 3 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 3 | 4.88 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 12 | 4.88 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 12 | 4.88 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 12 | 4.88 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 14 | 4.88 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 14 | 4.88 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 14 | 4.88 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 8 | 4.88 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 8 | 4.88 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 8 | 4.88 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 20 | 4.88 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 20 | 4.88 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 20 | 4.88 |
| (1,6257) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 4 | 4.88 |
| (1,6257) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 4 | 4.88 |
| (1,6257) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 4 | 4.88 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 19 | 4.88 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 19 | 4.88 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 19 | 4.88 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 19 | 4.88 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 19 | 4.88 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 19 | 4.88 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 19 | 4.88 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 19 | 4.88 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 19 | 4.88 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 1 | 4.88 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 14 | 4.88 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 14 | 4.88 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 14 | 4.88 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 20 | 4.88 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 18 | 4.88 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 10 | 4.88 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 10 | 4.88 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 10 | 4.88 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 16 | 4.88 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 16 | 4.88 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 18 | 4.88 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 13 | 4.88 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 7 | 4.88 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 7 | 4.88 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 7 | 4.88 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 2 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 2 | 4.88 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 2 | 4.88 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 2 | 4.88 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 2 | 4.88 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 2 | 4.88 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 16 | 4.88 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 16 | 4.88 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 16 | 4.88 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 7 | 4.88 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 5 | 4.88 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 5 | 4.88 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 5 | 4.88 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 12 | 4.88 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 13 | 4.88 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 2 | 4.88 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 3 | 4.88 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 15 | 4.88 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 15 | 4.88 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 15 | 4.88 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 15 | 4.88 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 9 | 4.88 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 9 | 4.88 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 9 | 4.88 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 9 | 4.88 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 9 | 4.88 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 9 | 4.88 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 12 | 4.88 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 12 | 4.88 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 4.88 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 9 | 4.88 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 9 | 4.88 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 13 | 4.88 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 16 | 4.88 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 16 | 4.88 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 5 | 4.88 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 4.88 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 11 | 4.88 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 11 | 4.88 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 6 | 4.88 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 6 | 4.88 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 6 | 4.88 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 6 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 6 | 4.88 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 6 | 4.88 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 7 | 4.88 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 12 | 4.88 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 9 | 4.88 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 9 | 4.88 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 15 | 4.88 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 10 | 4.88 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 10 | 4.88 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 11 | 4.88 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 11 | 4.88 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 11 | 4.88 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 11 | 4.88 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 11 | 4.88 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 11 | 4.88 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 14 | 4.88 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 13 | 4.88 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 13 | 4.88 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 4 | 4.88 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 14 | 4.88 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 14 | 4.88 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 14 | 4.88 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 14 | 4.88 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 14 | 4.88 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 5 | 4.88 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 5 | 4.88 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 5 | 4.88 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 17 | 4.88 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 17 | 4.88 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 17 | 4.88 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 10 | 4.88 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 10 | 4.88 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 10 | 4.88 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 1 | 4.88 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 18 | 4.88 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 1 | 4.88 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 1 | 4.88 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 8 | 4.88 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 8 | 4.88 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 5 | 4.88 |
| (1,3674) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 2 | 4.88 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 6 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 6 | 4.88 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 12 | 4.88 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 12 | 4.88 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 10 | 4.88 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 4.88 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 10 | 4.88 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 10 | 4.88 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 4.88 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 10 | 4.88 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 16 | 4.88 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 11 | 4.88 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 16 | 4.88 |
| (1,3388) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 15 | 4.88 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 19 | 4.88 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 19 | 4.88 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 19 | 4.88 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 11 | 4.88 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 11 | 4.88 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 11 | 4.88 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 9 | 4.88 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 9 | 4.88 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 9 | 4.88 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 9 | 4.88 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 9 | 4.88 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 9 | 4.88 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 19 | 4.88 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 9 | 4.88 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 11 | 4.88 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 4 | 4.88 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 9 | 4.88 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 5 | 4.88 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 5 | 4.88 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 5 | 4.88 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 15 | 4.88 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 15 | 4.88 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 15 | 4.88 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 10 | 4.88 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 10 | 4.88 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 10 | 4.88 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 7 | 4.88 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 7 | 4.88 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 7 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 7 | 4.88 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 7 | 4.88 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 7 | 4.88 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 9 | 4.88 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 10 | 4.88 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 7 | 4.88 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 10 | 4.88 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 6 | 4.88 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 6 | 4.88 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 3 | 4.88 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 1 | 4.88 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 18 | 4.88 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 18 | 4.88 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 11 | 4.88 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 5 | 4.88 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 5 | 4.88 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 5 | 4.88 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 1 | 4.88 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 1 | 4.88 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 1 | 4.88 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 1 | 4.88 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 1 | 4.88 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 1 | 4.88 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 6 | 4.88 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 7 | 4.88 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 4 | 4.88 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 3 | 4.88 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 3 | 4.88 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 3 | 4.88 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 3 | 4.88 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 3 | 4.88 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 3 | 4.88 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 12 | 4.88 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 12 | 4.88 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 12 | 4.88 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 14 | 4.88 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 14 | 4.88 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 14 | 4.88 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 5 | 4.88 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 5 | 4.88 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 5 | 4.88 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 8 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 8 | 4.88 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 8 | 4.88 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 14 | 4.88 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 20 | 4.88 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 20 | 4.88 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 20 | 4.88 |
| (1,1914) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 4 | 4.88 |
| (1,1914) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 4 | 4.88 |
| (1,1914) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 4 | 4.88 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 19 | 4.88 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 19 | 4.88 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 19 | 4.88 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 19 | 4.88 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 19 | 4.88 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 19 | 4.88 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 19 | 4.88 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 19 | 4.88 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 19 | 4.88 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 1 | 4.88 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 11 | 4.88 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 11 | 4.88 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 11 | 4.88 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 14 | 4.88 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 14 | 4.88 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 14 | 4.88 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 20 | 4.88 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 18 | 4.88 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 2 | 4.88 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 6 | 4.88 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 10 | 4.88 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 10 | 4.88 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 10 | 4.88 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 16 | 4.88 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 16 | 4.88 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 4 | 4.88 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 2 | 4.88 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 18 | 4.88 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 13 | 4.88 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 9 | 4.88 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 9 | 4.88 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 9 | 4.88 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 9 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 9 | 4.88 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 9 | 4.88 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 1 | 4.87 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 10 | 4.87 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 10 | 4.87 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 10 | 4.87 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 10 | 4.87 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 10 | 4.87 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 10 | 4.87 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 15 | 4.87 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 15 | 4.87 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 5 | 4.87 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 5 | 4.87 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 7 | 4.87 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 7 | 4.87 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 20 | 4.87 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 20 | 4.87 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 5 | 4.87 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 5 | 4.87 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 17 | 4.87 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 17 | 4.87 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 17 | 4.87 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 17 | 4.87 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 6 | 4.87 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 6 | 4.87 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 6 | 4.87 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 6 | 4.87 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 6 | 4.87 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 6 | 4.87 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 2 | 4.87 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 2 | 4.87 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 5 | 4.87 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 5 | 4.87 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 9 | 4.87 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 9 | 4.87 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 9 | 4.87 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 9 | 4.87 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 9 | 4.87 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 9 | 4.87 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 9 | 4.87 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 9 | 4.87 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 19 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 19 | 4.87 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 7 | 4.87 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 7 | 4.87 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 9 | 4.87 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 9 | 4.87 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB2 | 8 | 4.87 |
| (1,9143) | 1:91:A:GLY:H | 1:94:A:GLN:HB3 | 8 | 4.87 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 16 | 4.87 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 16 | 4.87 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 16 | 4.87 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 16 | 4.87 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 16 | 4.87 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 16 | 4.87 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 16 | 4.87 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 16 | 4.87 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 16 | 4.87 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 16 | 4.87 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 16 | 4.87 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 16 | 4.87 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 15 | 4.87 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 15 | 4.87 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 13 | 4.87 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 13 | 4.87 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 1 | 4.87 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 1 | 4.87 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 1 | 4.87 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 1 | 4.87 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 9 | 4.87 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 9 | 4.87 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 4 | 4.87 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 4 | 4.87 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 12 | 4.87 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 12 | 4.87 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 18 | 4.87 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 18 | 4.87 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 4.87 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 4.87 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 11 | 4.87 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 11 | 4.87 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 11 | 4.87 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 11 | 4.87 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 11 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 11 | 4.87 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 18 | 4.87 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 18 | 4.87 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 19 | 4.87 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 19 | 4.87 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 4 | 4.87 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 4 | 4.87 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 16 | 4.87 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 16 | 4.87 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 16 | 4.87 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 20 | 4.87 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 20 | 4.87 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 20 | 4.87 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 19 | 4.87 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 19 | 4.87 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 19 | 4.87 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 19 | 4.87 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 19 | 4.87 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 19 | 4.87 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 19 | 4.87 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 19 | 4.87 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 19 | 4.87 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 4 | 4.87 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 4 | 4.87 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 13 | 4.87 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 14 | 4.87 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 3 | 4.87 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 3 | 4.87 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 3 | 4.87 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 3 | 4.87 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 3 | 4.87 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 11 | 4.87 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 11 | 4.87 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 1 | 4.87 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 1 | 4.87 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 10 | 4.87 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 10 | 4.87 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 10 | 4.87 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 12 | 4.87 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 12 | 4.87 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 13 | 4.87 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 19 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 17 | 4.87 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 17 | 4.87 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 17 | 4.87 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 18 | 4.87 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 2 | 4.87 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 3 | 4.87 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 20 | 4.87 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 10 | 4.87 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 10 | 4.87 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 14 | 4.87 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 9 | 4.87 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 4 | 4.87 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 4 | 4.87 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 4 | 4.87 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 14 | 4.87 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 11 | 4.87 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 11 | 4.87 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 11 | 4.87 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 3 | 4.87 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 3 | 4.87 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 3 | 4.87 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 19 | 4.87 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 19 | 4.87 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 19 | 4.87 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 20 | 4.87 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 20 | 4.87 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 7 | 4.87 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 7 | 4.87 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 7 | 4.87 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 11 | 4.87 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 11 | 4.87 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 2 | 4.87 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 2 | 4.87 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 8 | 4.87 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 8 | 4.87 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 8 | 4.87 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 12 | 4.87 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 19 | 4.87 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 16 | 4.87 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 16 | 4.87 |
| (1,7865) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HA | 16 | 4.87 |
| (1,7865) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HA | 16 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7865) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HA | 16 | 4.87 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 7 | 4.87 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 7 | 4.87 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 7 | 4.87 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 20 | 4.87 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 20 | 4.87 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 20 | 4.87 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 20 | 4.87 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 20 | 4.87 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 20 | 4.87 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 20 | 4.87 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 20 | 4.87 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 20 | 4.87 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 18 | 4.87 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 18 | 4.87 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 18 | 4.87 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 3 | 4.87 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 3 | 4.87 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 3 | 4.87 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 18 | 4.87 |
| (1,7787) | 1:58:A:SER:HA | 1:121:A:ASP:H | 18 | 4.87 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 20 | 4.87 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 20 | 4.87 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 20 | 4.87 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 20 | 4.87 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 20 | 4.87 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 20 | 4.87 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 7 | 4.87 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 1 | 4.87 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 4 | 4.87 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 10 | 4.87 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 19 | 4.87 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 9 | 4.87 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 8 | 4.87 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 8 | 4.87 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 13 | 4.87 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 13 | 4.87 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 4 | 4.87 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 4 | 4.87 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 6 | 4.87 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 11 | 4.87 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 13 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 2 | 4.87 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 12 | 4.87 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 12 | 4.87 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 12 | 4.87 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 13 | 4.87 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 2 | 4.87 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 2 | 4.87 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 2 | 4.87 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 5 | 4.87 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 5 | 4.87 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 7 | 4.87 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 7 | 4.87 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 7 | 4.87 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 19 | 4.87 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 19 | 4.87 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 19 | 4.87 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 2 | 4.87 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 17 | 4.87 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 1 | 4.87 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 4 | 4.87 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 20 | 4.87 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 17 | 4.87 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 9 | 4.87 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 2 | 4.87 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 2 | 4.87 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 2 | 4.87 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 20 | 4.87 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 15 | 4.87 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 17 | 4.87 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 17 | 4.87 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 11 | 4.87 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 11 | 4.87 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 11 | 4.87 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 19 | 4.87 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 19 | 4.87 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 19 | 4.87 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 13 | 4.87 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 13 | 4.87 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 13 | 4.87 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 1 | 4.87 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 13 | 4.87 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 14 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 12 | 4.87 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 12 | 4.87 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 12 | 4.87 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 13 | 4.87 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 13 | 4.87 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 13 | 4.87 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 7 | 4.87 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 7 | 4.87 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 7 | 4.87 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 16 | 4.87 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 5 | 4.87 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 5 | 4.87 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 5 | 4.87 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 3 | 4.87 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 3 | 4.87 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 3 | 4.87 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 3 | 4.87 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 3 | 4.87 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 3 | 4.87 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 3 | 4.87 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 3 | 4.87 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 3 | 4.87 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 2 | 4.87 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 2 | 4.87 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 2 | 4.87 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 9 | 4.87 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 2 | 4.87 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 5 | 4.87 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 5 | 4.87 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 5 | 4.87 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 5 | 4.87 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 5 | 4.87 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 5 | 4.87 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 18 | 4.87 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 15 | 4.87 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 15 | 4.87 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 15 | 4.87 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 12 | 4.87 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 6 | 4.87 |
| (1,5699) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 6 | 4.87 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 17 | 4.87 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 20 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 20 | 4.87 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 20 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 6 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 6 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 6 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 6 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 6 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 6 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 20 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 20 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 20 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 20 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 20 | 4.87 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 20 | 4.87 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 1 | 4.87 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 1 | 4.87 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 1 | 4.87 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 1 | 4.87 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 1 | 4.87 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 1 | 4.87 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 2 | 4.87 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 15 | 4.87 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 15 | 4.87 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 15 | 4.87 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 12 | 4.87 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 10 | 4.87 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 17 | 4.87 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 17 | 4.87 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 17 | 4.87 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 16 | 4.87 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 2 | 4.87 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 2 | 4.87 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 2 | 4.87 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 5 | 4.87 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 5 | 4.87 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 5 | 4.87 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 10 | 4.87 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 11 | 4.87 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 13 | 4.87 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 6 | 4.87 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 19 | 4.87 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 16 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 13 | 4.87 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 10 | 4.87 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 10 | 4.87 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 10 | 4.87 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 15 | 4.87 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 15 | 4.87 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 15 | 4.87 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 12 | 4.87 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 7 | 4.87 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 7 | 4.87 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 4 | 4.87 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 4 | 4.87 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 4 | 4.87 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 9 | 4.87 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 9 | 4.87 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 9 | 4.87 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 15 | 4.87 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 15 | 4.87 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 15 | 4.87 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 17 | 4.87 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 17 | 4.87 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 17 | 4.87 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 15 | 4.87 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 15 | 4.87 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 7 | 4.87 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 12 | 4.87 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 7 | 4.87 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 7 | 4.87 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 9 | 4.87 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 9 | 4.87 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 9 | 4.87 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 10 | 4.87 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 7 | 4.87 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 7 | 4.87 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 7 | 4.87 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 7 | 4.87 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 7 | 4.87 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 7 | 4.87 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 17 | 4.87 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 17 | 4.87 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 5 | 4.87 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 5 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 17 | 4.87 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 17 | 4.87 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 17 | 4.87 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 17 | 4.87 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 18 | 4.87 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 18 | 4.87 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 18 | 4.87 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 4.87 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 4.87 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 4.87 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 4.87 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 4.87 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 4.87 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 19 | 4.87 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 19 | 4.87 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 7 | 4.87 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 8 | 4.87 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 8 | 4.87 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 8 | 4.87 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 15 | 4.87 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 15 | 4.87 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 13 | 4.87 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 13 | 4.87 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 20 | 4.87 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 4 | 4.87 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 4 | 4.87 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 12 | 4.87 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 12 | 4.87 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 10 | 4.87 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 10 | 4.87 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 9 | 4.87 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 19 | 4.87 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 19 | 4.87 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 4.87 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 4.87 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 10 | 4.87 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 9 | 4.87 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 14 | 4.87 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 13 | 4.87 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 13 | 4.87 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 1 | 4.87 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 16 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 16 | 4.87 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 4.87 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 16 | 4.87 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 16 | 4.87 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 4.87 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 16 | 4.87 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 19 | 4.87 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 19 | 4.87 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 5 | 4.87 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 3 | 4.87 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 3 | 4.87 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 3 | 4.87 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 8 | 4.87 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 8 | 4.87 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 8 | 4.87 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 7 | 4.87 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 7 | 4.87 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 7 | 4.87 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 19 | 4.87 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 19 | 4.87 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 4 | 4.87 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 4 | 4.87 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 4 | 4.87 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 19 | 4.87 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 19 | 4.87 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 19 | 4.87 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 7 | 4.87 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 16 | 4.87 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 2 | 4.87 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 17 | 4.87 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 1 | 4.87 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 4 | 4.87 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 20 | 4.87 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 17 | 4.87 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 9 | 4.87 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 2 | 4.87 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 2 | 4.87 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 2 | 4.87 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 20 | 4.87 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 15 | 4.87 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 17 | 4.87 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 17 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 11 | 4.87 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 11 | 4.87 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 11 | 4.87 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 19 | 4.87 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 19 | 4.87 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 19 | 4.87 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 9 | 4.87 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 9 | 4.87 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 9 | 4.87 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 13 | 4.87 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 13 | 4.87 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 13 | 4.87 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 1 | 4.87 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 13 | 4.87 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 17 | 4.87 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 14 | 4.87 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 8 | 4.87 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 8 | 4.87 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 8 | 4.87 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 8 | 4.87 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 12 | 4.87 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 12 | 4.87 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 12 | 4.87 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 13 | 4.87 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 13 | 4.87 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 13 | 4.87 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 5 | 4.87 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 7 | 4.87 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 7 | 4.87 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 7 | 4.87 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 16 | 4.87 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 5 | 4.87 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 5 | 4.87 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 5 | 4.87 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 15 | 4.87 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 15 | 4.87 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 15 | 4.87 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 3 | 4.87 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 3 | 4.87 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 3 | 4.87 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 3 | 4.87 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 3 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 3 | 4.87 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 3 | 4.87 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 3 | 4.87 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 3 | 4.87 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 2 | 4.87 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 2 | 4.87 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 2 | 4.87 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 9 | 4.87 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 2 | 4.87 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 18 | 4.87 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 5 | 4.87 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 5 | 4.87 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 5 | 4.87 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 5 | 4.87 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 5 | 4.87 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 5 | 4.87 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 11 | 4.87 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 18 | 4.87 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 15 | 4.87 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 15 | 4.87 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 15 | 4.87 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 12 | 4.87 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 6 | 4.87 |
| (1,976) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 6 | 4.87 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 17 | 4.87 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 17 | 4.87 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 17 | 4.87 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 2 | 4.87 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 17 | 4.87 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 11 | 4.87 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 20 | 4.87 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 20 | 4.87 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 20 | 4.87 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 6 | 4.87 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 6 | 4.87 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 6 | 4.87 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 6 | 4.87 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 6 | 4.87 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 6 | 4.87 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 20 | 4.87 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 20 | 4.87 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 20 | 4.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 20 | 4.87 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 20 | 4.87 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 20 | 4.87 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 1 | 4.87 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 1 | 4.87 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 1 | 4.87 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 1 | 4.87 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 1 | 4.87 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 1 | 4.87 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 10 | 4.87 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 10 | 4.87 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 10 | 4.87 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 10 | 4.87 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 10 | 4.87 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 10 | 4.87 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 10 | 4.87 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 10 | 4.87 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 10 | 4.87 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 17 | 4.87 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 2 | 4.87 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 5 | 4.86 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 11 | 4.86 |
| (4,83) | 1:15:A:MET:CB | 1:142:A:ARG:H | 20 | 4.86 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 18 | 4.86 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 18 | 4.86 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 18 | 4.86 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 18 | 4.86 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 18 | 4.86 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 18 | 4.86 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 13 | 4.86 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 13 | 4.86 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 13 | 4.86 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 13 | 4.86 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 8 | 4.86 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 8 | 4.86 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 11 | 4.86 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 11 | 4.86 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 11 | 4.86 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 11 | 4.86 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 11 | 4.86 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 11 | 4.86 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 3 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 3 | 4.86 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 7 | 4.86 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 7 | 4.86 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 4 | 4.86 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 4 | 4.86 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 11 | 4.86 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 11 | 4.86 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 9 | 4.86 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 9 | 4.86 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 6 | 4.86 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 6 | 4.86 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 9 | 4.86 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 9 | 4.86 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 9 | 4.86 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 9 | 4.86 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 9 | 4.86 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 9 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 3 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 3 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 3 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 3 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 3 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 3 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 7 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 7 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 7 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 7 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 7 | 4.86 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 7 | 4.86 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 11 | 4.86 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 11 | 4.86 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 20 | 4.86 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 20 | 4.86 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 5 | 4.86 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 5 | 4.86 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 3 | 4.86 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 3 | 4.86 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 20 | 4.86 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 4.86 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 20 | 4.86 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 4.86 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 20 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 4.86 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 20 | 4.86 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 20 | 4.86 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 3 | 4.86 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 3 | 4.86 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 20 | 4.86 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 20 | 4.86 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 20 | 4.86 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 20 | 4.86 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 11 | 4.86 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 11 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 1 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 1 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 1 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 1 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 1 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 1 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 13 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 13 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 13 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 13 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 13 | 4.86 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 13 | 4.86 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 17 | 4.86 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 17 | 4.86 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 12 | 4.86 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 12 | 4.86 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 19 | 4.86 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 19 | 4.86 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 19 | 4.86 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 19 | 4.86 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 7 | 4.86 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 9 | 4.86 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 9 | 4.86 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 9 | 4.86 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 9 | 4.86 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 9 | 4.86 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 9 | 4.86 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 9 | 4.86 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 9 | 4.86 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 9 | 4.86 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 2 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 13 | 4.86 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 13 | 4.86 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 4 | 4.86 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 4 | 4.86 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 14 | 4.86 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 14 | 4.86 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 14 | 4.86 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 7 | 4.86 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 7 | 4.86 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 3 | 4.86 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 2 | 4.86 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 19 | 4.86 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB1 | 2 | 4.86 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB2 | 2 | 4.86 |
| (1,8213) | 1:108:A:SER:H | 1:116:A:ALA:HB3 | 2 | 4.86 |
| (1,8206) | 1:107:A:ALA:H | 1:110:A:PHE:H | 8 | 4.86 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 6 | 4.86 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 9 | 4.86 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 15 | 4.86 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 15 | 4.86 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 15 | 4.86 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 4 | 4.86 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 4 | 4.86 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 4 | 4.86 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 4 | 4.86 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 4 | 4.86 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 4 | 4.86 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 4 | 4.86 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 4 | 4.86 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 4 | 4.86 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 15 | 4.86 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 15 | 4.86 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 15 | 4.86 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 20 | 4.86 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 20 | 4.86 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 20 | 4.86 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 15 | 4.86 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 6 | 4.86 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 6 | 4.86 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 6 | 4.86 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 5 | 4.86 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 5 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 5 | 4.86 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 9 | 4.86 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 19 | 4.86 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 19 | 4.86 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 3 | 4.86 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 3 | 4.86 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 3 | 4.86 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 3 | 4.86 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 3 | 4.86 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 3 | 4.86 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 3 | 4.86 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 3 | 4.86 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 3 | 4.86 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 3 | 4.86 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 3 | 4.86 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 3 | 4.86 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 17 | 4.86 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 17 | 4.86 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 17 | 4.86 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 17 | 4.86 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 17 | 4.86 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 17 | 4.86 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 17 | 4.86 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 17 | 4.86 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 17 | 4.86 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 14 | 4.86 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 14 | 4.86 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 14 | 4.86 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 19 | 4.86 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 19 | 4.86 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 19 | 4.86 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 17 | 4.86 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 19 | 4.86 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 1 | 4.86 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 1 | 4.86 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 1 | 4.86 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 19 | 4.86 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 12 | 4.86 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 4 | 4.86 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 8 | 4.86 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 2 | 4.86 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 12 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 9 | 4.86 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 9 | 4.86 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 9 | 4.86 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 9 | 4.86 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 9 | 4.86 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 9 | 4.86 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 12 | 4.86 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 12 | 4.86 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 12 | 4.86 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 15 | 4.86 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 16 | 4.86 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 16 | 4.86 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 16 | 4.86 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 17 | 4.86 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 17 | 4.86 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 17 | 4.86 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 17 | 4.86 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 3 | 4.86 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 3 | 4.86 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 20 | 4.86 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 20 | 4.86 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 20 | 4.86 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 20 | 4.86 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 1 | 4.86 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 1 | 4.86 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 12 | 4.86 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 12 | 4.86 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 12 | 4.86 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 15 | 4.86 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 17 | 4.86 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 13 | 4.86 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 13 | 4.86 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 13 | 4.86 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 13 | 4.86 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 13 | 4.86 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 13 | 4.86 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 3 | 4.86 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 3 | 4.86 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 8 | 4.86 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 17 | 4.86 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 6 | 4.86 |
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 6 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6704) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 6 | 4.86 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 10 | 4.86 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 12 | 4.86 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 7 | 4.86 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 7 | 4.86 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 7 | 4.86 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 20 | 4.86 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 20 | 4.86 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 20 | 4.86 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 8 | 4.86 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 8 | 4.86 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 8 | 4.86 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 7 | 4.86 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 7 | 4.86 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 7 | 4.86 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 16 | 4.86 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 4 | 4.86 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 4 | 4.86 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 4 | 4.86 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 9 | 4.86 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 9 | 4.86 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 9 | 4.86 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 6 | 4.86 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 6 | 4.86 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 6 | 4.86 |
| (1,6140) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 10 | 4.86 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 1 | 4.86 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 1 | 4.86 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 1 | 4.86 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 17 | 4.86 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 17 | 4.86 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 17 | 4.86 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 14 | 4.86 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 14 | 4.86 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 14 | 4.86 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 12 | 4.86 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 9 | 4.86 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 9 | 4.86 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 16 | 4.86 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 16 | 4.86 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 16 | 4.86 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 9 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 9 | 4.86 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 9 | 4.86 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 16 | 4.86 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 16 | 4.86 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 16 | 4.86 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 18 | 4.86 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 18 | 4.86 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 18 | 4.86 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 18 | 4.86 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 18 | 4.86 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 18 | 4.86 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 12 | 4.86 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 12 | 4.86 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 12 | 4.86 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 14 | 4.86 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 14 | 4.86 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 14 | 4.86 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 5 | 4.86 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 18 | 4.86 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 17 | 4.86 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 18 | 4.86 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 5 | 4.86 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 5 | 4.86 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 5 | 4.86 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 19 | 4.86 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 19 | 4.86 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 19 | 4.86 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 8 | 4.86 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 15 | 4.86 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 17 | 4.86 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 7 | 4.86 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 7 | 4.86 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 7 | 4.86 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 9 | 4.86 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 13 | 4.86 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 13 | 4.86 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 16 | 4.86 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 16 | 4.86 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 16 | 4.86 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 16 | 4.86 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 4.86 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 7 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 1 | 4.86 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 1 | 4.86 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 1 | 4.86 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 4 | 4.86 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 4 | 4.86 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 4 | 4.86 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 17 | 4.86 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 17 | 4.86 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 17 | 4.86 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 5 | 4.86 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 5 | 4.86 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 5 | 4.86 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 15 | 4.86 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 15 | 4.86 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 15 | 4.86 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 16 | 4.86 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 16 | 4.86 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 16 | 4.86 |
| (1,4068) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 17 | 4.86 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 6 | 4.86 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 11 | 4.86 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 20 | 4.86 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 4.86 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 20 | 4.86 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 4.86 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 20 | 4.86 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 4.86 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 4.86 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 11 | 4.86 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 9 | 4.86 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 9 | 4.86 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 2 | 4.86 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 19 | 4.86 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 19 | 4.86 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 19 | 4.86 |
| (1,3900) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 5 | 4.86 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 5 | 4.86 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 6 | 4.86 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 2 | 4.86 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 14 | 4.86 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 14 | 4.86 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 14 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 7 | 4.86 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 7 | 4.86 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 7 | 4.86 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 18 | 4.86 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 3 | 4.86 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 3 | 4.86 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 3 | 4.86 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 12 | 4.86 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 12 | 4.86 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 12 | 4.86 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 19 | 4.86 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 4 | 4.86 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 4 | 4.86 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 13 | 4.86 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 17 | 4.86 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 17 | 4.86 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 2 | 4.86 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 7 | 4.86 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 7 | 4.86 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 18 | 4.86 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 19 | 4.86 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 3 | 4.86 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 3 | 4.86 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 20 | 4.86 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 20 | 4.86 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 20 | 4.86 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 1 | 4.86 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 1 | 4.86 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 12 | 4.86 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 12 | 4.86 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 12 | 4.86 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 15 | 4.86 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 13 | 4.86 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 6 | 4.86 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 3 | 4.86 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 17 | 4.86 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 15 | 4.86 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 15 | 4.86 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 9 | 4.86 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 9 | 4.86 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 9 | 4.86 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 13 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 13 | 4.86 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 13 | 4.86 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 13 | 4.86 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 13 | 4.86 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 13 | 4.86 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 1 | 4.86 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 1 | 4.86 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 1 | 4.86 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 1 | 4.86 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 1 | 4.86 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 1 | 4.86 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 14 | 4.86 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 14 | 4.86 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 14 | 4.86 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 14 | 4.86 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 14 | 4.86 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 14 | 4.86 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 3 | 4.86 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 3 | 4.86 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 8 | 4.86 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 17 | 4.86 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 6 | 4.86 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 6 | 4.86 |
| (1,2610) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 6 | 4.86 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 10 | 4.86 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 17 | 4.86 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 17 | 4.86 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 17 | 4.86 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 12 | 4.86 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 11 | 4.86 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 7 | 4.86 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 7 | 4.86 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 7 | 4.86 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 20 | 4.86 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 20 | 4.86 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 20 | 4.86 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 8 | 4.86 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 8 | 4.86 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 8 | 4.86 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 7 | 4.86 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 7 | 4.86 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 7 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 16 | 4.86 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 4 | 4.86 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 4 | 4.86 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 4 | 4.86 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 7 | 4.86 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 9 | 4.86 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 9 | 4.86 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 9 | 4.86 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 6 | 4.86 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 6 | 4.86 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 6 | 4.86 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 20 | 4.86 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 20 | 4.86 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 20 | 4.86 |
| (1,1732) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 10 | 4.86 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 1 | 4.86 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 1 | 4.86 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 1 | 4.86 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 17 | 4.86 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 17 | 4.86 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 17 | 4.86 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 14 | 4.86 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 14 | 4.86 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 14 | 4.86 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 9 | 4.86 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 9 | 4.86 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 9 | 4.86 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 12 | 4.86 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 12 | 4.86 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 9 | 4.86 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 9 | 4.86 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 16 | 4.86 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 16 | 4.86 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 16 | 4.86 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 16 | 4.86 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 1 | 4.86 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 4 | 4.86 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 5 | 4.86 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 8 | 4.86 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 10 | 4.86 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 16 | 4.86 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 17 | 4.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 20 | 4.86 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 9 | 4.86 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 9 | 4.86 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 9 | 4.86 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 16 | 4.86 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 16 | 4.86 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 16 | 4.86 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 18 | 4.86 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 18 | 4.86 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 18 | 4.86 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 18 | 4.86 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 18 | 4.86 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 18 | 4.86 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 20 | 4.86 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 13 | 4.86 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 8 | 4.85 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 7 | 4.85 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 17 | 4.85 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 17 | 4.85 |
| (1,9516) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 8 | 4.85 |
| (1,9516) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 8 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 1 | 4.85 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 1 | 4.85 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 8 | 4.85 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 8 | 4.85 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 19 | 4.85 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 19 | 4.85 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 18 | 4.85 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 18 | 4.85 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 3 | 4.85 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 3 | 4.85 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 5 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 5 | 4.85 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 14 | 4.85 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 14 | 4.85 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 14 | 4.85 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 14 | 4.85 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 15 | 4.85 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 15 | 4.85 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 5 | 4.85 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 5 | 4.85 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 17 | 4.85 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 17 | 4.85 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 17 | 4.85 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 17 | 4.85 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 17 | 4.85 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 17 | 4.85 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 17 | 4.85 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 17 | 4.85 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 5 | 4.85 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 5 | 4.85 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 5 | 4.85 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 5 | 4.85 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 5 | 4.85 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 5 | 4.85 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 8 | 4.85 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 8 | 4.85 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 18 | 4.85 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 18 | 4.85 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 20 | 4.85 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 4.85 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 9 | 4.85 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 9 | 4.85 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 9 | 4.85 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 9 | 4.85 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 9 | 4.85 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 9 | 4.85 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 7 | 4.85 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 7 | 4.85 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 1 | 4.85 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 1 | 4.85 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 1 | 4.85 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 1 | 4.85 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 16 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 16 | 4.85 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 16 | 4.85 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 16 | 4.85 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 16 | 4.85 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 16 | 4.85 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 4.85 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 4.85 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 4.85 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 4.85 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 4.85 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 4.85 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 18 | 4.85 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 18 | 4.85 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 12 | 4.85 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 12 | 4.85 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 15 | 4.85 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 15 | 4.85 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 4.85 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 4.85 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 4.85 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 4.85 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 4.85 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 4.85 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 19 | 4.85 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 19 | 4.85 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 5 | 4.85 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 5 | 4.85 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 5 | 4.85 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 5 | 4.85 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 5 | 4.85 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 5 | 4.85 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 19 | 4.85 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 19 | 4.85 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 13 | 4.85 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 13 | 4.85 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 20 | 4.85 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 20 | 4.85 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 3 | 4.85 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 3 | 4.85 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 8 | 4.85 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 8 | 4.85 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 8 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 8 | 4.85 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 8 | 4.85 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 8 | 4.85 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 8 | 4.85 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 8 | 4.85 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 8 | 4.85 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 4 | 4.85 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 4 | 4.85 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 4 | 4.85 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 4 | 4.85 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 4 | 4.85 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 4 | 4.85 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 4 | 4.85 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 4 | 4.85 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 4 | 4.85 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 5 | 4.85 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 5 | 4.85 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 9 | 4.85 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 9 | 4.85 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 9 | 4.85 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 9 | 4.85 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 9 | 4.85 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 9 | 4.85 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 5 | 4.85 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 13 | 4.85 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 13 | 4.85 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 13 | 4.85 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 13 | 4.85 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 15 | 4.85 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 15 | 4.85 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 15 | 4.85 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 16 | 4.85 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 9 | 4.85 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 17 | 4.85 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 1 | 4.85 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 8 | 4.85 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 6 | 4.85 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 6 | 4.85 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 6 | 4.85 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 14 | 4.85 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 14 | 4.85 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 14 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 14 | 4.85 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 14 | 4.85 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 14 | 4.85 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 4 | 4.85 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 16 | 4.85 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 18 | 4.85 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 11 | 4.85 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 11 | 4.85 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 11 | 4.85 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 16 | 4.85 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 4 | 4.85 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 4 | 4.85 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 4 | 4.85 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 4 | 4.85 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 4 | 4.85 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 4 | 4.85 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 4 | 4.85 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 4 | 4.85 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 4 | 4.85 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 10 | 4.85 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 6 | 4.85 |
| (1,7972) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 19 | 4.85 |
| (1,7972) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 19 | 4.85 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 13 | 4.85 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 14 | 4.85 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 13 | 4.85 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 13 | 4.85 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 13 | 4.85 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 20 | 4.85 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 16 | 4.85 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 16 | 4.85 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 16 | 4.85 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 16 | 4.85 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 16 | 4.85 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 16 | 4.85 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 16 | 4.85 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 16 | 4.85 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 16 | 4.85 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 15 | 4.85 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 20 | 4.85 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 4.85 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 20 | 4.85 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 3 | 4.85 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 3 | 4.85 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 3 | 4.85 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 12 | 4.85 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 1 | 4.85 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 3 | 4.85 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 5 | 4.85 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 2 | 4.85 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 4 | 4.85 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 13 | 4.85 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 13 | 4.85 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 3 | 4.85 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 3 | 4.85 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 6 | 4.85 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 15 | 4.85 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 15 | 4.85 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 9 | 4.85 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 8 | 4.85 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 4 | 4.85 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 18 | 4.85 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 18 | 4.85 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 18 | 4.85 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 16 | 4.85 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 7 | 4.85 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 19 | 4.85 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 19 | 4.85 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 20 | 4.85 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 20 | 4.85 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 4 | 4.85 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 5 | 4.85 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 5 | 4.85 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 6 | 4.85 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 7 | 4.85 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 12 | 4.85 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 13 | 4.85 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 20 | 4.85 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 8 | 4.85 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 8 | 4.85 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 8 | 4.85 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 17 | 4.85 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 12 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 12 | 4.85 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 17 | 4.85 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 7 | 4.85 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 19 | 4.85 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 19 | 4.85 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 19 | 4.85 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 19 | 4.85 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 19 | 4.85 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 19 | 4.85 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 2 | 4.85 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 2 | 4.85 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 2 | 4.85 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 8 | 4.85 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 2 | 4.85 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 15 | 4.85 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 15 | 4.85 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 15 | 4.85 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 10 | 4.85 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 10 | 4.85 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 10 | 4.85 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 9 | 4.85 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 9 | 4.85 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 6 | 4.85 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 11 | 4.85 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 18 | 4.85 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 4 | 4.85 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 11 | 4.85 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 11 | 4.85 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 11 | 4.85 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 11 | 4.85 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 9 | 4.85 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 4 | 4.85 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 4 | 4.85 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 12 | 4.85 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 12 | 4.85 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 12 | 4.85 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 16 | 4.85 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 16 | 4.85 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 16 | 4.85 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 1 | 4.85 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 1 | 4.85 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 1 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 14 | 4.85 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 14 | 4.85 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 14 | 4.85 |
| (1,5357) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 11 | 4.85 |
| (1,5357) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 11 | 4.85 |
| (1,5357) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 11 | 4.85 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 5 | 4.85 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 17 | 4.85 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 4 | 4.85 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 4 | 4.85 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 4 | 4.85 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 16 | 4.85 |
| (1,5011) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 16 | 4.85 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 19 | 4.85 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 19 | 4.85 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 19 | 4.85 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 5 | 4.85 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 5 | 4.85 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 5 | 4.85 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 20 | 4.85 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 20 | 4.85 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 20 | 4.85 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 16 | 4.85 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 16 | 4.85 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 16 | 4.85 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 16 | 4.85 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 16 | 4.85 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 16 | 4.85 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 19 | 4.85 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 19 | 4.85 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 19 | 4.85 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 19 | 4.85 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 19 | 4.85 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 19 | 4.85 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 19 | 4.85 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 19 | 4.85 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 19 | 4.85 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 7 | 4.85 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 7 | 4.85 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 7 | 4.85 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 3 | 4.85 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 2 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 2 | 4.85 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 2 | 4.85 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 12 | 4.85 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 12 | 4.85 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 12 | 4.85 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 12 | 4.85 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 12 | 4.85 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 12 | 4.85 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 12 | 4.85 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 12 | 4.85 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 12 | 4.85 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 6 | 4.85 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 6 | 4.85 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 6 | 4.85 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 16 | 4.85 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 16 | 4.85 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 16 | 4.85 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 13 | 4.85 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 1 | 4.85 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 1 | 4.85 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 1 | 4.85 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 15 | 4.85 |
| (1,4500) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 8 | 4.85 |
| (1,4500) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 8 | 4.85 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 18 | 4.85 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 18 | 4.85 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 13 | 4.85 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 4 | 4.85 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 16 | 4.85 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 5 | 4.85 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 5 | 4.85 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 17 | 4.85 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 17 | 4.85 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 17 | 4.85 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 17 | 4.85 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 17 | 4.85 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 17 | 4.85 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 5 | 4.85 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 5 | 4.85 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 5 | 4.85 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 5 | 4.85 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 5 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 5 | 4.85 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 8 | 4.85 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 8 | 4.85 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 20 | 4.85 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 4.85 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 18 | 4.85 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 17 | 4.85 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 7 | 4.85 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 7 | 4.85 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 9 | 4.85 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 9 | 4.85 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 3 | 4.85 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 4.85 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 16 | 4.85 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 16 | 4.85 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 16 | 4.85 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 16 | 4.85 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 16 | 4.85 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 16 | 4.85 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 4.85 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 4.85 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 4.85 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 4.85 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 4.85 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 4.85 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 6 | 4.85 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 2 | 4.85 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 4.85 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 4.85 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 18 | 4.85 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 4.85 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 4.85 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 4.85 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 4.85 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 4.85 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 4.85 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 18 | 4.85 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 18 | 4.85 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 18 | 4.85 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 18 | 4.85 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 18 | 4.85 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 18 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 4 | 4.85 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 17 | 4.85 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 19 | 4.85 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 19 | 4.85 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 3 | 4.85 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 19 | 4.85 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 19 | 4.85 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 20 | 4.85 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 20 | 4.85 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 4 | 4.85 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 6 | 4.85 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 5 | 4.85 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 5 | 4.85 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 6 | 4.85 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 7 | 4.85 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 12 | 4.85 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 13 | 4.85 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 20 | 4.85 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 8 | 4.85 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 8 | 4.85 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 8 | 4.85 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 9 | 4.85 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 17 | 4.85 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 12 | 4.85 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 12 | 4.85 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 4.85 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 4 | 4.85 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 4 | 4.85 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 4 | 4.85 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 17 | 4.85 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 18 | 4.85 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 19 | 4.85 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 19 | 4.85 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 19 | 4.85 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 19 | 4.85 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 19 | 4.85 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 19 | 4.85 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 11 | 4.85 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 2 | 4.85 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 2 | 4.85 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 2 | 4.85 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 8 | 4.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 15 | 4.85 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 15 | 4.85 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 15 | 4.85 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 10 | 4.85 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 10 | 4.85 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 10 | 4.85 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 9 | 4.85 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 9 | 4.85 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 6 | 4.85 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 11 | 4.85 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 18 | 4.85 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 12 | 4.85 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 13 | 4.85 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 4 | 4.85 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 17 | 4.85 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 10 | 4.85 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 10 | 4.85 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 10 | 4.85 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 10 | 4.85 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 10 | 4.85 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 10 | 4.85 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 16 | 4.85 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 16 | 4.85 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 16 | 4.85 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 11 | 4.85 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 18 | 4.85 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 9 | 4.85 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 9 | 4.85 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 9 | 4.85 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 11 | 4.85 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 11 | 4.85 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 11 | 4.85 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 9 | 4.85 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 10 | 4.85 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 14 | 4.85 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 4 | 4.85 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 4 | 4.85 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 6 | 4.85 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 15 | 4.85 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 19 | 4.85 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 9 | 4.85 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 16 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 9 | 4.84 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 10 | 4.84 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 10 | 4.84 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 10 | 4.84 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 10 | 4.84 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 10 | 4.84 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 10 | 4.84 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 12 | 4.84 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 12 | 4.84 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 3 | 4.84 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 3 | 4.84 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 10 | 4.84 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 10 | 4.84 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 10 | 4.84 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 10 | 4.84 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 6 | 4.84 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 6 | 4.84 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 6 | 4.84 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 6 | 4.84 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 4 | 4.84 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 4 | 4.84 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 5 | 4.84 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 5 | 4.84 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 7 | 4.84 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 7 | 4.84 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 10 | 4.84 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 10 | 4.84 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 12 | 4.84 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 12 | 4.84 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 10 | 4.84 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 10 | 4.84 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 10 | 4.84 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 10 | 4.84 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 10 | 4.84 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 10 | 4.84 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 20 | 4.84 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 20 | 4.84 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 20 | 4.84 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 20 | 4.84 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 20 | 4.84 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 20 | 4.84 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 12 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 12 | 4.84 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 12 | 4.84 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 12 | 4.84 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 12 | 4.84 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 12 | 4.84 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 1 | 4.84 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 1 | 4.84 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 16 | 4.84 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 16 | 4.84 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 16 | 4.84 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 16 | 4.84 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 5 | 4.84 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 5 | 4.84 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 16 | 4.84 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 16 | 4.84 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 16 | 4.84 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 16 | 4.84 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 16 | 4.84 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 16 | 4.84 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 2 | 4.84 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 2 | 4.84 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 2 | 4.84 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 2 | 4.84 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 11 | 4.84 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 11 | 4.84 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 10 | 4.84 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 10 | 4.84 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 16 | 4.84 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 16 | 4.84 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 16 | 4.84 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 16 | 4.84 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 8 | 4.84 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 8 | 4.84 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 16 | 4.84 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 16 | 4.84 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 16 | 4.84 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 16 | 4.84 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 16 | 4.84 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 16 | 4.84 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 13 | 4.84 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 13 | 4.84 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 1 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 4 | 4.84 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 13 | 4.84 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 15 | 4.84 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 10 | 4.84 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 2 | 4.84 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 2 | 4.84 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 2 | 4.84 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 1 | 4.84 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 1 | 4.84 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 1 | 4.84 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 15 | 4.84 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 15 | 4.84 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 15 | 4.84 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 19 | 4.84 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 19 | 4.84 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 19 | 4.84 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 2 | 4.84 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 2 | 4.84 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 2 | 4.84 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 11 | 4.84 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 17 | 4.84 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 4 | 4.84 |
| (1,8281) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 7 | 4.84 |
| (1,8281) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 7 | 4.84 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 19 | 4.84 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 7 | 4.84 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 9 | 4.84 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 16 | 4.84 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 16 | 4.84 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 16 | 4.84 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 11 | 4.84 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 11 | 4.84 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 11 | 4.84 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 19 | 4.84 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 19 | 4.84 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 19 | 4.84 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 15 | 4.84 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 15 | 4.84 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 2 | 4.84 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 13 | 4.84 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 8 | 4.84 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 8 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 6 | 4.84 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 6 | 4.84 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 6 | 4.84 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 8 | 4.84 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 13 | 4.84 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 4 | 4.84 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 20 | 4.84 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 4 | 4.84 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 3 | 4.84 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 5 | 4.84 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 5 | 4.84 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 20 | 4.84 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 20 | 4.84 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 20 | 4.84 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 11 | 4.84 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 14 | 4.84 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 9 | 4.84 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 5 | 4.84 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 19 | 4.84 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 19 | 4.84 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 11 | 4.84 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 9 | 4.84 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 14 | 4.84 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 20 | 4.84 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 6 | 4.84 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 6 | 4.84 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 6 | 4.84 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 12 | 4.84 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 19 | 4.84 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 19 | 4.84 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 10 | 4.84 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 11 | 4.84 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 9 | 4.84 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 12 | 4.84 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 17 | 4.84 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 20 | 4.84 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 8 | 4.84 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 8 | 4.84 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 12 | 4.84 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 12 | 4.84 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 10 | 4.84 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 10 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 20 | 4.84 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 6 | 4.84 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 6 | 4.84 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 7 | 4.84 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 17 | 4.84 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 9 | 4.84 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 9 | 4.84 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 9 | 4.84 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 8 | 4.84 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 15 | 4.84 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 1 | 4.84 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 13 | 4.84 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 1 | 4.84 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 2 | 4.84 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 2 | 4.84 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 2 | 4.84 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 4 | 4.84 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 16 | 4.84 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 16 | 4.84 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 16 | 4.84 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 7 | 4.84 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 5 | 4.84 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 5 | 4.84 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 5 | 4.84 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 5 | 4.84 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 5 | 4.84 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 5 | 4.84 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 5 | 4.84 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 5 | 4.84 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 5 | 4.84 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 6 | 4.84 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 6 | 4.84 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 6 | 4.84 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 15 | 4.84 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 15 | 4.84 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 15 | 4.84 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 15 | 4.84 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 15 | 4.84 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 15 | 4.84 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 14 | 4.84 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 14 | 4.84 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 14 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 18 | 4.84 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 20 | 4.84 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 7 | 4.84 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 13 | 4.84 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 8 | 4.84 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 6 | 4.84 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 6 | 4.84 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 9 | 4.84 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 14 | 4.84 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 14 | 4.84 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 14 | 4.84 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 9 | 4.84 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 8 | 4.84 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 8 | 4.84 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 8 | 4.84 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 4 | 4.84 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 17 | 4.84 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 17 | 4.84 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 17 | 4.84 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 17 | 4.84 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 17 | 4.84 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 17 | 4.84 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 7 | 4.84 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 7 | 4.84 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 7 | 4.84 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 2 | 4.84 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 2 | 4.84 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 2 | 4.84 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 8 | 4.84 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 8 | 4.84 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 8 | 4.84 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 2 | 4.84 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 2 | 4.84 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 2 | 4.84 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 11 | 4.84 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 11 | 4.84 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 11 | 4.84 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 11 | 4.84 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 11 | 4.84 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 11 | 4.84 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 20 | 4.84 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 11 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 11 | 4.84 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 11 | 4.84 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 14 | 4.84 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 15 | 4.84 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 2 | 4.84 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 2 | 4.84 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 2 | 4.84 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 9 | 4.84 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 10 | 4.84 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 10 | 4.84 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 10 | 4.84 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 10 | 4.84 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 10 | 4.84 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 10 | 4.84 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 12 | 4.84 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 12 | 4.84 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 8 | 4.84 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 8 | 4.84 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 5 | 4.84 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 5 | 4.84 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 5 | 4.84 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 4.84 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 4.84 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 4.84 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 4 | 4.84 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 4 | 4.84 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 5 | 4.84 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 5 | 4.84 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 5 | 4.84 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 12 | 4.84 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 12 | 4.84 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 12 | 4.84 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 12 | 4.84 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 12 | 4.84 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 12 | 4.84 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 1 | 4.84 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 1 | 4.84 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 5 | 4.84 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 5 | 4.84 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 13 | 4.84 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 19 | 4.84 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 18 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 10 | 4.84 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 10 | 4.84 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 17 | 4.84 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 2 | 4.84 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 2 | 4.84 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 2 | 4.84 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 2 | 4.84 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 4.84 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 4.84 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 4.84 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 4.84 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 19 | 4.84 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 19 | 4.84 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 16 | 4.84 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 16 | 4.84 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 10 | 4.84 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 10 | 4.84 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 16 | 4.84 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 16 | 4.84 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 16 | 4.84 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 16 | 4.84 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 16 | 4.84 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 16 | 4.84 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 13 | 4.84 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 13 | 4.84 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 6 | 4.84 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 6 | 4.84 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 7 | 4.84 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 18 | 4.84 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 18 | 4.84 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 18 | 4.84 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 17 | 4.84 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 9 | 4.84 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 9 | 4.84 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 9 | 4.84 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 1 | 4.84 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 8 | 4.84 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 15 | 4.84 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 1 | 4.84 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 13 | 4.84 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 1 | 4.84 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 2 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 2 | 4.84 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 2 | 4.84 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 4 | 4.84 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 16 | 4.84 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 16 | 4.84 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 16 | 4.84 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 8 | 4.84 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 8 | 4.84 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 8 | 4.84 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 1 | 4.84 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 1 | 4.84 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 1 | 4.84 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 7 | 4.84 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 14 | 4.84 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 14 | 4.84 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 7 | 4.84 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 7 | 4.84 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 7 | 4.84 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 5 | 4.84 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 5 | 4.84 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 5 | 4.84 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 5 | 4.84 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 5 | 4.84 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 5 | 4.84 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 5 | 4.84 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 5 | 4.84 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 5 | 4.84 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 6 | 4.84 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 6 | 4.84 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 6 | 4.84 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 9 | 4.84 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 9 | 4.84 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 9 | 4.84 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 15 | 4.84 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 15 | 4.84 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 15 | 4.84 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 15 | 4.84 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 15 | 4.84 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 15 | 4.84 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 15 | 4.84 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 15 | 4.84 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 15 | 4.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 10 | 4.84 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 10 | 4.84 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 10 | 4.84 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 14 | 4.84 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 14 | 4.84 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 14 | 4.84 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 18 | 4.84 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 12 | 4.84 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 12 | 4.84 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 12 | 4.84 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 20 | 4.84 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 7 | 4.84 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 13 | 4.84 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 8 | 4.84 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 6 | 4.84 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 6 | 4.84 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 9 | 4.84 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 14 | 4.84 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 14 | 4.84 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 14 | 4.84 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 9 | 4.84 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 8 | 4.84 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 8 | 4.84 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 8 | 4.84 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 4 | 4.84 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 3 | 4.84 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 17 | 4.84 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 17 | 4.84 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 17 | 4.84 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 17 | 4.84 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 17 | 4.84 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 17 | 4.84 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 2 | 4.84 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 16 | 4.83 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 16 | 4.83 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 16 | 4.83 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 16 | 4.83 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 16 | 4.83 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 16 | 4.83 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 1 | 4.83 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 1 | 4.83 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 18 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 18 | 4.83 |
| (1,9459) | 1:131:A:GLN:HE21 | 1:132:A:LYS:HA | 16 | 4.83 |
| (1,9459) | 1:131:A:GLN:HE22 | 1:132:A:LYS:HA | 16 | 4.83 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 16 | 4.83 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 16 | 4.83 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 8 | 4.83 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 8 | 4.83 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 8 | 4.83 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 8 | 4.83 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 2 | 4.83 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 2 | 4.83 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 19 | 4.83 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 19 | 4.83 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 7 | 4.83 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 7 | 4.83 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 7 | 4.83 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 7 | 4.83 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 7 | 4.83 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 7 | 4.83 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 7 | 4.83 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 7 | 4.83 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 16 | 4.83 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 16 | 4.83 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 11 | 4.83 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 11 | 4.83 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 11 | 4.83 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 11 | 4.83 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 11 | 4.83 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 11 | 4.83 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 9 | 4.83 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 9 | 4.83 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 11 | 4.83 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 11 | 4.83 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 15 | 4.83 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 15 | 4.83 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 12 | 4.83 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 12 | 4.83 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 12 | 4.83 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 12 | 4.83 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 17 | 4.83 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 17 | 4.83 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 16 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 16 | 4.83 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 1 | 4.83 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 1 | 4.83 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 1 | 4.83 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 1 | 4.83 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 1 | 4.83 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 1 | 4.83 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 17 | 4.83 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 17 | 4.83 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 2 | 4.83 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 2 | 4.83 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 15 | 4.83 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 15 | 4.83 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 19 | 4.83 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 19 | 4.83 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 19 | 4.83 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 19 | 4.83 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 19 | 4.83 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 19 | 4.83 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 16 | 4.83 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 16 | 4.83 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 3 | 4.83 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 3 | 4.83 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 19 | 4.83 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 19 | 4.83 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 3 | 4.83 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 3 | 4.83 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 9 | 4.83 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 9 | 4.83 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 7 | 4.83 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 7 | 4.83 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 12 | 4.83 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 12 | 4.83 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 15 | 4.83 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 15 | 4.83 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 15 | 4.83 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 15 | 4.83 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 9 | 4.83 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 9 | 4.83 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 9 | 4.83 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 9 | 4.83 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 9 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 9 | 4.83 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 7 | 4.83 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 7 | 4.83 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 1 | 4.83 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 1 | 4.83 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 1 | 4.83 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 1 | 4.83 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 10 | 4.83 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 10 | 4.83 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 13 | 4.83 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 13 | 4.83 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 8 | 4.83 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 8 | 4.83 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 10 | 4.83 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 10 | 4.83 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 16 | 4.83 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 16 | 4.83 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 15 | 4.83 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 15 | 4.83 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 15 | 4.83 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 15 | 4.83 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 2 | 4.83 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 2 | 4.83 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 2 | 4.83 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 17 | 4.83 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 6 | 4.83 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 6 | 4.83 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 6 | 4.83 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 10 | 4.83 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 10 | 4.83 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 10 | 4.83 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 20 | 4.83 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 20 | 4.83 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 20 | 4.83 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 16 | 4.83 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 2 | 4.83 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 17 | 4.83 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 17 | 4.83 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 17 | 4.83 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 8 | 4.83 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 8 | 4.83 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 8 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 10 | 4.83 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 10 | 4.83 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 10 | 4.83 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 5 | 4.83 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 20 | 4.83 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 3 | 4.83 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 15 | 4.83 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 13 | 4.83 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 13 | 4.83 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 8 | 4.83 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 8 | 4.83 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 9 | 4.83 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 9 | 4.83 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 9 | 4.83 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 16 | 4.83 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 16 | 4.83 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 4 | 4.83 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 17 | 4.83 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 9 | 4.83 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 16 | 4.83 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 16 | 4.83 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 16 | 4.83 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 5 | 4.83 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 5 | 4.83 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 5 | 4.83 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 11 | 4.83 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 6 | 4.83 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 15 | 4.83 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 15 | 4.83 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 15 | 4.83 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 8 | 4.83 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 17 | 4.83 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 17 | 4.83 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 14 | 4.83 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 14 | 4.83 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 14 | 4.83 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 15 | 4.83 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 15 | 4.83 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 15 | 4.83 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 20 | 4.83 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 20 | 4.83 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 20 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 20 | 4.83 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 20 | 4.83 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 20 | 4.83 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 8 | 4.83 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 8 | 4.83 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 8 | 4.83 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 15 | 4.83 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 15 | 4.83 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 15 | 4.83 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 8 | 4.83 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 8 | 4.83 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 8 | 4.83 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 8 | 4.83 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 4 | 4.83 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 12 | 4.83 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 12 | 4.83 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 12 | 4.83 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 12 | 4.83 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 12 | 4.83 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 12 | 4.83 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 12 | 4.83 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 12 | 4.83 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 12 | 4.83 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 6 | 4.83 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 6 | 4.83 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 6 | 4.83 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 1 | 4.83 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 1 | 4.83 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 1 | 4.83 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 1 | 4.83 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 19 | 4.83 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 19 | 4.83 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 15 | 4.83 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 2 | 4.83 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 2 | 4.83 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 9 | 4.83 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 9 | 4.83 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 9 | 4.83 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 20 | 4.83 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 13 | 4.83 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 2 | 4.83 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 1 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 1 | 4.83 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 16 | 4.83 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 16 | 4.83 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 16 | 4.83 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 19 | 4.83 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 10 | 4.83 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 10 | 4.83 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 3 | 4.83 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 3 | 4.83 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 11 | 4.83 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 11 | 4.83 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 11 | 4.83 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 16 | 4.83 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 16 | 4.83 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 16 | 4.83 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 16 | 4.83 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 16 | 4.83 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 16 | 4.83 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 16 | 4.83 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 16 | 4.83 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 16 | 4.83 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 9 | 4.83 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 9 | 4.83 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 9 | 4.83 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 18 | 4.83 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 18 | 4.83 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 7 | 4.83 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 7 | 4.83 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 7 | 4.83 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 9 | 4.83 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 9 | 4.83 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 9 | 4.83 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 11 | 4.83 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 8 | 4.83 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 8 | 4.83 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 8 | 4.83 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 8 | 4.83 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 8 | 4.83 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 13 | 4.83 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 16 | 4.83 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 16 | 4.83 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 10 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6771) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 18 | 4.83 |
| (1,6771) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 18 | 4.83 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 13 | 4.83 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 13 | 4.83 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 13 | 4.83 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 13 | 4.83 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 13 | 4.83 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 9 | 4.83 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 2 | 4.83 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 13 | 4.83 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 16 | 4.83 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 7 | 4.83 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 7 | 4.83 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 7 | 4.83 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 7 | 4.83 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 7 | 4.83 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 7 | 4.83 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 10 | 4.83 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 20 | 4.83 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 20 | 4.83 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 20 | 4.83 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 6 | 4.83 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 11 | 4.83 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 10 | 4.83 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 1 | 4.83 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 18 | 4.83 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 18 | 4.83 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 18 | 4.83 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 15 | 4.83 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 15 | 4.83 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 15 | 4.83 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 1 | 4.83 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 1 | 4.83 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 1 | 4.83 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 6 | 4.83 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 6 | 4.83 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 6 | 4.83 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 19 | 4.83 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 19 | 4.83 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 19 | 4.83 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 14 | 4.83 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 14 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 12 | 4.83 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 9 | 4.83 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 12 | 4.83 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 6 | 4.83 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 6 | 4.83 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 6 | 4.83 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 20 | 4.83 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 20 | 4.83 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 20 | 4.83 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 12 | 4.83 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 14 | 4.83 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 14 | 4.83 |
| (1,5567) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 14 | 4.83 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 12 | 4.83 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 12 | 4.83 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 12 | 4.83 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 12 | 4.83 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 12 | 4.83 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 12 | 4.83 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 5 | 4.83 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 5 | 4.83 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 5 | 4.83 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 19 | 4.83 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 4 | 4.83 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 7 | 4.83 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 7 | 4.83 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 9 | 4.83 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 4 | 4.83 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 15 | 4.83 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 14 | 4.83 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 2 | 4.83 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 2 | 4.83 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 2 | 4.83 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 3 | 4.83 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 3 | 4.83 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 3 | 4.83 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 3 | 4.83 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 3 | 4.83 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 13 | 4.83 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 13 | 4.83 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 13 | 4.83 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 17 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 7 | 4.83 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 7 | 4.83 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 7 | 4.83 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 8 | 4.83 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 7 | 4.83 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 9 | 4.83 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 9 | 4.83 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 9 | 4.83 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 18 | 4.83 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 18 | 4.83 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 16 | 4.83 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 16 | 4.83 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 12 | 4.83 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 11 | 4.83 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 11 | 4.83 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 12 | 4.83 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 10 | 4.83 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 8 | 4.83 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 16 | 4.83 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 16 | 4.83 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 11 | 4.83 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 11 | 4.83 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 11 | 4.83 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 11 | 4.83 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 11 | 4.83 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 11 | 4.83 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 12 | 4.83 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 12 | 4.83 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 12 | 4.83 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 17 | 4.83 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 17 | 4.83 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 16 | 4.83 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 16 | 4.83 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 1 | 4.83 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 1 | 4.83 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 1 | 4.83 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 1 | 4.83 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 1 | 4.83 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 1 | 4.83 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 16 | 4.83 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 16 | 4.83 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 19 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 19 | 4.83 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 19 | 4.83 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 3 | 4.83 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 3 | 4.83 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 6 | 4.83 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 15 | 4.83 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 15 | 4.83 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 15 | 4.83 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 15 | 4.83 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 8 | 4.83 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 9 | 4.83 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 9 | 4.83 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 9 | 4.83 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 9 | 4.83 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 9 | 4.83 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 9 | 4.83 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 7 | 4.83 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 7 | 4.83 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 18 | 4.83 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 11 | 4.83 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 5 | 4.83 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 5 | 4.83 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 5 | 4.83 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 5 | 4.83 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 5 | 4.83 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 5 | 4.83 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 14 | 4.83 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 19 | 4.83 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 19 | 4.83 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 19 | 4.83 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 19 | 4.83 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 2 | 4.83 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 2 | 4.83 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 12 | 4.83 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 12 | 4.83 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 12 | 4.83 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 19 | 4.83 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 19 | 4.83 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 19 | 4.83 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 19 | 4.83 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 19 | 4.83 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 19 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 6 | 4.83 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 3 | 4.83 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 3 | 4.83 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 2 | 4.83 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 2 | 4.83 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 2 | 4.83 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 11 | 4.83 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 11 | 4.83 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 11 | 4.83 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 16 | 4.83 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 16 | 4.83 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 16 | 4.83 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 16 | 4.83 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 16 | 4.83 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 16 | 4.83 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 16 | 4.83 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 16 | 4.83 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 16 | 4.83 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 9 | 4.83 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 9 | 4.83 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 9 | 4.83 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 4 | 4.83 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 18 | 4.83 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 18 | 4.83 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 7 | 4.83 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 7 | 4.83 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 7 | 4.83 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 9 | 4.83 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 9 | 4.83 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 9 | 4.83 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 8 | 4.83 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 8 | 4.83 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 8 | 4.83 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 8 | 4.83 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 8 | 4.83 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 13 | 4.83 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 16 | 4.83 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 16 | 4.83 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 16 | 4.83 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 10 | 4.83 |
| (1,2726) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 18 | 4.83 |
| (1,2726) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 18 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 13 | 4.83 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 13 | 4.83 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 13 | 4.83 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 13 | 4.83 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 13 | 4.83 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 9 | 4.83 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 2 | 4.83 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 13 | 4.83 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 16 | 4.83 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 7 | 4.83 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 7 | 4.83 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 7 | 4.83 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 7 | 4.83 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 7 | 4.83 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 7 | 4.83 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 10 | 4.83 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 20 | 4.83 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 20 | 4.83 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 20 | 4.83 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 6 | 4.83 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 11 | 4.83 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 10 | 4.83 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 1 | 4.83 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 13 | 4.83 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 4.83 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 18 | 4.83 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 18 | 4.83 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 18 | 4.83 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 15 | 4.83 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 15 | 4.83 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 15 | 4.83 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 1 | 4.83 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 1 | 4.83 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 1 | 4.83 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 6 | 4.83 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 6 | 4.83 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 6 | 4.83 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 19 | 4.83 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 19 | 4.83 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 19 | 4.83 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 14 | 4.83 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 14 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 3 | 4.83 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 3 | 4.83 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 12 | 4.83 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 3 | 4.83 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 3 | 4.83 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 3 | 4.83 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 9 | 4.83 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 9 | 4.83 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 12 | 4.83 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 6 | 4.83 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 6 | 4.83 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 6 | 4.83 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 20 | 4.83 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 20 | 4.83 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 20 | 4.83 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 10 | 4.83 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 12 | 4.83 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 14 | 4.83 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 14 | 4.83 |
| (1,738) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 14 | 4.83 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 18 | 4.83 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 18 | 4.83 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 18 | 4.83 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 6 | 4.83 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 5 | 4.83 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 5 | 4.83 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 5 | 4.83 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 12 | 4.83 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 12 | 4.83 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 12 | 4.83 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 12 | 4.83 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 12 | 4.83 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 12 | 4.83 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 3 | 4.83 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 3 | 4.83 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 3 | 4.83 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 11 | 4.83 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 11 | 4.83 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 11 | 4.83 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 5 | 4.82 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 14 | 4.82 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 7 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 7 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 7 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 7 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 7 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 7 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 7 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 7 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 10 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 10 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 10 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 10 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 10 | 4.82 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 10 | 4.82 |
| (1,9506) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 13 | 4.82 |
| (1,9506) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 13 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 19 | 4.82 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 19 | 4.82 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 12 | 4.82 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 12 | 4.82 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 15 | 4.82 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 15 | 4.82 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 15 | 4.82 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 15 | 4.82 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 4 | 4.82 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 4 | 4.82 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 10 | 4.82 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 10 | 4.82 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 16 | 4.82 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 16 | 4.82 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 16 | 4.82 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 16 | 4.82 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 16 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 16 | 4.82 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 12 | 4.82 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 12 | 4.82 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 7 | 4.82 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 7 | 4.82 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 7 | 4.82 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 7 | 4.82 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 7 | 4.82 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 7 | 4.82 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 2 | 4.82 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 2 | 4.82 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 10 | 4.82 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 10 | 4.82 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 13 | 4.82 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 13 | 4.82 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 20 | 4.82 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 20 | 4.82 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 1 | 4.82 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 1 | 4.82 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 7 | 4.82 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 7 | 4.82 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 8 | 4.82 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 8 | 4.82 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 18 | 4.82 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 18 | 4.82 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 12 | 4.82 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 12 | 4.82 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 12 | 4.82 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 12 | 4.82 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 12 | 4.82 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 12 | 4.82 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 10 | 4.82 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 10 | 4.82 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 5 | 4.82 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 5 | 4.82 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 5 | 4.82 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 5 | 4.82 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 7 | 4.82 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 7 | 4.82 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 7 | 4.82 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 7 | 4.82 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 10 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 10 | 4.82 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 10 | 4.82 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 10 | 4.82 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 10 | 4.82 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 10 | 4.82 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 12 | 4.82 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 12 | 4.82 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 12 | 4.82 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 12 | 4.82 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 12 | 4.82 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 12 | 4.82 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 8 | 4.82 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 8 | 4.82 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 8 | 4.82 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 8 | 4.82 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 6 | 4.82 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 6 | 4.82 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 6 | 4.82 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 6 | 4.82 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 6 | 4.82 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 6 | 4.82 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 16 | 4.82 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 16 | 4.82 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 15 | 4.82 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 15 | 4.82 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 15 | 4.82 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 15 | 4.82 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 16 | 4.82 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 16 | 4.82 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 9 | 4.82 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 9 | 4.82 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 9 | 4.82 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 9 | 4.82 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 11 | 4.82 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 11 | 4.82 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 9 | 4.82 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 17 | 4.82 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 13 | 4.82 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 4 | 4.82 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 4 | 4.82 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 4 | 4.82 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 11 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 15 | 4.82 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 15 | 4.82 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 15 | 4.82 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 8 | 4.82 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 9 | 4.82 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 9 | 4.82 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 12 | 4.82 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 12 | 4.82 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 12 | 4.82 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 9 | 4.82 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 9 | 4.82 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 9 | 4.82 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 18 | 4.82 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 18 | 4.82 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 2 | 4.82 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 14 | 4.82 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 16 | 4.82 |
| (1,8224) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 16 | 4.82 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 19 | 4.82 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 19 | 4.82 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 19 | 4.82 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 14 | 4.82 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 5 | 4.82 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 5 | 4.82 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 5 | 4.82 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 16 | 4.82 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 16 | 4.82 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 17 | 4.82 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 17 | 4.82 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 12 | 4.82 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 18 | 4.82 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 15 | 4.82 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 15 | 4.82 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 10 | 4.82 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 10 | 4.82 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 4 | 4.82 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 12 | 4.82 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 11 | 4.82 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 3 | 4.82 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 18 | 4.82 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 18 | 4.82 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 1 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 1 | 4.82 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 20 | 4.82 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 9 | 4.82 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 9 | 4.82 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 12 | 4.82 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 12 | 4.82 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 12 | 4.82 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 11 | 4.82 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 11 | 4.82 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 11 | 4.82 |
| (1,7818) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 17 | 4.82 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 6 | 4.82 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 9 | 4.82 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 13 | 4.82 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 10 | 4.82 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 14 | 4.82 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 14 | 4.82 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 16 | 4.82 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 18 | 4.82 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 4 | 4.82 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 2 | 4.82 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 8 | 4.82 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 10 | 4.82 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 10 | 4.82 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 10 | 4.82 |
| (1,7562) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 5 | 4.82 |
| (1,7562) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 5 | 4.82 |
| (1,7562) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 5 | 4.82 |
| (1,7562) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 5 | 4.82 |
| (1,7562) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 5 | 4.82 |
| (1,7562) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 5 | 4.82 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 13 | 4.82 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 13 | 4.82 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 13 | 4.82 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 18 | 4.82 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 7 | 4.82 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 3 | 4.82 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 18 | 4.82 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 10 | 4.82 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 6 | 4.82 |
| (1,7388) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 1 | 4.82 |
| (1,7388) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 1 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7388) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 1 | 4.82 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 18 | 4.82 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 3 | 4.82 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 3 | 4.82 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 3 | 4.82 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 4 | 4.82 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 4 | 4.82 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 17 | 4.82 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 17 | 4.82 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 17 | 4.82 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 3 | 4.82 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 3 | 4.82 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 18 | 4.82 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 17 | 4.82 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 2 | 4.82 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 13 | 4.82 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 5 | 4.82 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 19 | 4.82 |
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 4 | 4.82 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 6 | 4.82 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 4 | 4.82 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 4 | 4.82 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 4 | 4.82 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 6 | 4.82 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 1 | 4.82 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 1 | 4.82 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 1 | 4.82 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 19 | 4.82 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 19 | 4.82 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 19 | 4.82 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 3 | 4.82 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 2 | 4.82 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 2 | 4.82 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 2 | 4.82 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 2 | 4.82 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 2 | 4.82 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 2 | 4.82 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 13 | 4.82 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 14 | 4.82 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 18 | 4.82 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 18 | 4.82 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 18 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 8 | 4.82 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 8 | 4.82 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 8 | 4.82 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 14 | 4.82 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 14 | 4.82 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 14 | 4.82 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 14 | 4.82 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 14 | 4.82 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 14 | 4.82 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 16 | 4.82 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 16 | 4.82 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 11 | 4.82 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 13 | 4.82 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 13 | 4.82 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 13 | 4.82 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 13 | 4.82 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 12 | 4.82 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 12 | 4.82 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 12 | 4.82 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 14 | 4.82 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 14 | 4.82 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 14 | 4.82 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 12 | 4.82 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 8 | 4.82 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 8 | 4.82 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 8 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 12 | 4.82 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 12 | 4.82 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 8 | 4.82 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 8 | 4.82 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 8 | 4.82 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 14 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 3 | 4.82 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 18 | 4.82 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 7 | 4.82 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 7 | 4.82 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 7 | 4.82 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 4 | 4.82 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 3 | 4.82 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 2 | 4.82 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 2 | 4.82 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 2 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 10 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 10 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 10 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 10 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 10 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 10 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 12 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 12 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 12 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 12 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 12 | 4.82 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 12 | 4.82 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 18 | 4.82 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 4 | 4.82 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 4 | 4.82 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 5 | 4.82 |
| (1,4828) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 7 | 4.82 |
| (1,4828) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 7 | 4.82 |
| (1,4828) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 7 | 4.82 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 4 | 4.82 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 5 | 4.82 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 5 | 4.82 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 5 | 4.82 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 3 | 4.82 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 3 | 4.82 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 3 | 4.82 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 18 | 4.82 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 18 | 4.82 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 3 | 4.82 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 15 | 4.82 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 15 | 4.82 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 15 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 1 | 4.82 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 2 | 4.82 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 2 | 4.82 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 2 | 4.82 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 2 | 4.82 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 2 | 4.82 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 2 | 4.82 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 2 | 4.82 |
| (1,4492) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 13 | 4.82 |
| (1,4492) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 13 | 4.82 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 15 | 4.82 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 15 | 4.82 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 15 | 4.82 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 15 | 4.82 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 15 | 4.82 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 15 | 4.82 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 11 | 4.82 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 10 | 4.82 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 10 | 4.82 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 5 | 4.82 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 5 | 4.82 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 10 | 4.82 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 10 | 4.82 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 19 | 4.82 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 19 | 4.82 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 19 | 4.82 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 13 | 4.82 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 13 | 4.82 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 3 | 4.82 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 3 | 4.82 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 3 | 4.82 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 6 | 4.82 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 6 | 4.82 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 6 | 4.82 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 4 | 4.82 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 18 | 4.82 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 11 | 4.82 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 17 | 4.82 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 17 | 4.82 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 4 | 4.82 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 4 | 4.82 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 4 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 4 | 4.82 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 4 | 4.82 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 4 | 4.82 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 17 | 4.82 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 19 | 4.82 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 8 | 4.82 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 8 | 4.82 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 1 | 4.82 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 1 | 4.82 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 1 | 4.82 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 7 | 4.82 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 7 | 4.82 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 7 | 4.82 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 7 | 4.82 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 10 | 4.82 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 10 | 4.82 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 10 | 4.82 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 10 | 4.82 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 10 | 4.82 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 10 | 4.82 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 12 | 4.82 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 12 | 4.82 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 12 | 4.82 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 12 | 4.82 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 12 | 4.82 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 12 | 4.82 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 4.82 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 4.82 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 4.82 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 6 | 4.82 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 6 | 4.82 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 6 | 4.82 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 6 | 4.82 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 6 | 4.82 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 6 | 4.82 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 4.82 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 17 | 4.82 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 17 | 4.82 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 17 | 4.82 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 17 | 4.82 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 15 | 4.82 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 6 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 11 | 4.82 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 17 | 4.82 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 17 | 4.82 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 17 | 4.82 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 10 | 4.82 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 3 | 4.82 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 3 | 4.82 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 3 | 4.82 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 3 | 4.82 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 3 | 4.82 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 18 | 4.82 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 17 | 4.82 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 2 | 4.82 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 13 | 4.82 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 5 | 4.82 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 4 | 4.82 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 4 | 4.82 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 4.82 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 19 | 4.82 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 7 | 4.82 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 4 | 4.82 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 6 | 4.82 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 4 | 4.82 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 4 | 4.82 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 4 | 4.82 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 6 | 4.82 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 6 | 4.82 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 4.82 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 6 | 4.82 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 1 | 4.82 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 1 | 4.82 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 1 | 4.82 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 19 | 4.82 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 19 | 4.82 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 19 | 4.82 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 3 | 4.82 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 15 | 4.82 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 2 | 4.82 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 2 | 4.82 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 2 | 4.82 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 2 | 4.82 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 2 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 2 | 4.82 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 13 | 4.82 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 14 | 4.82 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 18 | 4.82 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 18 | 4.82 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 18 | 4.82 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 8 | 4.82 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 8 | 4.82 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 8 | 4.82 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 5 | 4.82 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 5 | 4.82 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 5 | 4.82 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 14 | 4.82 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 14 | 4.82 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 14 | 4.82 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 14 | 4.82 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 14 | 4.82 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 14 | 4.82 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 9 | 4.82 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 9 | 4.82 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 9 | 4.82 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 16 | 4.82 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 16 | 4.82 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 11 | 4.82 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 13 | 4.82 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 4 | 4.82 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 4 | 4.82 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 13 | 4.82 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 13 | 4.82 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 13 | 4.82 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 12 | 4.82 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 12 | 4.82 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 12 | 4.82 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 14 | 4.82 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 14 | 4.82 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 14 | 4.82 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 12 | 4.82 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 2 | 4.82 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 8 | 4.82 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 8 | 4.82 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 8 | 4.82 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 8 | 4.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 20 | 4.82 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 16 | 4.82 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 3 | 4.81 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 3 | 4.81 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 2 | 4.81 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 13 | 4.81 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE21 | 14 | 4.81 |
| (4,53) | 1:15:A:MET:CB | 1:109:A:GLN:HE22 | 14 | 4.81 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 14 | 4.81 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 14 | 4.81 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 14 | 4.81 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 14 | 4.81 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 14 | 4.81 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 14 | 4.81 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 3 | 4.81 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 3 | 4.81 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 20 | 4.81 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 20 | 4.81 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 4.81 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 4.81 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 5 | 4.81 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 5 | 4.81 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 4.81 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 4.81 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 4.81 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 4.81 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 4.81 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 4.81 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 4.81 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 4.81 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 11 | 4.81 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 11 | 4.81 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 11 | 4.81 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 11 | 4.81 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 11 | 4.81 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 11 | 4.81 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 18 | 4.81 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 18 | 4.81 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 18 | 4.81 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 18 | 4.81 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 19 | 4.81 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 19 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 19 | 4.81 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 19 | 4.81 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 19 | 4.81 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 19 | 4.81 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 15 | 4.81 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 15 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 1 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 1 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 1 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 1 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 1 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 1 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 16 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 16 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 16 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 16 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 16 | 4.81 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 16 | 4.81 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 3 | 4.81 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 3 | 4.81 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 3 | 4.81 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 3 | 4.81 |
| (1,9214) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 14 | 4.81 |
| (1,9214) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 14 | 4.81 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 10 | 4.81 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 10 | 4.81 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 15 | 4.81 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 15 | 4.81 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 15 | 4.81 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 15 | 4.81 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 15 | 4.81 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 15 | 4.81 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB2 | 8 | 4.81 |
| (1,9097) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HB3 | 8 | 4.81 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB2 | 8 | 4.81 |
| (1,9097) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HB3 | 8 | 4.81 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB2 | 8 | 4.81 |
| (1,9097) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HB3 | 8 | 4.81 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 3 | 4.81 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 3 | 4.81 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 6 | 4.81 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 6 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 5 | 4.81 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 5 | 4.81 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 5 | 4.81 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 5 | 4.81 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 5 | 4.81 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 5 | 4.81 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 5 | 4.81 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 5 | 4.81 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 12 | 4.81 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 12 | 4.81 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 16 | 4.81 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 16 | 4.81 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 12 | 4.81 |
| (1,8949) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 12 | 4.81 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 15 | 4.81 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 15 | 4.81 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 7 | 4.81 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 7 | 4.81 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 16 | 4.81 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 16 | 4.81 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 10 | 4.81 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 10 | 4.81 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 10 | 4.81 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 10 | 4.81 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 8 | 4.81 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 8 | 4.81 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 14 | 4.81 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 14 | 4.81 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 5 | 4.81 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 5 | 4.81 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 5 | 4.81 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 5 | 4.81 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 5 | 4.81 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 5 | 4.81 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 3 | 4.81 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 3 | 4.81 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 3 | 4.81 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 3 | 4.81 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 3 | 4.81 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 3 | 4.81 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 1 | 4.81 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 1 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 10 | 4.81 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 10 | 4.81 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 11 | 4.81 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 11 | 4.81 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 11 | 4.81 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 11 | 4.81 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 11 | 4.81 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 11 | 4.81 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 2 | 4.81 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 2 | 4.81 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG21 | 2 | 4.81 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG22 | 2 | 4.81 |
| (1,8455) | 1:147:A:SER:HA | 1:159:A:ILE:HG23 | 2 | 4.81 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 12 | 4.81 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 12 | 4.81 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 12 | 4.81 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 2 | 4.81 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 2 | 4.81 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 2 | 4.81 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 17 | 4.81 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 17 | 4.81 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 17 | 4.81 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 1 | 4.81 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 1 | 4.81 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 8 | 4.81 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 2 | 4.81 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 2 | 4.81 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 5 | 4.81 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 12 | 4.81 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 6 | 4.81 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 13 | 4.81 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 2 | 4.81 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 20 | 4.81 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 20 | 4.81 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 20 | 4.81 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 15 | 4.81 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 15 | 4.81 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 15 | 4.81 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 12 | 4.81 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 9 | 4.81 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 9 | 4.81 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 7 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 7 | 4.81 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 10 | 4.81 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 10 | 4.81 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 10 | 4.81 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 13 | 4.81 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 18 | 4.81 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 18 | 4.81 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 18 | 4.81 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 3 | 4.81 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 10 | 4.81 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 17 | 4.81 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 17 | 4.81 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 17 | 4.81 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 9 | 4.81 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 19 | 4.81 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 10 | 4.81 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 10 | 4.81 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 10 | 4.81 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 10 | 4.81 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 10 | 4.81 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 10 | 4.81 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 10 | 4.81 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 10 | 4.81 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 10 | 4.81 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 16 | 4.81 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 16 | 4.81 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 2 | 4.81 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 3 | 4.81 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 3 | 4.81 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 2 | 4.81 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 15 | 4.81 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 9 | 4.81 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 9 | 4.81 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 9 | 4.81 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 9 | 4.81 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 9 | 4.81 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 9 | 4.81 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 9 | 4.81 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 9 | 4.81 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 9 | 4.81 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 9 | 4.81 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 9 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 9 | 4.81 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 1 | 4.81 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 3 | 4.81 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 20 | 4.81 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 3 | 4.81 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 12 | 4.81 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 12 | 4.81 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 12 | 4.81 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 12 | 4.81 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 16 | 4.81 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 9 | 4.81 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 9 | 4.81 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 9 | 4.81 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 9 | 4.81 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 19 | 4.81 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 20 | 4.81 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 5 | 4.81 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 5 | 4.81 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 9 | 4.81 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 8 | 4.81 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 9 | 4.81 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 20 | 4.81 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 8 | 4.81 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 8 | 4.81 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 8 | 4.81 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 8 | 4.81 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 8 | 4.81 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 8 | 4.81 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 9 | 4.81 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 9 | 4.81 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 9 | 4.81 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 16 | 4.81 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 16 | 4.81 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 16 | 4.81 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 13 | 4.81 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 13 | 4.81 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 9 | 4.81 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 6 | 4.81 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 2 | 4.81 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 2 | 4.81 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 2 | 4.81 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 15 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 10 | 4.81 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 15 | 4.81 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 15 | 4.81 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 17 | 4.81 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 17 | 4.81 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 14 | 4.81 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 14 | 4.81 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 7 | 4.81 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 7 | 4.81 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 7 | 4.81 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 17 | 4.81 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 2 | 4.81 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 18 | 4.81 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 13 | 4.81 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 13 | 4.81 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 13 | 4.81 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 1 | 4.81 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 13 | 4.81 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 13 | 4.81 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 13 | 4.81 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 4 | 4.81 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 18 | 4.81 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 18 | 4.81 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 18 | 4.81 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 15 | 4.81 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 15 | 4.81 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 15 | 4.81 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 4 | 4.81 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 6 | 4.81 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 5 | 4.81 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 5 | 4.81 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 5 | 4.81 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 16 | 4.81 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 3 | 4.81 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 15 | 4.81 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 15 | 4.81 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 15 | 4.81 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 7 | 4.81 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 17 | 4.81 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 17 | 4.81 |
| (1,5648) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 17 | 4.81 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 19 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 19 | 4.81 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 19 | 4.81 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 13 | 4.81 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 13 | 4.81 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 13 | 4.81 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 13 | 4.81 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 13 | 4.81 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 13 | 4.81 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 12 | 4.81 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 12 | 4.81 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 12 | 4.81 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 3 | 4.81 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 3 | 4.81 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 3 | 4.81 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 13 | 4.81 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 7 | 4.81 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 7 | 4.81 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 7 | 4.81 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 3 | 4.81 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 10 | 4.81 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 19 | 4.81 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 7 | 4.81 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 12 | 4.81 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 12 | 4.81 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 12 | 4.81 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 4 | 4.81 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 4 | 4.81 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 4 | 4.81 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 10 | 4.81 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 10 | 4.81 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 10 | 4.81 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 6 | 4.81 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 6 | 4.81 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 6 | 4.81 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 8 | 4.81 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 8 | 4.81 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 8 | 4.81 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 11 | 4.81 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 11 | 4.81 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 11 | 4.81 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 2 | 4.81 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 2 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 14 | 4.81 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 14 | 4.81 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 16 | 4.81 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 16 | 4.81 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 14 | 4.81 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 14 | 4.81 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 14 | 4.81 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 14 | 4.81 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 14 | 4.81 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 14 | 4.81 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 3 | 4.81 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 3 | 4.81 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 3 | 4.81 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 4.81 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 4.81 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 4.81 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 4.81 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 4.81 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 4.81 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 11 | 4.81 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 11 | 4.81 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 11 | 4.81 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 11 | 4.81 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 11 | 4.81 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 11 | 4.81 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 18 | 4.81 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 18 | 4.81 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 18 | 4.81 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 18 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 1 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 1 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 1 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 1 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 1 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 1 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 16 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 16 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 16 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 16 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 16 | 4.81 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 16 | 4.81 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 3 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 3 | 4.81 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 3 | 4.81 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 3 | 4.81 |
| (1,4200) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 14 | 4.81 |
| (1,4200) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 14 | 4.81 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 3 | 4.81 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 10 | 4.81 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 10 | 4.81 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 15 | 4.81 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 15 | 4.81 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 15 | 4.81 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 15 | 4.81 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 15 | 4.81 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 15 | 4.81 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 9 | 4.81 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 12 | 4.81 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 3 | 4.81 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 3 | 4.81 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 6 | 4.81 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 6 | 4.81 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 12 | 4.81 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 12 | 4.81 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 9 | 4.81 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 9 | 4.81 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 9 | 4.81 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 11 | 4.81 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 4.81 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 11 | 4.81 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 6 | 4.81 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 6 | 4.81 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 6 | 4.81 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 16 | 4.81 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 10 | 4.81 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 10 | 4.81 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 10 | 4.81 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 10 | 4.81 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 10 | 4.81 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 10 | 4.81 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 8 | 4.81 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 8 | 4.81 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 8 | 4.81 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 4 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 4 | 4.81 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 4 | 4.81 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 16 | 4.81 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 16 | 4.81 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 8 | 4.81 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 8 | 4.81 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 1 | 4.81 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 14 | 4.81 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 14 | 4.81 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 2 | 4.81 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 2 | 4.81 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 2 | 4.81 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 5 | 4.81 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 5 | 4.81 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 5 | 4.81 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 5 | 4.81 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 5 | 4.81 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 5 | 4.81 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 18 | 4.81 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 18 | 4.81 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 18 | 4.81 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 3 | 4.81 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 3 | 4.81 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 3 | 4.81 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 3 | 4.81 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 3 | 4.81 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 3 | 4.81 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 2 | 4.81 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 2 | 4.81 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 9 | 4.81 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 9 | 4.81 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 11 | 4.81 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 11 | 4.81 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 11 | 4.81 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 11 | 4.81 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 11 | 4.81 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 11 | 4.81 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 13 | 4.81 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 19 | 4.81 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 10 | 4.81 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 10 | 4.81 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 9 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 8 | 4.81 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 8 | 4.81 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 8 | 4.81 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 6 | 4.81 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 15 | 4.81 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 2 | 4.81 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 2 | 4.81 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 2 | 4.81 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 3 | 4.81 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 3 | 4.81 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 15 | 4.81 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 10 | 4.81 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 15 | 4.81 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 15 | 4.81 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 17 | 4.81 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 17 | 4.81 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 14 | 4.81 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 14 | 4.81 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 7 | 4.81 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 7 | 4.81 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 7 | 4.81 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 2 | 4.81 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 18 | 4.81 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 13 | 4.81 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 13 | 4.81 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 13 | 4.81 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 1 | 4.81 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 13 | 4.81 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 13 | 4.81 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 13 | 4.81 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 4 | 4.81 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 10 | 4.81 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 10 | 4.81 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 10 | 4.81 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 18 | 4.81 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 18 | 4.81 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 18 | 4.81 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 15 | 4.81 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 15 | 4.81 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 15 | 4.81 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 4 | 4.81 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 6 | 4.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 1 | 4.81 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 1 | 4.81 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 1 | 4.81 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 16 | 4.81 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 16 | 4.81 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 16 | 4.81 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 5 | 4.81 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 5 | 4.81 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 5 | 4.81 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 16 | 4.81 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 3 | 4.81 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 1 | 4.81 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 1 | 4.81 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 6 | 4.81 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 6 | 4.81 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 15 | 4.81 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 4.81 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 7 | 4.81 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 17 | 4.81 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 17 | 4.81 |
| (1,880) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 17 | 4.81 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 19 | 4.81 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 19 | 4.81 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 19 | 4.81 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 12 | 4.81 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 19 | 4.81 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 8 | 4.81 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 9 | 4.81 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 9 | 4.81 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 9 | 4.81 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 13 | 4.81 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 13 | 4.81 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 13 | 4.81 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 13 | 4.81 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 13 | 4.81 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 13 | 4.81 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 13 | 4.81 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 13 | 4.81 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 13 | 4.81 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 20 | 4.8 |
| (4,31) | 1:15:A:MET:CB | 1:82:A:LYS:H | 1 | 4.8 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 10 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 16 | 4.8 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 16 | 4.8 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 12 | 4.8 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 12 | 4.8 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 12 | 4.8 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 12 | 4.8 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 12 | 4.8 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 12 | 4.8 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 5 | 4.8 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 5 | 4.8 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 2 | 4.8 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 2 | 4.8 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 13 | 4.8 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 13 | 4.8 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 18 | 4.8 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 18 | 4.8 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 19 | 4.8 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 19 | 4.8 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 4 | 4.8 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 4 | 4.8 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 4 | 4.8 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 4 | 4.8 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 4 | 4.8 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 4 | 4.8 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 1 | 4.8 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 1 | 4.8 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 16 | 4.8 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 16 | 4.8 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 9 | 4.8 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 9 | 4.8 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 9 | 4.8 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 9 | 4.8 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 9 | 4.8 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 9 | 4.8 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 3 | 4.8 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 3 | 4.8 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 3 | 4.8 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 3 | 4.8 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 5 | 4.8 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 5 | 4.8 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 6 | 4.8 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 6 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 11 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 11 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 11 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 11 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 11 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 11 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 15 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 15 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 15 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 15 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 15 | 4.8 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 15 | 4.8 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB2 | 13 | 4.8 |
| (1,9149) | 1:92:A:TYR:H | 1:94:A:GLN:HB3 | 13 | 4.8 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 13 | 4.8 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 13 | 4.8 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 5 | 4.8 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 5 | 4.8 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 12 | 4.8 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 12 | 4.8 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 12 | 4.8 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 12 | 4.8 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 12 | 4.8 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 12 | 4.8 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 8 | 4.8 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 8 | 4.8 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 8 | 4.8 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 8 | 4.8 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 10 | 4.8 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 10 | 4.8 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 14 | 4.8 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 14 | 4.8 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 11 | 4.8 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 11 | 4.8 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 11 | 4.8 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 11 | 4.8 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 16 | 4.8 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 16 | 4.8 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 16 | 4.8 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 16 | 4.8 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 16 | 4.8 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 16 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 8 | 4.8 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 8 | 4.8 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 17 | 4.8 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 17 | 4.8 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 17 | 4.8 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 17 | 4.8 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 5 | 4.8 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 5 | 4.8 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 14 | 4.8 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 14 | 4.8 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 14 | 4.8 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 14 | 4.8 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 1 | 4.8 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 1 | 4.8 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 4 | 4.8 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 4 | 4.8 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 4 | 4.8 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 4 | 4.8 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 7 | 4.8 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 7 | 4.8 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 13 | 4.8 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 13 | 4.8 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 7 | 4.8 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 7 | 4.8 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 7 | 4.8 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 7 | 4.8 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 7 | 4.8 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 7 | 4.8 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 7 | 4.8 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 7 | 4.8 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 7 | 4.8 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 14 | 4.8 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 14 | 4.8 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 14 | 4.8 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 14 | 4.8 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 14 | 4.8 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 14 | 4.8 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 14 | 4.8 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 14 | 4.8 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 14 | 4.8 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 18 | 4.8 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 2 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 1 | 4.8 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 4 | 4.8 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 4 | 4.8 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 11 | 4.8 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 11 | 4.8 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 11 | 4.8 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 3 | 4.8 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 20 | 4.8 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 18 | 4.8 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 9 | 4.8 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 9 | 4.8 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 10 | 4.8 |
| (1,8173) | 1:101:A:GLU:HB2 | 1:106:A:LEU:H | 15 | 4.8 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 20 | 4.8 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 20 | 4.8 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 13 | 4.8 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 9 | 4.8 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 9 | 4.8 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 11 | 4.8 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 11 | 4.8 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 11 | 4.8 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 9 | 4.8 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 18 | 4.8 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 10 | 4.8 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 10 | 4.8 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 14 | 4.8 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 2 | 4.8 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 2 | 4.8 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 2 | 4.8 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 1 | 4.8 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 10 | 4.8 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 10 | 4.8 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 10 | 4.8 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 12 | 4.8 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 12 | 4.8 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 11 | 4.8 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 4 | 4.8 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 4 | 4.8 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 4 | 4.8 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 4 | 4.8 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 4 | 4.8 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 4 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 4 | 4.8 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 4 | 4.8 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 4 | 4.8 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 6 | 4.8 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 5 | 4.8 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 10 | 4.8 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 6 | 4.8 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 6 | 4.8 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 6 | 4.8 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 1 | 4.8 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 11 | 4.8 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 20 | 4.8 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 20 | 4.8 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 20 | 4.8 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 20 | 4.8 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 20 | 4.8 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 20 | 4.8 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 3 | 4.8 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 3 | 4.8 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 3 | 4.8 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 3 | 4.8 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 12 | 4.8 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 16 | 4.8 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 16 | 4.8 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 2 | 4.8 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 2 | 4.8 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 2 | 4.8 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 12 | 4.8 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 17 | 4.8 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 11 | 4.8 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 11 | 4.8 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 10 | 4.8 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 10 | 4.8 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 10 | 4.8 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 8 | 4.8 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 9 | 4.8 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 5 | 4.8 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 5 | 4.8 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 10 | 4.8 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 10 | 4.8 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 1 | 4.8 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 1 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 19 | 4.8 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 19 | 4.8 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 5 | 4.8 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 18 | 4.8 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 18 | 4.8 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 1 | 4.8 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 5 | 4.8 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 5 | 4.8 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 9 | 4.8 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 9 | 4.8 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 8 | 4.8 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 8 | 4.8 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 8 | 4.8 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 20 | 4.8 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 20 | 4.8 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 20 | 4.8 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 8 | 4.8 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 14 | 4.8 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 14 | 4.8 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 14 | 4.8 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 1 | 4.8 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 15 | 4.8 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 15 | 4.8 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 15 | 4.8 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 15 | 4.8 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 15 | 4.8 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 15 | 4.8 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 11 | 4.8 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 11 | 4.8 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 11 | 4.8 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 18 | 4.8 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 12 | 4.8 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 10 | 4.8 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 2 | 4.8 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 6 | 4.8 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 3 | 4.8 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 3 | 4.8 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 3 | 4.8 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 3 | 4.8 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 3 | 4.8 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 3 | 4.8 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 3 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 3 | 4.8 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 3 | 4.8 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 6 | 4.8 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 6 | 4.8 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 6 | 4.8 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 20 | 4.8 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 20 | 4.8 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 20 | 4.8 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 2 | 4.8 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 2 | 4.8 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 2 | 4.8 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 5 | 4.8 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 13 | 4.8 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 15 | 4.8 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 15 | 4.8 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 15 | 4.8 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 13 | 4.8 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 13 | 4.8 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 14 | 4.8 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 14 | 4.8 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 14 | 4.8 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 17 | 4.8 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 17 | 4.8 |
| (1,6052) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 17 | 4.8 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 2 | 4.8 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 1 | 4.8 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 18 | 4.8 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 14 | 4.8 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 8 | 4.8 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 8 | 4.8 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 8 | 4.8 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 1 | 4.8 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 20 | 4.8 |
| (1,5673) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 18 | 4.8 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 15 | 4.8 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 15 | 4.8 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 15 | 4.8 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 12 | 4.8 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 5 | 4.8 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 16 | 4.8 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 16 | 4.8 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 16 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 13 | 4.8 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 13 | 4.8 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 13 | 4.8 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 3 | 4.8 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 3 | 4.8 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 3 | 4.8 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 13 | 4.8 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 13 | 4.8 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 13 | 4.8 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 20 | 4.8 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 14 | 4.8 |
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 14 | 4.8 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 14 | 4.8 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 15 | 4.8 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 1 | 4.8 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 1 | 4.8 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 1 | 4.8 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 12 | 4.8 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 14 | 4.8 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 1 | 4.8 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 6 | 4.8 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 1 | 4.8 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 1 | 4.8 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 1 | 4.8 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 3 | 4.8 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 3 | 4.8 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 3 | 4.8 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 14 | 4.8 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 16 | 4.8 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 3 | 4.8 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 3 | 4.8 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 3 | 4.8 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 5 | 4.8 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 5 | 4.8 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 5 | 4.8 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 16 | 4.8 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 16 | 4.8 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 16 | 4.8 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 16 | 4.8 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 16 | 4.8 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 14 | 4.8 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 14 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 14 | 4.8 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 12 | 4.8 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 12 | 4.8 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 12 | 4.8 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 12 | 4.8 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 12 | 4.8 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 12 | 4.8 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 13 | 4.8 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 13 | 4.8 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 3 | 4.8 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 3 | 4.8 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 8 | 4.8 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 6 | 4.8 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 4.8 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 14 | 4.8 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 14 | 4.8 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 14 | 4.8 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 14 | 4.8 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 5 | 4.8 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 5 | 4.8 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 19 | 4.8 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 19 | 4.8 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 19 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 11 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 11 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 11 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 11 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 11 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 11 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 15 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 15 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 15 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 15 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 15 | 4.8 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 15 | 4.8 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 17 | 4.8 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 17 | 4.8 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 17 | 4.8 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 13 | 4.8 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 13 | 4.8 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 11 | 4.8 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 1 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 19 | 4.8 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 5 | 4.8 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 5 | 4.8 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 12 | 4.8 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 12 | 4.8 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 12 | 4.8 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 12 | 4.8 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 12 | 4.8 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 12 | 4.8 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 4 | 4.8 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 14 | 4.8 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 14 | 4.8 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 14 | 4.8 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 4 | 4.8 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 11 | 4.8 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 11 | 4.8 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 11 | 4.8 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 4 | 4.8 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 3 | 4.8 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 3 | 4.8 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 4 | 4.8 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 7 | 4.8 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 7 | 4.8 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 4.8 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 4.8 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 4.8 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 19 | 4.8 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 19 | 4.8 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 1 | 4.8 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 12 | 4.8 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 5 | 4.8 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 18 | 4.8 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 18 | 4.8 |
| (1,3172) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 14 | 4.8 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 2 | 4.8 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 2 | 4.8 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 2 | 4.8 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 1 | 4.8 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 5 | 4.8 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 5 | 4.8 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 8 | 4.8 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 8 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 8 | 4.8 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 20 | 4.8 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 20 | 4.8 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 20 | 4.8 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 8 | 4.8 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 14 | 4.8 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 14 | 4.8 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 14 | 4.8 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 18 | 4.8 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 18 | 4.8 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 18 | 4.8 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 1 | 4.8 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 15 | 4.8 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 15 | 4.8 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 15 | 4.8 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 15 | 4.8 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 15 | 4.8 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 15 | 4.8 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 9 | 4.8 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 9 | 4.8 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 9 | 4.8 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 11 | 4.8 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 11 | 4.8 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 11 | 4.8 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 18 | 4.8 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 12 | 4.8 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 10 | 4.8 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 2 | 4.8 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 9 | 4.8 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 6 | 4.8 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 3 | 4.8 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 3 | 4.8 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 3 | 4.8 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 3 | 4.8 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 3 | 4.8 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 3 | 4.8 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 3 | 4.8 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 3 | 4.8 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 3 | 4.8 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 6 | 4.8 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 6 | 4.8 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 6 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 20 | 4.8 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 20 | 4.8 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 20 | 4.8 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 2 | 4.8 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 2 | 4.8 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 2 | 4.8 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 5 | 4.8 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 13 | 4.8 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 15 | 4.8 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 15 | 4.8 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 15 | 4.8 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 13 | 4.8 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 13 | 4.8 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 14 | 4.8 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 14 | 4.8 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 14 | 4.8 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 17 | 4.8 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 17 | 4.8 |
| (1,1604) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 17 | 4.8 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 11 | 4.8 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 11 | 4.8 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 9 | 4.8 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 9 | 4.8 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 9 | 4.8 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 2 | 4.8 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 1 | 4.8 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 10 | 4.8 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 10 | 4.8 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 10 | 4.8 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 18 | 4.8 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 14 | 4.8 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 8 | 4.8 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 8 | 4.8 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 8 | 4.8 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 1 | 4.8 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 20 | 4.8 |
| (1,934) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 18 | 4.8 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 15 | 4.8 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 15 | 4.8 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 15 | 4.8 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 2 | 4.8 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 2 | 4.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 12 | 4.8 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 15 | 4.8 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 18 | 4.8 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 5 | 4.8 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 5 | 4.8 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 10 | 4.8 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 16 | 4.8 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 16 | 4.8 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 16 | 4.8 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 2 | 4.8 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 2 | 4.8 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 2 | 4.8 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 5 | 4.79 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 13 | 4.79 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 13 | 4.79 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 13 | 4.79 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 13 | 4.79 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 13 | 4.79 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 13 | 4.79 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 20 | 4.79 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 20 | 4.79 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 20 | 4.79 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 20 | 4.79 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 20 | 4.79 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 20 | 4.79 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 10 | 4.79 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 10 | 4.79 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 11 | 4.79 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 11 | 4.79 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 18 | 4.79 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 18 | 4.79 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 20 | 4.79 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 20 | 4.79 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 1 | 4.79 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 1 | 4.79 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 14 | 4.79 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 14 | 4.79 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 18 | 4.79 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 18 | 4.79 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 4.79 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 4.79 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 20 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 20 | 4.79 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 15 | 4.79 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 15 | 4.79 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 3 | 4.79 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 3 | 4.79 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 12 | 4.79 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 12 | 4.79 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 10 | 4.79 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 10 | 4.79 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 18 | 4.79 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 18 | 4.79 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 20 | 4.79 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 20 | 4.79 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 2 | 4.79 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 2 | 4.79 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 6 | 4.79 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 6 | 4.79 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 3 | 4.79 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 3 | 4.79 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 3 | 4.79 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 3 | 4.79 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 4 | 4.79 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 4 | 4.79 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 4 | 4.79 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 4 | 4.79 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 15 | 4.79 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 15 | 4.79 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 2 | 4.79 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 2 | 4.79 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 2 | 4.79 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 2 | 4.79 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 6 | 4.79 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 6 | 4.79 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 11 | 4.79 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 11 | 4.79 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 14 | 4.79 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 14 | 4.79 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 14 | 4.79 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 14 | 4.79 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 18 | 4.79 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 18 | 4.79 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 3 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 3 | 4.79 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 11 | 4.79 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 9 | 4.79 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 9 | 4.79 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 9 | 4.79 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 16 | 4.79 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 9 | 4.79 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 9 | 4.79 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 9 | 4.79 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 4 | 4.79 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 15 | 4.79 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 7 | 4.79 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 5 | 4.79 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 5 | 4.79 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 5 | 4.79 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 2 | 4.79 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 2 | 4.79 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 2 | 4.79 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 18 | 4.79 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 18 | 4.79 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 18 | 4.79 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 9 | 4.79 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 9 | 4.79 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 19 | 4.79 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 7 | 4.79 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 12 | 4.79 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 2 | 4.79 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 2 | 4.79 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 8 | 4.79 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 11 | 4.79 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 11 | 4.79 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 11 | 4.79 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 11 | 4.79 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 11 | 4.79 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 11 | 4.79 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 8 | 4.79 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 7 | 4.79 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 7 | 4.79 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 7 | 4.79 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 16 | 4.79 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 4 | 4.79 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 16 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 16 | 4.79 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD11 | 14 | 4.79 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD12 | 14 | 4.79 |
| (1,8116) | 1:93:A:ILE:HA | 1:106:A:LEU:HD13 | 14 | 4.79 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 2 | 4.79 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 4 | 4.79 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 4 | 4.79 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 5 | 4.79 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 15 | 4.79 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 15 | 4.79 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 9 | 4.79 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 9 | 4.79 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 9 | 4.79 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 7 | 4.79 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 20 | 4.79 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 20 | 4.79 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 20 | 4.79 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 14 | 4.79 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 14 | 4.79 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 14 | 4.79 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 14 | 4.79 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 14 | 4.79 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 14 | 4.79 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 11 | 4.79 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 11 | 4.79 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 11 | 4.79 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 11 | 4.79 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 11 | 4.79 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 11 | 4.79 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 11 | 4.79 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 11 | 4.79 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 11 | 4.79 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 5 | 4.79 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 15 | 4.79 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 18 | 4.79 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 18 | 4.79 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 12 | 4.79 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 11 | 4.79 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 4 | 4.79 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 6 | 4.79 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 6 | 4.79 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 14 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 12 | 4.79 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 8 | 4.79 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 8 | 4.79 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 7 | 4.79 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 14 | 4.79 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 4 | 4.79 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 3 | 4.79 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 1 | 4.79 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 1 | 4.79 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 1 | 4.79 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG11 | 10 | 4.79 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG12 | 10 | 4.79 |
| (1,7557) | 1:21:A:ARG:H | 1:22:A:VAL:HG13 | 10 | 4.79 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 3 | 4.79 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 7 | 4.79 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 14 | 4.79 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 10 | 4.79 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 10 | 4.79 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 10 | 4.79 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 8 | 4.79 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 8 | 4.79 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 2 | 4.79 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 16 | 4.79 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 16 | 4.79 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 6 | 4.79 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 15 | 4.79 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 17 | 4.79 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 17 | 4.79 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 17 | 4.79 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 17 | 4.79 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 17 | 4.79 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 17 | 4.79 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 11 | 4.79 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 12 | 4.79 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 12 | 4.79 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 12 | 4.79 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 7 | 4.79 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 19 | 4.79 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 1 | 4.79 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 4 | 4.79 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 1 | 4.79 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 1 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 7 | 4.79 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 16 | 4.79 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 16 | 4.79 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 16 | 4.79 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 16 | 4.79 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 8 | 4.79 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 8 | 4.79 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 8 | 4.79 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 16 | 4.79 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 16 | 4.79 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 10 | 4.79 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 10 | 4.79 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 7 | 4.79 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 7 | 4.79 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 7 | 4.79 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 1 | 4.79 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 1 | 4.79 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 1 | 4.79 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 10 | 4.79 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 15 | 4.79 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 15 | 4.79 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 15 | 4.79 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 15 | 4.79 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 15 | 4.79 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 15 | 4.79 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 6 | 4.79 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 6 | 4.79 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 6 | 4.79 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 13 | 4.79 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 13 | 4.79 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 13 | 4.79 |
| (1,5703) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 5 | 4.79 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 8 | 4.79 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 17 | 4.79 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 8 | 4.79 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 8 | 4.79 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 8 | 4.79 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 8 | 4.79 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 8 | 4.79 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 8 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 17 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 17 | 4.79 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 17 | 4.79 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 5 | 4.79 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 5 | 4.79 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 5 | 4.79 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 6 | 4.79 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 6 | 4.79 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 6 | 4.79 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 6 | 4.79 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 6 | 4.79 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 6 | 4.79 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 4 | 4.79 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 7 | 4.79 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 13 | 4.79 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 17 | 4.79 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 8 | 4.79 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 6 | 4.79 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 10 | 4.79 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 10 | 4.79 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 10 | 4.79 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 11 | 4.79 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 5 | 4.79 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 4.79 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 4.79 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 4.79 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 2 | 4.79 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 2 | 4.79 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 2 | 4.79 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 2 | 4.79 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 2 | 4.79 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 2 | 4.79 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 2 | 4.79 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 2 | 4.79 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 2 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 11 | 4.79 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 15 | 4.79 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 5 | 4.79 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 5 | 4.79 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 5 | 4.79 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 14 | 4.79 |
| (1,4746) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 16 | 4.79 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 5 | 4.79 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 5 | 4.79 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 5 | 4.79 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 10 | 4.79 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 10 | 4.79 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 10 | 4.79 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 11 | 4.79 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 11 | 4.79 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 11 | 4.79 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 9 | 4.79 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 3 | 4.79 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 10 | 4.79 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 13 | 4.79 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 7 | 4.79 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 7 | 4.79 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 7 | 4.79 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 9 | 4.79 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 9 | 4.79 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 9 | 4.79 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 17 | 4.79 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 11 | 4.79 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 11 | 4.79 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 13 | 4.79 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 12 | 4.79 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 15 | 4.79 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 6 | 4.79 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 6 | 4.79 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 6 | 4.79 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 1 | 4.79 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 1 | 4.79 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 14 | 4.79 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 14 | 4.79 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 4.79 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 4.79 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 3 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 15 | 4.79 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 15 | 4.79 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 14 | 4.79 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 10 | 4.79 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 10 | 4.79 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 10 | 4.79 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 16 | 4.79 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 16 | 4.79 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 16 | 4.79 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 2 | 4.79 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 2 | 4.79 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 2 | 4.79 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 16 | 4.79 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 4 | 4.79 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 17 | 4.79 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 17 | 4.79 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 8 | 4.79 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 9 | 4.79 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 18 | 4.79 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 6 | 4.79 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 6 | 4.79 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 16 | 4.79 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 16 | 4.79 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 16 | 4.79 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 13 | 4.79 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 6 | 4.79 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 15 | 4.79 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 2 | 4.79 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 2 | 4.79 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 6 | 4.79 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 16 | 4.79 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 16 | 4.79 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 16 | 4.79 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 15 | 4.79 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 17 | 4.79 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 17 | 4.79 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 17 | 4.79 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 17 | 4.79 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 17 | 4.79 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 17 | 4.79 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 1 | 4.79 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 11 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 12 | 4.79 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 12 | 4.79 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 12 | 4.79 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 7 | 4.79 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 19 | 4.79 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 16 | 4.79 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 16 | 4.79 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 16 | 4.79 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 16 | 4.79 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 16 | 4.79 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 16 | 4.79 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 11 | 4.79 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 11 | 4.79 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 11 | 4.79 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 11 | 4.79 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 11 | 4.79 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 11 | 4.79 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 1 | 4.79 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 4 | 4.79 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 4 | 4.79 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 1 | 4.79 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 3 | 4.79 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 7 | 4.79 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 7 | 4.79 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 16 | 4.79 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 16 | 4.79 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 16 | 4.79 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 6 | 4.79 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 16 | 4.79 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 8 | 4.79 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 8 | 4.79 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 8 | 4.79 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 13 | 4.79 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 16 | 4.79 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 16 | 4.79 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 5 | 4.79 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 13 | 4.79 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 10 | 4.79 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 10 | 4.79 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 11 | 4.79 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 11 | 4.79 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 11 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 7 | 4.79 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 7 | 4.79 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 7 | 4.79 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 1 | 4.79 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 1 | 4.79 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 1 | 4.79 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 10 | 4.79 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 11 | 4.79 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 11 | 4.79 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 11 | 4.79 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 17 | 4.79 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 17 | 4.79 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 17 | 4.79 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 2 | 4.79 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 8 | 4.79 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 15 | 4.79 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 15 | 4.79 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 15 | 4.79 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 15 | 4.79 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 15 | 4.79 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 15 | 4.79 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 5 | 4.79 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 5 | 4.79 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 6 | 4.79 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 6 | 4.79 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 6 | 4.79 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 12 | 4.79 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 12 | 4.79 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 13 | 4.79 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 13 | 4.79 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 13 | 4.79 |
| (1,980) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 5 | 4.79 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 8 | 4.79 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 8 | 4.79 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 17 | 4.79 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 13 | 4.79 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 8 | 4.79 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 8 | 4.79 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 8 | 4.79 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 8 | 4.79 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 8 | 4.79 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 8 | 4.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 11 | 4.79 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 4 | 4.79 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 4 | 4.79 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 4 | 4.79 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 2 | 4.79 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 2 | 4.79 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 2 | 4.79 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 13 | 4.79 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 13 | 4.79 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 13 | 4.79 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 11 | 4.78 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 11 | 4.78 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 13 | 4.78 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 12 | 4.78 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 12 | 4.78 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 12 | 4.78 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 12 | 4.78 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 12 | 4.78 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 12 | 4.78 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 6 | 4.78 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 6 | 4.78 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 17 | 4.78 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 17 | 4.78 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 17 | 4.78 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 17 | 4.78 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 6 | 4.78 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 6 | 4.78 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 17 | 4.78 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 17 | 4.78 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 5 | 4.78 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 5 | 4.78 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 5 | 4.78 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 5 | 4.78 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 5 | 4.78 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 5 | 4.78 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 5 | 4.78 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 5 | 4.78 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 9 | 4.78 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 9 | 4.78 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 5 | 4.78 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 5 | 4.78 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 9 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 9 | 4.78 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 2 | 4.78 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 2 | 4.78 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 2 | 4.78 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 2 | 4.78 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 14 | 4.78 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 14 | 4.78 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 11 | 4.78 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 11 | 4.78 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 11 | 4.78 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 11 | 4.78 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 11 | 4.78 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 11 | 4.78 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 16 | 4.78 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 16 | 4.78 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 20 | 4.78 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 20 | 4.78 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 6 | 4.78 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 6 | 4.78 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 5 | 4.78 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 5 | 4.78 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 20 | 4.78 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 20 | 4.78 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 14 | 4.78 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 14 | 4.78 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 14 | 4.78 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 14 | 4.78 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 14 | 4.78 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 14 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 4 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 4 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 4 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 4 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 7 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 7 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 7 | 4.78 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 7 | 4.78 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 15 | 4.78 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 15 | 4.78 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 15 | 4.78 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 15 | 4.78 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 4 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 4 | 4.78 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 13 | 4.78 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 13 | 4.78 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 16 | 4.78 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 16 | 4.78 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 12 | 4.78 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 12 | 4.78 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 1 | 4.78 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 1 | 4.78 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 8 | 4.78 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 8 | 4.78 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 8 | 4.78 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 8 | 4.78 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 3 | 4.78 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 3 | 4.78 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 12 | 4.78 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 12 | 4.78 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 12 | 4.78 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 12 | 4.78 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 20 | 4.78 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 20 | 4.78 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 13 | 4.78 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 13 | 4.78 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 16 | 4.78 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 16 | 4.78 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 16 | 4.78 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 14 | 4.78 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 14 | 4.78 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 14 | 4.78 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 18 | 4.78 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 1 | 4.78 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 1 | 4.78 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 1 | 4.78 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 16 | 4.78 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 16 | 4.78 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 16 | 4.78 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 14 | 4.78 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 14 | 4.78 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 9 | 4.78 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 9 | 4.78 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 9 | 4.78 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 10 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 10 | 4.78 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 10 | 4.78 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 14 | 4.78 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 14 | 4.78 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 14 | 4.78 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 18 | 4.78 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 18 | 4.78 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 2 | 4.78 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 3 | 4.78 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 19 | 4.78 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 13 | 4.78 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 13 | 4.78 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 13 | 4.78 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 13 | 4.78 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 13 | 4.78 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 13 | 4.78 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 19 | 4.78 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 7 | 4.78 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 7 | 4.78 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 16 | 4.78 |
| (1,8145) | 1:96:A:ILE:HG12 | 1:97:A:LYS:H | 20 | 4.78 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 9 | 4.78 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 9 | 4.78 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 9 | 4.78 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 9 | 4.78 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 9 | 4.78 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 9 | 4.78 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 9 | 4.78 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 9 | 4.78 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 9 | 4.78 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 17 | 4.78 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 17 | 4.78 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 17 | 4.78 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 8 | 4.78 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 15 | 4.78 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 15 | 4.78 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 15 | 4.78 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 20 | 4.78 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 20 | 4.78 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 20 | 4.78 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 10 | 4.78 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 10 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 10 | 4.78 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 5 | 4.78 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 7 | 4.78 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 10 | 4.78 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 10 | 4.78 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 10 | 4.78 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 8 | 4.78 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 8 | 4.78 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 8 | 4.78 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 8 | 4.78 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 8 | 4.78 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 20 | 4.78 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB1 | 19 | 4.78 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB2 | 19 | 4.78 |
| (1,7886) | 1:65:A:SER:H | 1:85:A:ALA:HB3 | 19 | 4.78 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 1 | 4.78 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 3 | 4.78 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 3 | 4.78 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 3 | 4.78 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 3 | 4.78 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 3 | 4.78 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 3 | 4.78 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 3 | 4.78 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 3 | 4.78 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 3 | 4.78 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 20 | 4.78 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 20 | 4.78 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 20 | 4.78 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 19 | 4.78 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD2 | 2 | 4.78 |
| (1,7712) | 1:53:A:ALA:HA | 1:54:A:ARG:HD3 | 2 | 4.78 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 2 | 4.78 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 13 | 4.78 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 13 | 4.78 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 4 | 4.78 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 4 | 4.78 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 4 | 4.78 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 4 | 4.78 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 4 | 4.78 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 4 | 4.78 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 4 | 4.78 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 4 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 4 | 4.78 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 18 | 4.78 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 12 | 4.78 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 11 | 4.78 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 19 | 4.78 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 18 | 4.78 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 4 | 4.78 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 3 | 4.78 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 3 | 4.78 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 1 | 4.78 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 15 | 4.78 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 1 | 4.78 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 11 | 4.78 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 11 | 4.78 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 11 | 4.78 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 6 | 4.78 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 17 | 4.78 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 12 | 4.78 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 9 | 4.78 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 17 | 4.78 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 13 | 4.78 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 13 | 4.78 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 8 | 4.78 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 10 | 4.78 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 10 | 4.78 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 2 | 4.78 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 2 | 4.78 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 10 | 4.78 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 1 | 4.78 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 1 | 4.78 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 1 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 8 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 8 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 8 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 16 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 16 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 16 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 19 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 19 | 4.78 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 19 | 4.78 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 7 | 4.78 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 7 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 7 | 4.78 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 17 | 4.78 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 17 | 4.78 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 17 | 4.78 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 17 | 4.78 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 17 | 4.78 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 17 | 4.78 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 17 | 4.78 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 14 | 4.78 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 16 | 4.78 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 11 | 4.78 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 11 | 4.78 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 11 | 4.78 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 17 | 4.78 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 17 | 4.78 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 17 | 4.78 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 16 | 4.78 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 4 | 4.78 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 4 | 4.78 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 4 | 4.78 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 2 | 4.78 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 2 | 4.78 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 2 | 4.78 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 2 | 4.78 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 2 | 4.78 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 2 | 4.78 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 2 | 4.78 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 2 | 4.78 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 2 | 4.78 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 9 | 4.78 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 9 | 4.78 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 9 | 4.78 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 20 | 4.78 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 20 | 4.78 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 20 | 4.78 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 19 | 4.78 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 5 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 1 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 1 | 4.78 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 1 | 4.78 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 9 | 4.78 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 9 | 4.78 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 9 | 4.78 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 2 | 4.78 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 2 | 4.78 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 2 | 4.78 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 7 | 4.78 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 17 | 4.78 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 2 | 4.78 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 18 | 4.78 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 15 | 4.78 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 15 | 4.78 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 15 | 4.78 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 15 | 4.78 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 15 | 4.78 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 15 | 4.78 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 10 | 4.78 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 10 | 4.78 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 10 | 4.78 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 6 | 4.78 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 13 | 4.78 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 20 | 4.78 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 20 | 4.78 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 20 | 4.78 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 10 | 4.78 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 14 | 4.78 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 14 | 4.78 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 14 | 4.78 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 17 | 4.78 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 10 | 4.78 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 10 | 4.78 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 10 | 4.78 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 12 | 4.78 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 12 | 4.78 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 12 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 5 | 4.78 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 5 | 4.78 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 5 | 4.78 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 17 | 4.78 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 17 | 4.78 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 17 | 4.78 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 6 | 4.78 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 6 | 4.78 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 6 | 4.78 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 9 | 4.78 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 12 | 4.78 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 12 | 4.78 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 12 | 4.78 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 12 | 4.78 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 12 | 4.78 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 12 | 4.78 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 4.78 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 4.78 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 4.78 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 1 | 4.78 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 6 | 4.78 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 7 | 4.78 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 13 | 4.78 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 13 | 4.78 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 15 | 4.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 2 | 4.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 3 | 4.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 6 | 4.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 7 | 4.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 9 | 4.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 14 | 4.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 15 | 4.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 19 | 4.78 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 12 | 4.78 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 4.78 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 4.78 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 4.78 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 4.78 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 4.78 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 4.78 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 9 | 4.78 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 18 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 7 | 4.78 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 10 | 4.78 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 10 | 4.78 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 2 | 4.78 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 2 | 4.78 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 3 | 4.78 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 3 | 4.78 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 7 | 4.78 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 7 | 4.78 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 9 | 4.78 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 9 | 4.78 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 9 | 4.78 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 9 | 4.78 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 7 | 4.78 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 7 | 4.78 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 7 | 4.78 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 18 | 4.78 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 18 | 4.78 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 18 | 4.78 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 1 | 4.78 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 1 | 4.78 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 1 | 4.78 |
| (1,3796) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 19 | 4.78 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 5 | 4.78 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 5 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 4 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 4 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 4 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 4 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 7 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 7 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 7 | 4.78 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 7 | 4.78 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 14 | 4.78 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 15 | 4.78 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 15 | 4.78 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 15 | 4.78 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 15 | 4.78 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 2 | 4.78 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 12 | 4.78 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 12 | 4.78 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 6 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 12 | 4.78 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 13 | 4.78 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 13 | 4.78 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 8 | 4.78 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 10 | 4.78 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 10 | 4.78 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 2 | 4.78 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 2 | 4.78 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 10 | 4.78 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 1 | 4.78 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 1 | 4.78 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 1 | 4.78 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 19 | 4.78 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 19 | 4.78 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 19 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 8 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 8 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 8 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 16 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 16 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 16 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 19 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 19 | 4.78 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 19 | 4.78 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 7 | 4.78 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 7 | 4.78 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 7 | 4.78 |
| (1,2976) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 5 | 4.78 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 3 | 4.78 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 3 | 4.78 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 3 | 4.78 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 3 | 4.78 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 3 | 4.78 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 3 | 4.78 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 17 | 4.78 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 16 | 4.78 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 16 | 4.78 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 16 | 4.78 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 4 | 4.78 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 4 | 4.78 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 4 | 4.78 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 4 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 4 | 4.78 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 4 | 4.78 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 16 | 4.78 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 4 | 4.78 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 8 | 4.78 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 8 | 4.78 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 8 | 4.78 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 11 | 4.78 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 11 | 4.78 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 11 | 4.78 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 17 | 4.78 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 17 | 4.78 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 17 | 4.78 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 16 | 4.78 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 4 | 4.78 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 4 | 4.78 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 4 | 4.78 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 2 | 4.78 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 2 | 4.78 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 2 | 4.78 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 2 | 4.78 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 2 | 4.78 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 2 | 4.78 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 2 | 4.78 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 2 | 4.78 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 2 | 4.78 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 15 | 4.78 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 9 | 4.78 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 9 | 4.78 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 9 | 4.78 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 18 | 4.78 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 4.78 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 4.78 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 4.78 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 20 | 4.78 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 20 | 4.78 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 20 | 4.78 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 19 | 4.78 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 5 | 4.78 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 5 | 4.78 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 5 | 4.78 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 15 | 4.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 15 | 4.78 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 15 | 4.78 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 15 | 4.78 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 15 | 4.78 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 15 | 4.78 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 4 | 4.78 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 4 | 4.78 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 9 | 4.78 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 9 | 4.78 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 9 | 4.78 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 7 | 4.78 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 7 | 4.78 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 2 | 4.78 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 2 | 4.78 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 2 | 4.78 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 7 | 4.78 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 17 | 4.78 |
| (1,930) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 19 | 4.78 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 2 | 4.78 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 18 | 4.78 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 13 | 4.78 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 15 | 4.78 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 15 | 4.78 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 15 | 4.78 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 15 | 4.78 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 15 | 4.78 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 15 | 4.78 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 2 | 4.78 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 2 | 4.78 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 2 | 4.78 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 8 | 4.78 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 8 | 4.78 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 8 | 4.78 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 9 | 4.77 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 7 | 4.77 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 15 | 4.77 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 15 | 4.77 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 12 | 4.77 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 12 | 4.77 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 4 | 4.77 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 4 | 4.77 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 11 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 11 | 4.77 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 13 | 4.77 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 13 | 4.77 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 13 | 4.77 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 13 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 7 | 4.77 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 7 | 4.77 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 10 | 4.77 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 10 | 4.77 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 12 | 4.77 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 12 | 4.77 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 18 | 4.77 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 18 | 4.77 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 18 | 4.77 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 18 | 4.77 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 18 | 4.77 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 18 | 4.77 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 4.77 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 4.77 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 2 | 4.77 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 2 | 4.77 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 2 | 4.77 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 2 | 4.77 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 7 | 4.77 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 7 | 4.77 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 7 | 4.77 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 7 | 4.77 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 7 | 4.77 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 7 | 4.77 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 16 | 4.77 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 16 | 4.77 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 16 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 16 | 4.77 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 16 | 4.77 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 16 | 4.77 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 5 | 4.77 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 5 | 4.77 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 4 | 4.77 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 4 | 4.77 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 1 | 4.77 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 1 | 4.77 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 4 | 4.77 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 4 | 4.77 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 16 | 4.77 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 16 | 4.77 |
| (1,9069) | 1:83:A:GLU:HB2 | 1:86:A:LEU:H | 2 | 4.77 |
| (1,9069) | 1:83:A:GLU:HB3 | 1:86:A:LEU:H | 2 | 4.77 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 15 | 4.77 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 15 | 4.77 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 20 | 4.77 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 20 | 4.77 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 6 | 4.77 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 6 | 4.77 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 3 | 4.77 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 3 | 4.77 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 7 | 4.77 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 7 | 4.77 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 7 | 4.77 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 7 | 4.77 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 7 | 4.77 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 7 | 4.77 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 16 | 4.77 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 16 | 4.77 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 16 | 4.77 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 16 | 4.77 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 19 | 4.77 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 19 | 4.77 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 19 | 4.77 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 19 | 4.77 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 15 | 4.77 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 15 | 4.77 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 2 | 4.77 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 2 | 4.77 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 11 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 11 | 4.77 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 4 | 4.77 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 4 | 4.77 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 4 | 4.77 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 4 | 4.77 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 4 | 4.77 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 4 | 4.77 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 2 | 4.77 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 2 | 4.77 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 17 | 4.77 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 17 | 4.77 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 9 | 4.77 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 9 | 4.77 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 9 | 4.77 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 9 | 4.77 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 9 | 4.77 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 9 | 4.77 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 9 | 4.77 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 9 | 4.77 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 9 | 4.77 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 6 | 4.77 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 13 | 4.77 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 13 | 4.77 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 13 | 4.77 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 19 | 4.77 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 10 | 4.77 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 2 | 4.77 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 2 | 4.77 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 4 | 4.77 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 4 | 4.77 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 4 | 4.77 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 6 | 4.77 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 6 | 4.77 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 6 | 4.77 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 14 | 4.77 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 3 | 4.77 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 3 | 4.77 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 3 | 4.77 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 10 | 4.77 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 10 | 4.77 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 10 | 4.77 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 6 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 6 | 4.77 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 6 | 4.77 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 9 | 4.77 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 2 | 4.77 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 10 | 4.77 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 10 | 4.77 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 10 | 4.77 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 5 | 4.77 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 12 | 4.77 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 12 | 4.77 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 15 | 4.77 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 10 | 4.77 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 11 | 4.77 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 7 | 4.77 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 4.77 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 4.77 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 15 | 4.77 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 15 | 4.77 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 11 | 4.77 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 11 | 4.77 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 9 | 4.77 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 1 | 4.77 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 1 | 4.77 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 1 | 4.77 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 6 | 4.77 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 6 | 4.77 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 6 | 4.77 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 1 | 4.77 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 1 | 4.77 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 1 | 4.77 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 13 | 4.77 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 13 | 4.77 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 13 | 4.77 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 12 | 4.77 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 12 | 4.77 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 12 | 4.77 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 4 | 4.77 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 7 | 4.77 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 7 | 4.77 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 16 | 4.77 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 16 | 4.77 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 16 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 16 | 4.77 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 16 | 4.77 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 16 | 4.77 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 16 | 4.77 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 16 | 4.77 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 16 | 4.77 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 10 | 4.77 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 10 | 4.77 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 10 | 4.77 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 6 | 4.77 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 8 | 4.77 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 8 | 4.77 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 8 | 4.77 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 15 | 4.77 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 15 | 4.77 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 15 | 4.77 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 10 | 4.77 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 10 | 4.77 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 10 | 4.77 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 6 | 4.77 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 12 | 4.77 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 16 | 4.77 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 15 | 4.77 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 14 | 4.77 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 16 | 4.77 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 17 | 4.77 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 17 | 4.77 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 17 | 4.77 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 17 | 4.77 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 17 | 4.77 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 17 | 4.77 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 11 | 4.77 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 10 | 4.77 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 17 | 4.77 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 17 | 4.77 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 17 | 4.77 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 18 | 4.77 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 18 | 4.77 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 18 | 4.77 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 7 | 4.77 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 11 | 4.77 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 12 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 5 | 4.77 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 5 | 4.77 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 5 | 4.77 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 17 | 4.77 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 17 | 4.77 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 17 | 4.77 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 3 | 4.77 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 3 | 4.77 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 3 | 4.77 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 3 | 4.77 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 3 | 4.77 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 3 | 4.77 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 17 | 4.77 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 10 | 4.77 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 12 | 4.77 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 12 | 4.77 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 12 | 4.77 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 15 | 4.77 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 15 | 4.77 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 8 | 4.77 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 8 | 4.77 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 8 | 4.77 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 12 | 4.77 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 12 | 4.77 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 20 | 4.77 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 2 | 4.77 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 3 | 4.77 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 3 | 4.77 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 15 | 4.77 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 15 | 4.77 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 13 | 4.77 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 13 | 4.77 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 18 | 4.77 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 8 | 4.77 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 8 | 4.77 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 8 | 4.77 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 18 | 4.77 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 18 | 4.77 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 18 | 4.77 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 17 | 4.77 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 17 | 4.77 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 17 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 17 | 4.77 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 17 | 4.77 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 17 | 4.77 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 20 | 4.77 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 20 | 4.77 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 20 | 4.77 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 14 | 4.77 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 6 | 4.77 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 6 | 4.77 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 6 | 4.77 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 6 | 4.77 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 6 | 4.77 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 6 | 4.77 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 6 | 4.77 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 18 | 4.77 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 18 | 4.77 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 5 | 4.77 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 9 | 4.77 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 18 | 4.77 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 18 | 4.77 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 18 | 4.77 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 3 | 4.77 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 16 | 4.77 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 16 | 4.77 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 16 | 4.77 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 8 | 4.77 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 8 | 4.77 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 2 | 4.77 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 14 | 4.77 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 14 | 4.77 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 14 | 4.77 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 8 | 4.77 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 5 | 4.77 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 5 | 4.77 |
| (1,5446) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 5 | 4.77 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 1 | 4.77 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 1 | 4.77 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 1 | 4.77 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 3 | 4.77 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 3 | 4.77 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 3 | 4.77 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 3 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 3 | 4.77 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 3 | 4.77 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 14 | 4.77 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 14 | 4.77 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 14 | 4.77 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 19 | 4.77 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 14 | 4.77 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 14 | 4.77 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 14 | 4.77 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 17 | 4.77 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 17 | 4.77 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 17 | 4.77 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 7 | 4.77 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 7 | 4.77 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 7 | 4.77 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 7 | 4.77 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 7 | 4.77 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 7 | 4.77 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 7 | 4.77 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 7 | 4.77 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 7 | 4.77 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 12 | 4.77 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 12 | 4.77 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 12 | 4.77 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 12 | 4.77 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 12 | 4.77 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 12 | 4.77 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 12 | 4.77 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 12 | 4.77 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 12 | 4.77 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 4.77 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 4.77 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 4.77 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 15 | 4.77 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 4 | 4.77 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 4 | 4.77 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 4 | 4.77 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 4 | 4.77 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 4 | 4.77 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 4 | 4.77 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 4 | 4.77 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 4 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 4 | 4.77 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 18 | 4.77 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 17 | 4.77 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 18 | 4.77 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 9 | 4.77 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 9 | 4.77 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 9 | 4.77 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 17 | 4.77 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 6 | 4.77 |
| (1,4594) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 18 | 4.77 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 15 | 4.77 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 15 | 4.77 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 4 | 4.77 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 4 | 4.77 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 13 | 4.77 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 13 | 4.77 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 10 | 4.77 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 10 | 4.77 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 10 | 4.77 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 10 | 4.77 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 4 | 4.77 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 4 | 4.77 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 4 | 4.77 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 4 | 4.77 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 4 | 4.77 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 4 | 4.77 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 18 | 4.77 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 16 | 4.77 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 16 | 4.77 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 16 | 4.77 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 16 | 4.77 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 4.77 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 4.77 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 2 | 4.77 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 2 | 4.77 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 2 | 4.77 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 2 | 4.77 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 9 | 4.77 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 9 | 4.77 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 18 | 4.77 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 18 | 4.77 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 18 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 7 | 4.77 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 7 | 4.77 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 7 | 4.77 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 7 | 4.77 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 7 | 4.77 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 7 | 4.77 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 16 | 4.77 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 16 | 4.77 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 16 | 4.77 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 16 | 4.77 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 16 | 4.77 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 16 | 4.77 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 10 | 4.77 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 4 | 4.77 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 4 | 4.77 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 9 | 4.77 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 1 | 4.77 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 1 | 4.77 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 1 | 4.77 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 17 | 4.77 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 17 | 4.77 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 17 | 4.77 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 3 | 4.77 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 15 | 4.77 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 15 | 4.77 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 17 | 4.77 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 7 | 4.77 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 7 | 4.77 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 7 | 4.77 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 16 | 4.77 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 16 | 4.77 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 16 | 4.77 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 6 | 4.77 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 6 | 4.77 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 14 | 4.77 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 15 | 4.77 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 15 | 4.77 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 18 | 4.77 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 18 | 4.77 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 8 | 4.77 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 8 | 4.77 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 12 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 18 | 4.77 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 6 | 4.77 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 10 | 4.77 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 5 | 4.77 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 5 | 4.77 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 5 | 4.77 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 5 | 4.77 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 6 | 4.77 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 6 | 4.77 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 6 | 4.77 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 6 | 4.77 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 4 | 4.77 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 4 | 4.77 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 4 | 4.77 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 4 | 4.77 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 4 | 4.77 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 4 | 4.77 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 12 | 4.77 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 12 | 4.77 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 15 | 4.77 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 15 | 4.77 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 15 | 4.77 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 12 | 4.77 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 12 | 4.77 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 12 | 4.77 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 1 | 4.77 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 1 | 4.77 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 15 | 4.77 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 15 | 4.77 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 8 | 4.77 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 8 | 4.77 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 8 | 4.77 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 12 | 4.77 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 12 | 4.77 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 20 | 4.77 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 2 | 4.77 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 2 | 4.77 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 3 | 4.77 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 3 | 4.77 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 15 | 4.77 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 15 | 4.77 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 13 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 13 | 4.77 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 7 | 4.77 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 7 | 4.77 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 14 | 4.77 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 1 | 4.77 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 8 | 4.77 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 8 | 4.77 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 8 | 4.77 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 17 | 4.77 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 17 | 4.77 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 17 | 4.77 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 18 | 4.77 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 18 | 4.77 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 18 | 4.77 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 17 | 4.77 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 17 | 4.77 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 17 | 4.77 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 17 | 4.77 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 17 | 4.77 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 17 | 4.77 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 18 | 4.77 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 18 | 4.77 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 18 | 4.77 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 20 | 4.77 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 20 | 4.77 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 20 | 4.77 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 14 | 4.77 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 6 | 4.77 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 6 | 4.77 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 6 | 4.77 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 6 | 4.77 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 6 | 4.77 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 6 | 4.77 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 18 | 4.77 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 18 | 4.77 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 9 | 4.77 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 18 | 4.77 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 18 | 4.77 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 18 | 4.77 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 3 | 4.77 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 1 | 4.77 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 15 | 4.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 19 | 4.77 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 16 | 4.77 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 16 | 4.77 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 16 | 4.77 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 8 | 4.77 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 8 | 4.77 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 2 | 4.77 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 14 | 4.77 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 14 | 4.77 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 14 | 4.77 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 8 | 4.77 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 17 | 4.77 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 5 | 4.77 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 5 | 4.77 |
| (1,540) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 5 | 4.77 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 12 | 4.77 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 12 | 4.77 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 12 | 4.77 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 12 | 4.77 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 12 | 4.77 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 12 | 4.77 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 16 | 4.77 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 16 | 4.77 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 16 | 4.77 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 17 | 4.77 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 8 | 4.76 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 13 | 4.76 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 14 | 4.76 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 4 | 4.76 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 4 | 4.76 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 15 | 4.76 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 15 | 4.76 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 12 | 4.76 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 12 | 4.76 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 6 | 4.76 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 6 | 4.76 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 1 | 4.76 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 1 | 4.76 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 12 | 4.76 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 12 | 4.76 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 12 | 4.76 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 12 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 12 | 4.76 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 12 | 4.76 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 4 | 4.76 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 4 | 4.76 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 3 | 4.76 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 3 | 4.76 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 15 | 4.76 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 15 | 4.76 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 15 | 4.76 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 15 | 4.76 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 14 | 4.76 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 14 | 4.76 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 17 | 4.76 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 17 | 4.76 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 9 | 4.76 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 9 | 4.76 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 7 | 4.76 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 7 | 4.76 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 7 | 4.76 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 7 | 4.76 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 4.76 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 4.76 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 4.76 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 4.76 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 5 | 4.76 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 5 | 4.76 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 5 | 4.76 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 5 | 4.76 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 5 | 4.76 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 5 | 4.76 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 16 | 4.76 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 16 | 4.76 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 16 | 4.76 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 16 | 4.76 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 16 | 4.76 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 16 | 4.76 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 17 | 4.76 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 17 | 4.76 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 17 | 4.76 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 17 | 4.76 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 17 | 4.76 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 17 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 2 | 4.76 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 2 | 4.76 |
| (1,9116) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 18 | 4.76 |
| (1,9116) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 18 | 4.76 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 2 | 4.76 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 2 | 4.76 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 2 | 4.76 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 2 | 4.76 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 2 | 4.76 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 2 | 4.76 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 11 | 4.76 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 11 | 4.76 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 19 | 4.76 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 19 | 4.76 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 16 | 4.76 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 16 | 4.76 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 16 | 4.76 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 16 | 4.76 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 16 | 4.76 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 16 | 4.76 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 15 | 4.76 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 15 | 4.76 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 9 | 4.76 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 9 | 4.76 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 18 | 4.76 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 18 | 4.76 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 18 | 4.76 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 18 | 4.76 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 13 | 4.76 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 13 | 4.76 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 4 | 4.76 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 4 | 4.76 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 10 | 4.76 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 10 | 4.76 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 14 | 4.76 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 14 | 4.76 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 2 | 4.76 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 2 | 4.76 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 2 | 4.76 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 2 | 4.76 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 2 | 4.76 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 2 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 8 | 4.76 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 8 | 4.76 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 6 | 4.76 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 6 | 4.76 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 20 | 4.76 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 20 | 4.76 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 9 | 4.76 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 9 | 4.76 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 12 | 4.76 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 12 | 4.76 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 9 | 4.76 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 9 | 4.76 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 19 | 4.76 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 19 | 4.76 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 12 | 4.76 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 1 | 4.76 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 14 | 4.76 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 12 | 4.76 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 12 | 4.76 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 12 | 4.76 |
| (1,8415) | 1:142:A:ARG:HD2 | 1:145:A:GLU:HB2 | 14 | 4.76 |
| (1,8415) | 1:142:A:ARG:HD3 | 1:145:A:GLU:HB2 | 14 | 4.76 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 3 | 4.76 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 3 | 4.76 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 19 | 4.76 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 19 | 4.76 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 19 | 4.76 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 4 | 4.76 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 13 | 4.76 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 6 | 4.76 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 1 | 4.76 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 13 | 4.76 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 13 | 4.76 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 13 | 4.76 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 4 | 4.76 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 9 | 4.76 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 9 | 4.76 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 8 | 4.76 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 8 | 4.76 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 8 | 4.76 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 8 | 4.76 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 8 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 8 | 4.76 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 8 | 4.76 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 8 | 4.76 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 8 | 4.76 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 20 | 4.76 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 20 | 4.76 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 20 | 4.76 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 6 | 4.76 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 6 | 4.76 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 11 | 4.76 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 11 | 4.76 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 14 | 4.76 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 14 | 4.76 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 14 | 4.76 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 14 | 4.76 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 14 | 4.76 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 14 | 4.76 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 14 | 4.76 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 14 | 4.76 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 14 | 4.76 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 2 | 4.76 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 2 | 4.76 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 8 | 4.76 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 11 | 4.76 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 11 | 4.76 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 11 | 4.76 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 11 | 4.76 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 11 | 4.76 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 11 | 4.76 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 11 | 4.76 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 11 | 4.76 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 11 | 4.76 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 6 | 4.76 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 6 | 4.76 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 6 | 4.76 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 4 | 4.76 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 1 | 4.76 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 1 | 4.76 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 3 | 4.76 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 3 | 4.76 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 3 | 4.76 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 5 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 15 | 4.76 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 7 | 4.76 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 3 | 4.76 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 4 | 4.76 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 20 | 4.76 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 15 | 4.76 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 15 | 4.76 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 3 | 4.76 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 13 | 4.76 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 14 | 4.76 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 11 | 4.76 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 8 | 4.76 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 8 | 4.76 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 8 | 4.76 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 1 | 4.76 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 5 | 4.76 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 19 | 4.76 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 2 | 4.76 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 15 | 4.76 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 15 | 4.76 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 15 | 4.76 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 19 | 4.76 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 19 | 4.76 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 19 | 4.76 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 5 | 4.76 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 5 | 4.76 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 5 | 4.76 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 5 | 4.76 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 5 | 4.76 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 5 | 4.76 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 10 | 4.76 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 10 | 4.76 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 10 | 4.76 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 4 | 4.76 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 4 | 4.76 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 4 | 4.76 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 2 | 4.76 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 2 | 4.76 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 2 | 4.76 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 6 | 4.76 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 6 | 4.76 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 6 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 4 | 4.76 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 4 | 4.76 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 4 | 4.76 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 13 | 4.76 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 13 | 4.76 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 13 | 4.76 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 10 | 4.76 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 10 | 4.76 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 10 | 4.76 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 17 | 4.76 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 11 | 4.76 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 11 | 4.76 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 11 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 7 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 7 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 7 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 7 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 7 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 7 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 11 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 11 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 11 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 11 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 11 | 4.76 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 11 | 4.76 |
| (1,6787) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 16 | 4.76 |
| (1,6787) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 16 | 4.76 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 13 | 4.76 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 2 | 4.76 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 2 | 4.76 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 2 | 4.76 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 16 | 4.76 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 16 | 4.76 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 16 | 4.76 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 12 | 4.76 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 12 | 4.76 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 15 | 4.76 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 1 | 4.76 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 7 | 4.76 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 4.76 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 14 | 4.76 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 14 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 14 | 4.76 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 19 | 4.76 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 14 | 4.76 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 14 | 4.76 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 14 | 4.76 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 3 | 4.76 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 11 | 4.76 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 11 | 4.76 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 11 | 4.76 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 11 | 4.76 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 11 | 4.76 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 11 | 4.76 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 18 | 4.76 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 7 | 4.76 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 7 | 4.76 |
| (1,5944) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 7 | 4.76 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 8 | 4.76 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 8 | 4.76 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 8 | 4.76 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 19 | 4.76 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 19 | 4.76 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 19 | 4.76 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 4 | 4.76 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 13 | 4.76 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 14 | 4.76 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 14 | 4.76 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 14 | 4.76 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 10 | 4.76 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 11 | 4.76 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 18 | 4.76 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 14 | 4.76 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 14 | 4.76 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 14 | 4.76 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 17 | 4.76 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 17 | 4.76 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 17 | 4.76 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 18 | 4.76 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 16 | 4.76 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 16 | 4.76 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 16 | 4.76 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 9 | 4.76 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 9 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 9 | 4.76 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 8 | 4.76 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 8 | 4.76 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 8 | 4.76 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 15 | 4.76 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 9 | 4.76 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 7 | 4.76 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 7 | 4.76 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 7 | 4.76 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 8 | 4.76 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 4 | 4.76 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 2 | 4.76 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 2 | 4.76 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 7 | 4.76 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 7 | 4.76 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 7 | 4.76 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 5 | 4.76 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 5 | 4.76 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 5 | 4.76 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 5 | 4.76 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 5 | 4.76 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 5 | 4.76 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 5 | 4.76 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 5 | 4.76 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 5 | 4.76 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 15 | 4.76 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 15 | 4.76 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 15 | 4.76 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 20 | 4.76 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 19 | 4.76 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 2 | 4.76 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 2 | 4.76 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 2 | 4.76 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 2 | 4.76 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 19 | 4.76 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 19 | 4.76 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 19 | 4.76 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 5 | 4.76 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 5 | 4.76 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 6 | 4.76 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 6 | 4.76 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 8 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 2 | 4.76 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 8 | 4.76 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 16 | 4.76 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 16 | 4.76 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 16 | 4.76 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 12 | 4.76 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 12 | 4.76 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 12 | 4.76 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 12 | 4.76 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 12 | 4.76 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 12 | 4.76 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 7 | 4.76 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 12 | 4.76 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 12 | 4.76 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 3 | 4.76 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 3 | 4.76 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 9 | 4.76 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 9 | 4.76 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 16 | 4.76 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 16 | 4.76 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 16 | 4.76 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 4.76 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 4.76 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 4.76 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 4.76 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 5 | 4.76 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 5 | 4.76 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 5 | 4.76 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 5 | 4.76 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 5 | 4.76 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 5 | 4.76 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 16 | 4.76 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 16 | 4.76 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 16 | 4.76 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 16 | 4.76 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 16 | 4.76 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 16 | 4.76 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 17 | 4.76 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 17 | 4.76 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 17 | 4.76 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 17 | 4.76 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 17 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 17 | 4.76 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 10 | 4.76 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 10 | 4.76 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 10 | 4.76 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 4.76 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 4.76 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 4.76 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 1 | 4.76 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 1 | 4.76 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 1 | 4.76 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 13 | 4.76 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 13 | 4.76 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 13 | 4.76 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 11 | 4.76 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 11 | 4.76 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 9 | 4.76 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 6 | 4.76 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 6 | 4.76 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 6 | 4.76 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 6 | 4.76 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 6 | 4.76 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 6 | 4.76 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 5 | 4.76 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 19 | 4.76 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 19 | 4.76 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 4 | 4.76 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 4 | 4.76 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 5 | 4.76 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 5 | 4.76 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 4 | 4.76 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 4.76 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 18 | 4.76 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 11 | 4.76 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 11 | 4.76 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 16 | 4.76 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 16 | 4.76 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 1 | 4.76 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 5 | 4.76 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 5 | 4.76 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 5 | 4.76 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 5 | 4.76 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 5 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 5 | 4.76 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 10 | 4.76 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 10 | 4.76 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 10 | 4.76 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 4 | 4.76 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 4 | 4.76 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 4 | 4.76 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 2 | 4.76 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 2 | 4.76 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 2 | 4.76 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 6 | 4.76 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 6 | 4.76 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 6 | 4.76 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 4 | 4.76 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 4 | 4.76 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 4 | 4.76 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 13 | 4.76 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 13 | 4.76 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 13 | 4.76 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 10 | 4.76 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 10 | 4.76 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 10 | 4.76 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 17 | 4.76 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 11 | 4.76 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 11 | 4.76 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 11 | 4.76 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 11 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 7 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 7 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 7 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 7 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 7 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 7 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 11 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 11 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 11 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 11 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 11 | 4.76 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 11 | 4.76 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 12 | 4.76 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 12 | 4.76 |
| (1,2750) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 16 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2750) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 16 | 4.76 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 13 | 4.76 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 15 | 4.76 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 15 | 4.76 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 9 | 4.76 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 9 | 4.76 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 18 | 4.76 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 18 | 4.76 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 2 | 4.76 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 2 | 4.76 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 2 | 4.76 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 16 | 4.76 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 16 | 4.76 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 16 | 4.76 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 17 | 4.76 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 17 | 4.76 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 17 | 4.76 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 19 | 4.76 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 19 | 4.76 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 19 | 4.76 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 9 | 4.76 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 9 | 4.76 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 9 | 4.76 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 12 | 4.76 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 12 | 4.76 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 15 | 4.76 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 7 | 4.76 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 4.76 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 12 | 4.76 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 12 | 4.76 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 12 | 4.76 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 4 | 4.76 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 4 | 4.76 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 4 | 4.76 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 14 | 4.76 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 14 | 4.76 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 14 | 4.76 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 19 | 4.76 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 4 | 4.76 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 4 | 4.76 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 4 | 4.76 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 14 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 14 | 4.76 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 14 | 4.76 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 2 | 4.76 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 2 | 4.76 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 2 | 4.76 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 3 | 4.76 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 11 | 4.76 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 11 | 4.76 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 11 | 4.76 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 11 | 4.76 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 11 | 4.76 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 11 | 4.76 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 15 | 4.76 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 16 | 4.76 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 16 | 4.76 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 16 | 4.76 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 18 | 4.76 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 7 | 4.76 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 7 | 4.76 |
| (1,1372) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 7 | 4.76 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 8 | 4.76 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 8 | 4.76 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 8 | 4.76 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 19 | 4.76 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 19 | 4.76 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 19 | 4.76 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 9 | 4.76 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 4 | 4.76 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 13 | 4.76 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 14 | 4.76 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 14 | 4.76 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 14 | 4.76 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 10 | 4.76 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 11 | 4.76 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 18 | 4.76 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 14 | 4.76 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 14 | 4.76 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 14 | 4.76 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 17 | 4.76 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 17 | 4.76 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 17 | 4.76 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 18 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 9 | 4.76 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 12 | 4.76 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 12 | 4.76 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 12 | 4.76 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 7 | 4.76 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 19 | 4.75 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 19 | 4.75 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 12 | 4.75 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 7 | 4.75 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 7 | 4.75 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 9 | 4.75 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 9 | 4.75 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 18 | 4.75 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 18 | 4.75 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 2 | 4.75 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 2 | 4.75 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 16 | 4.75 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 16 | 4.75 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 12 | 4.75 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 12 | 4.75 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 12 | 4.75 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 12 | 4.75 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 12 | 4.75 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 12 | 4.75 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 10 | 4.75 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 10 | 4.75 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 10 | 4.75 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 10 | 4.75 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 4 | 4.75 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 4 | 4.75 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 11 | 4.75 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 11 | 4.75 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 11 | 4.75 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 11 | 4.75 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 11 | 4.75 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 11 | 4.75 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 15 | 4.75 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 15 | 4.75 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 7 | 4.75 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 7 | 4.75 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 14 | 4.75 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 14 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 14 | 4.75 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 14 | 4.75 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 14 | 4.75 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 14 | 4.75 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 14 | 4.75 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 14 | 4.75 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 6 | 4.75 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 6 | 4.75 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 6 | 4.75 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 6 | 4.75 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 10 | 4.75 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 10 | 4.75 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 2 | 4.75 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 2 | 4.75 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 6 | 4.75 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 6 | 4.75 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 6 | 4.75 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 6 | 4.75 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 10 | 4.75 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 10 | 4.75 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 1 | 4.75 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 1 | 4.75 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 18 | 4.75 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 18 | 4.75 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 14 | 4.75 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 14 | 4.75 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 10 | 4.75 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 10 | 4.75 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 5 | 4.75 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 5 | 4.75 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 15 | 4.75 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 15 | 4.75 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 13 | 4.75 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 13 | 4.75 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 8 | 4.75 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 8 | 4.75 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 8 | 4.75 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 8 | 4.75 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 8 | 4.75 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 8 | 4.75 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 5 | 4.75 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 5 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 5 | 4.75 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 5 | 4.75 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 5 | 4.75 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 5 | 4.75 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 11 | 4.75 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 11 | 4.75 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 4 | 4.75 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 4 | 4.75 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 4 | 4.75 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 4 | 4.75 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 4 | 4.75 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 4 | 4.75 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 4.75 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 4.75 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 14 | 4.75 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 14 | 4.75 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 5 | 4.75 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 5 | 4.75 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 5 | 4.75 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 5 | 4.75 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 10 | 4.75 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 10 | 4.75 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 7 | 4.75 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 7 | 4.75 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 7 | 4.75 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 7 | 4.75 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 5 | 4.75 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 9 | 4.75 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 3 | 4.75 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 3 | 4.75 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 7 | 4.75 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 3 | 4.75 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 3 | 4.75 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 3 | 4.75 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 17 | 4.75 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 17 | 4.75 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 17 | 4.75 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 7 | 4.75 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 11 | 4.75 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 11 | 4.75 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 19 | 4.75 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 19 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 11 | 4.75 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 11 | 4.75 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 11 | 4.75 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 11 | 4.75 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 11 | 4.75 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 11 | 4.75 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 2 | 4.75 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 2 | 4.75 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 16 | 4.75 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 16 | 4.75 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 16 | 4.75 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 7 | 4.75 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 7 | 4.75 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 16 | 4.75 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 16 | 4.75 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 16 | 4.75 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 16 | 4.75 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 16 | 4.75 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 16 | 4.75 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 16 | 4.75 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 16 | 4.75 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 16 | 4.75 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 14 | 4.75 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 14 | 4.75 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 14 | 4.75 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 7 | 4.75 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 7 | 4.75 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 19 | 4.75 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 19 | 4.75 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 11 | 4.75 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 11 | 4.75 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 11 | 4.75 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 11 | 4.75 |
| (1,8082) | 1:91:A:GLY:H | 1:94:A:GLN:H | 2 | 4.75 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 16 | 4.75 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 16 | 4.75 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 16 | 4.75 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 2 | 4.75 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 2 | 4.75 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 2 | 4.75 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 16 | 4.75 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 16 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 16 | 4.75 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 7 | 4.75 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 20 | 4.75 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 20 | 4.75 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 7 | 4.75 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 10 | 4.75 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 5 | 4.75 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 2 | 4.75 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 20 | 4.75 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 20 | 4.75 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 20 | 4.75 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 20 | 4.75 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 20 | 4.75 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 20 | 4.75 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 8 | 4.75 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 8 | 4.75 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 8 | 4.75 |
| (1,7845) | 1:61:A:LEU:H | 1:157:A:HIS:H | 4 | 4.75 |
| (1,7834) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 12 | 4.75 |
| (1,7834) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 12 | 4.75 |
| (1,7834) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 12 | 4.75 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 7 | 4.75 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 12 | 4.75 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 12 | 4.75 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 12 | 4.75 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 7 | 4.75 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 6 | 4.75 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 6 | 4.75 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 14 | 4.75 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 14 | 4.75 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 14 | 4.75 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 15 | 4.75 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 15 | 4.75 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 15 | 4.75 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 4 | 4.75 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 4 | 4.75 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 4 | 4.75 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 17 | 4.75 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 17 | 4.75 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 17 | 4.75 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 8 | 4.75 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 16 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 16 | 4.75 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 16 | 4.75 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 16 | 4.75 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 18 | 4.75 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 5 | 4.75 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 16 | 4.75 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 16 | 4.75 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 8 | 4.75 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 8 | 4.75 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 13 | 4.75 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 1 | 4.75 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 6 | 4.75 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 6 | 4.75 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 6 | 4.75 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 10 | 4.75 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 16 | 4.75 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 20 | 4.75 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 12 | 4.75 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 12 | 4.75 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 12 | 4.75 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 12 | 4.75 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 12 | 4.75 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 12 | 4.75 |
| (1,7411) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB2 | 14 | 4.75 |
| (1,7411) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB2 | 14 | 4.75 |
| (1,7411) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB2 | 14 | 4.75 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 10 | 4.75 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 15 | 4.75 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 15 | 4.75 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 15 | 4.75 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 15 | 4.75 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 11 | 4.75 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 11 | 4.75 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 11 | 4.75 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 18 | 4.75 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 18 | 4.75 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 18 | 4.75 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 18 | 4.75 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 18 | 4.75 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 18 | 4.75 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 18 | 4.75 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 18 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 18 | 4.75 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 6 | 4.75 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 12 | 4.75 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 12 | 4.75 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 12 | 4.75 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 11 | 4.75 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 11 | 4.75 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 11 | 4.75 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 17 | 4.75 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 13 | 4.75 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 14 | 4.75 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 5 | 4.75 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 17 | 4.75 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 8 | 4.75 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 18 | 4.75 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 18 | 4.75 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 18 | 4.75 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 18 | 4.75 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 18 | 4.75 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 18 | 4.75 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 18 | 4.75 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 18 | 4.75 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 18 | 4.75 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 6 | 4.75 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 6 | 4.75 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 6 | 4.75 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 6 | 4.75 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 6 | 4.75 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 6 | 4.75 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 6 | 4.75 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 6 | 4.75 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 6 | 4.75 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 17 | 4.75 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 17 | 4.75 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 17 | 4.75 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 11 | 4.75 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 17 | 4.75 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 13 | 4.75 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 4 | 4.75 |
| (1,5999) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 3 | 4.75 |
| (1,5999) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 3 | 4.75 |
| (1,5999) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 3 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 20 | 4.75 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 20 | 4.75 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 20 | 4.75 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 8 | 4.75 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 8 | 4.75 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 8 | 4.75 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 19 | 4.75 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 19 | 4.75 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 19 | 4.75 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 2 | 4.75 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 15 | 4.75 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 9 | 4.75 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 7 | 4.75 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 7 | 4.75 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 7 | 4.75 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 15 | 4.75 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 15 | 4.75 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 15 | 4.75 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 9 | 4.75 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 9 | 4.75 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 9 | 4.75 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 12 | 4.75 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 12 | 4.75 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 20 | 4.75 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 20 | 4.75 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 20 | 4.75 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 20 | 4.75 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 4 | 4.75 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 4 | 4.75 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 4 | 4.75 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 11 | 4.75 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 11 | 4.75 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 11 | 4.75 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 2 | 4.75 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 2 | 4.75 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 2 | 4.75 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 8 | 4.75 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 8 | 4.75 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 8 | 4.75 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 1 | 4.75 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 19 | 4.75 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 17 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 18 | 4.75 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 2 | 4.75 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 2 | 4.75 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 13 | 4.75 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 8 | 4.75 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 8 | 4.75 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 8 | 4.75 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 12 | 4.75 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 12 | 4.75 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 12 | 4.75 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 12 | 4.75 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 12 | 4.75 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 12 | 4.75 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 12 | 4.75 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 12 | 4.75 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 12 | 4.75 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 14 | 4.75 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 14 | 4.75 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 1 | 4.75 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 14 | 4.75 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 13 | 4.75 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 13 | 4.75 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 13 | 4.75 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 18 | 4.75 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 18 | 4.75 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 18 | 4.75 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 11 | 4.75 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 11 | 4.75 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 11 | 4.75 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 16 | 4.75 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 16 | 4.75 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 13 | 4.75 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 13 | 4.75 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 13 | 4.75 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 6 | 4.75 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 4 | 4.75 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 4 | 4.75 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 4 | 4.75 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 14 | 4.75 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 14 | 4.75 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 14 | 4.75 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 14 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 14 | 4.75 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 14 | 4.75 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 8 | 4.75 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 8 | 4.75 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 11 | 4.75 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 11 | 4.75 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 14 | 4.75 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 14 | 4.75 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 14 | 4.75 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 14 | 4.75 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 9 | 4.75 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 11 | 4.75 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 11 | 4.75 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 11 | 4.75 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 11 | 4.75 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 11 | 4.75 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 11 | 4.75 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 13 | 4.75 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 15 | 4.75 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 14 | 4.75 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 14 | 4.75 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 14 | 4.75 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 14 | 4.75 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 2 | 4.75 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 2 | 4.75 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 7 | 4.75 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 7 | 4.75 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 7 | 4.75 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 10 | 4.75 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 10 | 4.75 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 10 | 4.75 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 9 | 4.75 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 9 | 4.75 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 9 | 4.75 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 10 | 4.75 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 19 | 4.75 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 1 | 4.75 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 1 | 4.75 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 15 | 4.75 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 3 | 4.75 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 16 | 4.75 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 16 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 16 | 4.75 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 10 | 4.75 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 8 | 4.75 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 8 | 4.75 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 8 | 4.75 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 8 | 4.75 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 8 | 4.75 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 8 | 4.75 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 11 | 4.75 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 11 | 4.75 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 4 | 4.75 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 4 | 4.75 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 4 | 4.75 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 4 | 4.75 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 4 | 4.75 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 4 | 4.75 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 4.75 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 4.75 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 13 | 4.75 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 13 | 4.75 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 11 | 4.75 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 2 | 4.75 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 2 | 4.75 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 2 | 4.75 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 12 | 4.75 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 12 | 4.75 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 12 | 4.75 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 5 | 4.75 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 5 | 4.75 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 13 | 4.75 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 7 | 4.75 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 7 | 4.75 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 3 | 4.75 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 3 | 4.75 |
| (1,3426) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 3 | 4.75 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 11 | 4.75 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 11 | 4.75 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 11 | 4.75 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 18 | 4.75 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 18 | 4.75 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 18 | 4.75 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 18 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 18 | 4.75 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 18 | 4.75 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 18 | 4.75 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 18 | 4.75 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 18 | 4.75 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 6 | 4.75 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 1 | 4.75 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 12 | 4.75 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 12 | 4.75 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 12 | 4.75 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 7 | 4.75 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 7 | 4.75 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 7 | 4.75 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 11 | 4.75 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 11 | 4.75 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 11 | 4.75 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 17 | 4.75 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 13 | 4.75 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 13 | 4.75 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 13 | 4.75 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 13 | 4.75 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 14 | 4.75 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 1 | 4.75 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 1 | 4.75 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 1 | 4.75 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 5 | 4.75 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 4 | 4.75 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 17 | 4.75 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 8 | 4.75 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 7 | 4.75 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 7 | 4.75 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 7 | 4.75 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 4 | 4.75 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 12 | 4.75 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 13 | 4.75 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 13 | 4.75 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 13 | 4.75 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 18 | 4.75 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 18 | 4.75 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 18 | 4.75 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 18 | 4.75 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 18 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 18 | 4.75 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 18 | 4.75 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 18 | 4.75 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 18 | 4.75 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 5 | 4.75 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 5 | 4.75 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 5 | 4.75 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 6 | 4.75 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 6 | 4.75 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 6 | 4.75 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 6 | 4.75 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 6 | 4.75 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 6 | 4.75 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 6 | 4.75 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 6 | 4.75 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 6 | 4.75 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 17 | 4.75 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 17 | 4.75 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 17 | 4.75 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 11 | 4.75 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 17 | 4.75 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 12 | 4.75 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 10 | 4.75 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 10 | 4.75 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 10 | 4.75 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 13 | 4.75 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 1 | 4.75 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 1 | 4.75 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 1 | 4.75 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 7 | 4.75 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 7 | 4.75 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 7 | 4.75 |
| (1,1494) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 3 | 4.75 |
| (1,1494) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 3 | 4.75 |
| (1,1494) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 3 | 4.75 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 8 | 4.75 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 8 | 4.75 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 8 | 4.75 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 20 | 4.75 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 20 | 4.75 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 20 | 4.75 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 15 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 15 | 4.75 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 15 | 4.75 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 15 | 4.75 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 15 | 4.75 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 15 | 4.75 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 8 | 4.75 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 8 | 4.75 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 8 | 4.75 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 19 | 4.75 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 19 | 4.75 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 19 | 4.75 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 11 | 4.75 |
| (1,1260) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 19 | 4.75 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 2 | 4.75 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 15 | 4.75 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 6 | 4.75 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 6 | 4.75 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 6 | 4.75 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 9 | 4.75 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 13 | 4.75 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 13 | 4.75 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 13 | 4.75 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 7 | 4.75 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 7 | 4.75 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 7 | 4.75 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 19 | 4.75 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 15 | 4.75 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 15 | 4.75 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 15 | 4.75 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 9 | 4.75 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 9 | 4.75 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 9 | 4.75 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 13 | 4.75 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 13 | 4.75 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 12 | 4.75 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 12 | 4.75 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 2 | 4.75 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 2 | 4.75 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 8 | 4.75 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 8 | 4.75 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 8 | 4.75 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 20 | 4.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 20 | 4.75 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 20 | 4.75 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 20 | 4.75 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 4 | 4.75 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 4 | 4.75 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 4 | 4.75 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 11 | 4.75 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 11 | 4.75 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 11 | 4.75 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 17 | 4.75 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 20 | 4.75 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 7 | 4.75 |
| (1,568) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 17 | 4.75 |
| (1,568) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 17 | 4.75 |
| (1,568) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 17 | 4.75 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 2 | 4.75 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 2 | 4.75 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 2 | 4.75 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 2 | 4.75 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 2 | 4.75 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 2 | 4.75 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 10 | 4.75 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 10 | 4.75 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 10 | 4.75 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 12 | 4.75 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 6 | 4.74 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 6 | 4.74 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 4 | 4.74 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 19 | 4.74 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 19 | 4.74 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 5 | 4.74 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 5 | 4.74 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 5 | 4.74 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 5 | 4.74 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 8 | 4.74 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 8 | 4.74 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 7 | 4.74 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 7 | 4.74 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 7 | 4.74 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 7 | 4.74 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 7 | 4.74 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 7 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 3 | 4.74 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 3 | 4.74 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 17 | 4.74 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 17 | 4.74 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 17 | 4.74 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 17 | 4.74 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 19 | 4.74 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 19 | 4.74 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 9 | 4.74 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 9 | 4.74 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 5 | 4.74 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 5 | 4.74 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 5 | 4.74 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 5 | 4.74 |
| (1,9338) | 1:108:A:SER:HB2 | 1:119:A:ARG:HB3 | 14 | 4.74 |
| (1,9338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HB3 | 14 | 4.74 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 14 | 4.74 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 14 | 4.74 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 18 | 4.74 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 18 | 4.74 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 18 | 4.74 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 18 | 4.74 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 13 | 4.74 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 13 | 4.74 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 13 | 4.74 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 13 | 4.74 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 13 | 4.74 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 13 | 4.74 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 18 | 4.74 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 18 | 4.74 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 18 | 4.74 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 18 | 4.74 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 18 | 4.74 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 18 | 4.74 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 2 | 4.74 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 2 | 4.74 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 9 | 4.74 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 9 | 4.74 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 5 | 4.74 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 5 | 4.74 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 5 | 4.74 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 5 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 5 | 4.74 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 5 | 4.74 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 9 | 4.74 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 9 | 4.74 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 9 | 4.74 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 9 | 4.74 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 11 | 4.74 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 11 | 4.74 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 18 | 4.74 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 18 | 4.74 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 18 | 4.74 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 18 | 4.74 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 18 | 4.74 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 18 | 4.74 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 6 | 4.74 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 6 | 4.74 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 9 | 4.74 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 9 | 4.74 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 11 | 4.74 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 11 | 4.74 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 11 | 4.74 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 11 | 4.74 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 11 | 4.74 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 11 | 4.74 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 13 | 4.74 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 13 | 4.74 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 11 | 4.74 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 11 | 4.74 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 11 | 4.74 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 11 | 4.74 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 11 | 4.74 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 11 | 4.74 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 2 | 4.74 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 2 | 4.74 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 17 | 4.74 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 17 | 4.74 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 17 | 4.74 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 17 | 4.74 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 6 | 4.74 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 6 | 4.74 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 6 | 4.74 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 6 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 17 | 4.74 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 17 | 4.74 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 14 | 4.74 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 14 | 4.74 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 2 | 4.74 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 2 | 4.74 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 2 | 4.74 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 2 | 4.74 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 5 | 4.74 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 5 | 4.74 |
| (1,8706) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 2 | 4.74 |
| (1,8706) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 2 | 4.74 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 7 | 4.74 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 7 | 4.74 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 13 | 4.74 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 13 | 4.74 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 13 | 4.74 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 13 | 4.74 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 13 | 4.74 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 13 | 4.74 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 11 | 4.74 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 11 | 4.74 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 11 | 4.74 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 11 | 4.74 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 6 | 4.74 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 6 | 4.74 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 5 | 4.74 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 5 | 4.74 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 15 | 4.74 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 15 | 4.74 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 6 | 4.74 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 16 | 4.74 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 17 | 4.74 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 19 | 4.74 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 13 | 4.74 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 10 | 4.74 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 20 | 4.74 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 20 | 4.74 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 11 | 4.74 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 11 | 4.74 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 11 | 4.74 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 6 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 6 | 4.74 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 6 | 4.74 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 10 | 4.74 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 10 | 4.74 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 10 | 4.74 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 11 | 4.74 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 11 | 4.74 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 11 | 4.74 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 12 | 4.74 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 13 | 4.74 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 6 | 4.74 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 17 | 4.74 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 3 | 4.74 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 17 | 4.74 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 17 | 4.74 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 17 | 4.74 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 17 | 4.74 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 12 | 4.74 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 12 | 4.74 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 12 | 4.74 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 19 | 4.74 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 19 | 4.74 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 19 | 4.74 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 16 | 4.74 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 20 | 4.74 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 17 | 4.74 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 3 | 4.74 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 11 | 4.74 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 13 | 4.74 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 4 | 4.74 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 4 | 4.74 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 4 | 4.74 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 6 | 4.74 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 11 | 4.74 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 13 | 4.74 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 13 | 4.74 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 13 | 4.74 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 13 | 4.74 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 13 | 4.74 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 13 | 4.74 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 13 | 4.74 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 13 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 13 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 19 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 19 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 19 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 19 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 19 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 19 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 20 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 20 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 20 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 20 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 20 | 4.74 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 20 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 10 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 10 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 10 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 10 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 10 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 10 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 10 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 10 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 10 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 14 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 14 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 14 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 14 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 14 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 14 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 14 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 14 | 4.74 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 14 | 4.74 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 8 | 4.74 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 20 | 4.74 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 20 | 4.74 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 20 | 4.74 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 20 | 4.74 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 20 | 4.74 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 20 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 8 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 8 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 8 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 8 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 8 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 8 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 16 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 16 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 16 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 16 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 16 | 4.74 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 16 | 4.74 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 19 | 4.74 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 13 | 4.74 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 17 | 4.74 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 13 | 4.74 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 8 | 4.74 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 5 | 4.74 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 5 | 4.74 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 15 | 4.74 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 15 | 4.74 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 7 | 4.74 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 15 | 4.74 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 15 | 4.74 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 13 | 4.74 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 5 | 4.74 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 5 | 4.74 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 18 | 4.74 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 15 | 4.74 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 15 | 4.74 |
| (1,7463) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 15 | 4.74 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 12 | 4.74 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 12 | 4.74 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 12 | 4.74 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 4 | 4.74 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 15 | 4.74 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 14 | 4.74 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 4 | 4.74 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 4 | 4.74 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 4 | 4.74 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 18 | 4.74 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 18 | 4.74 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 14 | 4.74 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 14 | 4.74 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 14 | 4.74 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 4 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 4 | 4.74 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 4 | 4.74 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 3 | 4.74 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 19 | 4.74 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 14 | 4.74 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 16 | 4.74 |
| (1,6962) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 16 | 4.74 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 16 | 4.74 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 15 | 4.74 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 15 | 4.74 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 15 | 4.74 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 11 | 4.74 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 11 | 4.74 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 11 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 14 | 4.74 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 14 | 4.74 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 6 | 4.74 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 6 | 4.74 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 6 | 4.74 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 20 | 4.74 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 18 | 4.74 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 18 | 4.74 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 12 | 4.74 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 11 | 4.74 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 11 | 4.74 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 11 | 4.74 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 1 | 4.74 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 1 | 4.74 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 1 | 4.74 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 11 | 4.74 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 11 | 4.74 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 11 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 12 | 4.74 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 12 | 4.74 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 12 | 4.74 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 12 | 4.74 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 12 | 4.74 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 12 | 4.74 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 12 | 4.74 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 12 | 4.74 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 12 | 4.74 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 4 | 4.74 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 4 | 4.74 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 4 | 4.74 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 1 | 4.74 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 1 | 4.74 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 12 | 4.74 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 12 | 4.74 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 12 | 4.74 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 12 | 4.74 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 2 | 4.74 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 2 | 4.74 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 20 | 4.74 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 5 | 4.74 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 5 | 4.74 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 5 | 4.74 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 1 | 4.74 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 19 | 4.74 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 19 | 4.74 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 19 | 4.74 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 15 | 4.74 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 2 | 4.74 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 16 | 4.74 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 17 | 4.74 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 17 | 4.74 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 17 | 4.74 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 12 | 4.74 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 12 | 4.74 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 12 | 4.74 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 3 | 4.74 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 17 | 4.74 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 17 | 4.74 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 17 | 4.74 |
| (1,5278) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 3 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5278) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 3 | 4.74 |
| (1,5278) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 3 | 4.74 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 20 | 4.74 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 20 | 4.74 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 20 | 4.74 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 13 | 4.74 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 13 | 4.74 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 13 | 4.74 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 18 | 4.74 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 20 | 4.74 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 20 | 4.74 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 20 | 4.74 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 2 | 4.74 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 2 | 4.74 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 2 | 4.74 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 5 | 4.74 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 5 | 4.74 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 20 | 4.74 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 11 | 4.74 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 11 | 4.74 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 11 | 4.74 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 11 | 4.74 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 11 | 4.74 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 11 | 4.74 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 18 | 4.74 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 18 | 4.74 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 18 | 4.74 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 4 | 4.74 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 2 | 4.74 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 2 | 4.74 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 2 | 4.74 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 19 | 4.74 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 19 | 4.74 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 19 | 4.74 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 5 | 4.74 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 5 | 4.74 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 5 | 4.74 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 5 | 4.74 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 8 | 4.74 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 8 | 4.74 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 7 | 4.74 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 7 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 7 | 4.74 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 7 | 4.74 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 7 | 4.74 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 7 | 4.74 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 2 | 4.74 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 2 | 4.74 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 2 | 4.74 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 2 | 4.74 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 2 | 4.74 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 2 | 4.74 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 4 | 4.74 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 4 | 4.74 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 4 | 4.74 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 15 | 4.74 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 15 | 4.74 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 15 | 4.74 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 15 | 4.74 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 15 | 4.74 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 17 | 4.74 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 17 | 4.74 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 17 | 4.74 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 17 | 4.74 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 19 | 4.74 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 19 | 4.74 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 16 | 4.74 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 5 | 4.74 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 5 | 4.74 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 5 | 4.74 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 5 | 4.74 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 14 | 4.74 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 14 | 4.74 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 16 | 4.74 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 4.74 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 14 | 4.74 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 14 | 4.74 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 14 | 4.74 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 2 | 4.74 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 13 | 4.74 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 13 | 4.74 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 13 | 4.74 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 13 | 4.74 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 13 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 13 | 4.74 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 1 | 4.74 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 1 | 4.74 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 1 | 4.74 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 18 | 4.74 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 18 | 4.74 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 18 | 4.74 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 5 | 4.74 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 5 | 4.74 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 5 | 4.74 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 9 | 4.74 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 9 | 4.74 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 4 | 4.74 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 4 | 4.74 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 4 | 4.74 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 4 | 4.74 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 4 | 4.74 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 4 | 4.74 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 13 | 4.74 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 13 | 4.74 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 13 | 4.74 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 13 | 4.74 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 13 | 4.74 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 13 | 4.74 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 7 | 4.74 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 7 | 4.74 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 7 | 4.74 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 18 | 4.74 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 18 | 4.74 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 18 | 4.74 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 18 | 4.74 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 18 | 4.74 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 18 | 4.74 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 6 | 4.74 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 6 | 4.74 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 13 | 4.74 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 13 | 4.74 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 6 | 4.74 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 6 | 4.74 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 6 | 4.74 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 6 | 4.74 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 6 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 6 | 4.74 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 6 | 4.74 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 17 | 4.74 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 17 | 4.74 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 2 | 4.74 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 2 | 4.74 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 2 | 4.74 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 2 | 4.74 |
| (1,3672) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 2 | 4.74 |
| (1,3672) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 2 | 4.74 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 8 | 4.74 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 8 | 4.74 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 14 | 4.74 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 14 | 4.74 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 14 | 4.74 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 14 | 4.74 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 19 | 4.74 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 4.74 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 19 | 4.74 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 4 | 4.74 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 4.74 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 4 | 4.74 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 4 | 4.74 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 4.74 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 4 | 4.74 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 2 | 4.74 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 2 | 4.74 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 2 | 4.74 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 15 | 4.74 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 15 | 4.74 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 15 | 4.74 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 13 | 4.74 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 13 | 4.74 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 13 | 4.74 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 13 | 4.74 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 13 | 4.74 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 13 | 4.74 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 14 | 4.74 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 10 | 4.74 |
| (1,3406) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 8 | 4.74 |
| (1,3406) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 8 | 4.74 |
| (1,3406) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 8 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 14 | 4.74 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 14 | 4.74 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 14 | 4.74 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 18 | 4.74 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 4 | 4.74 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 4 | 4.74 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 4 | 4.74 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 3 | 4.74 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 19 | 4.74 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 14 | 4.74 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 16 | 4.74 |
| (1,2990) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 16 | 4.74 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 16 | 4.74 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 15 | 4.74 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 15 | 4.74 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 15 | 4.74 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 11 | 4.74 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 11 | 4.74 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 11 | 4.74 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 17 | 4.74 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 17 | 4.74 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 14 | 4.74 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 4.74 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 14 | 4.74 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 6 | 4.74 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 6 | 4.74 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 6 | 4.74 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 20 | 4.74 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 2 | 4.74 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 12 | 4.74 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 11 | 4.74 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 11 | 4.74 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 11 | 4.74 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 9 | 4.74 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 9 | 4.74 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 9 | 4.74 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 1 | 4.74 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 1 | 4.74 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 1 | 4.74 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 11 | 4.74 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 11 | 4.74 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 11 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 12 | 4.74 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 12 | 4.74 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 12 | 4.74 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 12 | 4.74 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 12 | 4.74 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 12 | 4.74 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 12 | 4.74 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 12 | 4.74 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 12 | 4.74 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 4 | 4.74 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 4 | 4.74 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 4 | 4.74 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 1 | 4.74 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 1 | 4.74 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 12 | 4.74 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 12 | 4.74 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 12 | 4.74 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 12 | 4.74 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 19 | 4.74 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 19 | 4.74 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 7 | 4.74 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 7 | 4.74 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 7 | 4.74 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 15 | 4.74 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 15 | 4.74 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 15 | 4.74 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 2 | 4.74 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 2 | 4.74 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 20 | 4.74 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 5 | 4.74 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 5 | 4.74 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 5 | 4.74 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 1 | 4.74 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 17 | 4.74 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 17 | 4.74 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 17 | 4.74 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 17 | 4.74 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 17 | 4.74 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 17 | 4.74 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 19 | 4.74 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 19 | 4.74 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 19 | 4.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 15 | 4.74 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 2 | 4.74 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 4 | 4.74 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 16 | 4.74 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 13 | 4.74 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 13 | 4.74 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 13 | 4.74 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 8 | 4.74 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 8 | 4.74 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 8 | 4.74 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 1 | 4.74 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 1 | 4.74 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 3 | 4.73 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 16 | 4.73 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 11 | 4.73 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 7 | 4.73 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 7 | 4.73 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 7 | 4.73 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 7 | 4.73 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 7 | 4.73 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 7 | 4.73 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 12 | 4.73 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 12 | 4.73 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 13 | 4.73 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 13 | 4.73 |
| (1,9484) | 1:133:A:PRO:HB2 | 1:152:A:THR:H | 3 | 4.73 |
| (1,9484) | 1:133:A:PRO:HB3 | 1:152:A:THR:H | 3 | 4.73 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 12 | 4.73 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 12 | 4.73 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 12 | 4.73 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 12 | 4.73 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 12 | 4.73 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 12 | 4.73 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 12 | 4.73 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 12 | 4.73 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 14 | 4.73 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 14 | 4.73 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 4 | 4.73 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 4 | 4.73 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 4 | 4.73 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 4 | 4.73 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 4 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 4 | 4.73 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 11 | 4.73 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 11 | 4.73 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 11 | 4.73 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 11 | 4.73 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 1 | 4.73 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 1 | 4.73 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 1 | 4.73 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 1 | 4.73 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 2 | 4.73 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 2 | 4.73 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 11 | 4.73 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 11 | 4.73 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 14 | 4.73 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 14 | 4.73 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 14 | 4.73 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 14 | 4.73 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 14 | 4.73 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 14 | 4.73 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 12 | 4.73 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 12 | 4.73 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 12 | 4.73 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 12 | 4.73 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 12 | 4.73 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 12 | 4.73 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 12 | 4.73 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 12 | 4.73 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 7 | 4.73 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 7 | 4.73 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 7 | 4.73 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 7 | 4.73 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 12 | 4.73 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 12 | 4.73 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 15 | 4.73 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 15 | 4.73 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 10 | 4.73 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 10 | 4.73 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 10 | 4.73 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 10 | 4.73 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 20 | 4.73 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 20 | 4.73 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 3 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 3 | 4.73 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 10 | 4.73 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 10 | 4.73 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 10 | 4.73 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 10 | 4.73 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 10 | 4.73 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 10 | 4.73 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 8 | 4.73 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 8 | 4.73 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 8 | 4.73 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 8 | 4.73 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 8 | 4.73 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 8 | 4.73 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 12 | 4.73 |
| (1,8735) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 12 | 4.73 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB2 | 12 | 4.73 |
| (1,8735) | 1:52:A:PRO:HB3 | 1:54:A:ARG:HB3 | 12 | 4.73 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 4 | 4.73 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 4 | 4.73 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 4 | 4.73 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 4 | 4.73 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 16 | 4.73 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 16 | 4.73 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 16 | 4.73 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 16 | 4.73 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 18 | 4.73 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 18 | 4.73 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 18 | 4.73 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 18 | 4.73 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 16 | 4.73 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 16 | 4.73 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 1 | 4.73 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 1 | 4.73 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 19 | 4.73 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 18 | 4.73 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 12 | 4.73 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 12 | 4.73 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 12 | 4.73 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 12 | 4.73 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 12 | 4.73 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 12 | 4.73 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 12 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 12 | 4.73 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 12 | 4.73 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 11 | 4.73 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 11 | 4.73 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 5 | 4.73 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 5 | 4.73 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 5 | 4.73 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 5 | 4.73 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 5 | 4.73 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 5 | 4.73 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 10 | 4.73 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 10 | 4.73 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 10 | 4.73 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 10 | 4.73 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 10 | 4.73 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 10 | 4.73 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 3 | 4.73 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 7 | 4.73 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 7 | 4.73 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 7 | 4.73 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 19 | 4.73 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 19 | 4.73 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 19 | 4.73 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 2 | 4.73 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 2 | 4.73 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 2 | 4.73 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 20 | 4.73 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 20 | 4.73 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 12 | 4.73 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 12 | 4.73 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 12 | 4.73 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 18 | 4.73 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 18 | 4.73 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 14 | 4.73 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 8 | 4.73 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 1 | 4.73 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 9 | 4.73 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 11 | 4.73 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 17 | 4.73 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 1 | 4.73 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 1 | 4.73 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 17 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 12 | 4.73 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 14 | 4.73 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 19 | 4.73 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 20 | 4.73 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 11 | 4.73 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 18 | 4.73 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 18 | 4.73 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 9 | 4.73 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 9 | 4.73 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 9 | 4.73 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 2 | 4.73 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 8 | 4.73 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 14 | 4.73 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 13 | 4.73 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 13 | 4.73 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 13 | 4.73 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 15 | 4.73 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 15 | 4.73 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 15 | 4.73 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 14 | 4.73 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 14 | 4.73 |
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 14 | 4.73 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 14 | 4.73 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 14 | 4.73 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 14 | 4.73 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 14 | 4.73 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 12 | 4.73 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 12 | 4.73 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 12 | 4.73 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 1 | 4.73 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 11 | 4.73 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 7 | 4.73 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 6 | 4.73 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 6 | 4.73 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 14 | 4.73 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 14 | 4.73 |
| (1,7668) | 1:34:A:TRP:H | 1:35:A:GLU:HA | 5 | 4.73 |
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 10 | 4.73 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 10 | 4.73 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 10 | 4.73 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 6 | 4.73 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 13 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 19 | 4.73 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 4 | 4.73 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 1 | 4.73 |
| (1,7578) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 17 | 4.73 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 20 | 4.73 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 20 | 4.73 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 14 | 4.73 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 7 | 4.73 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 7 | 4.73 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 7 | 4.73 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 18 | 4.73 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 8 | 4.73 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 18 | 4.73 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 5 | 4.73 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 5 | 4.73 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 15 | 4.73 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 15 | 4.73 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 15 | 4.73 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 1 | 4.73 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 1 | 4.73 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 16 | 4.73 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 16 | 4.73 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 7 | 4.73 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 7 | 4.73 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 7 | 4.73 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 12 | 4.73 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 12 | 4.73 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 12 | 4.73 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 3 | 4.73 |
| (1,7100) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 3 | 4.73 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 11 | 4.73 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 11 | 4.73 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 11 | 4.73 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 2 | 4.73 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 10 | 4.73 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 10 | 4.73 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 10 | 4.73 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 10 | 4.73 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 10 | 4.73 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 10 | 4.73 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 10 | 4.73 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 12 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 12 | 4.73 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 1 | 4.73 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 18 | 4.73 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 19 | 4.73 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 11 | 4.73 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 11 | 4.73 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 11 | 4.73 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 3 | 4.73 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 3 | 4.73 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 3 | 4.73 |
| (1,6487) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 6 | 4.73 |
| (1,6487) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 6 | 4.73 |
| (1,6487) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 6 | 4.73 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 1 | 4.73 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 1 | 4.73 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 1 | 4.73 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 1 | 4.73 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 1 | 4.73 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 1 | 4.73 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 16 | 4.73 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 16 | 4.73 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 16 | 4.73 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 6 | 4.73 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 6 | 4.73 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 7 | 4.73 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 2 | 4.73 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 6 | 4.73 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 12 | 4.73 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 11 | 4.73 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 20 | 4.73 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 20 | 4.73 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 14 | 4.73 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 14 | 4.73 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 14 | 4.73 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 8 | 4.73 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 12 | 4.73 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 8 | 4.73 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 20 | 4.73 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 5 | 4.73 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 5 | 4.73 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 5 | 4.73 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 3 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 4 | 4.73 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 4 | 4.73 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 4 | 4.73 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 4 | 4.73 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 4 | 4.73 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 4 | 4.73 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 4 | 4.73 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 4 | 4.73 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 16 | 4.73 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 16 | 4.73 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 16 | 4.73 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 11 | 4.73 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 11 | 4.73 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 11 | 4.73 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 1 | 4.73 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 7 | 4.73 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 7 | 4.73 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 7 | 4.73 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 15 | 4.73 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 15 | 4.73 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 15 | 4.73 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 11 | 4.73 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 11 | 4.73 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 11 | 4.73 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 8 | 4.73 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 4 | 4.73 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 8 | 4.73 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 8 | 4.73 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 8 | 4.73 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 8 | 4.73 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 8 | 4.73 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 8 | 4.73 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 14 | 4.73 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 14 | 4.73 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 14 | 4.73 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 15 | 4.73 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 3 | 4.73 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 18 | 4.73 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 18 | 4.73 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 18 | 4.73 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 20 | 4.73 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 7 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 7 | 4.73 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 7 | 4.73 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 14 | 4.73 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 17 | 4.73 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 17 | 4.73 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 17 | 4.73 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 4 | 4.73 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 4 | 4.73 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 4 | 4.73 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 6 | 4.73 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 5 | 4.73 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 5 | 4.73 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 5 | 4.73 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 20 | 4.73 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 12 | 4.73 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 12 | 4.73 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 13 | 4.73 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 13 | 4.73 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 4.73 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 12 | 4.73 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 12 | 4.73 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 4.73 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 4.73 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 4.73 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 4.73 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 4.73 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 4.73 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 4.73 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 4.73 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 4.73 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 4.73 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 2 | 4.73 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 7 | 4.73 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 14 | 4.73 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 14 | 4.73 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 14 | 4.73 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 14 | 4.73 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 14 | 4.73 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 14 | 4.73 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 2 | 4.73 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 4.73 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 4.73 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 15 | 4.73 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 15 | 4.73 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 13 | 4.73 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 15 | 4.73 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 15 | 4.73 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 13 | 4.73 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 15 | 4.73 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 7 | 4.73 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 7 | 4.73 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 16 | 4.73 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 3 | 4.73 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 3 | 4.73 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 19 | 4.73 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 19 | 4.73 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 19 | 4.73 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 8 | 4.73 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 8 | 4.73 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 8 | 4.73 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 8 | 4.73 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 10 | 4.73 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 10 | 4.73 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 10 | 4.73 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 10 | 4.73 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 10 | 4.73 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 10 | 4.73 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 19 | 4.73 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 19 | 4.73 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 19 | 4.73 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 15 | 4.73 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 15 | 4.73 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 14 | 4.73 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 14 | 4.73 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 14 | 4.73 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 4 | 4.73 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 4 | 4.73 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 4 | 4.73 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 4 | 4.73 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 8 | 4.73 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 8 | 4.73 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 12 | 4.73 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 16 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 16 | 4.73 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 7 | 4.73 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 7 | 4.73 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 7 | 4.73 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 5 | 4.73 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 12 | 4.73 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 12 | 4.73 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 12 | 4.73 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 3 | 4.73 |
| (1,3182) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 3 | 4.73 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 11 | 4.73 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 11 | 4.73 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 11 | 4.73 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 2 | 4.73 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 10 | 4.73 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 10 | 4.73 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 10 | 4.73 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 10 | 4.73 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 10 | 4.73 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 10 | 4.73 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 10 | 4.73 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 12 | 4.73 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 12 | 4.73 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 1 | 4.73 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 18 | 4.73 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 19 | 4.73 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 11 | 4.73 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 11 | 4.73 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 11 | 4.73 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 3 | 4.73 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 3 | 4.73 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 3 | 4.73 |
| (1,2274) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 6 | 4.73 |
| (1,2274) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 6 | 4.73 |
| (1,2274) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 6 | 4.73 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 4 | 4.73 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 4 | 4.73 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 4 | 4.73 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 1 | 4.73 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 1 | 4.73 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 1 | 4.73 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 1 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 1 | 4.73 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 1 | 4.73 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 15 | 4.73 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 15 | 4.73 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 16 | 4.73 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 16 | 4.73 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 16 | 4.73 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 16 | 4.73 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 16 | 4.73 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 16 | 4.73 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 6 | 4.73 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 6 | 4.73 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 7 | 4.73 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 6 | 4.73 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 6 | 4.73 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 6 | 4.73 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 19 | 4.73 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 19 | 4.73 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 19 | 4.73 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 2 | 4.73 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 6 | 4.73 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 12 | 4.73 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 14 | 4.73 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 14 | 4.73 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 14 | 4.73 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 11 | 4.73 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 20 | 4.73 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 20 | 4.73 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 3 | 4.73 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 14 | 4.73 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 14 | 4.73 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 14 | 4.73 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 8 | 4.73 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 12 | 4.73 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 9 | 4.73 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 9 | 4.73 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 8 | 4.73 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 5 | 4.73 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 5 | 4.73 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 5 | 4.73 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 20 | 4.73 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 5 | 4.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 5 | 4.73 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 5 | 4.73 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 3 | 4.73 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 4 | 4.73 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 4 | 4.73 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 4 | 4.73 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 4 | 4.73 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 4 | 4.73 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 4 | 4.73 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 4 | 4.73 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 4 | 4.73 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 9 | 4.73 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 9 | 4.73 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 15 | 4.72 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 20 | 4.72 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 19 | 4.72 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 8 | 4.72 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 8 | 4.72 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 14 | 4.72 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 14 | 4.72 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 4.72 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 4.72 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 16 | 4.72 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 16 | 4.72 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 16 | 4.72 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 16 | 4.72 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 7 | 4.72 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 7 | 4.72 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 20 | 4.72 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 20 | 4.72 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 3 | 4.72 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 3 | 4.72 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 3 | 4.72 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 3 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 20 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 20 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 20 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 20 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 20 | 4.72 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 20 | 4.72 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 17 | 4.72 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 17 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 17 | 4.72 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 17 | 4.72 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 17 | 4.72 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 17 | 4.72 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 17 | 4.72 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 17 | 4.72 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 14 | 4.72 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 14 | 4.72 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 6 | 4.72 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 6 | 4.72 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 6 | 4.72 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 6 | 4.72 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 6 | 4.72 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 6 | 4.72 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 13 | 4.72 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 13 | 4.72 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 15 | 4.72 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 15 | 4.72 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 15 | 4.72 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 15 | 4.72 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 5 | 4.72 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 5 | 4.72 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 5 | 4.72 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 5 | 4.72 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 5 | 4.72 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 5 | 4.72 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 5 | 4.72 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 5 | 4.72 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 5 | 4.72 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 5 | 4.72 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 3 | 4.72 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 3 | 4.72 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 10 | 4.72 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 10 | 4.72 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 7 | 4.72 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 7 | 4.72 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 7 | 4.72 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 7 | 4.72 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 17 | 4.72 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 17 | 4.72 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 12 | 4.72 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 12 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 11 | 4.72 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 11 | 4.72 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 19 | 4.72 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 19 | 4.72 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 19 | 4.72 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 19 | 4.72 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 19 | 4.72 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 19 | 4.72 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 19 | 4.72 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 19 | 4.72 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 19 | 4.72 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 19 | 4.72 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 12 | 4.72 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 12 | 4.72 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 12 | 4.72 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 12 | 4.72 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 8 | 4.72 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 8 | 4.72 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 18 | 4.72 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 18 | 4.72 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 13 | 4.72 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 13 | 4.72 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 4 | 4.72 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 4 | 4.72 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 4 | 4.72 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 4 | 4.72 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 16 | 4.72 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 16 | 4.72 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 18 | 4.72 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 18 | 4.72 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 2 | 4.72 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 2 | 4.72 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 7 | 4.72 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 7 | 4.72 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 7 | 4.72 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 7 | 4.72 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 7 | 4.72 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 7 | 4.72 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 11 | 4.72 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 11 | 4.72 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 6 | 4.72 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 6 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 3 | 4.72 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 3 | 4.72 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 5 | 4.72 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 5 | 4.72 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 5 | 4.72 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 20 | 4.72 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 11 | 4.72 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 1 | 4.72 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 1 | 4.72 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 1 | 4.72 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 16 | 4.72 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 16 | 4.72 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 16 | 4.72 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 9 | 4.72 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 4 | 4.72 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 4 | 4.72 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 4 | 4.72 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 4 | 4.72 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 4 | 4.72 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 4 | 4.72 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 4 | 4.72 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 4 | 4.72 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 4 | 4.72 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 20 | 4.72 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 20 | 4.72 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 13 | 4.72 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 13 | 4.72 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 10 | 4.72 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 3 | 4.72 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 19 | 4.72 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 17 | 4.72 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 19 | 4.72 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 2 | 4.72 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 2 | 4.72 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 13 | 4.72 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 13 | 4.72 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 13 | 4.72 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 13 | 4.72 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 13 | 4.72 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 13 | 4.72 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 13 | 4.72 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 13 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 13 | 4.72 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 3 | 4.72 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 3 | 4.72 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 3 | 4.72 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 1 | 4.72 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 1 | 4.72 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 1 | 4.72 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 2 | 4.72 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 2 | 4.72 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 4 | 4.72 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 4 | 4.72 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 16 | 4.72 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 16 | 4.72 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 17 | 4.72 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 17 | 4.72 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 8 | 4.72 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 8 | 4.72 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 8 | 4.72 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 8 | 4.72 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 15 | 4.72 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 15 | 4.72 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 15 | 4.72 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 15 | 4.72 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 2 | 4.72 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 16 | 4.72 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 16 | 4.72 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 15 | 4.72 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 4 | 4.72 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 12 | 4.72 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 3 | 4.72 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 11 | 4.72 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 11 | 4.72 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 11 | 4.72 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 8 | 4.72 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 8 | 4.72 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 8 | 4.72 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 8 | 4.72 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 8 | 4.72 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 8 | 4.72 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 16 | 4.72 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB2 | 5 | 4.72 |
| (1,7671) | 1:35:A:GLU:H | 1:36:A:ARG:HB3 | 5 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 6 | 4.72 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 3 | 4.72 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 17 | 4.72 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 5 | 4.72 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 8 | 4.72 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 4 | 4.72 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 11 | 4.72 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 19 | 4.72 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 20 | 4.72 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 9 | 4.72 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 10 | 4.72 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 10 | 4.72 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 10 | 4.72 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 13 | 4.72 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 12 | 4.72 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 19 | 4.72 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 8 | 4.72 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 19 | 4.72 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 16 | 4.72 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 11 | 4.72 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 11 | 4.72 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 11 | 4.72 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 2 | 4.72 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 6 | 4.72 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 20 | 4.72 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 20 | 4.72 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 4 | 4.72 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 4 | 4.72 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 15 | 4.72 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 15 | 4.72 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 2 | 4.72 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 8 | 4.72 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 8 | 4.72 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 8 | 4.72 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 7 | 4.72 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 7 | 4.72 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 7 | 4.72 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 17 | 4.72 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 19 | 4.72 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 3 | 4.72 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 3 | 4.72 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 3 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 6 | 4.72 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 9 | 4.72 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 13 | 4.72 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 18 | 4.72 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 12 | 4.72 |
| (1,7020) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 9 | 4.72 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 8 | 4.72 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 8 | 4.72 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 8 | 4.72 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 10 | 4.72 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 10 | 4.72 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 10 | 4.72 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 10 | 4.72 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 10 | 4.72 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 10 | 4.72 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 10 | 4.72 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 2 | 4.72 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 18 | 4.72 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 9 | 4.72 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 14 | 4.72 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 14 | 4.72 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 14 | 4.72 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 10 | 4.72 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 10 | 4.72 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 10 | 4.72 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 4 | 4.72 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 4 | 4.72 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 4 | 4.72 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 10 | 4.72 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 10 | 4.72 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 10 | 4.72 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 10 | 4.72 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 10 | 4.72 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 10 | 4.72 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 10 | 4.72 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 10 | 4.72 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 10 | 4.72 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 1 | 4.72 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 16 | 4.72 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 2 | 4.72 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 2 | 4.72 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 2 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 10 | 4.72 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 10 | 4.72 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 13 | 4.72 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 16 | 4.72 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 18 | 4.72 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 18 | 4.72 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 18 | 4.72 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 18 | 4.72 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 12 | 4.72 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 12 | 4.72 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 12 | 4.72 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 20 | 4.72 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 10 | 4.72 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 10 | 4.72 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 10 | 4.72 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 19 | 4.72 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 19 | 4.72 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 19 | 4.72 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 2 | 4.72 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 9 | 4.72 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 9 | 4.72 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 9 | 4.72 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 2 | 4.72 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 2 | 4.72 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 2 | 4.72 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 15 | 4.72 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 8 | 4.72 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 8 | 4.72 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 8 | 4.72 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 12 | 4.72 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 12 | 4.72 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 12 | 4.72 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 13 | 4.72 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 13 | 4.72 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 13 | 4.72 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 14 | 4.72 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 13 | 4.72 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 13 | 4.72 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 13 | 4.72 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 18 | 4.72 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 18 | 4.72 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 18 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 5 | 4.72 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 9 | 4.72 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 18 | 4.72 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 14 | 4.72 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 13 | 4.72 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 11 | 4.72 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 13 | 4.72 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 10 | 4.72 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 10 | 4.72 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 9 | 4.72 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 9 | 4.72 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 9 | 4.72 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 10 | 4.72 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 10 | 4.72 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 10 | 4.72 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 2 | 4.72 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 2 | 4.72 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 2 | 4.72 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 11 | 4.72 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 16 | 4.72 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 16 | 4.72 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 16 | 4.72 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 9 | 4.72 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 10 | 4.72 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 10 | 4.72 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 5 | 4.72 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 2 | 4.72 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 2 | 4.72 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 2 | 4.72 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 8 | 4.72 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 8 | 4.72 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 4.72 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 4.72 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 3 | 4.72 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 3 | 4.72 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 3 | 4.72 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 3 | 4.72 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 16 | 4.72 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 16 | 4.72 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 7 | 4.72 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 17 | 4.72 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 17 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 17 | 4.72 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 17 | 4.72 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 17 | 4.72 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 17 | 4.72 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 18 | 4.72 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 18 | 4.72 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 18 | 4.72 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 6 | 4.72 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 6 | 4.72 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 6 | 4.72 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 6 | 4.72 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 6 | 4.72 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 6 | 4.72 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 17 | 4.72 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 9 | 4.72 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 9 | 4.72 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 9 | 4.72 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 7 | 4.72 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 7 | 4.72 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 7 | 4.72 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 2 | 4.72 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 15 | 4.72 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 15 | 4.72 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 13 | 4.72 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 13 | 4.72 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 13 | 4.72 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 18 | 4.72 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 18 | 4.72 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 18 | 4.72 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 18 | 4.72 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 18 | 4.72 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 18 | 4.72 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 8 | 4.72 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 9 | 4.72 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 10 | 4.72 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 10 | 4.72 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 17 | 4.72 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 17 | 4.72 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 12 | 4.72 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 12 | 4.72 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 12 | 4.72 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 12 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 12 | 4.72 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 12 | 4.72 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 12 | 4.72 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 5 | 4.72 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 17 | 4.72 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 17 | 4.72 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 17 | 4.72 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 20 | 4.72 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 16 | 4.72 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 16 | 4.72 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 4.72 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 4.72 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 7 | 4.72 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 7 | 4.72 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 7 | 4.72 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 7 | 4.72 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 7 | 4.72 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 7 | 4.72 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 11 | 4.72 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 11 | 4.72 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 6 | 4.72 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 6 | 4.72 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 2 | 4.72 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 8 | 4.72 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 8 | 4.72 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 8 | 4.72 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 7 | 4.72 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 7 | 4.72 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 7 | 4.72 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 17 | 4.72 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 19 | 4.72 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 3 | 4.72 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 3 | 4.72 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 3 | 4.72 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 6 | 4.72 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 9 | 4.72 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 13 | 4.72 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 18 | 4.72 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 12 | 4.72 |
| (1,3068) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 9 | 4.72 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 8 | 4.72 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 8 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 8 | 4.72 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 4.72 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 10 | 4.72 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 10 | 4.72 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 10 | 4.72 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 10 | 4.72 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 10 | 4.72 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 10 | 4.72 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 10 | 4.72 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 2 | 4.72 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 9 | 4.72 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 15 | 4.72 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 18 | 4.72 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 14 | 4.72 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 14 | 4.72 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 14 | 4.72 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 14 | 4.72 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 14 | 4.72 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 14 | 4.72 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 10 | 4.72 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 10 | 4.72 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 10 | 4.72 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 18 | 4.72 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 18 | 4.72 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 18 | 4.72 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 4.72 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 4.72 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 8 | 4.72 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 8 | 4.72 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 8 | 4.72 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 4 | 4.72 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 4 | 4.72 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 4 | 4.72 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 10 | 4.72 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 10 | 4.72 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 10 | 4.72 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 10 | 4.72 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 10 | 4.72 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 10 | 4.72 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 10 | 4.72 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 10 | 4.72 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 10 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 1 | 4.72 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 4.72 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 4.72 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 4.72 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 2 | 4.72 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 2 | 4.72 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 2 | 4.72 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 16 | 4.72 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 16 | 4.72 |
| (1,1572) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 16 | 4.72 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 8 | 4.72 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 8 | 4.72 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 8 | 4.72 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 10 | 4.72 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 10 | 4.72 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 13 | 4.72 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 16 | 4.72 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 2 | 4.72 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 2 | 4.72 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 2 | 4.72 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 7 | 4.72 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 7 | 4.72 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 7 | 4.72 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 18 | 4.72 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 18 | 4.72 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 18 | 4.72 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 18 | 4.72 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 12 | 4.72 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 12 | 4.72 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 12 | 4.72 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 20 | 4.72 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 10 | 4.72 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 10 | 4.72 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 10 | 4.72 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 19 | 4.72 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 19 | 4.72 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 19 | 4.72 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 2 | 4.72 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 10 | 4.72 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 19 | 4.72 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 4.72 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 9 | 4.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 9 | 4.72 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 9 | 4.72 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 2 | 4.72 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 2 | 4.72 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 2 | 4.72 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 15 | 4.72 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 8 | 4.72 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 8 | 4.72 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 8 | 4.72 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 12 | 4.72 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 12 | 4.72 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 12 | 4.72 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 13 | 4.72 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 13 | 4.72 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 13 | 4.72 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 14 | 4.72 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 8 | 4.72 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 8 | 4.72 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 8 | 4.72 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 8 | 4.72 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 8 | 4.72 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 8 | 4.72 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 9 | 4.72 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 9 | 4.72 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 9 | 4.72 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 9 | 4.72 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 9 | 4.72 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 9 | 4.72 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 18 | 4.72 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 18 | 4.72 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 18 | 4.72 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 18 | 4.72 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 18 | 4.72 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 18 | 4.72 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 20 | 4.72 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 6 | 4.71 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 10 | 4.71 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 3 | 4.71 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 3 | 4.71 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 4.71 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 4.71 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 4.71 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 4.71 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 4.71 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 8 | 4.71 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 8 | 4.71 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 17 | 4.71 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 17 | 4.71 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 9 | 4.71 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 9 | 4.71 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 14 | 4.71 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 14 | 4.71 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 14 | 4.71 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 14 | 4.71 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 14 | 4.71 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 14 | 4.71 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 3 | 4.71 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 3 | 4.71 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 3 | 4.71 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 3 | 4.71 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 3 | 4.71 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 3 | 4.71 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 10 | 4.71 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 10 | 4.71 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 9 | 4.71 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 9 | 4.71 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 12 | 4.71 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 12 | 4.71 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 12 | 4.71 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 12 | 4.71 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 5 | 4.71 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 5 | 4.71 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 5 | 4.71 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 5 | 4.71 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 7 | 4.71 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 7 | 4.71 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 8 | 4.71 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 8 | 4.71 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 8 | 4.71 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 8 | 4.71 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 8 | 4.71 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 8 | 4.71 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 8 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 8 | 4.71 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 8 | 4.71 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 8 | 4.71 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 10 | 4.71 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 10 | 4.71 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 10 | 4.71 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 10 | 4.71 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 4 | 4.71 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 4 | 4.71 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 7 | 4.71 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 7 | 4.71 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 11 | 4.71 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 11 | 4.71 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 11 | 4.71 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 11 | 4.71 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 6 | 4.71 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 6 | 4.71 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 11 | 4.71 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 11 | 4.71 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 7 | 4.71 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 7 | 4.71 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 4 | 4.71 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 4 | 4.71 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 4 | 4.71 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 4 | 4.71 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 4 | 4.71 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 4 | 4.71 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 12 | 4.71 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 12 | 4.71 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 14 | 4.71 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 14 | 4.71 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 14 | 4.71 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 14 | 4.71 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 6 | 4.71 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 6 | 4.71 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 18 | 4.71 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 18 | 4.71 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 5 | 4.71 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 5 | 4.71 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 5 | 4.71 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 5 | 4.71 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 9 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 9 | 4.71 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 17 | 4.71 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 17 | 4.71 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 17 | 4.71 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 17 | 4.71 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 15 | 4.71 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 15 | 4.71 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 15 | 4.71 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 15 | 4.71 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 19 | 4.71 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 19 | 4.71 |
| (1,8580) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 19 | 4.71 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 19 | 4.71 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 19 | 4.71 |
| (1,8580) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 19 | 4.71 |
| (1,8578) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 5 | 4.71 |
| (1,8578) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 5 | 4.71 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 5 | 4.71 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 5 | 4.71 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 14 | 4.71 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 14 | 4.71 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 16 | 4.71 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 16 | 4.71 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 19 | 4.71 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 19 | 4.71 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 9 | 4.71 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 9 | 4.71 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 9 | 4.71 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 5 | 4.71 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 5 | 4.71 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 5 | 4.71 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 14 | 4.71 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 17 | 4.71 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 18 | 4.71 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 8 | 4.71 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 8 | 4.71 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 8 | 4.71 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 11 | 4.71 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 11 | 4.71 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 11 | 4.71 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 18 | 4.71 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG11 | 3 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG12 | 3 | 4.71 |
| (1,8385) | 1:138:A:SER:H | 1:150:A:VAL:HG13 | 3 | 4.71 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 5 | 4.71 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 5 | 4.71 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 5 | 4.71 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 5 | 4.71 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 5 | 4.71 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 5 | 4.71 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 2 | 4.71 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 2 | 4.71 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 9 | 4.71 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 9 | 4.71 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 7 | 4.71 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 7 | 4.71 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 7 | 4.71 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 17 | 4.71 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 17 | 4.71 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 17 | 4.71 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 18 | 4.71 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 18 | 4.71 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 18 | 4.71 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 5 | 4.71 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 18 | 4.71 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 16 | 4.71 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 16 | 4.71 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 1 | 4.71 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 4 | 4.71 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 4 | 4.71 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 4 | 4.71 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 18 | 4.71 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 20 | 4.71 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 20 | 4.71 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 6 | 4.71 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 6 | 4.71 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 2 | 4.71 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 14 | 4.71 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 14 | 4.71 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 14 | 4.71 |
| (1,8196) | 1:104:A:GLU:HA | 1:119:A:ARG:HB2 | 16 | 4.71 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 7 | 4.71 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 7 | 4.71 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 7 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 15 | 4.71 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 1 | 4.71 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 18 | 4.71 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 18 | 4.71 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 18 | 4.71 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 18 | 4.71 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 18 | 4.71 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 18 | 4.71 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 18 | 4.71 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 18 | 4.71 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 18 | 4.71 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 19 | 4.71 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 19 | 4.71 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 19 | 4.71 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 19 | 4.71 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 19 | 4.71 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 19 | 4.71 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 19 | 4.71 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 19 | 4.71 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 19 | 4.71 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 3 | 4.71 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 3 | 4.71 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 3 | 4.71 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 8 | 4.71 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 8 | 4.71 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 13 | 4.71 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 13 | 4.71 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 11 | 4.71 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 20 | 4.71 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 19 | 4.71 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 17 | 4.71 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 17 | 4.71 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 17 | 4.71 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 17 | 4.71 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 17 | 4.71 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 17 | 4.71 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 17 | 4.71 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 17 | 4.71 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 17 | 4.71 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 14 | 4.71 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 14 | 4.71 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 14 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 6 | 4.71 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 3 | 4.71 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 17 | 4.71 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 1 | 4.71 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 1 | 4.71 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 1 | 4.71 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 17 | 4.71 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 17 | 4.71 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 17 | 4.71 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 16 | 4.71 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 17 | 4.71 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 17 | 4.71 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 17 | 4.71 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 17 | 4.71 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 7 | 4.71 |
| (1,7665) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB2 | 10 | 4.71 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 16 | 4.71 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 9 | 4.71 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 2 | 4.71 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 15 | 4.71 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 3 | 4.71 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 3 | 4.71 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 6 | 4.71 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 10 | 4.71 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 12 | 4.71 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 12 | 4.71 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 3 | 4.71 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 3 | 4.71 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 20 | 4.71 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 8 | 4.71 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 8 | 4.71 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 8 | 4.71 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 3 | 4.71 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 3 | 4.71 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 17 | 4.71 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 13 | 4.71 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 13 | 4.71 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 13 | 4.71 |
| (1,7238) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 13 | 4.71 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 8 | 4.71 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 8 | 4.71 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 8 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 8 | 4.71 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 8 | 4.71 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 8 | 4.71 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 6 | 4.71 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 6 | 4.71 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 6 | 4.71 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 15 | 4.71 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 20 | 4.71 |
| (1,6995) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 18 | 4.71 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 11 | 4.71 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 11 | 4.71 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 5 | 4.71 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 4 | 4.71 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 1 | 4.71 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 4 | 4.71 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 4 | 4.71 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 3 | 4.71 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 3 | 4.71 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 6 | 4.71 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 6 | 4.71 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 11 | 4.71 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 11 | 4.71 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 11 | 4.71 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 7 | 4.71 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 13 | 4.71 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 13 | 4.71 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 4 | 4.71 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 4 | 4.71 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 4 | 4.71 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 4 | 4.71 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 4 | 4.71 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 4 | 4.71 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 4 | 4.71 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 4 | 4.71 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 4 | 4.71 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 5 | 4.71 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 5 | 4.71 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 5 | 4.71 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 19 | 4.71 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 18 | 4.71 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 18 | 4.71 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 18 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 18 | 4.71 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 18 | 4.71 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 18 | 4.71 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 8 | 4.71 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 20 | 4.71 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 9 | 4.71 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 9 | 4.71 |
| (1,5853) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 5 | 4.71 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 14 | 4.71 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 1 | 4.71 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 1 | 4.71 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 1 | 4.71 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 18 | 4.71 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 11 | 4.71 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 11 | 4.71 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 11 | 4.71 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 11 | 4.71 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 19 | 4.71 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 19 | 4.71 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 19 | 4.71 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 19 | 4.71 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 19 | 4.71 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 19 | 4.71 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 6 | 4.71 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 2 | 4.71 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 2 | 4.71 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 2 | 4.71 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 9 | 4.71 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 9 | 4.71 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 9 | 4.71 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 13 | 4.71 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 13 | 4.71 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 13 | 4.71 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 13 | 4.71 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 13 | 4.71 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 13 | 4.71 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 13 | 4.71 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 13 | 4.71 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 13 | 4.71 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 19 | 4.71 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 19 | 4.71 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 19 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 1 | 4.71 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 15 | 4.71 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 15 | 4.71 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 15 | 4.71 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 13 | 4.71 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 19 | 4.71 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 14 | 4.71 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 5 | 4.71 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 5 | 4.71 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 5 | 4.71 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 7 | 4.71 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 19 | 4.71 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 19 | 4.71 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 19 | 4.71 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 14 | 4.71 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 17 | 4.71 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 17 | 4.71 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 17 | 4.71 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 9 | 4.71 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 9 | 4.71 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 14 | 4.71 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 14 | 4.71 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 14 | 4.71 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 14 | 4.71 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 14 | 4.71 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 14 | 4.71 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 3 | 4.71 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 3 | 4.71 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 3 | 4.71 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 3 | 4.71 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 3 | 4.71 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 3 | 4.71 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 9 | 4.71 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 9 | 4.71 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 12 | 4.71 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 12 | 4.71 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 12 | 4.71 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 12 | 4.71 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 19 | 4.71 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 19 | 4.71 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 19 | 4.71 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 19 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 9 | 4.71 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 9 | 4.71 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 9 | 4.71 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 9 | 4.71 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 9 | 4.71 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 9 | 4.71 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 3 | 4.71 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 5 | 4.71 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 5 | 4.71 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 5 | 4.71 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 5 | 4.71 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 9 | 4.71 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 17 | 4.71 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 1 | 4.71 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 15 | 4.71 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 15 | 4.71 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 15 | 4.71 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 15 | 4.71 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 4.71 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 4.71 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 4.71 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 3 | 4.71 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 4 | 4.71 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 4 | 4.71 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 4 | 4.71 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 4 | 4.71 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 8 | 4.71 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 7 | 4.71 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 7 | 4.71 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 7 | 4.71 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 14 | 4.71 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 15 | 4.71 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 15 | 4.71 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 4 | 4.71 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 4 | 4.71 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 4 | 4.71 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 4 | 4.71 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 4 | 4.71 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 4 | 4.71 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 7 | 4.71 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 9 | 4.71 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 14 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 14 | 4.71 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 14 | 4.71 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 14 | 4.71 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 6 | 4.71 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 6 | 4.71 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 18 | 4.71 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 18 | 4.71 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 13 | 4.71 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 13 | 4.71 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 13 | 4.71 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 13 | 4.71 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 16 | 4.71 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 16 | 4.71 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 16 | 4.71 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 18 | 4.71 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 18 | 4.71 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 18 | 4.71 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 8 | 4.71 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 8 | 4.71 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 8 | 4.71 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 7 | 4.71 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 7 | 4.71 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 7 | 4.71 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 9 | 4.71 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 9 | 4.71 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 9 | 4.71 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 4 | 4.71 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 4 | 4.71 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 4 | 4.71 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 4 | 4.71 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 4 | 4.71 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 4 | 4.71 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 11 | 4.71 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 11 | 4.71 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 11 | 4.71 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 11 | 4.71 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 15 | 4.71 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 15 | 4.71 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 15 | 4.71 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 15 | 4.71 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 15 | 4.71 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 15 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 1 | 4.71 |
| (1,3528) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 5 | 4.71 |
| (1,3528) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 5 | 4.71 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 16 | 4.71 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 16 | 4.71 |
| (1,3436) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 13 | 4.71 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 18 | 4.71 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 18 | 4.71 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 18 | 4.71 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 8 | 4.71 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 8 | 4.71 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 8 | 4.71 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 8 | 4.71 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 8 | 4.71 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 8 | 4.71 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 4 | 4.71 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 4 | 4.71 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 4 | 4.71 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 6 | 4.71 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 6 | 4.71 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 6 | 4.71 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 8 | 4.71 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 8 | 4.71 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 8 | 4.71 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 18 | 4.71 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 18 | 4.71 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 18 | 4.71 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 15 | 4.71 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 15 | 4.71 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 15 | 4.71 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 15 | 4.71 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 20 | 4.71 |
| (1,3036) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 18 | 4.71 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 5 | 4.71 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 1 | 4.71 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 4 | 4.71 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 4 | 4.71 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 3 | 4.71 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 3 | 4.71 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 6 | 4.71 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 6 | 4.71 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 11 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 11 | 4.71 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 11 | 4.71 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 7 | 4.71 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 6 | 4.71 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 6 | 4.71 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 6 | 4.71 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 6 | 4.71 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 6 | 4.71 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 6 | 4.71 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 6 | 4.71 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 6 | 4.71 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 6 | 4.71 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 1 | 4.71 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 7 | 4.71 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 7 | 4.71 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 4 | 4.71 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 4 | 4.71 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 4 | 4.71 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 4 | 4.71 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 4 | 4.71 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 4 | 4.71 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 4 | 4.71 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 4 | 4.71 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 4 | 4.71 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 5 | 4.71 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 5 | 4.71 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 5 | 4.71 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 19 | 4.71 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 18 | 4.71 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 18 | 4.71 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 18 | 4.71 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 18 | 4.71 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 18 | 4.71 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 18 | 4.71 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 8 | 4.71 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 20 | 4.71 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 17 | 4.71 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 17 | 4.71 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 17 | 4.71 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 9 | 4.71 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 9 | 4.71 |
| (1,1236) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 5 | 4.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 14 | 4.71 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 11 | 4.71 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 1 | 4.71 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 1 | 4.71 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 1 | 4.71 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 9 | 4.71 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 18 | 4.71 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 10 | 4.71 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 11 | 4.71 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 11 | 4.71 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 11 | 4.71 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 6 | 4.71 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 11 | 4.71 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 19 | 4.71 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 19 | 4.71 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 19 | 4.71 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 19 | 4.71 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 19 | 4.71 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 19 | 4.71 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 6 | 4.71 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 15 | 4.71 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 2 | 4.71 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 2 | 4.71 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 2 | 4.71 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 9 | 4.71 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 9 | 4.71 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 9 | 4.71 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 13 | 4.71 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 13 | 4.71 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 13 | 4.71 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 13 | 4.71 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 13 | 4.71 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 13 | 4.71 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 13 | 4.71 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 13 | 4.71 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 13 | 4.71 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 3 | 4.71 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 19 | 4.71 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 20 | 4.7 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 11 | 4.7 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 6 | 4.7 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 6 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 6 | 4.7 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 6 | 4.7 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 6 | 4.7 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 6 | 4.7 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 4 | 4.7 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 4 | 4.7 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 4 | 4.7 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 4 | 4.7 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 4 | 4.7 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 4 | 4.7 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 7 | 4.7 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 7 | 4.7 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 19 | 4.7 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 19 | 4.7 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 4 | 4.7 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 4 | 4.7 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 7 | 4.7 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 7 | 4.7 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 13 | 4.7 |
| (1,9285) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 13 | 4.7 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 13 | 4.7 |
| (1,9285) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 13 | 4.7 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 12 | 4.7 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 12 | 4.7 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 16 | 4.7 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 16 | 4.7 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 16 | 4.7 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 16 | 4.7 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 3 | 4.7 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 3 | 4.7 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 12 | 4.7 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 12 | 4.7 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 12 | 4.7 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 12 | 4.7 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 12 | 4.7 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 12 | 4.7 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 6 | 4.7 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 6 | 4.7 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 6 | 4.7 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 6 | 4.7 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 6 | 4.7 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 6 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 17 | 4.7 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 17 | 4.7 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 17 | 4.7 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 17 | 4.7 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 17 | 4.7 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 17 | 4.7 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG2 | 4 | 4.7 |
| (1,9098) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HG3 | 4 | 4.7 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG2 | 4 | 4.7 |
| (1,9098) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HG3 | 4 | 4.7 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG2 | 4 | 4.7 |
| (1,9098) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HG3 | 4 | 4.7 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 14 | 4.7 |
| (1,9080) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 14 | 4.7 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 4 | 4.7 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 4 | 4.7 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 15 | 4.7 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 15 | 4.7 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 15 | 4.7 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 15 | 4.7 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 15 | 4.7 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 15 | 4.7 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 2 | 4.7 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 2 | 4.7 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 17 | 4.7 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 17 | 4.7 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 17 | 4.7 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 17 | 4.7 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 17 | 4.7 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 17 | 4.7 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 17 | 4.7 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 17 | 4.7 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 17 | 4.7 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 17 | 4.7 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 17 | 4.7 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 17 | 4.7 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 7 | 4.7 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 7 | 4.7 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 11 | 4.7 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 11 | 4.7 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 10 | 4.7 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 10 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 16 | 4.7 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 16 | 4.7 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 1 | 4.7 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 1 | 4.7 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 7 | 4.7 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 7 | 4.7 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 15 | 4.7 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 15 | 4.7 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 15 | 4.7 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 15 | 4.7 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 15 | 4.7 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 15 | 4.7 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 17 | 4.7 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 17 | 4.7 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 2 | 4.7 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 2 | 4.7 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 2 | 4.7 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 2 | 4.7 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 15 | 4.7 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 15 | 4.7 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 15 | 4.7 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 18 | 4.7 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 18 | 4.7 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 18 | 4.7 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 18 | 4.7 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 18 | 4.7 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 18 | 4.7 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 18 | 4.7 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 18 | 4.7 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 18 | 4.7 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 13 | 4.7 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 13 | 4.7 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 13 | 4.7 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 20 | 4.7 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 18 | 4.7 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 18 | 4.7 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 18 | 4.7 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 3 | 4.7 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 15 | 4.7 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 15 | 4.7 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 15 | 4.7 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 17 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 15 | 4.7 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 15 | 4.7 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 15 | 4.7 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 15 | 4.7 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 15 | 4.7 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 15 | 4.7 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 15 | 4.7 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 15 | 4.7 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 15 | 4.7 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 16 | 4.7 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 16 | 4.7 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 10 | 4.7 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 10 | 4.7 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 12 | 4.7 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 7 | 4.7 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 11 | 4.7 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 11 | 4.7 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 17 | 4.7 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 12 | 4.7 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 2 | 4.7 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 20 | 4.7 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 20 | 4.7 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 3 | 4.7 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 3 | 4.7 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 3 | 4.7 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 14 | 4.7 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 14 | 4.7 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 4 | 4.7 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 3 | 4.7 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 15 | 4.7 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 15 | 4.7 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 15 | 4.7 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 15 | 4.7 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 10 | 4.7 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 18 | 4.7 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 18 | 4.7 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 11 | 4.7 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 9 | 4.7 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 12 | 4.7 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 12 | 4.7 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 12 | 4.7 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 11 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 3 | 4.7 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 3 | 4.7 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 3 | 4.7 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 13 | 4.7 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 13 | 4.7 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 13 | 4.7 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 14 | 4.7 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 18 | 4.7 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 18 | 4.7 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 18 | 4.7 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 9 | 4.7 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 14 | 4.7 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 8 | 4.7 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 16 | 4.7 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 16 | 4.7 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 16 | 4.7 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 15 | 4.7 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 15 | 4.7 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 15 | 4.7 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 7 | 4.7 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 7 | 4.7 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 7 | 4.7 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 7 | 4.7 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 7 | 4.7 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 7 | 4.7 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 17 | 4.7 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 18 | 4.7 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 6 | 4.7 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 8 | 4.7 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 8 | 4.7 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 14 | 4.7 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 15 | 4.7 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 6 | 4.7 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 1 | 4.7 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 1 | 4.7 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 16 | 4.7 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 17 | 4.7 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 2 | 4.7 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 8 | 4.7 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 2 | 4.7 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 5 | 4.7 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 6 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 4 | 4.7 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 20 | 4.7 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 20 | 4.7 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 20 | 4.7 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 1 | 4.7 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 4 | 4.7 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 5 | 4.7 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 5 | 4.7 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 5 | 4.7 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 3 | 4.7 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 17 | 4.7 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 17 | 4.7 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 17 | 4.7 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 17 | 4.7 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 17 | 4.7 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 17 | 4.7 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 8 | 4.7 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 8 | 4.7 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 16 | 4.7 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 9 | 4.7 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 9 | 4.7 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 9 | 4.7 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 4 | 4.7 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 4 | 4.7 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 4 | 4.7 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 4 | 4.7 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 4 | 4.7 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 4 | 4.7 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 13 | 4.7 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 13 | 4.7 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 13 | 4.7 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 8 | 4.7 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 14 | 4.7 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 7 | 4.7 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 18 | 4.7 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 1 | 4.7 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 1 | 4.7 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 1 | 4.7 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 13 | 4.7 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 19 | 4.7 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 19 | 4.7 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 13 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 13 | 4.7 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 13 | 4.7 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 13 | 4.7 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 13 | 4.7 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 13 | 4.7 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 13 | 4.7 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 13 | 4.7 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 13 | 4.7 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 18 | 4.7 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 19 | 4.7 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 18 | 4.7 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 5 | 4.7 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 8 | 4.7 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 3 | 4.7 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 19 | 4.7 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 19 | 4.7 |
| (1,6555) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 19 | 4.7 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 19 | 4.7 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 20 | 4.7 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 14 | 4.7 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 14 | 4.7 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 14 | 4.7 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 14 | 4.7 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 14 | 4.7 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 14 | 4.7 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 14 | 4.7 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 14 | 4.7 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 14 | 4.7 |
| (1,6205) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 10 | 4.7 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 17 | 4.7 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 17 | 4.7 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 17 | 4.7 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 17 | 4.7 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 17 | 4.7 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 17 | 4.7 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 11 | 4.7 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 11 | 4.7 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 11 | 4.7 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 14 | 4.7 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 14 | 4.7 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 7 | 4.7 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 7 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 7 | 4.7 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 10 | 4.7 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 13 | 4.7 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 13 | 4.7 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 13 | 4.7 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 15 | 4.7 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 15 | 4.7 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 5 | 4.7 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 5 | 4.7 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 7 | 4.7 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 3 | 4.7 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 6 | 4.7 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 6 | 4.7 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 6 | 4.7 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 17 | 4.7 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 9 | 4.7 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 9 | 4.7 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 9 | 4.7 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 18 | 4.7 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 18 | 4.7 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 18 | 4.7 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 10 | 4.7 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 5 | 4.7 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 2 | 4.7 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 18 | 4.7 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 10 | 4.7 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 10 | 4.7 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 10 | 4.7 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 7 | 4.7 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 9 | 4.7 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 12 | 4.7 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 4 | 4.7 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 18 | 4.7 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 18 | 4.7 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 18 | 4.7 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 10 | 4.7 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 10 | 4.7 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 10 | 4.7 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 19 | 4.7 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 19 | 4.7 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 19 | 4.7 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 15 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 15 | 4.7 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 15 | 4.7 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 17 | 4.7 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 17 | 4.7 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 4 | 4.7 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 4 | 4.7 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 4 | 4.7 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 19 | 4.7 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 7 | 4.7 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 7 | 4.7 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 1 | 4.7 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 16 | 4.7 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 16 | 4.7 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 16 | 4.7 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 16 | 4.7 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 3 | 4.7 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 3 | 4.7 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 12 | 4.7 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 12 | 4.7 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 12 | 4.7 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 12 | 4.7 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 12 | 4.7 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 12 | 4.7 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 6 | 4.7 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 6 | 4.7 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 6 | 4.7 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 6 | 4.7 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 6 | 4.7 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 6 | 4.7 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 17 | 4.7 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 17 | 4.7 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 17 | 4.7 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 17 | 4.7 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 17 | 4.7 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 17 | 4.7 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 7 | 4.7 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 16 | 4.7 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 12 | 4.7 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 10 | 4.7 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 15 | 4.7 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 15 | 4.7 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 15 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 15 | 4.7 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 15 | 4.7 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 15 | 4.7 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 4 | 4.7 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 10 | 4.7 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 10 | 4.7 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 2 | 4.7 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 2 | 4.7 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 18 | 4.7 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 18 | 4.7 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 18 | 4.7 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 17 | 4.7 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 17 | 4.7 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 17 | 4.7 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 17 | 4.7 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 17 | 4.7 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 17 | 4.7 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 13 | 4.7 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 13 | 4.7 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 13 | 4.7 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 17 | 4.7 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 17 | 4.7 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 17 | 4.7 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 17 | 4.7 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 17 | 4.7 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 17 | 4.7 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 7 | 4.7 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 7 | 4.7 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 11 | 4.7 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 11 | 4.7 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 16 | 4.7 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 16 | 4.7 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 18 | 4.7 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 18 | 4.7 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 6 | 4.7 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 6 | 4.7 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 6 | 4.7 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 6 | 4.7 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 4.7 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 4.7 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 11 | 4.7 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 11 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 7 | 4.7 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 7 | 4.7 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 9 | 4.7 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 9 | 4.7 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 9 | 4.7 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 4 | 4.7 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 4 | 4.7 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 4 | 4.7 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 4 | 4.7 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 4 | 4.7 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 4 | 4.7 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 13 | 4.7 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 13 | 4.7 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 13 | 4.7 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 7 | 4.7 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 12 | 4.7 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 12 | 4.7 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 12 | 4.7 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 8 | 4.7 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 14 | 4.7 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 7 | 4.7 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 18 | 4.7 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 1 | 4.7 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 1 | 4.7 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 1 | 4.7 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 7 | 4.7 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 7 | 4.7 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 7 | 4.7 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 13 | 4.7 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 19 | 4.7 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 19 | 4.7 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 1 | 4.7 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 1 | 4.7 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 13 | 4.7 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 13 | 4.7 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 13 | 4.7 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 13 | 4.7 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 13 | 4.7 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 13 | 4.7 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 13 | 4.7 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 13 | 4.7 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 13 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 18 | 4.7 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 18 | 4.7 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 5 | 4.7 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 8 | 4.7 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 3 | 4.7 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 19 | 4.7 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 19 | 4.7 |
| (1,2406) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 19 | 4.7 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 19 | 4.7 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 20 | 4.7 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 6 | 4.7 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 6 | 4.7 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 6 | 4.7 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 14 | 4.7 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 14 | 4.7 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 14 | 4.7 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 14 | 4.7 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 14 | 4.7 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 14 | 4.7 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 14 | 4.7 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 14 | 4.7 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 14 | 4.7 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 9 | 4.7 |
| (1,1830) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 10 | 4.7 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 20 | 4.7 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 17 | 4.7 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 17 | 4.7 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 17 | 4.7 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 17 | 4.7 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 17 | 4.7 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 17 | 4.7 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 11 | 4.7 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 11 | 4.7 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 11 | 4.7 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 14 | 4.7 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 14 | 4.7 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 16 | 4.7 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 16 | 4.7 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 16 | 4.7 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 7 | 4.7 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 7 | 4.7 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 7 | 4.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 4.7 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 4.7 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 4.7 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 10 | 4.7 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 13 | 4.7 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 13 | 4.7 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 13 | 4.7 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 15 | 4.7 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 15 | 4.7 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 5 | 4.7 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 5 | 4.7 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 18 | 4.7 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 18 | 4.7 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 7 | 4.7 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 3 | 4.7 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 6 | 4.7 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 6 | 4.7 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 6 | 4.7 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 17 | 4.7 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 15 | 4.69 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 17 | 4.69 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 6 | 4.69 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 6 | 4.69 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 6 | 4.69 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 6 | 4.69 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 6 | 4.69 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 6 | 4.69 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 20 | 4.69 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 20 | 4.69 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 18 | 4.69 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 18 | 4.69 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 1 | 4.69 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 1 | 4.69 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 12 | 4.69 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 12 | 4.69 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 13 | 4.69 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 13 | 4.69 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 4.69 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 4.69 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 4.69 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 4.69 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 4.69 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 10 | 4.69 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 10 | 4.69 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 10 | 4.69 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 10 | 4.69 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 10 | 4.69 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 10 | 4.69 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 17 | 4.69 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 17 | 4.69 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 17 | 4.69 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 17 | 4.69 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 15 | 4.69 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 15 | 4.69 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 15 | 4.69 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 15 | 4.69 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 15 | 4.69 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 15 | 4.69 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 10 | 4.69 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 10 | 4.69 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 10 | 4.69 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 10 | 4.69 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 16 | 4.69 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 16 | 4.69 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 8 | 4.69 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 8 | 4.69 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 8 | 4.69 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 8 | 4.69 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 13 | 4.69 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 13 | 4.69 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 2 | 4.69 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 2 | 4.69 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 4 | 4.69 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 4 | 4.69 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 14 | 4.69 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 14 | 4.69 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 20 | 4.69 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 20 | 4.69 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 12 | 4.69 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 12 | 4.69 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 12 | 4.69 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 12 | 4.69 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 12 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 12 | 4.69 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 12 | 4.69 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 12 | 4.69 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 12 | 4.69 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 12 | 4.69 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 12 | 4.69 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 12 | 4.69 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 17 | 4.69 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 17 | 4.69 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 17 | 4.69 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 17 | 4.69 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 1 | 4.69 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 1 | 4.69 |
| (1,8749) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 2 | 4.69 |
| (1,8749) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 2 | 4.69 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 10 | 4.69 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 10 | 4.69 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 17 | 4.69 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 17 | 4.69 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 1 | 4.69 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 1 | 4.69 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 18 | 4.69 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 18 | 4.69 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 18 | 4.69 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 18 | 4.69 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 13 | 4.69 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 13 | 4.69 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 4 | 4.69 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 4 | 4.69 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 12 | 4.69 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 19 | 4.69 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 9 | 4.69 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 9 | 4.69 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 20 | 4.69 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 2 | 4.69 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 17 | 4.69 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 16 | 4.69 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 16 | 4.69 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 16 | 4.69 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 11 | 4.69 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 17 | 4.69 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 19 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 20 | 4.69 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 20 | 4.69 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 20 | 4.69 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 20 | 4.69 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 20 | 4.69 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 14 | 4.69 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 14 | 4.69 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 1 | 4.69 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 1 | 4.69 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 1 | 4.69 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 6 | 4.69 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 12 | 4.69 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 13 | 4.69 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 13 | 4.69 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 13 | 4.69 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 13 | 4.69 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 11 | 4.69 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 16 | 4.69 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 1 | 4.69 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 1 | 4.69 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 1 | 4.69 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 10 | 4.69 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 14 | 4.69 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 2 | 4.69 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 2 | 4.69 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 2 | 4.69 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 14 | 4.69 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 14 | 4.69 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 10 | 4.69 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 10 | 4.69 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 10 | 4.69 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 10 | 4.69 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 9 | 4.69 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 9 | 4.69 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 19 | 4.69 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 3 | 4.69 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 3 | 4.69 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 3 | 4.69 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 2 | 4.69 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 5 | 4.69 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 13 | 4.69 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 13 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 13 | 4.69 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 18 | 4.69 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 20 | 4.69 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 3 | 4.69 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 3 | 4.69 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 3 | 4.69 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 4 | 4.69 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 1 | 4.69 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 1 | 4.69 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 1 | 4.69 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 16 | 4.69 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 3 | 4.69 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 4 | 4.69 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 4 | 4.69 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 15 | 4.69 |
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 10 | 4.69 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 1 | 4.69 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 1 | 4.69 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 1 | 4.69 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 11 | 4.69 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 11 | 4.69 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 11 | 4.69 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 11 | 4.69 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 11 | 4.69 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 11 | 4.69 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 11 | 4.69 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 11 | 4.69 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 11 | 4.69 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 16 | 4.69 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 20 | 4.69 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 20 | 4.69 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 20 | 4.69 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 9 | 4.69 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 16 | 4.69 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 2 | 4.69 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 14 | 4.69 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 1 | 4.69 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 1 | 4.69 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 1 | 4.69 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 16 | 4.69 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 6 | 4.69 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 6 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 8 | 4.69 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 20 | 4.69 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 13 | 4.69 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 6 | 4.69 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 5 | 4.69 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 10 | 4.69 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 9 | 4.69 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 15 | 4.69 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 15 | 4.69 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 8 | 4.69 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 3 | 4.69 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 3 | 4.69 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 15 | 4.69 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 15 | 4.69 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 15 | 4.69 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 15 | 4.69 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 15 | 4.69 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 5 | 4.69 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 5 | 4.69 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 5 | 4.69 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 19 | 4.69 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 19 | 4.69 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 19 | 4.69 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 19 | 4.69 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 6 | 4.69 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 6 | 4.69 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 6 | 4.69 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 16 | 4.69 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 3 | 4.69 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 3 | 4.69 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 3 | 4.69 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 15 | 4.69 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 1 | 4.69 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 3 | 4.69 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 3 | 4.69 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 3 | 4.69 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 9 | 4.69 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 14 | 4.69 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 15 | 4.69 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 7 | 4.69 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 12 | 4.69 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 10 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 10 | 4.69 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 10 | 4.69 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 11 | 4.69 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 11 | 4.69 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 11 | 4.69 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 10 | 4.69 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 10 | 4.69 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 10 | 4.69 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 11 | 4.69 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 11 | 4.69 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 11 | 4.69 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 13 | 4.69 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 13 | 4.69 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 13 | 4.69 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 11 | 4.69 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 11 | 4.69 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 11 | 4.69 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 17 | 4.69 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 14 | 4.69 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 14 | 4.69 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 14 | 4.69 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 14 | 4.69 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 8 | 4.69 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 7 | 4.69 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 12 | 4.69 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 11 | 4.69 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 11 | 4.69 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 11 | 4.69 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 7 | 4.69 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 15 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 7 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 7 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 7 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 7 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 7 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 7 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 13 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 13 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 13 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 13 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 13 | 4.69 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 13 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 15 | 4.69 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 15 | 4.69 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 15 | 4.69 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 15 | 4.69 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 15 | 4.69 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 15 | 4.69 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 6 | 4.69 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 6 | 4.69 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 6 | 4.69 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 3 | 4.69 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 6 | 4.69 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 1 | 4.69 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 1 | 4.69 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 1 | 4.69 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 1 | 4.69 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 1 | 4.69 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 1 | 4.69 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 4 | 4.69 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 4 | 4.69 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 4 | 4.69 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 11 | 4.69 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 11 | 4.69 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 11 | 4.69 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 5 | 4.69 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 5 | 4.69 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 5 | 4.69 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 5 | 4.69 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 5 | 4.69 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 5 | 4.69 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 5 | 4.69 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 5 | 4.69 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 5 | 4.69 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 5 | 4.69 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 3 | 4.69 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 12 | 4.69 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 13 | 4.69 |
| (1,5015) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 12 | 4.69 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 10 | 4.69 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 10 | 4.69 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 10 | 4.69 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 8 | 4.69 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 8 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 8 | 4.69 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 18 | 4.69 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 11 | 4.69 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 11 | 4.69 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 11 | 4.69 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 11 | 4.69 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 11 | 4.69 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 11 | 4.69 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 11 | 4.69 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 11 | 4.69 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 11 | 4.69 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 8 | 4.69 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 8 | 4.69 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 8 | 4.69 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 8 | 4.69 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 8 | 4.69 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 8 | 4.69 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 8 | 4.69 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 8 | 4.69 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 8 | 4.69 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 8 | 4.69 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 8 | 4.69 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 8 | 4.69 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 10 | 4.69 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 10 | 4.69 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 10 | 4.69 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 10 | 4.69 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 10 | 4.69 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 10 | 4.69 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 10 | 4.69 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 10 | 4.69 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 10 | 4.69 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 6 | 4.69 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 5 | 4.69 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 5 | 4.69 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 5 | 4.69 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 2 | 4.69 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 19 | 4.69 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 16 | 4.69 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 16 | 4.69 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 16 | 4.69 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 1 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 1 | 4.69 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 6 | 4.69 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 6 | 4.69 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 6 | 4.69 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 6 | 4.69 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 6 | 4.69 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 6 | 4.69 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 18 | 4.69 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 18 | 4.69 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 19 | 4.69 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 19 | 4.69 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 7 | 4.69 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 7 | 4.69 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 7 | 4.69 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 7 | 4.69 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 17 | 4.69 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 17 | 4.69 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 17 | 4.69 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 13 | 4.69 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 13 | 4.69 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 4.69 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 4.69 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 4.69 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 4.69 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 4.69 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 4.69 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 12 | 4.69 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 7 | 4.69 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 6 | 4.69 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 13 | 4.69 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 13 | 4.69 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 11 | 4.69 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 11 | 4.69 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 11 | 4.69 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 4 | 4.69 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 4 | 4.69 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 12 | 4.69 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 12 | 4.69 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 12 | 4.69 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 19 | 4.69 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 8 | 4.69 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 8 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 8 | 4.69 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 8 | 4.69 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 9 | 4.69 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 9 | 4.69 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 9 | 4.69 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 9 | 4.69 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 5 | 4.69 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 8 | 4.69 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 13 | 4.69 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 13 | 4.69 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 13 | 4.69 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 17 | 4.69 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 17 | 4.69 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 17 | 4.69 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 13 | 4.69 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 13 | 4.69 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 13 | 4.69 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 16 | 4.69 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 16 | 4.69 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 16 | 4.69 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 7 | 4.69 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 2 | 4.69 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 19 | 4.69 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 12 | 4.69 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 12 | 4.69 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 12 | 4.69 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 12 | 4.69 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 12 | 4.69 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 12 | 4.69 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 17 | 4.69 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 17 | 4.69 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 17 | 4.69 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 17 | 4.69 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 1 | 4.69 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 1 | 4.69 |
| (1,3718) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 2 | 4.69 |
| (1,3718) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 2 | 4.69 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 4 | 4.69 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 4 | 4.69 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 18 | 4.69 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 18 | 4.69 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 18 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 18 | 4.69 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 18 | 4.69 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 3 | 4.69 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 3 | 4.69 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 15 | 4.69 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 15 | 4.69 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 6 | 4.69 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 15 | 4.69 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 15 | 4.69 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 15 | 4.69 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 5 | 4.69 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 5 | 4.69 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 5 | 4.69 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 19 | 4.69 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 19 | 4.69 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 19 | 4.69 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 5 | 4.69 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 19 | 4.69 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 2 | 4.69 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 2 | 4.69 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 6 | 4.69 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 6 | 4.69 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 6 | 4.69 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 16 | 4.69 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 3 | 4.69 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 3 | 4.69 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 3 | 4.69 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 15 | 4.69 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 3 | 4.69 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 3 | 4.69 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 3 | 4.69 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 3 | 4.69 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 3 | 4.69 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 3 | 4.69 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 9 | 4.69 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 14 | 4.69 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 15 | 4.69 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 4 | 4.69 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 4 | 4.69 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 4 | 4.69 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 4 | 4.69 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 4 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 4 | 4.69 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 4 | 4.69 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 4 | 4.69 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 4 | 4.69 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 7 | 4.69 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 10 | 4.69 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 10 | 4.69 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 10 | 4.69 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 11 | 4.69 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 11 | 4.69 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 11 | 4.69 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 10 | 4.69 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 10 | 4.69 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 10 | 4.69 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 11 | 4.69 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 11 | 4.69 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 11 | 4.69 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 14 | 4.69 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 14 | 4.69 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 14 | 4.69 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 13 | 4.69 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 13 | 4.69 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 13 | 4.69 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 18 | 4.69 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 18 | 4.69 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 18 | 4.69 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 9 | 4.69 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 18 | 4.69 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 7 | 4.69 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 7 | 4.69 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 7 | 4.69 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 6 | 4.69 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 6 | 4.69 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 6 | 4.69 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 6 | 4.69 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 6 | 4.69 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 13 | 4.69 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 17 | 4.69 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 14 | 4.69 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 14 | 4.69 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 8 | 4.69 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 8 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 14 | 4.69 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 14 | 4.69 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 8 | 4.69 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 7 | 4.69 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 12 | 4.69 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 1 | 4.69 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 10 | 4.69 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 11 | 4.69 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 11 | 4.69 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 11 | 4.69 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 18 | 4.69 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 7 | 4.69 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 15 | 4.69 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 7 | 4.69 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 7 | 4.69 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 7 | 4.69 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 7 | 4.69 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 7 | 4.69 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 7 | 4.69 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 13 | 4.69 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 13 | 4.69 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 13 | 4.69 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 13 | 4.69 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 13 | 4.69 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 13 | 4.69 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 1 | 4.69 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 1 | 4.69 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 1 | 4.69 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 15 | 4.69 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 15 | 4.69 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 15 | 4.69 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 15 | 4.69 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 15 | 4.69 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 15 | 4.69 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 6 | 4.69 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 6 | 4.69 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 6 | 4.69 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 1 | 4.69 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 3 | 4.69 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 18 | 4.69 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 6 | 4.69 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 1 | 4.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 1 | 4.69 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 1 | 4.69 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 1 | 4.69 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 1 | 4.69 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 1 | 4.69 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 19 | 4.69 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 19 | 4.69 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 19 | 4.69 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 16 | 4.68 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 5 | 4.68 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 2 | 4.68 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 2 | 4.68 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 2 | 4.68 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 2 | 4.68 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 2 | 4.68 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 2 | 4.68 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 5 | 4.68 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 5 | 4.68 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 5 | 4.68 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 5 | 4.68 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 5 | 4.68 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 5 | 4.68 |
| (1,9525) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 19 | 4.68 |
| (1,9525) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 19 | 4.68 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 3 | 4.68 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 3 | 4.68 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 3 | 4.68 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 3 | 4.68 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 9 | 4.68 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 9 | 4.68 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 18 | 4.68 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 18 | 4.68 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 9 | 4.68 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 9 | 4.68 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 11 | 4.68 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 11 | 4.68 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 18 | 4.68 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 18 | 4.68 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 18 | 4.68 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 18 | 4.68 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 18 | 4.68 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 18 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 2 | 4.68 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 2 | 4.68 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 2 | 4.68 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 2 | 4.68 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 2 | 4.68 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 2 | 4.68 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 13 | 4.68 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 13 | 4.68 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 13 | 4.68 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 13 | 4.68 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 3 | 4.68 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 3 | 4.68 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 3 | 4.68 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 3 | 4.68 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 3 | 4.68 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 3 | 4.68 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 3 | 4.68 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 3 | 4.68 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 7 | 4.68 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 7 | 4.68 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 14 | 4.68 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 14 | 4.68 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 11 | 4.68 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 11 | 4.68 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 18 | 4.68 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 18 | 4.68 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 4.68 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 20 | 4.68 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 14 | 4.68 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 14 | 4.68 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 14 | 4.68 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 14 | 4.68 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 14 | 4.68 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 14 | 4.68 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 5 | 4.68 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 5 | 4.68 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 11 | 4.68 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 11 | 4.68 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 11 | 4.68 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 11 | 4.68 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 11 | 4.68 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 11 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 7 | 4.68 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 7 | 4.68 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 18 | 4.68 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 18 | 4.68 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 18 | 4.68 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 18 | 4.68 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 18 | 4.68 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 18 | 4.68 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 17 | 4.68 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 17 | 4.68 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 3 | 4.68 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 3 | 4.68 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 6 | 4.68 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 6 | 4.68 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 17 | 4.68 |
| (1,8687) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 17 | 4.68 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 17 | 4.68 |
| (1,8687) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 17 | 4.68 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 13 | 4.68 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 13 | 4.68 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 8 | 4.68 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 8 | 4.68 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 8 | 4.68 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 8 | 4.68 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 13 | 4.68 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 13 | 4.68 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 19 | 4.68 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 19 | 4.68 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 15 | 4.68 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 15 | 4.68 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 7 | 4.68 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 7 | 4.68 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 10 | 4.68 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 10 | 4.68 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 19 | 4.68 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 12 | 4.68 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 16 | 4.68 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 6 | 4.68 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 1 | 4.68 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 15 | 4.68 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 17 | 4.68 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 17 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 17 | 4.68 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 3 | 4.68 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 8 | 4.68 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 1 | 4.68 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 19 | 4.68 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 19 | 4.68 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 19 | 4.68 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 13 | 4.68 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 10 | 4.68 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 10 | 4.68 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 10 | 4.68 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 14 | 4.68 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 16 | 4.68 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 19 | 4.68 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 20 | 4.68 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 1 | 4.68 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 1 | 4.68 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 1 | 4.68 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 1 | 4.68 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 5 | 4.68 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 5 | 4.68 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 15 | 4.68 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 19 | 4.68 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 11 | 4.68 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 11 | 4.68 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 11 | 4.68 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 11 | 4.68 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 11 | 4.68 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 11 | 4.68 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 11 | 4.68 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 11 | 4.68 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 11 | 4.68 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 11 | 4.68 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 12 | 4.68 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 12 | 4.68 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 15 | 4.68 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 15 | 4.68 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 13 | 4.68 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 13 | 4.68 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 13 | 4.68 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 13 | 4.68 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 16 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 9 | 4.68 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 18 | 4.68 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 2 | 4.68 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 2 | 4.68 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 2 | 4.68 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 17 | 4.68 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 19 | 4.68 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 6 | 4.68 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 19 | 4.68 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 19 | 4.68 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 20 | 4.68 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 20 | 4.68 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 15 | 4.68 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 18 | 4.68 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 18 | 4.68 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 18 | 4.68 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 9 | 4.68 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 9 | 4.68 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 9 | 4.68 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 16 | 4.68 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 12 | 4.68 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 12 | 4.68 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 12 | 4.68 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 4 | 4.68 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 4 | 4.68 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 13 | 4.68 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 13 | 4.68 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 1 | 4.68 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 2 | 4.68 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 14 | 4.68 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 11 | 4.68 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 11 | 4.68 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 11 | 4.68 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 19 | 4.68 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 17 | 4.68 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 6 | 4.68 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 17 | 4.68 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 13 | 4.68 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 13 | 4.68 |
| (1,7517) | 1:14:A:ARG:H | 1:15:A:MET:HA | 17 | 4.68 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 17 | 4.68 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 6 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 6 | 4.68 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 16 | 4.68 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 16 | 4.68 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 1 | 4.68 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 11 | 4.68 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 6 | 4.68 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 5 | 4.68 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 5 | 4.68 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 5 | 4.68 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 9 | 4.68 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 9 | 4.68 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 9 | 4.68 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 14 | 4.68 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 16 | 4.68 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 16 | 4.68 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 16 | 4.68 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 20 | 4.68 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 20 | 4.68 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 4 | 4.68 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 4 | 4.68 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 4 | 4.68 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 16 | 4.68 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 14 | 4.68 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 14 | 4.68 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 14 | 4.68 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 20 | 4.68 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 20 | 4.68 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 20 | 4.68 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 2 | 4.68 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 2 | 4.68 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 2 | 4.68 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 7 | 4.68 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 7 | 4.68 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 2 | 4.68 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 16 | 4.68 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 20 | 4.68 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 20 | 4.68 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 20 | 4.68 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 20 | 4.68 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 8 | 4.68 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 10 | 4.68 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 10 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 12 | 4.68 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 13 | 4.68 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 14 | 4.68 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 14 | 4.68 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 14 | 4.68 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 16 | 4.68 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 16 | 4.68 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 16 | 4.68 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 16 | 4.68 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 16 | 4.68 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 16 | 4.68 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 15 | 4.68 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 9 | 4.68 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 10 | 4.68 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 14 | 4.68 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 13 | 4.68 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 12 | 4.68 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 12 | 4.68 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 12 | 4.68 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 19 | 4.68 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 19 | 4.68 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 19 | 4.68 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 8 | 4.68 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 8 | 4.68 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 8 | 4.68 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 10 | 4.68 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 10 | 4.68 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 10 | 4.68 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 15 | 4.68 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 15 | 4.68 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 15 | 4.68 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 18 | 4.68 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 18 | 4.68 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 18 | 4.68 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 16 | 4.68 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 16 | 4.68 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 20 | 4.68 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 20 | 4.68 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 20 | 4.68 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 11 | 4.68 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 11 | 4.68 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 11 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 14 | 4.68 |
| (1,5934) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 13 | 4.68 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 1 | 4.68 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 6 | 4.68 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 10 | 4.68 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 19 | 4.68 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 19 | 4.68 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 19 | 4.68 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 2 | 4.68 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 2 | 4.68 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 2 | 4.68 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 3 | 4.68 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 3 | 4.68 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 3 | 4.68 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 2 | 4.68 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 1 | 4.68 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 1 | 4.68 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 1 | 4.68 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 16 | 4.68 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 16 | 4.68 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 16 | 4.68 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 9 | 4.68 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 2 | 4.68 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 19 | 4.68 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 19 | 4.68 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 19 | 4.68 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 19 | 4.68 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 19 | 4.68 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 19 | 4.68 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 6 | 4.68 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 6 | 4.68 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 6 | 4.68 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 7 | 4.68 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 7 | 4.68 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 7 | 4.68 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 11 | 4.68 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 11 | 4.68 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 11 | 4.68 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 19 | 4.68 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 11 | 4.68 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 11 | 4.68 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 11 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 1 | 4.68 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 1 | 4.68 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 1 | 4.68 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 15 | 4.68 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 15 | 4.68 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 15 | 4.68 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 20 | 4.68 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 20 | 4.68 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 20 | 4.68 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 17 | 4.68 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 17 | 4.68 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 17 | 4.68 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 9 | 4.68 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 3 | 4.68 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 10 | 4.68 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 12 | 4.68 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 12 | 4.68 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 12 | 4.68 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 12 | 4.68 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 12 | 4.68 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 12 | 4.68 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 12 | 4.68 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 12 | 4.68 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 12 | 4.68 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 20 | 4.68 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 1 | 4.68 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 19 | 4.68 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 12 | 4.68 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 12 | 4.68 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 12 | 4.68 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 12 | 4.68 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 6 | 4.68 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 6 | 4.68 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 6 | 4.68 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 6 | 4.68 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 6 | 4.68 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 9 | 4.68 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 8 | 4.68 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 8 | 4.68 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 8 | 4.68 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 8 | 4.68 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 8 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 8 | 4.68 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 11 | 4.68 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 2 | 4.68 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 2 | 4.68 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 2 | 4.68 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 2 | 4.68 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 2 | 4.68 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 2 | 4.68 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 2 | 4.68 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 2 | 4.68 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 18 | 4.68 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 18 | 4.68 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 9 | 4.68 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 9 | 4.68 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 18 | 4.68 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 18 | 4.68 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 18 | 4.68 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 18 | 4.68 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 18 | 4.68 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 18 | 4.68 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 12 | 4.68 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 2 | 4.68 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 2 | 4.68 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 2 | 4.68 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 2 | 4.68 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 2 | 4.68 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 2 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 4.68 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 4.68 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 8 | 4.68 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 5 | 4.68 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 14 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 14 | 4.68 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 14 | 4.68 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 11 | 4.68 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 11 | 4.68 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 9 | 4.68 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 4.68 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 18 | 4.68 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 18 | 4.68 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 4.68 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 20 | 4.68 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 5 | 4.68 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 5 | 4.68 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 8 | 4.68 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 2 | 4.68 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 12 | 4.68 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 12 | 4.68 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 12 | 4.68 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 11 | 4.68 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 11 | 4.68 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 11 | 4.68 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 11 | 4.68 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 11 | 4.68 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 11 | 4.68 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 15 | 4.68 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 18 | 4.68 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 18 | 4.68 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 18 | 4.68 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 18 | 4.68 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 18 | 4.68 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 18 | 4.68 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 8 | 4.68 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 8 | 4.68 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 8 | 4.68 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 9 | 4.68 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 9 | 4.68 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 9 | 4.68 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 9 | 4.68 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 13 | 4.68 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 13 | 4.68 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 19 | 4.68 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 19 | 4.68 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 9 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 9 | 4.68 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 9 | 4.68 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 13 | 4.68 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 16 | 4.68 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 14 | 4.68 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 1 | 4.68 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 16 | 4.68 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 16 | 4.68 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 16 | 4.68 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 12 | 4.68 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 12 | 4.68 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 12 | 4.68 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 18 | 4.68 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 18 | 4.68 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 20 | 4.68 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 20 | 4.68 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 4 | 4.68 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 4 | 4.68 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 4 | 4.68 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 16 | 4.68 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 14 | 4.68 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 14 | 4.68 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 14 | 4.68 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 20 | 4.68 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 20 | 4.68 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 20 | 4.68 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 2 | 4.68 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 2 | 4.68 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 2 | 4.68 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 7 | 4.68 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 7 | 4.68 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 2 | 4.68 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 16 | 4.68 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 20 | 4.68 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 20 | 4.68 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 20 | 4.68 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 11 | 4.68 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 11 | 4.68 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 20 | 4.68 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 8 | 4.68 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 10 | 4.68 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 10 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 12 | 4.68 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 13 | 4.68 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 14 | 4.68 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 14 | 4.68 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 14 | 4.68 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 15 | 4.68 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 10 | 4.68 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 14 | 4.68 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 13 | 4.68 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 1 | 4.68 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 16 | 4.68 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 16 | 4.68 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 16 | 4.68 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 18 | 4.68 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 12 | 4.68 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 12 | 4.68 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 12 | 4.68 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 19 | 4.68 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 19 | 4.68 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 19 | 4.68 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 8 | 4.68 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 8 | 4.68 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 8 | 4.68 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 10 | 4.68 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 10 | 4.68 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 10 | 4.68 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 15 | 4.68 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 15 | 4.68 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 15 | 4.68 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 17 | 4.68 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 17 | 4.68 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 17 | 4.68 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 18 | 4.68 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 18 | 4.68 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 18 | 4.68 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 5 | 4.68 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 16 | 4.68 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 16 | 4.68 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 20 | 4.68 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 20 | 4.68 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 20 | 4.68 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 13 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 13 | 4.68 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 13 | 4.68 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 11 | 4.68 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 11 | 4.68 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 11 | 4.68 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 17 | 4.68 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 14 | 4.68 |
| (1,1360) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 13 | 4.68 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 1 | 4.68 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 6 | 4.68 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 10 | 4.68 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 12 | 4.68 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 12 | 4.68 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 19 | 4.68 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 19 | 4.68 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 19 | 4.68 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 4 | 4.68 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 18 | 4.68 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 2 | 4.68 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 2 | 4.68 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 2 | 4.68 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 3 | 4.68 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 3 | 4.68 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 3 | 4.68 |
| (1,932) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 14 | 4.68 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 2 | 4.68 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 6 | 4.68 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 6 | 4.68 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 6 | 4.68 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 1 | 4.68 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 1 | 4.68 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 1 | 4.68 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 16 | 4.68 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 16 | 4.68 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 16 | 4.68 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 9 | 4.68 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 3 | 4.68 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 2 | 4.68 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 19 | 4.68 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 19 | 4.68 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 19 | 4.68 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 19 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 19 | 4.68 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 19 | 4.68 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 20 | 4.68 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 19 | 4.68 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 19 | 4.68 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 19 | 4.68 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 5 | 4.67 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 6 | 4.67 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 19 | 4.67 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 18 | 4.67 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 7 | 4.67 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 7 | 4.67 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 15 | 4.67 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 15 | 4.67 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 8 | 4.67 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 8 | 4.67 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG12 | 13 | 4.67 |
| (1,9592) | 1:155:A:GLY:H | 1:156:A:ILE:HG13 | 13 | 4.67 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 17 | 4.67 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 17 | 4.67 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 17 | 4.67 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 17 | 4.67 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 17 | 4.67 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 17 | 4.67 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 18 | 4.67 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 18 | 4.67 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 18 | 4.67 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 18 | 4.67 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 18 | 4.67 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 18 | 4.67 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 15 | 4.67 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 15 | 4.67 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 9 | 4.67 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 9 | 4.67 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 9 | 4.67 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 9 | 4.67 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 9 | 4.67 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 9 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 14 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 14 | 4.67 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 14 | 4.67 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 5 | 4.67 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 5 | 4.67 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 5 | 4.67 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 5 | 4.67 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 13 | 4.67 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 13 | 4.67 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 17 | 4.67 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 17 | 4.67 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 2 | 4.67 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 2 | 4.67 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 20 | 4.67 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 20 | 4.67 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 18 | 4.67 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 18 | 4.67 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 18 | 4.67 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 18 | 4.67 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 6 | 4.67 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 6 | 4.67 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 4 | 4.67 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 4 | 4.67 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 4 | 4.67 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 4 | 4.67 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 7 | 4.67 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 7 | 4.67 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 4.67 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 4.67 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 3 | 4.67 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 3 | 4.67 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 3 | 4.67 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 3 | 4.67 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 3 | 4.67 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 3 | 4.67 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 8 | 4.67 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 8 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 19 | 4.67 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 19 | 4.67 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 12 | 4.67 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 12 | 4.67 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 10 | 4.67 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 10 | 4.67 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 11 | 4.67 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 11 | 4.67 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 11 | 4.67 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 11 | 4.67 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 11 | 4.67 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 11 | 4.67 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 19 | 4.67 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 19 | 4.67 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 1 | 4.67 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 1 | 4.67 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 1 | 4.67 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 1 | 4.67 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 2 | 4.67 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 2 | 4.67 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 2 | 4.67 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 2 | 4.67 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 1 | 4.67 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 1 | 4.67 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 7 | 4.67 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 7 | 4.67 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 5 | 4.67 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 5 | 4.67 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 4 | 4.67 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 4 | 4.67 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 15 | 4.67 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 15 | 4.67 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 3 | 4.67 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 3 | 4.67 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 3 | 4.67 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 3 | 4.67 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 3 | 4.67 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 3 | 4.67 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 6 | 4.67 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 6 | 4.67 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 6 | 4.67 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 6 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 6 | 4.67 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 6 | 4.67 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 9 | 4.67 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 9 | 4.67 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 19 | 4.67 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 19 | 4.67 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 8 | 4.67 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 8 | 4.67 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 5 | 4.67 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 5 | 4.67 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 18 | 4.67 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 18 | 4.67 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 7 | 4.67 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 7 | 4.67 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 4 | 4.67 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 4 | 4.67 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 9 | 4.67 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 9 | 4.67 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 9 | 4.67 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 14 | 4.67 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 19 | 4.67 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 13 | 4.67 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 4 | 4.67 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 4 | 4.67 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 7 | 4.67 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 7 | 4.67 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 9 | 4.67 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 9 | 4.67 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 9 | 4.67 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 10 | 4.67 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 6 | 4.67 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 6 | 4.67 |
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 17 | 4.67 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 17 | 4.67 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 17 | 4.67 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 1 | 4.67 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 10 | 4.67 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 15 | 4.67 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 2 | 4.67 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 7 | 4.67 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 7 | 4.67 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 7 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 16 | 4.67 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 16 | 4.67 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 8 | 4.67 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 8 | 4.67 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 8 | 4.67 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 4 | 4.67 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 3 | 4.67 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 3 | 4.67 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 3 | 4.67 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 9 | 4.67 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 17 | 4.67 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 17 | 4.67 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 20 | 4.67 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 20 | 4.67 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 20 | 4.67 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 5 | 4.67 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 12 | 4.67 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 10 | 4.67 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 3 | 4.67 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 9 | 4.67 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 9 | 4.67 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 17 | 4.67 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 12 | 4.67 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 12 | 4.67 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 12 | 4.67 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 17 | 4.67 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 1 | 4.67 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 10 | 4.67 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 10 | 4.67 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 2 | 4.67 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 2 | 4.67 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 2 | 4.67 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 17 | 4.67 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 17 | 4.67 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 17 | 4.67 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 7 | 4.67 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 15 | 4.67 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 15 | 4.67 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 15 | 4.67 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 15 | 4.67 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 15 | 4.67 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 15 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 15 | 4.67 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 15 | 4.67 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 15 | 4.67 |
| (1,7819) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 2 | 4.67 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 5 | 4.67 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 5 | 4.67 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 5 | 4.67 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 19 | 4.67 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 19 | 4.67 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 19 | 4.67 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 19 | 4.67 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 19 | 4.67 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 19 | 4.67 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 2 | 4.67 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 19 | 4.67 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 19 | 4.67 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 17 | 4.67 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 9 | 4.67 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 10 | 4.67 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 10 | 4.67 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 14 | 4.67 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 3 | 4.67 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 4 | 4.67 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 10 | 4.67 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 10 | 4.67 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 4 | 4.67 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 4 | 4.67 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 16 | 4.67 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 13 | 4.67 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 16 | 4.67 |
| (1,7323) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 16 | 4.67 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 11 | 4.67 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 11 | 4.67 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 1 | 4.67 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 14 | 4.67 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 19 | 4.67 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 6 | 4.67 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 6 | 4.67 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 11 | 4.67 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 11 | 4.67 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 3 | 4.67 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 12 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 12 | 4.67 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 3 | 4.67 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 3 | 4.67 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 3 | 4.67 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 16 | 4.67 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 16 | 4.67 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 16 | 4.67 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 3 | 4.67 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 3 | 4.67 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 3 | 4.67 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 7 | 4.67 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 4.67 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 16 | 4.67 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 10 | 4.67 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 10 | 4.67 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 19 | 4.67 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 7 | 4.67 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 7 | 4.67 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 7 | 4.67 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 10 | 4.67 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 10 | 4.67 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 6 | 4.67 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 17 | 4.67 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 19 | 4.67 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 7 | 4.67 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 7 | 4.67 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 7 | 4.67 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 11 | 4.67 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 11 | 4.67 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 11 | 4.67 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 2 | 4.67 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 18 | 4.67 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 17 | 4.67 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 17 | 4.67 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 17 | 4.67 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 1 | 4.67 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 1 | 4.67 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 1 | 4.67 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 12 | 4.67 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 12 | 4.67 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 12 | 4.67 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 7 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 15 | 4.67 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 19 | 4.67 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 12 | 4.67 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 12 | 4.67 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 12 | 4.67 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 6 | 4.67 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 14 | 4.67 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 20 | 4.67 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 14 | 4.67 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 18 | 4.67 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 3 | 4.67 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 3 | 4.67 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 3 | 4.67 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 17 | 4.67 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 17 | 4.67 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 17 | 4.67 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 8 | 4.67 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 8 | 4.67 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 8 | 4.67 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 15 | 4.67 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 11 | 4.67 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 11 | 4.67 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 11 | 4.67 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 7 | 4.67 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 7 | 4.67 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 7 | 4.67 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 1 | 4.67 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 1 | 4.67 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 1 | 4.67 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 8 | 4.67 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 18 | 4.67 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 20 | 4.67 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 20 | 4.67 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 20 | 4.67 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 20 | 4.67 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 15 | 4.67 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 8 | 4.67 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 8 | 4.67 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 8 | 4.67 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 19 | 4.67 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 19 | 4.67 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 19 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 10 | 4.67 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 10 | 4.67 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 10 | 4.67 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 20 | 4.67 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 20 | 4.67 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 20 | 4.67 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 17 | 4.67 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 12 | 4.67 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 1 | 4.67 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 11 | 4.67 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 16 | 4.67 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 10 | 4.67 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 6 | 4.67 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 5 | 4.67 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 7 | 4.67 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 14 | 4.67 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 12 | 4.67 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 16 | 4.67 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 16 | 4.67 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 11 | 4.67 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 11 | 4.67 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 11 | 4.67 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 3 | 4.67 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 3 | 4.67 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 3 | 4.67 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 19 | 4.67 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 1 | 4.67 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 1 | 4.67 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 1 | 4.67 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 19 | 4.67 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 19 | 4.67 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 19 | 4.67 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 4.67 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 4.67 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 4.67 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 8 | 4.67 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 8 | 4.67 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 18 | 4.67 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 18 | 4.67 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 18 | 4.67 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 18 | 4.67 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 18 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 18 | 4.67 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 18 | 4.67 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 15 | 4.67 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 15 | 4.67 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 9 | 4.67 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 9 | 4.67 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 9 | 4.67 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 9 | 4.67 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 9 | 4.67 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 9 | 4.67 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 5 | 4.67 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 5 | 4.67 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 5 | 4.67 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 5 | 4.67 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 2 | 4.67 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 2 | 4.67 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 16 | 4.67 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 16 | 4.67 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 16 | 4.67 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 17 | 4.67 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 18 | 4.67 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 18 | 4.67 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 18 | 4.67 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 18 | 4.67 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 6 | 4.67 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 6 | 4.67 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 8 | 4.67 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 8 | 4.67 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 8 | 4.67 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 8 | 4.67 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 4.67 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 4.67 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 4.67 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 4.67 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 4.67 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 4.67 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 19 | 4.67 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 19 | 4.67 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 19 | 4.67 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 19 | 4.67 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 19 | 4.67 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 19 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4184) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 13 | 4.67 |
| (1,4182) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 13 | 4.67 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 12 | 4.67 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 8 | 4.67 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 4.67 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 4.67 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 3 | 4.67 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 3 | 4.67 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 3 | 4.67 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 3 | 4.67 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 3 | 4.67 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 3 | 4.67 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 6 | 4.67 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 6 | 4.67 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 6 | 4.67 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 4 | 4.67 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 9 | 4.67 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 1 | 4.67 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 6 | 4.67 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 6 | 4.67 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 6 | 4.67 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 6 | 4.67 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 4 | 4.67 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 10 | 4.67 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 10 | 4.67 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 19 | 4.67 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 19 | 4.67 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 1 | 4.67 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 2 | 4.67 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 2 | 4.67 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 2 | 4.67 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 1 | 4.67 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 1 | 4.67 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 1 | 4.67 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 9 | 4.67 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 1 | 4.67 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 1 | 4.67 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 6 | 4.67 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 6 | 4.67 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 3 | 4.67 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 3 | 4.67 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 3 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 3 | 4.67 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 3 | 4.67 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 3 | 4.67 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 19 | 4.67 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 11 | 4.67 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 14 | 4.67 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 19 | 4.67 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 19 | 4.67 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 19 | 4.67 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 19 | 4.67 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 19 | 4.67 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 19 | 4.67 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 1 | 4.67 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 14 | 4.67 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 2 | 4.67 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 19 | 4.67 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 6 | 4.67 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 6 | 4.67 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 11 | 4.67 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 11 | 4.67 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 3 | 4.67 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 12 | 4.67 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 12 | 4.67 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 3 | 4.67 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 3 | 4.67 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 3 | 4.67 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 16 | 4.67 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 16 | 4.67 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 16 | 4.67 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 3 | 4.67 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 3 | 4.67 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 3 | 4.67 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 7 | 4.67 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 4.67 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 16 | 4.67 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 10 | 4.67 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 10 | 4.67 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 20 | 4.67 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 20 | 4.67 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 20 | 4.67 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 20 | 4.67 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 20 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 20 | 4.67 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 1 | 4.67 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 1 | 4.67 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 1 | 4.67 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 1 | 4.67 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 1 | 4.67 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 1 | 4.67 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 12 | 4.67 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 12 | 4.67 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 19 | 4.67 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 7 | 4.67 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 7 | 4.67 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 7 | 4.67 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 15 | 4.67 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 15 | 4.67 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 10 | 4.67 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 10 | 4.67 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 2 | 4.67 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 4 | 4.67 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 19 | 4.67 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 9 | 4.67 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 9 | 4.67 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 9 | 4.67 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 9 | 4.67 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 1 | 4.67 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 1 | 4.67 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 1 | 4.67 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 3 | 4.67 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 3 | 4.67 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 3 | 4.67 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 6 | 4.67 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 17 | 4.67 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 19 | 4.67 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 7 | 4.67 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 7 | 4.67 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 7 | 4.67 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 11 | 4.67 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 11 | 4.67 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 11 | 4.67 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 2 | 4.67 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 18 | 4.67 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 17 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 17 | 4.67 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 17 | 4.67 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 1 | 4.67 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 1 | 4.67 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 1 | 4.67 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 12 | 4.67 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 12 | 4.67 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 12 | 4.67 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 13 | 4.67 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 13 | 4.67 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 13 | 4.67 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 20 | 4.67 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 7 | 4.67 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 12 | 4.67 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 12 | 4.67 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 12 | 4.67 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 16 | 4.67 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 16 | 4.67 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 16 | 4.67 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 16 | 4.67 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 16 | 4.67 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 16 | 4.67 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 15 | 4.67 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 19 | 4.67 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 12 | 4.67 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 12 | 4.67 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 12 | 4.67 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 6 | 4.67 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 3 | 4.67 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 3 | 4.67 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 14 | 4.67 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 20 | 4.67 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 14 | 4.67 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 18 | 4.67 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 5 | 4.67 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 7 | 4.67 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 9 | 4.67 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 20 | 4.67 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 3 | 4.67 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 3 | 4.67 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 3 | 4.67 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 17 | 4.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 17 | 4.67 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 17 | 4.67 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 8 | 4.67 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 8 | 4.67 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 8 | 4.67 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 4.67 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 15 | 4.67 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 11 | 4.67 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 11 | 4.67 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 11 | 4.67 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 7 | 4.67 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 7 | 4.67 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 7 | 4.67 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 1 | 4.67 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 1 | 4.67 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 1 | 4.67 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 6 | 4.67 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 8 | 4.67 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 18 | 4.67 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 20 | 4.67 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 20 | 4.67 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 20 | 4.67 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 20 | 4.67 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 15 | 4.67 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 17 | 4.67 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 18 | 4.66 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 18 | 4.66 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 3 | 4.66 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 3 | 4.66 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 3 | 4.66 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 3 | 4.66 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 3 | 4.66 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 3 | 4.66 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 4.66 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 4 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 4 | 4.66 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 4 | 4.66 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 18 | 4.66 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 18 | 4.66 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 17 | 4.66 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 17 | 4.66 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 16 | 4.66 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 16 | 4.66 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 16 | 4.66 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 16 | 4.66 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 9 | 4.66 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 9 | 4.66 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 7 | 4.66 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 7 | 4.66 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 13 | 4.66 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 13 | 4.66 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 1 | 4.66 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 1 | 4.66 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 1 | 4.66 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 1 | 4.66 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 1 | 4.66 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 1 | 4.66 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 20 | 4.66 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 20 | 4.66 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 9 | 4.66 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 9 | 4.66 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 17 | 4.66 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 17 | 4.66 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 8 | 4.66 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 8 | 4.66 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 20 | 4.66 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 20 | 4.66 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 15 | 4.66 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 15 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 6 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 6 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 6 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 6 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 6 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 6 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 15 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 15 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 15 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 15 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 15 | 4.66 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 15 | 4.66 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 16 | 4.66 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 16 | 4.66 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 16 | 4.66 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 16 | 4.66 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 16 | 4.66 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 16 | 4.66 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 17 | 4.66 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 17 | 4.66 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 19 | 4.66 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 19 | 4.66 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 1 | 4.66 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 1 | 4.66 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 1 | 4.66 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 1 | 4.66 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 2 | 4.66 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 2 | 4.66 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 1 | 4.66 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 1 | 4.66 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 1 | 4.66 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 1 | 4.66 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 17 | 4.66 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 17 | 4.66 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 15 | 4.66 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 15 | 4.66 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 9 | 4.66 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 9 | 4.66 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 16 | 4.66 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 16 | 4.66 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 3 | 4.66 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 3 | 4.66 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 3 | 4.66 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 3 | 4.66 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 3 | 4.66 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 3 | 4.66 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 13 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 13 | 4.66 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 11 | 4.66 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 11 | 4.66 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 10 | 4.66 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 10 | 4.66 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 2 | 4.66 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 6 | 4.66 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 6 | 4.66 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 6 | 4.66 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 6 | 4.66 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 6 | 4.66 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 6 | 4.66 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 14 | 4.66 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 14 | 4.66 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 14 | 4.66 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 14 | 4.66 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 14 | 4.66 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 14 | 4.66 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 15 | 4.66 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 6 | 4.66 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 6 | 4.66 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 6 | 4.66 |
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 16 | 4.66 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 8 | 4.66 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 8 | 4.66 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 13 | 4.66 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 13 | 4.66 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 13 | 4.66 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 20 | 4.66 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 2 | 4.66 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 2 | 4.66 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 2 | 4.66 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 2 | 4.66 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 2 | 4.66 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 2 | 4.66 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 15 | 4.66 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 15 | 4.66 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 6 | 4.66 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 20 | 4.66 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 20 | 4.66 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 20 | 4.66 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 6 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 17 | 4.66 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 6 | 4.66 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 7 | 4.66 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 5 | 4.66 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 5 | 4.66 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 8 | 4.66 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 16 | 4.66 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 7 | 4.66 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 17 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 2 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 2 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 2 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 2 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 2 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 2 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 2 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 2 | 4.66 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 2 | 4.66 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 15 | 4.66 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 20 | 4.66 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 19 | 4.66 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 19 | 4.66 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 19 | 4.66 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 18 | 4.66 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 18 | 4.66 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 18 | 4.66 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 12 | 4.66 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 12 | 4.66 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 12 | 4.66 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 12 | 4.66 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 4 | 4.66 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 4 | 4.66 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 4 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 17 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 17 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 17 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 17 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 17 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 17 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 19 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 19 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 19 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 19 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 19 | 4.66 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 19 | 4.66 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 17 | 4.66 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 3 | 4.66 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 3 | 4.66 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 9 | 4.66 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 9 | 4.66 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 10 | 4.66 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 9 | 4.66 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 9 | 4.66 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 9 | 4.66 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 12 | 4.66 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 12 | 4.66 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 12 | 4.66 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 12 | 4.66 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 12 | 4.66 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 12 | 4.66 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 12 | 4.66 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 12 | 4.66 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 12 | 4.66 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 13 | 4.66 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 6 | 4.66 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 12 | 4.66 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 12 | 4.66 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 12 | 4.66 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 1 | 4.66 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 1 | 4.66 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 1 | 4.66 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 9 | 4.66 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 9 | 4.66 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 9 | 4.66 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 9 | 4.66 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 9 | 4.66 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 9 | 4.66 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 9 | 4.66 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 9 | 4.66 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 9 | 4.66 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 16 | 4.66 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 16 | 4.66 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 8 | 4.66 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 18 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7651) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 20 | 4.66 |
| (1,7651) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 20 | 4.66 |
| (1,7651) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 20 | 4.66 |
| (1,7628) | 1:27:A:HIS:H | 1:28:A:ILE:HA | 4 | 4.66 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 9 | 4.66 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 9 | 4.66 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 2 | 4.66 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 2 | 4.66 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 11 | 4.66 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 11 | 4.66 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 13 | 4.66 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 13 | 4.66 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 14 | 4.66 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 2 | 4.66 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 12 | 4.66 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 12 | 4.66 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 12 | 4.66 |
| (1,7421) | 1:7:A:LEU:H | 1:8:A:PRO:HD2 | 13 | 4.66 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 13 | 4.66 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 13 | 4.66 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 13 | 4.66 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 16 | 4.66 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 15 | 4.66 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 6 | 4.66 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 4 | 4.66 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 4 | 4.66 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 9 | 4.66 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 9 | 4.66 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 14 | 4.66 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 14 | 4.66 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 14 | 4.66 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 19 | 4.66 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 19 | 4.66 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 19 | 4.66 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 7 | 4.66 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 7 | 4.66 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 7 | 4.66 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 9 | 4.66 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 9 | 4.66 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 9 | 4.66 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 8 | 4.66 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 8 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 15 | 4.66 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 15 | 4.66 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 15 | 4.66 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 1 | 4.66 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 1 | 4.66 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 1 | 4.66 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 3 | 4.66 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 7 | 4.66 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 7 | 4.66 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 12 | 4.66 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 12 | 4.66 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 3 | 4.66 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 13 | 4.66 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 16 | 4.66 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 7 | 4.66 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 7 | 4.66 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 7 | 4.66 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 9 | 4.66 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 9 | 4.66 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 9 | 4.66 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 9 | 4.66 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 7 | 4.66 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 7 | 4.66 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 7 | 4.66 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 5 | 4.66 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 14 | 4.66 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 16 | 4.66 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 13 | 4.66 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 9 | 4.66 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 9 | 4.66 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 9 | 4.66 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 16 | 4.66 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 16 | 4.66 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 16 | 4.66 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 16 | 4.66 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 16 | 4.66 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 16 | 4.66 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 3 | 4.66 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 12 | 4.66 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 12 | 4.66 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 12 | 4.66 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 7 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 7 | 4.66 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 7 | 4.66 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 2 | 4.66 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 2 | 4.66 |
| (1,6262) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 2 | 4.66 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 17 | 4.66 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 14 | 4.66 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 14 | 4.66 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 14 | 4.66 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 14 | 4.66 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 7 | 4.66 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 7 | 4.66 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 7 | 4.66 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 2 | 4.66 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 13 | 4.66 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 13 | 4.66 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 13 | 4.66 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 3 | 4.66 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 3 | 4.66 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 3 | 4.66 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 3 | 4.66 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 3 | 4.66 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 3 | 4.66 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 15 | 4.66 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 15 | 4.66 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 12 | 4.66 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 15 | 4.66 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 15 | 4.66 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 15 | 4.66 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 14 | 4.66 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 14 | 4.66 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 14 | 4.66 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 19 | 4.66 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 19 | 4.66 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 19 | 4.66 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 1 | 4.66 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 17 | 4.66 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 17 | 4.66 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 17 | 4.66 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 2 | 4.66 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 4 | 4.66 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 4 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 4 | 4.66 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 14 | 4.66 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 14 | 4.66 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 14 | 4.66 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 14 | 4.66 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 14 | 4.66 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 14 | 4.66 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 3 | 4.66 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 3 | 4.66 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 3 | 4.66 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 3 | 4.66 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 3 | 4.66 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 3 | 4.66 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 1 | 4.66 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 1 | 4.66 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 1 | 4.66 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 9 | 4.66 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 9 | 4.66 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 9 | 4.66 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 20 | 4.66 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 20 | 4.66 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 20 | 4.66 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 10 | 4.66 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 4 | 4.66 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 4 | 4.66 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 2 | 4.66 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 17 | 4.66 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 10 | 4.66 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 12 | 4.66 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 2 | 4.66 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 3 | 4.66 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 2 | 4.66 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 2 | 4.66 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 2 | 4.66 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 9 | 4.66 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 9 | 4.66 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 9 | 4.66 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 9 | 4.66 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 9 | 4.66 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 9 | 4.66 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 9 | 4.66 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 9 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 9 | 4.66 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 12 | 4.66 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 12 | 4.66 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 12 | 4.66 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 12 | 4.66 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 12 | 4.66 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 12 | 4.66 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 12 | 4.66 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 12 | 4.66 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 12 | 4.66 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 14 | 4.66 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 4 | 4.66 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 13 | 4.66 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 13 | 4.66 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 4.66 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 4.66 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 10 | 4.66 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 10 | 4.66 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 10 | 4.66 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 10 | 4.66 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 10 | 4.66 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 10 | 4.66 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 7 | 4.66 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 16 | 4.66 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 9 | 4.66 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 9 | 4.66 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 9 | 4.66 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 9 | 4.66 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 14 | 4.66 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 14 | 4.66 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 14 | 4.66 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 6 | 4.66 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 6 | 4.66 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 7 | 4.66 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 7 | 4.66 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 13 | 4.66 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 13 | 4.66 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 6 | 4.66 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 6 | 4.66 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 6 | 4.66 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 1 | 4.66 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 1 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 1 | 4.66 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 1 | 4.66 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 1 | 4.66 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 1 | 4.66 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 13 | 4.66 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 13 | 4.66 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 13 | 4.66 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 13 | 4.66 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 13 | 4.66 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 13 | 4.66 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 12 | 4.66 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 12 | 4.66 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 8 | 4.66 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 8 | 4.66 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 9 | 4.66 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 9 | 4.66 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 17 | 4.66 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 17 | 4.66 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 6 | 4.66 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 5 | 4.66 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 12 | 4.66 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 8 | 4.66 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 8 | 4.66 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 15 | 4.66 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 15 | 4.66 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 4 | 4.66 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 10 | 4.66 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 5 | 4.66 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 5 | 4.66 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 5 | 4.66 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 12 | 4.66 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 12 | 4.66 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 12 | 4.66 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 11 | 4.66 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 13 | 4.66 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 19 | 4.66 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 19 | 4.66 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 19 | 4.66 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 19 | 4.66 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 19 | 4.66 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 19 | 4.66 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 17 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 17 | 4.66 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 4 | 4.66 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 15 | 4.66 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 15 | 4.66 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 14 | 4.66 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 3 | 4.66 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 2 | 4.66 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 2 | 4.66 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 2 | 4.66 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 2 | 4.66 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 2 | 4.66 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 2 | 4.66 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 2 | 4.66 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 7 | 4.66 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 7 | 4.66 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 11 | 4.66 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 11 | 4.66 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 16 | 4.66 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 16 | 4.66 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 5 | 4.66 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 5 | 4.66 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 5 | 4.66 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 5 | 4.66 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 7 | 4.66 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 20 | 4.66 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 4.66 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 20 | 4.66 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 11 | 4.66 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 11 | 4.66 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 10 | 4.66 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 10 | 4.66 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 14 | 4.66 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 14 | 4.66 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 14 | 4.66 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 19 | 4.66 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 19 | 4.66 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 19 | 4.66 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 7 | 4.66 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 7 | 4.66 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 7 | 4.66 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 9 | 4.66 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 9 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 9 | 4.66 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 7 | 4.66 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 7 | 4.66 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 6 | 4.66 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 6 | 4.66 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 16 | 4.66 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 5 | 4.66 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 5 | 4.66 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 5 | 4.66 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 8 | 4.66 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 8 | 4.66 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 15 | 4.66 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 15 | 4.66 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 15 | 4.66 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 1 | 4.66 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 1 | 4.66 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 1 | 4.66 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 3 | 4.66 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 7 | 4.66 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 7 | 4.66 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 12 | 4.66 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 12 | 4.66 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 12 | 4.66 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 12 | 4.66 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 8 | 4.66 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 8 | 4.66 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 3 | 4.66 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 13 | 4.66 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 16 | 4.66 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 7 | 4.66 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 7 | 4.66 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 7 | 4.66 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 9 | 4.66 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 9 | 4.66 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 9 | 4.66 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 9 | 4.66 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 7 | 4.66 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 7 | 4.66 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 7 | 4.66 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 5 | 4.66 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 14 | 4.66 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 16 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 11 | 4.66 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 16 | 4.66 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 11 | 4.66 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 1 | 4.66 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 3 | 4.66 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 4.66 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 13 | 4.66 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 13 | 4.66 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 13 | 4.66 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 13 | 4.66 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 16 | 4.66 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 16 | 4.66 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 16 | 4.66 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 18 | 4.66 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 19 | 4.66 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 9 | 4.66 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 9 | 4.66 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 9 | 4.66 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 16 | 4.66 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 16 | 4.66 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 16 | 4.66 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 16 | 4.66 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 16 | 4.66 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 16 | 4.66 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 3 | 4.66 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 12 | 4.66 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 12 | 4.66 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 12 | 4.66 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 7 | 4.66 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 7 | 4.66 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 7 | 4.66 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 2 | 4.66 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 2 | 4.66 |
| (1,1920) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 2 | 4.66 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 17 | 4.66 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 9 | 4.66 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 14 | 4.66 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 14 | 4.66 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 14 | 4.66 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 14 | 4.66 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 7 | 4.66 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 7 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 7 | 4.66 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 2 | 4.66 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 13 | 4.66 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 13 | 4.66 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 13 | 4.66 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 3 | 4.66 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 3 | 4.66 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 3 | 4.66 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 3 | 4.66 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 3 | 4.66 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 3 | 4.66 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 15 | 4.66 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 15 | 4.66 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 3 | 4.66 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 12 | 4.66 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 12 | 4.66 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 12 | 4.66 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 12 | 4.66 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 14 | 4.66 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 14 | 4.66 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 14 | 4.66 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 14 | 4.66 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 15 | 4.66 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 15 | 4.66 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 15 | 4.66 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 14 | 4.66 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 14 | 4.66 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 14 | 4.66 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 19 | 4.66 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 19 | 4.66 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 19 | 4.66 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 16 | 4.66 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 1 | 4.66 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 5 | 4.66 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 5 | 4.66 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 5 | 4.66 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 5 | 4.66 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 5 | 4.66 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 5 | 4.66 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 15 | 4.66 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 4.66 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 4.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 4.66 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 17 | 4.66 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 17 | 4.66 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 17 | 4.66 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 2 | 4.66 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 4 | 4.66 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 4 | 4.66 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 4 | 4.66 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 14 | 4.66 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 14 | 4.66 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 14 | 4.66 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 14 | 4.66 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 14 | 4.66 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 14 | 4.66 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 3 | 4.66 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 3 | 4.66 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 3 | 4.66 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 3 | 4.66 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 3 | 4.66 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 3 | 4.66 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 13 | 4.66 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 6 | 4.66 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 6 | 4.66 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 6 | 4.66 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 9 | 4.66 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 9 | 4.66 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 9 | 4.66 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 5 | 4.65 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 1 | 4.65 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 9 | 4.65 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 9 | 4.65 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 4 | 4.65 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 4 | 4.65 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 4 | 4.65 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 4 | 4.65 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 4 | 4.65 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 4 | 4.65 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 4 | 4.65 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 4 | 4.65 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 10 | 4.65 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 10 | 4.65 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 6 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 6 | 4.65 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 18 | 4.65 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 18 | 4.65 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 9 | 4.65 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 9 | 4.65 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 6 | 4.65 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 6 | 4.65 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 10 | 4.65 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 10 | 4.65 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 17 | 4.65 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 17 | 4.65 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 4 | 4.65 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 4 | 4.65 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 4 | 4.65 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 4 | 4.65 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 2 | 4.65 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 2 | 4.65 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 2 | 4.65 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 2 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 1 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 1 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 1 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 1 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 1 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 1 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 11 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 11 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 11 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 11 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 11 | 4.65 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 11 | 4.65 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 19 | 4.65 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 19 | 4.65 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 19 | 4.65 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 19 | 4.65 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 6 | 4.65 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 6 | 4.65 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 8 | 4.65 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 8 | 4.65 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 8 | 4.65 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 8 | 4.65 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 8 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 8 | 4.65 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 19 | 4.65 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 19 | 4.65 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 18 | 4.65 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 18 | 4.65 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 11 | 4.65 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 11 | 4.65 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 4 | 4.65 |
| (1,8918) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 4 | 4.65 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 4 | 4.65 |
| (1,8918) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 4 | 4.65 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 15 | 4.65 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 15 | 4.65 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 7 | 4.65 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 7 | 4.65 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 7 | 4.65 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 7 | 4.65 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 7 | 4.65 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 7 | 4.65 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 18 | 4.65 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 18 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 7 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 7 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 7 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 7 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 7 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 7 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 18 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 18 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 18 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 18 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 18 | 4.65 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 18 | 4.65 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 2 | 4.65 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 2 | 4.65 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 2 | 4.65 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 2 | 4.65 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 2 | 4.65 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 2 | 4.65 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 19 | 4.65 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 19 | 4.65 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 13 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 13 | 4.65 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 19 | 4.65 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 19 | 4.65 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 13 | 4.65 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 13 | 4.65 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 14 | 4.65 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 14 | 4.65 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 3 | 4.65 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 3 | 4.65 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 2 | 4.65 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 2 | 4.65 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 15 | 4.65 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 15 | 4.65 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 6 | 4.65 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 6 | 4.65 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 5 | 4.65 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 5 | 4.65 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 5 | 4.65 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 2 | 4.65 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 2 | 4.65 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 2 | 4.65 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 2 | 4.65 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 2 | 4.65 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 2 | 4.65 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 2 | 4.65 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 2 | 4.65 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 2 | 4.65 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 3 | 4.65 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 6 | 4.65 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 7 | 4.65 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 15 | 4.65 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 15 | 4.65 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 15 | 4.65 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 12 | 4.65 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 3 | 4.65 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 3 | 4.65 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 3 | 4.65 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 3 | 4.65 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 3 | 4.65 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 3 | 4.65 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 3 | 4.65 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 3 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 3 | 4.65 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 8 | 4.65 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 16 | 4.65 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 12 | 4.65 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 12 | 4.65 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 12 | 4.65 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 12 | 4.65 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 1 | 4.65 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 2 | 4.65 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 11 | 4.65 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 15 | 4.65 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 15 | 4.65 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 15 | 4.65 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 15 | 4.65 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 1 | 4.65 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 18 | 4.65 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 7 | 4.65 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 7 | 4.65 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 7 | 4.65 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 15 | 4.65 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 4 | 4.65 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 4 | 4.65 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 1 | 4.65 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 14 | 4.65 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 4 | 4.65 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 4 | 4.65 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 14 | 4.65 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 14 | 4.65 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 14 | 4.65 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 1 | 4.65 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 15 | 4.65 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 15 | 4.65 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 15 | 4.65 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 15 | 4.65 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 15 | 4.65 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 15 | 4.65 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 15 | 4.65 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 15 | 4.65 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 15 | 4.65 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 18 | 4.65 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 14 | 4.65 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 10 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 10 | 4.65 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 1 | 4.65 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 10 | 4.65 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 15 | 4.65 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 10 | 4.65 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 10 | 4.65 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 10 | 4.65 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 10 | 4.65 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 10 | 4.65 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 10 | 4.65 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 10 | 4.65 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 10 | 4.65 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 10 | 4.65 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 5 | 4.65 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 7 | 4.65 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 14 | 4.65 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 12 | 4.65 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 17 | 4.65 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 20 | 4.65 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 15 | 4.65 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 15 | 4.65 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 12 | 4.65 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 3 | 4.65 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 3 | 4.65 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 3 | 4.65 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 3 | 4.65 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 3 | 4.65 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 3 | 4.65 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 3 | 4.65 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 3 | 4.65 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 3 | 4.65 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 18 | 4.65 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 18 | 4.65 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 18 | 4.65 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 18 | 4.65 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 18 | 4.65 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 18 | 4.65 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 18 | 4.65 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 18 | 4.65 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 18 | 4.65 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 5 | 4.65 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 5 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 5 | 4.65 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 8 | 4.65 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 8 | 4.65 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 8 | 4.65 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 1 | 4.65 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 13 | 4.65 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 9 | 4.65 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 9 | 4.65 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 12 | 4.65 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 12 | 4.65 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 2 | 4.65 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 2 | 4.65 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 17 | 4.65 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 17 | 4.65 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 1 | 4.65 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 12 | 4.65 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 8 | 4.65 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 6 | 4.65 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 17 | 4.65 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 17 | 4.65 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 17 | 4.65 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 12 | 4.65 |
| (1,7405) | 1:6:A:LYS:HA | 1:7:A:LEU:HB2 | 10 | 4.65 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 18 | 4.65 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 2 | 4.65 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 2 | 4.65 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 2 | 4.65 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 8 | 4.65 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 8 | 4.65 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 8 | 4.65 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 8 | 4.65 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 8 | 4.65 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 8 | 4.65 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 13 | 4.65 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 6 | 4.65 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 14 | 4.65 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 14 | 4.65 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 18 | 4.65 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 18 | 4.65 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 18 | 4.65 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 5 | 4.65 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 12 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 8 | 4.65 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 8 | 4.65 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 8 | 4.65 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 15 | 4.65 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 15 | 4.65 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 15 | 4.65 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 19 | 4.65 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 19 | 4.65 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 19 | 4.65 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 15 | 4.65 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 15 | 4.65 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 15 | 4.65 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 6 | 4.65 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 20 | 4.65 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 20 | 4.65 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 9 | 4.65 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 10 | 4.65 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 15 | 4.65 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 9 | 4.65 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 9 | 4.65 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 9 | 4.65 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 16 | 4.65 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 11 | 4.65 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 2 | 4.65 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 1 | 4.65 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 3 | 4.65 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 12 | 4.65 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 10 | 4.65 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 13 | 4.65 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 9 | 4.65 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 20 | 4.65 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 17 | 4.65 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 17 | 4.65 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 17 | 4.65 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 18 | 4.65 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 18 | 4.65 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 18 | 4.65 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 13 | 4.65 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 13 | 4.65 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 13 | 4.65 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 6 | 4.65 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 12 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 12 | 4.65 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 12 | 4.65 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 20 | 4.65 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 20 | 4.65 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 20 | 4.65 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 20 | 4.65 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 20 | 4.65 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 20 | 4.65 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 7 | 4.65 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 3 | 4.65 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 3 | 4.65 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 3 | 4.65 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 5 | 4.65 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 5 | 4.65 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 5 | 4.65 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 1 | 4.65 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 18 | 4.65 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 18 | 4.65 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 2 | 4.65 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 11 | 4.65 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 14 | 4.65 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 15 | 4.65 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 17 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 15 | 4.65 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 15 | 4.65 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 6 | 4.65 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 6 | 4.65 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 5 | 4.65 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 5 | 4.65 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 5 | 4.65 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 5 | 4.65 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 5 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 5 | 4.65 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 16 | 4.65 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 8 | 4.65 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 8 | 4.65 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 8 | 4.65 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 6 | 4.65 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 9 | 4.65 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 11 | 4.65 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 11 | 4.65 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 11 | 4.65 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 11 | 4.65 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 18 | 4.65 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 12 | 4.65 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 15 | 4.65 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 13 | 4.65 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 13 | 4.65 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 9 | 4.65 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 19 | 4.65 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 19 | 4.65 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 19 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 13 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 13 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 13 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 13 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 13 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 13 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 20 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 20 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 20 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 20 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 20 | 4.65 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 20 | 4.65 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 13 | 4.65 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 13 | 4.65 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 13 | 4.65 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 13 | 4.65 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 13 | 4.65 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 13 | 4.65 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 13 | 4.65 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 13 | 4.65 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 13 | 4.65 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 12 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 12 | 4.65 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 12 | 4.65 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 1 | 4.65 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 1 | 4.65 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 1 | 4.65 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 12 | 4.65 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 12 | 4.65 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 12 | 4.65 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 5 | 4.65 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 7 | 4.65 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 10 | 4.65 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 13 | 4.65 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 20 | 4.65 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 5 | 4.65 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 5 | 4.65 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 5 | 4.65 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 1 | 4.65 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 5 | 4.65 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 20 | 4.65 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 6 | 4.65 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 11 | 4.65 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 18 | 4.65 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 2 | 4.65 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 8 | 4.65 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 8 | 4.65 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 20 | 4.65 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 20 | 4.65 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 20 | 4.65 |
| (1,4707) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 20 | 4.65 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 11 | 4.65 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 11 | 4.65 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 15 | 4.65 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 8 | 4.65 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 8 | 4.65 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 8 | 4.65 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 19 | 4.65 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 12 | 4.65 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 12 | 4.65 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 12 | 4.65 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 10 | 4.65 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 10 | 4.65 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 13 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 13 | 4.65 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 15 | 4.65 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 15 | 4.65 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 15 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 4 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 4 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 4 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 4 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 17 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 17 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 17 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 17 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 4.65 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 4.65 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 5 | 4.65 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 5 | 4.65 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 5 | 4.65 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 4.65 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 4.65 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 4.65 |
| (1,4292) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 10 | 4.65 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 2 | 4.65 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 2 | 4.65 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 2 | 4.65 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 2 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 1 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 1 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 1 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 1 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 1 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 1 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 11 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 11 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 11 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 11 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 11 | 4.65 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 11 | 4.65 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 19 | 4.65 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 6 | 4.65 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 6 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 8 | 4.65 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 8 | 4.65 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 8 | 4.65 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 8 | 4.65 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 8 | 4.65 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 8 | 4.65 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 16 | 4.65 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 16 | 4.65 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 16 | 4.65 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 11 | 4.65 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 11 | 4.65 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 12 | 4.65 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 7 | 4.65 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 10 | 4.65 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 15 | 4.65 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 15 | 4.65 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 7 | 4.65 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 7 | 4.65 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 7 | 4.65 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 7 | 4.65 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 7 | 4.65 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 7 | 4.65 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 18 | 4.65 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 18 | 4.65 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 9 | 4.65 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 9 | 4.65 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 9 | 4.65 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 2 | 4.65 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 2 | 4.65 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 2 | 4.65 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 2 | 4.65 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 2 | 4.65 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 2 | 4.65 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 2 | 4.65 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 3 | 4.65 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 4.65 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 4.65 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 1 | 4.65 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 1 | 4.65 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 1 | 4.65 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 18 | 4.65 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 4 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 4 | 4.65 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 4 | 4.65 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 4 | 4.65 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 9 | 4.65 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 2 | 4.65 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 10 | 4.65 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 13 | 4.65 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 2 | 4.65 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 6 | 4.65 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 3 | 4.65 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 14 | 4.65 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 14 | 4.65 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 5 | 4.65 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 5 | 4.65 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 5 | 4.65 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 18 | 4.65 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 18 | 4.65 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 18 | 4.65 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 5 | 4.65 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 12 | 4.65 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 8 | 4.65 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 8 | 4.65 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 8 | 4.65 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 1 | 4.65 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 15 | 4.65 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 15 | 4.65 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 15 | 4.65 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 19 | 4.65 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 19 | 4.65 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 19 | 4.65 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 15 | 4.65 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 15 | 4.65 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 15 | 4.65 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 8 | 4.65 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 6 | 4.65 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 12 | 4.65 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 20 | 4.65 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 20 | 4.65 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 9 | 4.65 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 10 | 4.65 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 4 | 4.65 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 4 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 4 | 4.65 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 15 | 4.65 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 2 | 4.65 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 2 | 4.65 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 4.65 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 9 | 4.65 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 9 | 4.65 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 9 | 4.65 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 15 | 4.65 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 15 | 4.65 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 15 | 4.65 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 19 | 4.65 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 19 | 4.65 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 19 | 4.65 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 16 | 4.65 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 12 | 4.65 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 12 | 4.65 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 12 | 4.65 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 6 | 4.65 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 11 | 4.65 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 11 | 4.65 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 2 | 4.65 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 6 | 4.65 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 14 | 4.65 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 2 | 4.65 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 1 | 4.65 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 3 | 4.65 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 12 | 4.65 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 10 | 4.65 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 13 | 4.65 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 9 | 4.65 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 20 | 4.65 |
| (1,2182) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 17 | 4.65 |
| (1,2182) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 17 | 4.65 |
| (1,2182) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 17 | 4.65 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 17 | 4.65 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 17 | 4.65 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 17 | 4.65 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 13 | 4.65 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 18 | 4.65 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 18 | 4.65 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 18 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 13 | 4.65 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 13 | 4.65 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 13 | 4.65 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 6 | 4.65 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 12 | 4.65 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 12 | 4.65 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 12 | 4.65 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 3 | 4.65 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 3 | 4.65 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 3 | 4.65 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 20 | 4.65 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 20 | 4.65 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 20 | 4.65 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 12 | 4.65 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 12 | 4.65 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 12 | 4.65 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 20 | 4.65 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 20 | 4.65 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 20 | 4.65 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 7 | 4.65 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 10 | 4.65 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 3 | 4.65 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 3 | 4.65 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 3 | 4.65 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 5 | 4.65 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 5 | 4.65 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 5 | 4.65 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 1 | 4.65 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 18 | 4.65 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 18 | 4.65 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 5 | 4.65 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 2 | 4.65 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 11 | 4.65 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 14 | 4.65 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 15 | 4.65 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 17 | 4.65 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 6 | 4.65 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 6 | 4.65 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 5 | 4.65 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 5 | 4.65 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 5 | 4.65 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 5 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 5 | 4.65 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 5 | 4.65 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 16 | 4.65 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 8 | 4.65 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 8 | 4.65 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 8 | 4.65 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 17 | 4.65 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 17 | 4.65 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 17 | 4.65 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 6 | 4.65 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 9 | 4.65 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 11 | 4.65 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 1 | 4.65 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 12 | 4.65 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 17 | 4.65 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 11 | 4.65 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 11 | 4.65 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 11 | 4.65 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 8 | 4.65 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 12 | 4.65 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 18 | 4.65 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 12 | 4.65 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 14 | 4.65 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 14 | 4.65 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 15 | 4.65 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 13 | 4.65 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 13 | 4.65 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 9 | 4.65 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 1 | 4.65 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 19 | 4.65 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 19 | 4.65 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 19 | 4.65 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 12 | 4.65 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 12 | 4.65 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 12 | 4.65 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 12 | 4.65 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 12 | 4.65 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 12 | 4.65 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 13 | 4.65 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 13 | 4.65 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 13 | 4.65 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 13 | 4.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 13 | 4.65 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 13 | 4.65 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 20 | 4.65 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 20 | 4.65 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 20 | 4.65 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 20 | 4.65 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 20 | 4.65 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 20 | 4.65 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 12 | 4.65 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 6 | 4.65 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 8 | 4.65 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 9 | 4.64 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 11 | 4.64 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 15 | 4.64 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 8 | 4.64 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 13 | 4.64 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 13 | 4.64 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 18 | 4.64 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 18 | 4.64 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 4.64 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 4.64 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 3 | 4.64 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 3 | 4.64 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 3 | 4.64 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 3 | 4.64 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 1 | 4.64 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 1 | 4.64 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 3 | 4.64 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 3 | 4.64 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 3 | 4.64 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 3 | 4.64 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 3 | 4.64 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 3 | 4.64 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 13 | 4.64 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 13 | 4.64 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 13 | 4.64 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 13 | 4.64 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 1 | 4.64 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 1 | 4.64 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 17 | 4.64 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 17 | 4.64 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 17 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 17 | 4.64 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 17 | 4.64 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 17 | 4.64 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 10 | 4.64 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 10 | 4.64 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 13 | 4.64 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 13 | 4.64 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 19 | 4.64 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 19 | 4.64 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 19 | 4.64 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 19 | 4.64 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 14 | 4.64 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 14 | 4.64 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 14 | 4.64 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 14 | 4.64 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 11 | 4.64 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 11 | 4.64 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 4.64 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 4.64 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 4.64 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 4.64 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 4.64 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 4.64 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 11 | 4.64 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 11 | 4.64 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 15 | 4.64 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 15 | 4.64 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 15 | 4.64 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 15 | 4.64 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 15 | 4.64 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 15 | 4.64 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 14 | 4.64 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 14 | 4.64 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 19 | 4.64 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 19 | 4.64 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 19 | 4.64 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 19 | 4.64 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 19 | 4.64 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 19 | 4.64 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 4 | 4.64 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 4 | 4.64 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 4 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 4 | 4.64 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 2 | 4.64 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 2 | 4.64 |
| (1,8938) | 1:71:A:SER:HB2 | 1:78:A:ILE:HG13 | 15 | 4.64 |
| (1,8938) | 1:71:A:SER:HB3 | 1:78:A:ILE:HG13 | 15 | 4.64 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 20 | 4.64 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 4.64 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 1 | 4.64 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 1 | 4.64 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 11 | 4.64 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 11 | 4.64 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 6 | 4.64 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 6 | 4.64 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 6 | 4.64 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 6 | 4.64 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 4.64 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 4.64 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 4.64 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 20 | 4.64 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 20 | 4.64 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 20 | 4.64 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 13 | 4.64 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 13 | 4.64 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 7 | 4.64 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 7 | 4.64 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 14 | 4.64 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 14 | 4.64 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 10 | 4.64 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 10 | 4.64 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 10 | 4.64 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 10 | 4.64 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 9 | 4.64 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 9 | 4.64 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 5 | 4.64 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 5 | 4.64 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 7 | 4.64 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 7 | 4.64 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 7 | 4.64 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 7 | 4.64 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 7 | 4.64 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 7 | 4.64 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 1 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 1 | 4.64 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 3 | 4.64 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 8 | 4.64 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 3 | 4.64 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 3 | 4.64 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 3 | 4.64 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 20 | 4.64 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 17 | 4.64 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 17 | 4.64 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 17 | 4.64 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 17 | 4.64 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 17 | 4.64 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 17 | 4.64 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 3 | 4.64 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 17 | 4.64 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 18 | 4.64 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 6 | 4.64 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 19 | 4.64 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 3 | 4.64 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 3 | 4.64 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 3 | 4.64 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 20 | 4.64 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 13 | 4.64 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 13 | 4.64 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 13 | 4.64 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 9 | 4.64 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 9 | 4.64 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 8 | 4.64 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 8 | 4.64 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 8 | 4.64 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 8 | 4.64 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 8 | 4.64 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 8 | 4.64 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 14 | 4.64 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 1 | 4.64 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 12 | 4.64 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 17 | 4.64 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 17 | 4.64 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 11 | 4.64 |
| (1,8138) | 1:95:A:LYS:H | 1:96:A:ILE:HG12 | 2 | 4.64 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 5 | 4.64 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 5 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 8 | 4.64 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 8 | 4.64 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 8 | 4.64 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 9 | 4.64 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 9 | 4.64 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 9 | 4.64 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 11 | 4.64 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 11 | 4.64 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 11 | 4.64 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 5 | 4.64 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 5 | 4.64 |
| (1,8043) | 1:87:A:GLU:H | 1:90:A:ASN:H | 18 | 4.64 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 4 | 4.64 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 4 | 4.64 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 4 | 4.64 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 10 | 4.64 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 10 | 4.64 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 10 | 4.64 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 7 | 4.64 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 8 | 4.64 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 20 | 4.64 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 20 | 4.64 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 20 | 4.64 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 14 | 4.64 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 14 | 4.64 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 14 | 4.64 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 16 | 4.64 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 7 | 4.64 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 7 | 4.64 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 20 | 4.64 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 20 | 4.64 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 5 | 4.64 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 5 | 4.64 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 6 | 4.64 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 6 | 4.64 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 6 | 4.64 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 6 | 4.64 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 6 | 4.64 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 6 | 4.64 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 9 | 4.64 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 9 | 4.64 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 9 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 9 | 4.64 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 9 | 4.64 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 9 | 4.64 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 8 | 4.64 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 12 | 4.64 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 9 | 4.64 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 11 | 4.64 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 11 | 4.64 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 14 | 4.64 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 1 | 4.64 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 12 | 4.64 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 16 | 4.64 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 5 | 4.64 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 5 | 4.64 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 15 | 4.64 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 15 | 4.64 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 20 | 4.64 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 8 | 4.64 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 4 | 4.64 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 20 | 4.64 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 1 | 4.64 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 4 | 4.64 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 4 | 4.64 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 4 | 4.64 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 16 | 4.64 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 16 | 4.64 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 16 | 4.64 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 18 | 4.64 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 18 | 4.64 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 16 | 4.64 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 16 | 4.64 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 16 | 4.64 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 18 | 4.64 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 18 | 4.64 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 18 | 4.64 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 18 | 4.64 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 18 | 4.64 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 18 | 4.64 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 13 | 4.64 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 13 | 4.64 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 13 | 4.64 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 6 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 19 | 4.64 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 19 | 4.64 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 4 | 4.64 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 4 | 4.64 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 4 | 4.64 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 20 | 4.64 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 20 | 4.64 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 20 | 4.64 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 12 | 4.64 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 12 | 4.64 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 12 | 4.64 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 3 | 4.64 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 3 | 4.64 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 3 | 4.64 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 13 | 4.64 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 16 | 4.64 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 16 | 4.64 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 16 | 4.64 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 3 | 4.64 |
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 1 | 4.64 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 18 | 4.64 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 8 | 4.64 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 7 | 4.64 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 8 | 4.64 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 14 | 4.64 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 8 | 4.64 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 6 | 4.64 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 6 | 4.64 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 6 | 4.64 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 12 | 4.64 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 12 | 4.64 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 12 | 4.64 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 13 | 4.64 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 13 | 4.64 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 13 | 4.64 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 5 | 4.64 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 4 | 4.64 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 4 | 4.64 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 4 | 4.64 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 14 | 4.64 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 14 | 4.64 |
| (1,6326) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 14 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 11 | 4.64 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 11 | 4.64 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 11 | 4.64 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 11 | 4.64 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 11 | 4.64 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 11 | 4.64 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 11 | 4.64 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 11 | 4.64 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 11 | 4.64 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 10 | 4.64 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 6 | 4.64 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 4 | 4.64 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 5 | 4.64 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 6 | 4.64 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 6 | 4.64 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 6 | 4.64 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 6 | 4.64 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 6 | 4.64 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 17 | 4.64 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 3 | 4.64 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 5 | 4.64 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 13 | 4.64 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 8 | 4.64 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 8 | 4.64 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 8 | 4.64 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 8 | 4.64 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 8 | 4.64 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 8 | 4.64 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 7 | 4.64 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 6 | 4.64 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 16 | 4.64 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 3 | 4.64 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 3 | 4.64 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 3 | 4.64 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 3 | 4.64 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 3 | 4.64 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 3 | 4.64 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 3 | 4.64 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 3 | 4.64 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 3 | 4.64 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 7 | 4.64 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 7 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 7 | 4.64 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 6 | 4.64 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 6 | 4.64 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 6 | 4.64 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 11 | 4.64 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 11 | 4.64 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 11 | 4.64 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 2 | 4.64 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 2 | 4.64 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 2 | 4.64 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 20 | 4.64 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 3 | 4.64 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 3 | 4.64 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 3 | 4.64 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 3 | 4.64 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 3 | 4.64 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 3 | 4.64 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 2 | 4.64 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 2 | 4.64 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 2 | 4.64 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 2 | 4.64 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 2 | 4.64 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 2 | 4.64 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 2 | 4.64 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 2 | 4.64 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 2 | 4.64 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 2 | 4.64 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 2 | 4.64 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 2 | 4.64 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 19 | 4.64 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 7 | 4.64 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 9 | 4.64 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 3 | 4.64 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 13 | 4.64 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 13 | 4.64 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 13 | 4.64 |
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 11 | 4.64 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 2 | 4.64 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 12 | 4.64 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 12 | 4.64 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 12 | 4.64 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 4 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 4 | 4.64 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 4 | 4.64 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 12 | 4.64 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 11 | 4.64 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 11 | 4.64 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 11 | 4.64 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 10 | 4.64 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 10 | 4.64 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 10 | 4.64 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 4.64 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 4.64 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 5 | 4.64 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 5 | 4.64 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 5 | 4.64 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 3 | 4.64 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 3 | 4.64 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 14 | 4.64 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 14 | 4.64 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 14 | 4.64 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 14 | 4.64 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 3 | 4.64 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 3 | 4.64 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 3 | 4.64 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 3 | 4.64 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 3 | 4.64 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 3 | 4.64 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 13 | 4.64 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 13 | 4.64 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 13 | 4.64 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 13 | 4.64 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 8 | 4.64 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 3 | 4.64 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 19 | 4.64 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 5 | 4.64 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 11 | 4.64 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 11 | 4.64 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 10 | 4.64 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 14 | 4.64 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 4.64 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 4.64 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 4.64 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 4.64 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 4.64 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 13 | 4.64 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 13 | 4.64 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 13 | 4.64 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 13 | 4.64 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 13 | 4.64 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 13 | 4.64 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 6 | 4.64 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 6 | 4.64 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 6 | 4.64 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 19 | 4.64 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 19 | 4.64 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 19 | 4.64 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 19 | 4.64 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 3 | 4.64 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 3 | 4.64 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 3 | 4.64 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 3 | 4.64 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 3 | 4.64 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 3 | 4.64 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 3 | 4.64 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 15 | 4.64 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 15 | 4.64 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 15 | 4.64 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 15 | 4.64 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 15 | 4.64 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 15 | 4.64 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 19 | 4.64 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 19 | 4.64 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 19 | 4.64 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 19 | 4.64 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 19 | 4.64 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 19 | 4.64 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 6 | 4.64 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 2 | 4.64 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 2 | 4.64 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 2 | 4.64 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 4 | 4.64 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 20 | 4.64 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 4.64 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 6 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 6 | 4.64 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 6 | 4.64 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 4.64 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 4.64 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 4.64 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 20 | 4.64 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 20 | 4.64 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 20 | 4.64 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 13 | 4.64 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 13 | 4.64 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 14 | 4.64 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 9 | 4.64 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 9 | 4.64 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 13 | 4.64 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 5 | 4.64 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 5 | 4.64 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 1 | 4.64 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 1 | 4.64 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 1 | 4.64 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 1 | 4.64 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 1 | 4.64 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 1 | 4.64 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 5 | 4.64 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 16 | 4.64 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 16 | 4.64 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 16 | 4.64 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 19 | 4.64 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 6 | 4.64 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 6 | 4.64 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 6 | 4.64 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 18 | 4.64 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 18 | 4.64 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 18 | 4.64 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 8 | 4.64 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 18 | 4.64 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 18 | 4.64 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 18 | 4.64 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 13 | 4.64 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 13 | 4.64 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 13 | 4.64 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 6 | 4.64 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 19 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 19 | 4.64 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 4 | 4.64 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 4 | 4.64 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 4 | 4.64 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 20 | 4.64 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 20 | 4.64 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 20 | 4.64 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 10 | 4.64 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 10 | 4.64 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 11 | 4.64 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 11 | 4.64 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 11 | 4.64 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 12 | 4.64 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 12 | 4.64 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 12 | 4.64 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 3 | 4.64 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 3 | 4.64 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 3 | 4.64 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 13 | 4.64 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 14 | 4.64 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 14 | 4.64 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 2 | 4.64 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 2 | 4.64 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 2 | 4.64 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 16 | 4.64 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 16 | 4.64 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 16 | 4.64 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 3 | 4.64 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 1 | 4.64 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 1 | 4.64 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 1 | 4.64 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 4 | 4.64 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 4 | 4.64 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 4 | 4.64 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 18 | 4.64 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 8 | 4.64 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 10 | 4.64 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 9 | 4.64 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 16 | 4.64 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 6 | 4.64 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 13 | 4.64 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 8 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 7 | 4.64 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 8 | 4.64 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 14 | 4.64 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 8 | 4.64 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 2 | 4.64 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 6 | 4.64 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 6 | 4.64 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 6 | 4.64 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 12 | 4.64 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 12 | 4.64 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 12 | 4.64 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 2 | 4.64 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 13 | 4.64 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 13 | 4.64 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 13 | 4.64 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 5 | 4.64 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 4 | 4.64 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 4 | 4.64 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 4 | 4.64 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 14 | 4.64 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 14 | 4.64 |
| (1,1996) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 14 | 4.64 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 11 | 4.64 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 11 | 4.64 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 11 | 4.64 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 11 | 4.64 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 11 | 4.64 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 11 | 4.64 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 11 | 4.64 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 11 | 4.64 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 11 | 4.64 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 10 | 4.64 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 6 | 4.64 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 4 | 4.64 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 5 | 4.64 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 5 | 4.64 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 4.64 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 15 | 4.64 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 15 | 4.64 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 15 | 4.64 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 6 | 4.64 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 19 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 19 | 4.64 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 19 | 4.64 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 6 | 4.64 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 6 | 4.64 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 6 | 4.64 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 6 | 4.64 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 17 | 4.64 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 18 | 4.64 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 18 | 4.64 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 18 | 4.64 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 3 | 4.64 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 8 | 4.64 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 5 | 4.64 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 13 | 4.64 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 8 | 4.64 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 8 | 4.64 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 8 | 4.64 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 8 | 4.64 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 8 | 4.64 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 8 | 4.64 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 7 | 4.64 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 6 | 4.64 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 13 | 4.64 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 19 | 4.64 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 19 | 4.64 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 19 | 4.64 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 19 | 4.64 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 16 | 4.64 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 3 | 4.64 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 3 | 4.64 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 3 | 4.64 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 3 | 4.64 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 3 | 4.64 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 3 | 4.64 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 3 | 4.64 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 3 | 4.64 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 3 | 4.64 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 7 | 4.64 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 7 | 4.64 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 7 | 4.64 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 6 | 4.64 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 6 | 4.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 6 | 4.64 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 11 | 4.64 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 11 | 4.64 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 11 | 4.64 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 2 | 4.64 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 2 | 4.64 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 2 | 4.64 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 8 | 4.64 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 16 | 4.64 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 20 | 4.64 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 8 | 4.64 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 8 | 4.64 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 8 | 4.64 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 10 | 4.64 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 10 | 4.64 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 10 | 4.64 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 10 | 4.64 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 10 | 4.64 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 10 | 4.64 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 1 | 4.64 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 16 | 4.63 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 3 | 4.63 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 6 | 4.63 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 6 | 4.63 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 6 | 4.63 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 6 | 4.63 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 6 | 4.63 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 6 | 4.63 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 10 | 4.63 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 10 | 4.63 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 6 | 4.63 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 6 | 4.63 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 6 | 4.63 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 6 | 4.63 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 3 | 4.63 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 3 | 4.63 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 19 | 4.63 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 19 | 4.63 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 18 | 4.63 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 18 | 4.63 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 18 | 4.63 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 18 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 2 | 4.63 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 2 | 4.63 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 2 | 4.63 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 2 | 4.63 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 17 | 4.63 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 17 | 4.63 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 2 | 4.63 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 2 | 4.63 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 16 | 4.63 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 16 | 4.63 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 4 | 4.63 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 4 | 4.63 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 2 | 4.63 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 2 | 4.63 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 10 | 4.63 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 10 | 4.63 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 10 | 4.63 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 10 | 4.63 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 10 | 4.63 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 10 | 4.63 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 6 | 4.63 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 6 | 4.63 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 9 | 4.63 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 9 | 4.63 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 11 | 4.63 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 11 | 4.63 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 20 | 4.63 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 20 | 4.63 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 20 | 4.63 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 20 | 4.63 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 20 | 4.63 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 20 | 4.63 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 4 | 4.63 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 4 | 4.63 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 3 | 4.63 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 3 | 4.63 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 10 | 4.63 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 10 | 4.63 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 10 | 4.63 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 10 | 4.63 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 10 | 4.63 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 10 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 6 | 4.63 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 6 | 4.63 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 17 | 4.63 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 17 | 4.63 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 17 | 4.63 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 17 | 4.63 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 17 | 4.63 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 17 | 4.63 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 8 | 4.63 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 8 | 4.63 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 1 | 4.63 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 1 | 4.63 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 12 | 4.63 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 12 | 4.63 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 1 | 4.63 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 1 | 4.63 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 9 | 4.63 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 9 | 4.63 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 17 | 4.63 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 17 | 4.63 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 18 | 4.63 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 18 | 4.63 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 18 | 4.63 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 18 | 4.63 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 18 | 4.63 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 18 | 4.63 |
| (1,8536) | 1:3:A:ASP:HB2 | 1:5:A:GLU:H | 17 | 4.63 |
| (1,8536) | 1:3:A:ASP:HB3 | 1:5:A:GLU:H | 17 | 4.63 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 6 | 4.63 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 6 | 4.63 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 10 | 4.63 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 10 | 4.63 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 17 | 4.63 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 17 | 4.63 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 5 | 4.63 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 5 | 4.63 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 15 | 4.63 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 15 | 4.63 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 3 | 4.63 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 15 | 4.63 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 15 | 4.63 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 15 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8409) | 1:141:A:LEU:H | 1:142:A:ARG:HA | 6 | 4.63 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 18 | 4.63 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 18 | 4.63 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB1 | 18 | 4.63 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB2 | 18 | 4.63 |
| (1,8387) | 1:139:A:PHE:HA | 1:140:A:ALA:HB3 | 18 | 4.63 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 10 | 4.63 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 10 | 4.63 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 14 | 4.63 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 14 | 4.63 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 14 | 4.63 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 1 | 4.63 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 19 | 4.63 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 9 | 4.63 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 1 | 4.63 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 2 | 4.63 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 6 | 4.63 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 9 | 4.63 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 19 | 4.63 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 9 | 4.63 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 7 | 4.63 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 12 | 4.63 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 2 | 4.63 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 2 | 4.63 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 2 | 4.63 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 7 | 4.63 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 16 | 4.63 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 6 | 4.63 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 6 | 4.63 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 6 | 4.63 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 8 | 4.63 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 15 | 4.63 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 15 | 4.63 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 15 | 4.63 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 12 | 4.63 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 1 | 4.63 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 4 | 4.63 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 15 | 4.63 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 12 | 4.63 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 7 | 4.63 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 15 | 4.63 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 18 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 18 | 4.63 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 14 | 4.63 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 15 | 4.63 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 14 | 4.63 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 14 | 4.63 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 14 | 4.63 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 9 | 4.63 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 6 | 4.63 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 5 | 4.63 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 5 | 4.63 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 5 | 4.63 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 18 | 4.63 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 18 | 4.63 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 18 | 4.63 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 18 | 4.63 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 15 | 4.63 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 15 | 4.63 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 15 | 4.63 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 13 | 4.63 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 13 | 4.63 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 13 | 4.63 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 6 | 4.63 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 10 | 4.63 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 15 | 4.63 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 10 | 4.63 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 12 | 4.63 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 5 | 4.63 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 18 | 4.63 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 1 | 4.63 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 7 | 4.63 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 7 | 4.63 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 5 | 4.63 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 7 | 4.63 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 7 | 4.63 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 18 | 4.63 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 18 | 4.63 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 16 | 4.63 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 9 | 4.63 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 9 | 4.63 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 9 | 4.63 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 1 | 4.63 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 1 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 1 | 4.63 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 7 | 4.63 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 7 | 4.63 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 7 | 4.63 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 8 | 4.63 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 8 | 4.63 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 5 | 4.63 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 11 | 4.63 |
| (1,7507) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 11 | 4.63 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 8 | 4.63 |
| (1,7467) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 15 | 4.63 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 8 | 4.63 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 8 | 4.63 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 8 | 4.63 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 20 | 4.63 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 3 | 4.63 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 3 | 4.63 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 3 | 4.63 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 3 | 4.63 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 3 | 4.63 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 3 | 4.63 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 10 | 4.63 |
| (1,7400) | 1:4:A:GLU:H | 1:13:A:LYS:H | 3 | 4.63 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 20 | 4.63 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 14 | 4.63 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 20 | 4.63 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 20 | 4.63 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 20 | 4.63 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 10 | 4.63 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 17 | 4.63 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 16 | 4.63 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 16 | 4.63 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 16 | 4.63 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 17 | 4.63 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 17 | 4.63 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 1 | 4.63 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 1 | 4.63 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 18 | 4.63 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 18 | 4.63 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 18 | 4.63 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 1 | 4.63 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 15 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 9 | 4.63 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 20 | 4.63 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 9 | 4.63 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 17 | 4.63 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 17 | 4.63 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 17 | 4.63 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 1 | 4.63 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 8 | 4.63 |
| (1,6830) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 12 | 4.63 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 1 | 4.63 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 1 | 4.63 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 16 | 4.63 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 9 | 4.63 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 7 | 4.63 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 4 | 4.63 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 4 | 4.63 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 4 | 4.63 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 19 | 4.63 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 7 | 4.63 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 19 | 4.63 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 6 | 4.63 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 14 | 4.63 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 14 | 4.63 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 14 | 4.63 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 13 | 4.63 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 13 | 4.63 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 13 | 4.63 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 15 | 4.63 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 9 | 4.63 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 9 | 4.63 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 9 | 4.63 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 13 | 4.63 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 14 | 4.63 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 14 | 4.63 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 14 | 4.63 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 16 | 4.63 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 16 | 4.63 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 16 | 4.63 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 6 | 4.63 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 4 | 4.63 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 18 | 4.63 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 13 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 20 | 4.63 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 20 | 4.63 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 20 | 4.63 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 16 | 4.63 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 16 | 4.63 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 8 | 4.63 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 8 | 4.63 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 8 | 4.63 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 4 | 4.63 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 5 | 4.63 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 18 | 4.63 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 20 | 4.63 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 5 | 4.63 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 20 | 4.63 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 20 | 4.63 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 20 | 4.63 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 3 | 4.63 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 3 | 4.63 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 3 | 4.63 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 17 | 4.63 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 17 | 4.63 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 17 | 4.63 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 3 | 4.63 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 13 | 4.63 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 10 | 4.63 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 20 | 4.63 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 20 | 4.63 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 20 | 4.63 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 7 | 4.63 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 7 | 4.63 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 7 | 4.63 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 19 | 4.63 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 19 | 4.63 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 19 | 4.63 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 4 | 4.63 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 4 | 4.63 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 4 | 4.63 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 1 | 4.63 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 1 | 4.63 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 1 | 4.63 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 11 | 4.63 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 11 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 11 | 4.63 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 2 | 4.63 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 2 | 4.63 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 2 | 4.63 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 2 | 4.63 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 2 | 4.63 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 2 | 4.63 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 1 | 4.63 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 9 | 4.63 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 11 | 4.63 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 14 | 4.63 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 18 | 4.63 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 4 | 4.63 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 15 | 4.63 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 16 | 4.63 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 3 | 4.63 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 3 | 4.63 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 19 | 4.63 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 19 | 4.63 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 12 | 4.63 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 4 | 4.63 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 4 | 4.63 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 4 | 4.63 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 7 | 4.63 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 10 | 4.63 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 5 | 4.63 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 5 | 4.63 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 5 | 4.63 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 5 | 4.63 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 5 | 4.63 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 5 | 4.63 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 5 | 4.63 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 5 | 4.63 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 5 | 4.63 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 8 | 4.63 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 9 | 4.63 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 9 | 4.63 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 9 | 4.63 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 19 | 4.63 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 19 | 4.63 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 19 | 4.63 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 7 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 4.63 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 4.63 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 4.63 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 4.63 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 4.63 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 4.63 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 6 | 4.63 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 6 | 4.63 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 10 | 4.63 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 10 | 4.63 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 3 | 4.63 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 3 | 4.63 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 18 | 4.63 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 18 | 4.63 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 3 | 4.63 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 3 | 4.63 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 3 | 4.63 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 10 | 4.63 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 10 | 4.63 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 10 | 4.63 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 10 | 4.63 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 18 | 4.63 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 18 | 4.63 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 18 | 4.63 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 18 | 4.63 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 2 | 4.63 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 2 | 4.63 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 2 | 4.63 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 2 | 4.63 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 17 | 4.63 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 17 | 4.63 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 9 | 4.63 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 4 | 4.63 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 4 | 4.63 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 4 | 4.63 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 2 | 4.63 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 2 | 4.63 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 10 | 4.63 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 10 | 4.63 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 10 | 4.63 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 10 | 4.63 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 10 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 10 | 4.63 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 17 | 4.63 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 14 | 4.63 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 14 | 4.63 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 14 | 4.63 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 11 | 4.63 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 11 | 4.63 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 3 | 4.63 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 4 | 4.63 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 4 | 4.63 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 10 | 4.63 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 10 | 4.63 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 10 | 4.63 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 10 | 4.63 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 10 | 4.63 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 10 | 4.63 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 17 | 4.63 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 17 | 4.63 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 8 | 4.63 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 8 | 4.63 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 8 | 4.63 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 9 | 4.63 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 9 | 4.63 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 9 | 4.63 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 9 | 4.63 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 1 | 4.63 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 1 | 4.63 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 12 | 4.63 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 12 | 4.63 |
| (1,3770) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 2 | 4.63 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 10 | 4.63 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 18 | 4.63 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 18 | 4.63 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 18 | 4.63 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 9 | 4.63 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 9 | 4.63 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 19 | 4.63 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 19 | 4.63 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 6 | 4.63 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 3 | 4.63 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 9 | 4.63 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 2 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 2 | 4.63 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 2 | 4.63 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 2 | 4.63 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 15 | 4.63 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 15 | 4.63 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 17 | 4.63 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 17 | 4.63 |
| (1,3649) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 9 | 4.63 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 9 | 4.63 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 6 | 4.63 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 5 | 4.63 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 6 | 4.63 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 18 | 4.63 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 18 | 4.63 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 18 | 4.63 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 18 | 4.63 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 18 | 4.63 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 18 | 4.63 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 5 | 4.63 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 5 | 4.63 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 5 | 4.63 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 7 | 4.63 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 1 | 4.63 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 9 | 4.63 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 9 | 4.63 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 9 | 4.63 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 12 | 4.63 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 10 | 4.63 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 17 | 4.63 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 16 | 4.63 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 16 | 4.63 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 16 | 4.63 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 17 | 4.63 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 17 | 4.63 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 1 | 4.63 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 1 | 4.63 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 18 | 4.63 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 18 | 4.63 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 18 | 4.63 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 1 | 4.63 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 15 | 4.63 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 20 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 20 | 4.63 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 9 | 4.63 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 17 | 4.63 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 17 | 4.63 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 17 | 4.63 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 1 | 4.63 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 8 | 4.63 |
| (1,2814) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 12 | 4.63 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 1 | 4.63 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 1 | 4.63 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 12 | 4.63 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 12 | 4.63 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 16 | 4.63 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 4 | 4.63 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 9 | 4.63 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 7 | 4.63 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 4 | 4.63 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 4 | 4.63 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 4 | 4.63 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 18 | 4.63 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 18 | 4.63 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 18 | 4.63 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 19 | 4.63 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 7 | 4.63 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 7 | 4.63 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 2 | 4.63 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 19 | 4.63 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 6 | 4.63 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 9 | 4.63 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 9 | 4.63 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 9 | 4.63 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 14 | 4.63 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 14 | 4.63 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 14 | 4.63 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 13 | 4.63 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 13 | 4.63 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 13 | 4.63 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 3 | 4.63 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 13 | 4.63 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 15 | 4.63 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 9 | 4.63 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 9 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 9 | 4.63 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 13 | 4.63 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 17 | 4.63 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 17 | 4.63 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 17 | 4.63 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 14 | 4.63 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 14 | 4.63 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 14 | 4.63 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 16 | 4.63 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 16 | 4.63 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 16 | 4.63 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 15 | 4.63 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 15 | 4.63 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 15 | 4.63 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 6 | 4.63 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 12 | 4.63 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 1 | 4.63 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 1 | 4.63 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 6 | 4.63 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 4 | 4.63 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 18 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 7 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 7 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 7 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 7 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 7 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 7 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 10 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 10 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 10 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 10 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 10 | 4.63 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 10 | 4.63 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 13 | 4.63 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 20 | 4.63 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 20 | 4.63 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 20 | 4.63 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 16 | 4.63 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 16 | 4.63 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 8 | 4.63 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 8 | 4.63 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 8 | 4.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 7 | 4.63 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 10 | 4.63 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 16 | 4.63 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 16 | 4.63 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 16 | 4.63 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 4 | 4.63 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 5 | 4.63 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 18 | 4.63 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 20 | 4.63 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 5 | 4.63 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 20 | 4.63 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 20 | 4.63 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 20 | 4.63 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 3 | 4.63 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 3 | 4.63 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 3 | 4.63 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 17 | 4.63 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 17 | 4.63 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 17 | 4.63 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 3 | 4.63 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 13 | 4.63 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 10 | 4.63 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 4 | 4.63 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 13 | 4.63 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 13 | 4.63 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 13 | 4.63 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 11 | 4.63 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 5 | 4.62 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 5 | 4.62 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 14 | 4.62 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 14 | 4.62 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 9 | 4.62 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 10 | 4.62 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 6 | 4.62 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 6 | 4.62 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 7 | 4.62 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 7 | 4.62 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 15 | 4.62 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 15 | 4.62 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 17 | 4.62 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 17 | 4.62 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 8 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 8 | 4.62 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 15 | 4.62 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 15 | 4.62 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 17 | 4.62 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 17 | 4.62 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 17 | 4.62 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 17 | 4.62 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 17 | 4.62 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 17 | 4.62 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 11 | 4.62 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 11 | 4.62 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 11 | 4.62 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 11 | 4.62 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 20 | 4.62 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 20 | 4.62 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 1 | 4.62 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 1 | 4.62 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 18 | 4.62 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 18 | 4.62 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 3 | 4.62 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 3 | 4.62 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 3 | 4.62 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 3 | 4.62 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 6 | 4.62 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 6 | 4.62 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 5 | 4.62 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 5 | 4.62 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 5 | 4.62 |
| (1,9164) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 5 | 4.62 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 10 | 4.62 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 10 | 4.62 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 2 | 4.62 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 2 | 4.62 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 18 | 4.62 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 18 | 4.62 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 11 | 4.62 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 11 | 4.62 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 11 | 4.62 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 11 | 4.62 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 11 | 4.62 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 11 | 4.62 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 14 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 14 | 4.62 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 14 | 4.62 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 14 | 4.62 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 1 | 4.62 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 1 | 4.62 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 1 | 4.62 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 1 | 4.62 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 11 | 4.62 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 11 | 4.62 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 11 | 4.62 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 11 | 4.62 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 8 | 4.62 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 8 | 4.62 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 16 | 4.62 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 16 | 4.62 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 16 | 4.62 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 16 | 4.62 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 16 | 4.62 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 16 | 4.62 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 1 | 4.62 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 1 | 4.62 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 1 | 4.62 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 1 | 4.62 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 11 | 4.62 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 11 | 4.62 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 11 | 4.62 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 11 | 4.62 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 17 | 4.62 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 17 | 4.62 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 17 | 4.62 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 17 | 4.62 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 4 | 4.62 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 4 | 4.62 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 4 | 4.62 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 4 | 4.62 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 4 | 4.62 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 4 | 4.62 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 16 | 4.62 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 16 | 4.62 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 16 | 4.62 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 16 | 4.62 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 16 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 16 | 4.62 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 18 | 4.62 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 18 | 4.62 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 3 | 4.62 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 3 | 4.62 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 3 | 4.62 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 3 | 4.62 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 3 | 4.62 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 3 | 4.62 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 16 | 4.62 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 16 | 4.62 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 5 | 4.62 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 5 | 4.62 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 14 | 4.62 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 14 | 4.62 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 15 | 4.62 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 13 | 4.62 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 13 | 4.62 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 13 | 4.62 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 13 | 4.62 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 13 | 4.62 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 13 | 4.62 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 13 | 4.62 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 13 | 4.62 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 13 | 4.62 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 13 | 4.62 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 13 | 4.62 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 13 | 4.62 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 13 | 4.62 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 13 | 4.62 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 13 | 4.62 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 8 | 4.62 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 17 | 4.62 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 19 | 4.62 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 19 | 4.62 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 19 | 4.62 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 9 | 4.62 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 9 | 4.62 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 4 | 4.62 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 4 | 4.62 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 4 | 4.62 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 2 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 3 | 4.62 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 5 | 4.62 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 5 | 4.62 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 1 | 4.62 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 5 | 4.62 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 9 | 4.62 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 9 | 4.62 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 9 | 4.62 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 13 | 4.62 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 13 | 4.62 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 13 | 4.62 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 13 | 4.62 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 20 | 4.62 |
| (1,8179) | 1:102:A:ASP:H | 1:106:A:LEU:H | 7 | 4.62 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 5 | 4.62 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 9 | 4.62 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 9 | 4.62 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 1 | 4.62 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 1 | 4.62 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 18 | 4.62 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 18 | 4.62 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 17 | 4.62 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 19 | 4.62 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 19 | 4.62 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 19 | 4.62 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 7 | 4.62 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 7 | 4.62 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 14 | 4.62 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 14 | 4.62 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 8 | 4.62 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 14 | 4.62 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 14 | 4.62 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 14 | 4.62 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 14 | 4.62 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 14 | 4.62 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 14 | 4.62 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 14 | 4.62 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 14 | 4.62 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 14 | 4.62 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 7 | 4.62 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 15 | 4.62 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 16 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7880) | 1:65:A:SER:H | 1:82:A:LYS:HA | 9 | 4.62 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 20 | 4.62 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 13 | 4.62 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 13 | 4.62 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 13 | 4.62 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 7 | 4.62 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 7 | 4.62 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 7 | 4.62 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 7 | 4.62 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 7 | 4.62 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 7 | 4.62 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 8 | 4.62 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 8 | 4.62 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 8 | 4.62 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 8 | 4.62 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 8 | 4.62 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 8 | 4.62 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 8 | 4.62 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 8 | 4.62 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 8 | 4.62 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 1 | 4.62 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 10 | 4.62 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 10 | 4.62 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 10 | 4.62 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 10 | 4.62 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 10 | 4.62 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 10 | 4.62 |
| (1,7777) | 1:57:A:CYS:HB3 | 1:58:A:SER:HA | 8 | 4.62 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 2 | 4.62 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 1 | 4.62 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 7 | 4.62 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 7 | 4.62 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 20 | 4.62 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 16 | 4.62 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 10 | 4.62 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 10 | 4.62 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 15 | 4.62 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 17 | 4.62 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 7 | 4.62 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 12 | 4.62 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 6 | 4.62 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 6 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 6 | 4.62 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 5 | 4.62 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 8 | 4.62 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 8 | 4.62 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 7 | 4.62 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 7 | 4.62 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 13 | 4.62 |
| (1,7246) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 13 | 4.62 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 3 | 4.62 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 6 | 4.62 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 3 | 4.62 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 3 | 4.62 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 3 | 4.62 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 4.62 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 2 | 4.62 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 11 | 4.62 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 11 | 4.62 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 14 | 4.62 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 3 | 4.62 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 6 | 4.62 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 6 | 4.62 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 6 | 4.62 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 6 | 4.62 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 12 | 4.62 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 12 | 4.62 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 12 | 4.62 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 12 | 4.62 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 12 | 4.62 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 12 | 4.62 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 12 | 4.62 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 12 | 4.62 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 12 | 4.62 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 5 | 4.62 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 17 | 4.62 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 18 | 4.62 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 18 | 4.62 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 18 | 4.62 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 1 | 4.62 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 14 | 4.62 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 11 | 4.62 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 11 | 4.62 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 11 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 17 | 4.62 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 17 | 4.62 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 17 | 4.62 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 19 | 4.62 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 19 | 4.62 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 19 | 4.62 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 20 | 4.62 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 8 | 4.62 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 14 | 4.62 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 14 | 4.62 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 14 | 4.62 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 14 | 4.62 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 14 | 4.62 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 10 | 4.62 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 2 | 4.62 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 8 | 4.62 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 5 | 4.62 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 5 | 4.62 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 4 | 4.62 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 4 | 4.62 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 4 | 4.62 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 15 | 4.62 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 15 | 4.62 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 15 | 4.62 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 12 | 4.62 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 14 | 4.62 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 17 | 4.62 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 1 | 4.62 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 20 | 4.62 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 8 | 4.62 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 16 | 4.62 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 12 | 4.62 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 16 | 4.62 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 17 | 4.62 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 17 | 4.62 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 17 | 4.62 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 20 | 4.62 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 12 | 4.62 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 12 | 4.62 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 12 | 4.62 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 11 | 4.62 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 11 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 11 | 4.62 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 16 | 4.62 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 16 | 4.62 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 16 | 4.62 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 13 | 4.62 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 13 | 4.62 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 13 | 4.62 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 12 | 4.62 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 6 | 4.62 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 13 | 4.62 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 14 | 4.62 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 8 | 4.62 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 14 | 4.62 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 15 | 4.62 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 10 | 4.62 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 14 | 4.62 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 17 | 4.62 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 1 | 4.62 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 4 | 4.62 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 9 | 4.62 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 9 | 4.62 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 13 | 4.62 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 13 | 4.62 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 14 | 4.62 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 14 | 4.62 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 2 | 4.62 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 2 | 4.62 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 2 | 4.62 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 2 | 4.62 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 2 | 4.62 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 2 | 4.62 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 2 | 4.62 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 2 | 4.62 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 2 | 4.62 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 14 | 4.62 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 14 | 4.62 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 14 | 4.62 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 20 | 4.62 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 20 | 4.62 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 20 | 4.62 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 20 | 4.62 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 20 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 20 | 4.62 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 20 | 4.62 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 20 | 4.62 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 20 | 4.62 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 16 | 4.62 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 16 | 4.62 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 16 | 4.62 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 16 | 4.62 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 16 | 4.62 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 16 | 4.62 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 4.62 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 8 | 4.62 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 10 | 4.62 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 10 | 4.62 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 10 | 4.62 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 7 | 4.62 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 7 | 4.62 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 15 | 4.62 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 15 | 4.62 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 13 | 4.62 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 13 | 4.62 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 13 | 4.62 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 15 | 4.62 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 15 | 4.62 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 15 | 4.62 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 17 | 4.62 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 17 | 4.62 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 17 | 4.62 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 17 | 4.62 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 17 | 4.62 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 17 | 4.62 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 15 | 4.62 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 15 | 4.62 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 11 | 4.62 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 11 | 4.62 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 11 | 4.62 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 11 | 4.62 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 6 | 4.62 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 6 | 4.62 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 6 | 4.62 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 8 | 4.62 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 8 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 8 | 4.62 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 15 | 4.62 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 19 | 4.62 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 2 | 4.62 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 2 | 4.62 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 2 | 4.62 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 7 | 4.62 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 4.62 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 16 | 4.62 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 16 | 4.62 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 16 | 4.62 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 19 | 4.62 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 19 | 4.62 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 19 | 4.62 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 18 | 4.62 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 18 | 4.62 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 18 | 4.62 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 4.62 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 4.62 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 4.62 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 11 | 4.62 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 11 | 4.62 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 11 | 4.62 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 1 | 4.62 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 11 | 4.62 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 12 | 4.62 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 1 | 4.62 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 1 | 4.62 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 1 | 4.62 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 1 | 4.62 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 11 | 4.62 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 11 | 4.62 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 11 | 4.62 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 11 | 4.62 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 8 | 4.62 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 8 | 4.62 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 16 | 4.62 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 16 | 4.62 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 6 | 4.62 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 6 | 4.62 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 6 | 4.62 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 16 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 16 | 4.62 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 16 | 4.62 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 16 | 4.62 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 4 | 4.62 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 4 | 4.62 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 4 | 4.62 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 4 | 4.62 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 16 | 4.62 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 16 | 4.62 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 16 | 4.62 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 16 | 4.62 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 16 | 4.62 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 16 | 4.62 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 17 | 4.62 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 17 | 4.62 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 18 | 4.62 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 13 | 4.62 |
| (1,3448) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 13 | 4.62 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 3 | 4.62 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 8 | 4.62 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 8 | 4.62 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 8 | 4.62 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 7 | 4.62 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 7 | 4.62 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 7 | 4.62 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 10 | 4.62 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 6 | 4.62 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 3 | 4.62 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 3 | 4.62 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 3 | 4.62 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 10 | 4.62 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 11 | 4.62 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 4.62 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 2 | 4.62 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 11 | 4.62 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 19 | 4.62 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 19 | 4.62 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 19 | 4.62 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 11 | 4.62 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 14 | 4.62 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 3 | 4.62 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 6 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 6 | 4.62 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 6 | 4.62 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 6 | 4.62 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 8 | 4.62 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 8 | 4.62 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 8 | 4.62 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 8 | 4.62 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 8 | 4.62 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 8 | 4.62 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 12 | 4.62 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 12 | 4.62 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 12 | 4.62 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 12 | 4.62 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 12 | 4.62 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 12 | 4.62 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 12 | 4.62 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 12 | 4.62 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 12 | 4.62 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 5 | 4.62 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 17 | 4.62 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 2 | 4.62 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 2 | 4.62 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 2 | 4.62 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 12 | 4.62 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 18 | 4.62 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 18 | 4.62 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 18 | 4.62 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 1 | 4.62 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 14 | 4.62 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 11 | 4.62 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 11 | 4.62 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 11 | 4.62 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 17 | 4.62 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 17 | 4.62 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 17 | 4.62 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 19 | 4.62 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 19 | 4.62 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 19 | 4.62 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 20 | 4.62 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 8 | 4.62 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 14 | 4.62 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 14 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 14 | 4.62 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 14 | 4.62 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 14 | 4.62 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 5 | 4.62 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 5 | 4.62 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 5 | 4.62 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 14 | 4.62 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 14 | 4.62 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 14 | 4.62 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 19 | 4.62 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 10 | 4.62 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 7 | 4.62 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 9 | 4.62 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 9 | 4.62 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 2 | 4.62 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 2 | 4.62 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 2 | 4.62 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 2 | 4.62 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 2 | 4.62 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 2 | 4.62 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 2 | 4.62 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 8 | 4.62 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 5 | 4.62 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 5 | 4.62 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 2 | 4.62 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 2 | 4.62 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 2 | 4.62 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 4 | 4.62 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 4 | 4.62 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 4 | 4.62 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 15 | 4.62 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 15 | 4.62 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 15 | 4.62 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 12 | 4.62 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 5 | 4.62 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 5 | 4.62 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 5 | 4.62 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 8 | 4.62 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 8 | 4.62 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 14 | 4.62 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 17 | 4.62 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 17 | 4.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 17 | 4.62 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 1 | 4.62 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 20 | 4.62 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 8 | 4.62 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 16 | 4.62 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 12 | 4.62 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 16 | 4.62 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 17 | 4.62 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 17 | 4.62 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 17 | 4.62 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 20 | 4.62 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 19 | 4.62 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 19 | 4.62 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 19 | 4.62 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 19 | 4.62 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 19 | 4.62 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 19 | 4.62 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 18 | 4.62 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 7 | 4.62 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 7 | 4.62 |
| (1,6) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 7 | 4.62 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 17 | 4.61 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 18 | 4.61 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 11 | 4.61 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 15 | 4.61 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 20 | 4.61 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 20 | 4.61 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 20 | 4.61 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 20 | 4.61 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 20 | 4.61 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 20 | 4.61 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 16 | 4.61 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 16 | 4.61 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 16 | 4.61 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 16 | 4.61 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 16 | 4.61 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 16 | 4.61 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 10 | 4.61 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 10 | 4.61 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 7 | 4.61 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 7 | 4.61 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 11 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 11 | 4.61 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 11 | 4.61 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 11 | 4.61 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 11 | 4.61 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 11 | 4.61 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 3 | 4.61 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 3 | 4.61 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 14 | 4.61 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 14 | 4.61 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 9 | 4.61 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 9 | 4.61 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 9 | 4.61 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 9 | 4.61 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 9 | 4.61 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 9 | 4.61 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 1 | 4.61 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 1 | 4.61 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 1 | 4.61 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 1 | 4.61 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 19 | 4.61 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 19 | 4.61 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 16 | 4.61 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 16 | 4.61 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 16 | 4.61 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 16 | 4.61 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 4 | 4.61 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 4 | 4.61 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 4 | 4.61 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 4 | 4.61 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 4 | 4.61 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 4 | 4.61 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 14 | 4.61 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 14 | 4.61 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 11 | 4.61 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 11 | 4.61 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 15 | 4.61 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 15 | 4.61 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 13 | 4.61 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 13 | 4.61 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 12 | 4.61 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 12 | 4.61 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 5 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 5 | 4.61 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 15 | 4.61 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 15 | 4.61 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 17 | 4.61 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 17 | 4.61 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 17 | 4.61 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 17 | 4.61 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 17 | 4.61 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 17 | 4.61 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 5 | 4.61 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 5 | 4.61 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 5 | 4.61 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 5 | 4.61 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 5 | 4.61 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 5 | 4.61 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 3 | 4.61 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 3 | 4.61 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 7 | 4.61 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 7 | 4.61 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 7 | 4.61 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 7 | 4.61 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 16 | 4.61 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 16 | 4.61 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 5 | 4.61 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 5 | 4.61 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 20 | 4.61 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 20 | 4.61 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 14 | 4.61 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 14 | 4.61 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 14 | 4.61 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 14 | 4.61 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 6 | 4.61 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 6 | 4.61 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 9 | 4.61 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 9 | 4.61 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 16 | 4.61 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 16 | 4.61 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 12 | 4.61 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 12 | 4.61 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 12 | 4.61 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 12 | 4.61 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 12 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 12 | 4.61 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 3 | 4.61 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 3 | 4.61 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 3 | 4.61 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 3 | 4.61 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 17 | 4.61 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 17 | 4.61 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 8 | 4.61 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 8 | 4.61 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 8 | 4.61 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 20 | 4.61 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 20 | 4.61 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 20 | 4.61 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 7 | 4.61 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 5 | 4.61 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 5 | 4.61 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 5 | 4.61 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 8 | 4.61 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 5 | 4.61 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 5 | 4.61 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 20 | 4.61 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 17 | 4.61 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 18 | 4.61 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 18 | 4.61 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 18 | 4.61 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 14 | 4.61 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 16 | 4.61 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 11 | 4.61 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 6 | 4.61 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG2 | 16 | 4.61 |
| (1,8219) | 1:108:A:SER:H | 1:109:A:GLN:HG3 | 16 | 4.61 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 9 | 4.61 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 10 | 4.61 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 10 | 4.61 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 10 | 4.61 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 12 | 4.61 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 12 | 4.61 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 19 | 4.61 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 19 | 4.61 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 18 | 4.61 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 18 | 4.61 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 18 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 14 | 4.61 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 18 | 4.61 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 18 | 4.61 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 18 | 4.61 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 18 | 4.61 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 7 | 4.61 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 19 | 4.61 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 4 | 4.61 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 4 | 4.61 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 13 | 4.61 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 2 | 4.61 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 13 | 4.61 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 16 | 4.61 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 10 | 4.61 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 2 | 4.61 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 3 | 4.61 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 11 | 4.61 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 18 | 4.61 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 18 | 4.61 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 18 | 4.61 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 8 | 4.61 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 8 | 4.61 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 8 | 4.61 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 8 | 4.61 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 8 | 4.61 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 8 | 4.61 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 8 | 4.61 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 8 | 4.61 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 8 | 4.61 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 12 | 4.61 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 12 | 4.61 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 12 | 4.61 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 12 | 4.61 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 12 | 4.61 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 12 | 4.61 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 12 | 4.61 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 12 | 4.61 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 12 | 4.61 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 3 | 4.61 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 3 | 4.61 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 3 | 4.61 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 3 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 3 | 4.61 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 3 | 4.61 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 3 | 4.61 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 3 | 4.61 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 3 | 4.61 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 3 | 4.61 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 19 | 4.61 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 20 | 4.61 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 12 | 4.61 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 7 | 4.61 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 15 | 4.61 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 5 | 4.61 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 16 | 4.61 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 3 | 4.61 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 15 | 4.61 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 15 | 4.61 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 19 | 4.61 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 19 | 4.61 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 6 | 4.61 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 3 | 4.61 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 3 | 4.61 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 5 | 4.61 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 7 | 4.61 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 9 | 4.61 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 19 | 4.61 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 17 | 4.61 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 20 | 4.61 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 20 | 4.61 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 9 | 4.61 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 18 | 4.61 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 18 | 4.61 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 18 | 4.61 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 15 | 4.61 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 17 | 4.61 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 20 | 4.61 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 5 | 4.61 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 15 | 4.61 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 14 | 4.61 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 10 | 4.61 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 10 | 4.61 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 10 | 4.61 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 10 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 16 | 4.61 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 10 | 4.61 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 10 | 4.61 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 10 | 4.61 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 16 | 4.61 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 16 | 4.61 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 16 | 4.61 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 16 | 4.61 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 16 | 4.61 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 16 | 4.61 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 14 | 4.61 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 14 | 4.61 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 14 | 4.61 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 1 | 4.61 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 1 | 4.61 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 14 | 4.61 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 5 | 4.61 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 5 | 4.61 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 5 | 4.61 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 3 | 4.61 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 3 | 4.61 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 3 | 4.61 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 16 | 4.61 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 16 | 4.61 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 15 | 4.61 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 15 | 4.61 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 15 | 4.61 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 15 | 4.61 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 15 | 4.61 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 15 | 4.61 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 15 | 4.61 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 15 | 4.61 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 15 | 4.61 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 5 | 4.61 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 15 | 4.61 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 15 | 4.61 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 15 | 4.61 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 15 | 4.61 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 12 | 4.61 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 2 | 4.61 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 16 | 4.61 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 3 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 16 | 4.61 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 16 | 4.61 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 16 | 4.61 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 3 | 4.61 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 3 | 4.61 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 3 | 4.61 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 12 | 4.61 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 12 | 4.61 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 12 | 4.61 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 20 | 4.61 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 20 | 4.61 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 20 | 4.61 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 2 | 4.61 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 2 | 4.61 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 2 | 4.61 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 2 | 4.61 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 2 | 4.61 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 2 | 4.61 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 2 | 4.61 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 2 | 4.61 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 2 | 4.61 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 4 | 4.61 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 10 | 4.61 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 10 | 4.61 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 10 | 4.61 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 16 | 4.61 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 16 | 4.61 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 16 | 4.61 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 2 | 4.61 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 2 | 4.61 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 2 | 4.61 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 19 | 4.61 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 2 | 4.61 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 2 | 4.61 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 2 | 4.61 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 2 | 4.61 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 2 | 4.61 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 2 | 4.61 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 15 | 4.61 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 18 | 4.61 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 1 | 4.61 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 1 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 1 | 4.61 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 7 | 4.61 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 7 | 4.61 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 7 | 4.61 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 4 | 4.61 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 16 | 4.61 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 1 | 4.61 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 1 | 4.61 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 1 | 4.61 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 14 | 4.61 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 14 | 4.61 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 14 | 4.61 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 9 | 4.61 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 16 | 4.61 |
| (1,5671) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 20 | 4.61 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 15 | 4.61 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 15 | 4.61 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 15 | 4.61 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 2 | 4.61 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 18 | 4.61 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 11 | 4.61 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 10 | 4.61 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 10 | 4.61 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 10 | 4.61 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 12 | 4.61 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 12 | 4.61 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 12 | 4.61 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 2 | 4.61 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 2 | 4.61 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 2 | 4.61 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 3 | 4.61 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 16 | 4.61 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 16 | 4.61 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 16 | 4.61 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 16 | 4.61 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 16 | 4.61 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 16 | 4.61 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 16 | 4.61 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 16 | 4.61 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 16 | 4.61 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 13 | 4.61 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 13 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 13 | 4.61 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 9 | 4.61 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 9 | 4.61 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 9 | 4.61 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 1 | 4.61 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 9 | 4.61 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 10 | 4.61 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 20 | 4.61 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 7 | 4.61 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 7 | 4.61 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 7 | 4.61 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 11 | 4.61 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 7 | 4.61 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 7 | 4.61 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 6 | 4.61 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 6 | 4.61 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 6 | 4.61 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 6 | 4.61 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 15 | 4.61 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 9 | 4.61 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 9 | 4.61 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 9 | 4.61 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 17 | 4.61 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 11 | 4.61 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 11 | 4.61 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 11 | 4.61 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 6 | 4.61 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 5 | 4.61 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 5 | 4.61 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 5 | 4.61 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 5 | 4.61 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 5 | 4.61 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 5 | 4.61 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 14 | 4.61 |
| (1,4451) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 14 | 4.61 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 11 | 4.61 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 11 | 4.61 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 11 | 4.61 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 11 | 4.61 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 11 | 4.61 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 11 | 4.61 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 3 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 3 | 4.61 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 4 | 4.61 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 4 | 4.61 |
| (1,4298) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 4.61 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 9 | 4.61 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 9 | 4.61 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 9 | 4.61 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 9 | 4.61 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 9 | 4.61 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 9 | 4.61 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 4.61 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 4.61 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 4.61 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 4.61 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 1 | 4.61 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 1 | 4.61 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 1 | 4.61 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 1 | 4.61 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 2 | 4.61 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 19 | 4.61 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 19 | 4.61 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 16 | 4.61 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 11 | 4.61 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 11 | 4.61 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 15 | 4.61 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 15 | 4.61 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 12 | 4.61 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 12 | 4.61 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 3 | 4.61 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 4.61 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 4.61 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 4.61 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 17 | 4.61 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 17 | 4.61 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 17 | 4.61 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 17 | 4.61 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 17 | 4.61 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 17 | 4.61 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 12 | 4.61 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 12 | 4.61 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 4.61 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 4.61 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 5 | 4.61 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 5 | 4.61 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 5 | 4.61 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 5 | 4.61 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 5 | 4.61 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 5 | 4.61 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 18 | 4.61 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 14 | 4.61 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 6 | 4.61 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 19 | 4.61 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 19 | 4.61 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 19 | 4.61 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 19 | 4.61 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 3 | 4.61 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 8 | 4.61 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 17 | 4.61 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 17 | 4.61 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 16 | 4.61 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 14 | 4.61 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 14 | 4.61 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 14 | 4.61 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 6 | 4.61 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 10 | 4.61 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 10 | 4.61 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 10 | 4.61 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 2 | 4.61 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 17 | 4.61 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 20 | 4.61 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 16 | 4.61 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 16 | 4.61 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 16 | 4.61 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 16 | 4.61 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 16 | 4.61 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 16 | 4.61 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 17 | 4.61 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 14 | 4.61 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 14 | 4.61 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 14 | 4.61 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 12 | 4.61 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 17 | 4.61 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 1 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 1 | 4.61 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 14 | 4.61 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 8 | 4.61 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 5 | 4.61 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 5 | 4.61 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 5 | 4.61 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 3 | 4.61 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 3 | 4.61 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 3 | 4.61 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 7 | 4.61 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 7 | 4.61 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 7 | 4.61 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 7 | 4.61 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 7 | 4.61 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 7 | 4.61 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 16 | 4.61 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 16 | 4.61 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 15 | 4.61 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 15 | 4.61 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 15 | 4.61 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 15 | 4.61 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 15 | 4.61 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 15 | 4.61 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 15 | 4.61 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 15 | 4.61 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 15 | 4.61 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 15 | 4.61 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 15 | 4.61 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 12 | 4.61 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 12 | 4.61 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 12 | 4.61 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 10 | 4.61 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 10 | 4.61 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 10 | 4.61 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 3 | 4.61 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 3 | 4.61 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 3 | 4.61 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 5 | 4.61 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 18 | 4.61 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 15 | 4.61 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 9 | 4.61 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 12 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 15 | 4.61 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 16 | 4.61 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 15 | 4.61 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 15 | 4.61 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 15 | 4.61 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 12 | 4.61 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 2 | 4.61 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 16 | 4.61 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 3 | 4.61 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 2 | 4.61 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 2 | 4.61 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 2 | 4.61 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 1 | 4.61 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 1 | 4.61 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 1 | 4.61 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 6 | 4.61 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 6 | 4.61 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 6 | 4.61 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 16 | 4.61 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 16 | 4.61 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 16 | 4.61 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 13 | 4.61 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 20 | 4.61 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 20 | 4.61 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 20 | 4.61 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 7 | 4.61 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 7 | 4.61 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 7 | 4.61 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 3 | 4.61 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 3 | 4.61 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 3 | 4.61 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 12 | 4.61 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 12 | 4.61 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 12 | 4.61 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 20 | 4.61 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 20 | 4.61 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 20 | 4.61 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 2 | 4.61 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 2 | 4.61 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 2 | 4.61 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 2 | 4.61 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 2 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 2 | 4.61 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 2 | 4.61 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 2 | 4.61 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 2 | 4.61 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 12 | 4.61 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 4.61 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 5 | 4.61 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 4 | 4.61 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 10 | 4.61 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 10 | 4.61 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 10 | 4.61 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 16 | 4.61 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 16 | 4.61 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 16 | 4.61 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 2 | 4.61 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 2 | 4.61 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 2 | 4.61 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 19 | 4.61 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 17 | 4.61 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 17 | 4.61 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 17 | 4.61 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 17 | 4.61 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 17 | 4.61 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 17 | 4.61 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 2 | 4.61 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 2 | 4.61 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 2 | 4.61 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 2 | 4.61 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 2 | 4.61 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 2 | 4.61 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 15 | 4.61 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 18 | 4.61 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 1 | 4.61 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 1 | 4.61 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 1 | 4.61 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 7 | 4.61 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 7 | 4.61 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 7 | 4.61 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 4 | 4.61 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 16 | 4.61 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 1 | 4.61 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 1 | 4.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 1 | 4.61 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 14 | 4.61 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 14 | 4.61 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 14 | 4.61 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 17 | 4.61 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 9 | 4.61 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 16 | 4.61 |
| (1,928) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 20 | 4.61 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 3 | 4.61 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 1 | 4.61 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 1 | 4.61 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 1 | 4.61 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 16 | 4.61 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 16 | 4.61 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 9 | 4.61 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 18 | 4.61 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 14 | 4.61 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 14 | 4.61 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 15 | 4.61 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 15 | 4.61 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 15 | 4.61 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 2 | 4.61 |
| (1,604) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 15 | 4.61 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 13 | 4.61 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 18 | 4.61 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 11 | 4.61 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 20 | 4.61 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 20 | 4.61 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 20 | 4.61 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 16 | 4.61 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 8 | 4.61 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 13 | 4.6 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 12 | 4.6 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 5 | 4.6 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 5 | 4.6 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 5 | 4.6 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 5 | 4.6 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 5 | 4.6 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 5 | 4.6 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 10 | 4.6 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 10 | 4.6 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 10 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 10 | 4.6 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 10 | 4.6 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 10 | 4.6 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 10 | 4.6 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 10 | 4.6 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 10 | 4.6 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 10 | 4.6 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 10 | 4.6 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 10 | 4.6 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 2 | 4.6 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 2 | 4.6 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 6 | 4.6 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 6 | 4.6 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 6 | 4.6 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 6 | 4.6 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 6 | 4.6 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 6 | 4.6 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 19 | 4.6 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 19 | 4.6 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 19 | 4.6 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 19 | 4.6 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 19 | 4.6 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 19 | 4.6 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 14 | 4.6 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 14 | 4.6 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 18 | 4.6 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 18 | 4.6 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 17 | 4.6 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 17 | 4.6 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 1 | 4.6 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 1 | 4.6 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 15 | 4.6 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 15 | 4.6 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 15 | 4.6 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 15 | 4.6 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 18 | 4.6 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 18 | 4.6 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 18 | 4.6 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 18 | 4.6 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 18 | 4.6 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 18 | 4.6 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 16 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 16 | 4.6 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 20 | 4.6 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 20 | 4.6 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 6 | 4.6 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 6 | 4.6 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 5 | 4.6 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 5 | 4.6 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 1 | 4.6 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 1 | 4.6 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 1 | 4.6 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 1 | 4.6 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 1 | 4.6 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 1 | 4.6 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 7 | 4.6 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 7 | 4.6 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 7 | 4.6 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 7 | 4.6 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 4 | 4.6 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 4 | 4.6 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 9 | 4.6 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 9 | 4.6 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 5 | 4.6 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 5 | 4.6 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 5 | 4.6 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 5 | 4.6 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 5 | 4.6 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 5 | 4.6 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 7 | 4.6 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 7 | 4.6 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 1 | 4.6 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 1 | 4.6 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 1 | 4.6 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 1 | 4.6 |
| (1,9075) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 12 | 4.6 |
| (1,9075) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 12 | 4.6 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 9 | 4.6 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 9 | 4.6 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 6 | 4.6 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 6 | 4.6 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 2 | 4.6 |
| (1,9046) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 2 | 4.6 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 6 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 6 | 4.6 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 8 | 4.6 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 8 | 4.6 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 17 | 4.6 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 17 | 4.6 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 8 | 4.6 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 8 | 4.6 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 8 | 4.6 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 8 | 4.6 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 2 | 4.6 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 2 | 4.6 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 2 | 4.6 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 2 | 4.6 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 15 | 4.6 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 15 | 4.6 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 14 | 4.6 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 14 | 4.6 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 2 | 4.6 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 2 | 4.6 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 4 | 4.6 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 4 | 4.6 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 8 | 4.6 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 8 | 4.6 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 12 | 4.6 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 12 | 4.6 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 12 | 4.6 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 20 | 4.6 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 17 | 4.6 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 5 | 4.6 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 5 | 4.6 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 5 | 4.6 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 5 | 4.6 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 5 | 4.6 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 5 | 4.6 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 5 | 4.6 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 5 | 4.6 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 5 | 4.6 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 19 | 4.6 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 19 | 4.6 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 19 | 4.6 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 19 | 4.6 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 19 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 19 | 4.6 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 9 | 4.6 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 10 | 4.6 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 14 | 4.6 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 8 | 4.6 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 8 | 4.6 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 1 | 4.6 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 15 | 4.6 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 4 | 4.6 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 8 | 4.6 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 14 | 4.6 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 14 | 4.6 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 6 | 4.6 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 11 | 4.6 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 14 | 4.6 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 18 | 4.6 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 17 | 4.6 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 8 | 4.6 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 8 | 4.6 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 16 | 4.6 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 16 | 4.6 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 16 | 4.6 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 17 | 4.6 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 3 | 4.6 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 3 | 4.6 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 3 | 4.6 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 3 | 4.6 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 6 | 4.6 |
| (1,8037) | 1:87:A:GLU:H | 1:88:A:LEU:HA | 1 | 4.6 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 18 | 4.6 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 18 | 4.6 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 18 | 4.6 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 3 | 4.6 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 3 | 4.6 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 13 | 4.6 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 13 | 4.6 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 9 | 4.6 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 14 | 4.6 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 2 | 4.6 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 9 | 4.6 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 2 | 4.6 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 2 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 2 | 4.6 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 11 | 4.6 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 8 | 4.6 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 8 | 4.6 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 8 | 4.6 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 19 | 4.6 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 19 | 4.6 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 19 | 4.6 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 9 | 4.6 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 9 | 4.6 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 9 | 4.6 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 19 | 4.6 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 3 | 4.6 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 3 | 4.6 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 18 | 4.6 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 18 | 4.6 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 4 | 4.6 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 20 | 4.6 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 8 | 4.6 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 8 | 4.6 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 8 | 4.6 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 2 | 4.6 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 16 | 4.6 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 16 | 4.6 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 15 | 4.6 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 17 | 4.6 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 10 | 4.6 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 10 | 4.6 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 10 | 4.6 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 17 | 4.6 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 14 | 4.6 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 14 | 4.6 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 14 | 4.6 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 20 | 4.6 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 3 | 4.6 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 7 | 4.6 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 9 | 4.6 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 9 | 4.6 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 5 | 4.6 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 2 | 4.6 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 13 | 4.6 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 14 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 14 | 4.6 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 14 | 4.6 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 15 | 4.6 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 16 | 4.6 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 19 | 4.6 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 19 | 4.6 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 19 | 4.6 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 10 | 4.6 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 3 | 4.6 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 3 | 4.6 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 3 | 4.6 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 17 | 4.6 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 17 | 4.6 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 17 | 4.6 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 6 | 4.6 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 6 | 4.6 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 6 | 4.6 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 4 | 4.6 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 4 | 4.6 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 4 | 4.6 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 13 | 4.6 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 5 | 4.6 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 4 | 4.6 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 13 | 4.6 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 18 | 4.6 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 10 | 4.6 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 14 | 4.6 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 16 | 4.6 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 9 | 4.6 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 9 | 4.6 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 9 | 4.6 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 9 | 4.6 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 9 | 4.6 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 9 | 4.6 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 14 | 4.6 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 13 | 4.6 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 13 | 4.6 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 13 | 4.6 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 15 | 4.6 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 15 | 4.6 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 15 | 4.6 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 17 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 17 | 4.6 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 17 | 4.6 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 12 | 4.6 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 8 | 4.6 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 1 | 4.6 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 9 | 4.6 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 17 | 4.6 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 17 | 4.6 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 17 | 4.6 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 18 | 4.6 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 20 | 4.6 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 2 | 4.6 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 2 | 4.6 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 2 | 4.6 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 2 | 4.6 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 14 | 4.6 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 15 | 4.6 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 7 | 4.6 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 4 | 4.6 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 4 | 4.6 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 5 | 4.6 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 5 | 4.6 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 17 | 4.6 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 4 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 16 | 4.6 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 16 | 4.6 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 4 | 4.6 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 7 | 4.6 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 1 | 4.6 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 1 | 4.6 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 1 | 4.6 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 4 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 4 | 4.6 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 4 | 4.6 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 6 | 4.6 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 6 | 4.6 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 6 | 4.6 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 9 | 4.6 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 9 | 4.6 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 9 | 4.6 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 17 | 4.6 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 17 | 4.6 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 17 | 4.6 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 13 | 4.6 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 16 | 4.6 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 1 | 4.6 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 1 | 4.6 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 1 | 4.6 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 1 | 4.6 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 11 | 4.6 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 11 | 4.6 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 11 | 4.6 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 3 | 4.6 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 5 | 4.6 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 17 | 4.6 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 19 | 4.6 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 19 | 4.6 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 19 | 4.6 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 3 | 4.6 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 16 | 4.6 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 14 | 4.6 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 5 | 4.6 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 5 | 4.6 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 5 | 4.6 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 16 | 4.6 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 4.6 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 2 | 4.6 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 2 | 4.6 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 2 | 4.6 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 17 | 4.6 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 17 | 4.6 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 17 | 4.6 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 6 | 4.6 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 16 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 8 | 4.6 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 4 | 4.6 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 6 | 4.6 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 6 | 4.6 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 6 | 4.6 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 20 | 4.6 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 20 | 4.6 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 20 | 4.6 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 1 | 4.6 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 20 | 4.6 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 20 | 4.6 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 20 | 4.6 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 20 | 4.6 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 20 | 4.6 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 20 | 4.6 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 14 | 4.6 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 14 | 4.6 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 14 | 4.6 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 5 | 4.6 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 5 | 4.6 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 5 | 4.6 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 5 | 4.6 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 5 | 4.6 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 5 | 4.6 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 2 | 4.6 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 2 | 4.6 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 18 | 4.6 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 18 | 4.6 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 18 | 4.6 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 18 | 4.6 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 4 | 4.6 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 13 | 4.6 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 15 | 4.6 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 15 | 4.6 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 15 | 4.6 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 15 | 4.6 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 2 | 4.6 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 2 | 4.6 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 6 | 4.6 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 6 | 4.6 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 5 | 4.6 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 5 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 7 | 4.6 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 7 | 4.6 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 7 | 4.6 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 7 | 4.6 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 20 | 4.6 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 5 | 4.6 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 5 | 4.6 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 5 | 4.6 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 5 | 4.6 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 5 | 4.6 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 5 | 4.6 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 7 | 4.6 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 7 | 4.6 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 7 | 4.6 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 7 | 4.6 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 7 | 4.6 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 9 | 4.6 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 9 | 4.6 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 2 | 4.6 |
| (1,4016) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 2 | 4.6 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 6 | 4.6 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 12 | 4.6 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 12 | 4.6 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 12 | 4.6 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 12 | 4.6 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 12 | 4.6 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 12 | 4.6 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 13 | 4.6 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 13 | 4.6 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 15 | 4.6 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 15 | 4.6 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 17 | 4.6 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 17 | 4.6 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 7 | 4.6 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 3 | 4.6 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 15 | 4.6 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 15 | 4.6 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 6 | 4.6 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 6 | 4.6 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 2 | 4.6 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 2 | 4.6 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 2 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 2 | 4.6 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 2 | 4.6 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 2 | 4.6 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 2 | 4.6 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 2 | 4.6 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 4 | 4.6 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 4 | 4.6 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 11 | 4.6 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 11 | 4.6 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 15 | 4.6 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 16 | 4.6 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 8 | 4.6 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 19 | 4.6 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 19 | 4.6 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 19 | 4.6 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 10 | 4.6 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 12 | 4.6 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 8 | 4.6 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 3 | 4.6 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 3 | 4.6 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 3 | 4.6 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 17 | 4.6 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 17 | 4.6 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 17 | 4.6 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 6 | 4.6 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 6 | 4.6 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 6 | 4.6 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 4 | 4.6 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 4 | 4.6 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 4 | 4.6 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 13 | 4.6 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 5 | 4.6 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 5 | 4.6 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 4 | 4.6 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 13 | 4.6 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 18 | 4.6 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 10 | 4.6 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 14 | 4.6 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 16 | 4.6 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 9 | 4.6 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 9 | 4.6 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 9 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 9 | 4.6 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 9 | 4.6 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 9 | 4.6 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 14 | 4.6 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 15 | 4.6 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 15 | 4.6 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 15 | 4.6 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 13 | 4.6 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 13 | 4.6 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 13 | 4.6 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 15 | 4.6 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 15 | 4.6 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 15 | 4.6 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 17 | 4.6 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 17 | 4.6 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 17 | 4.6 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 2 | 4.6 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 12 | 4.6 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 4 | 4.6 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 8 | 4.6 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 1 | 4.6 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 9 | 4.6 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 13 | 4.6 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 17 | 4.6 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 17 | 4.6 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 17 | 4.6 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 17 | 4.6 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 18 | 4.6 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 20 | 4.6 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 18 | 4.6 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 18 | 4.6 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 18 | 4.6 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 13 | 4.6 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 13 | 4.6 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 13 | 4.6 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 2 | 4.6 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 2 | 4.6 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 2 | 4.6 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 2 | 4.6 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 2 | 4.6 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 14 | 4.6 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 2 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 15 | 4.6 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 7 | 4.6 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 9 | 4.6 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 9 | 4.6 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 9 | 4.6 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 4 | 4.6 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 4 | 4.6 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 5 | 4.6 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 5 | 4.6 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 15 | 4.6 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 15 | 4.6 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 15 | 4.6 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 17 | 4.6 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 4 | 4.6 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 4 | 4.6 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 7 | 4.6 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 1 | 4.6 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 1 | 4.6 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 1 | 4.6 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 4 | 4.6 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 4 | 4.6 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 4 | 4.6 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 16 | 4.6 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 6 | 4.6 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 6 | 4.6 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 6 | 4.6 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 9 | 4.6 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 9 | 4.6 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 9 | 4.6 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 17 | 4.6 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 17 | 4.6 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 17 | 4.6 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 13 | 4.6 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 11 | 4.6 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 11 | 4.6 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 11 | 4.6 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 13 | 4.6 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 16 | 4.6 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 5 | 4.6 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 16 | 4.6 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 1 | 4.6 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 4.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 4 | 4.6 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 17 | 4.6 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 17 | 4.6 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 17 | 4.6 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 4 | 4.59 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 16 | 4.59 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 16 | 4.59 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 16 | 4.59 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 16 | 4.59 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 16 | 4.59 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 16 | 4.59 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 4 | 4.59 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 4 | 4.59 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 4 | 4.59 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 4 | 4.59 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 4 | 4.59 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 4 | 4.59 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 3 | 4.59 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 3 | 4.59 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 16 | 4.59 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 16 | 4.59 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 8 | 4.59 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 8 | 4.59 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 8 | 4.59 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 8 | 4.59 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 8 | 4.59 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 8 | 4.59 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 8 | 4.59 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 8 | 4.59 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 8 | 4.59 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 8 | 4.59 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 8 | 4.59 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 8 | 4.59 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 4 | 4.59 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 4 | 4.59 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 1 | 4.59 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 1 | 4.59 |
| (1,9375) | 1:117:A:LYS:HB2 | 1:119:A:ARG:H | 19 | 4.59 |
| (1,9375) | 1:117:A:LYS:HB3 | 1:119:A:ARG:H | 19 | 4.59 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 4 | 4.59 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 4 | 4.59 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 14 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 14 | 4.59 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 7 | 4.59 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 7 | 4.59 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 11 | 4.59 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 11 | 4.59 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 2 | 4.59 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 2 | 4.59 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 2 | 4.59 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 2 | 4.59 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 2 | 4.59 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 2 | 4.59 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 19 | 4.59 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 19 | 4.59 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 19 | 4.59 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 19 | 4.59 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 18 | 4.59 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 18 | 4.59 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 18 | 4.59 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 18 | 4.59 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 18 | 4.59 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 18 | 4.59 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 7 | 4.59 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 7 | 4.59 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 6 | 4.59 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 6 | 4.59 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 6 | 4.59 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 6 | 4.59 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 6 | 4.59 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 6 | 4.59 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 20 | 4.59 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 20 | 4.59 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 20 | 4.59 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 20 | 4.59 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 14 | 4.59 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 14 | 4.59 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 14 | 4.59 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 14 | 4.59 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 14 | 4.59 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 14 | 4.59 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 4.59 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 4.59 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 9 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 9 | 4.59 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 15 | 4.59 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 15 | 4.59 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 15 | 4.59 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 15 | 4.59 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 15 | 4.59 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 15 | 4.59 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 18 | 4.59 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 18 | 4.59 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 10 | 4.59 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 10 | 4.59 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 7 | 4.59 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 7 | 4.59 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 7 | 4.59 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 7 | 4.59 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 15 | 4.59 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 15 | 4.59 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 3 | 4.59 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 3 | 4.59 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 18 | 4.59 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 18 | 4.59 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 10 | 4.59 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 10 | 4.59 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 20 | 4.59 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 20 | 4.59 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 20 | 4.59 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 20 | 4.59 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 11 | 4.59 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 11 | 4.59 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 2 | 4.59 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 2 | 4.59 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 12 | 4.59 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 4 | 4.59 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 4 | 4.59 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 4 | 4.59 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 4 | 4.59 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 4 | 4.59 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 4 | 4.59 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 4 | 4.59 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 4 | 4.59 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 4 | 4.59 |
| (1,8477) | 1:152:A:THR:H | 1:157:A:HIS:H | 1 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 16 | 4.59 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 13 | 4.59 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 2 | 4.59 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 2 | 4.59 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 11 | 4.59 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 11 | 4.59 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 7 | 4.59 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 7 | 4.59 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 7 | 4.59 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 20 | 4.59 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 7 | 4.59 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 7 | 4.59 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 17 | 4.59 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 17 | 4.59 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 16 | 4.59 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 7 | 4.59 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 18 | 4.59 |
| (1,8207) | 1:107:A:ALA:HA | 1:108:A:SER:HA | 4 | 4.59 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 3 | 4.59 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 3 | 4.59 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 3 | 4.59 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 15 | 4.59 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 15 | 4.59 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 10 | 4.59 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 10 | 4.59 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 10 | 4.59 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 5 | 4.59 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 20 | 4.59 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 10 | 4.59 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 4 | 4.59 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 20 | 4.59 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 20 | 4.59 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 20 | 4.59 |
| (1,8044) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 7 | 4.59 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 6 | 4.59 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 6 | 4.59 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 6 | 4.59 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 6 | 4.59 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 6 | 4.59 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 6 | 4.59 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 6 | 4.59 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 6 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 6 | 4.59 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 15 | 4.59 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 15 | 4.59 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 15 | 4.59 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 15 | 4.59 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 15 | 4.59 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 15 | 4.59 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 15 | 4.59 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 15 | 4.59 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 15 | 4.59 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 9 | 4.59 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 9 | 4.59 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 9 | 4.59 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 3 | 4.59 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 20 | 4.59 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 9 | 4.59 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 9 | 4.59 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 9 | 4.59 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 13 | 4.59 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 8 | 4.59 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 3 | 4.59 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 6 | 4.59 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 10 | 4.59 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 16 | 4.59 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 14 | 4.59 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 14 | 4.59 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 14 | 4.59 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 14 | 4.59 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 14 | 4.59 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 14 | 4.59 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 3 | 4.59 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 3 | 4.59 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 3 | 4.59 |
| (1,7840) | 1:61:A:LEU:HD11 | 1:112:A:ASP:H | 10 | 4.59 |
| (1,7840) | 1:61:A:LEU:HD12 | 1:112:A:ASP:H | 10 | 4.59 |
| (1,7840) | 1:61:A:LEU:HD13 | 1:112:A:ASP:H | 10 | 4.59 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 2 | 4.59 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 2 | 4.59 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 2 | 4.59 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 2 | 4.59 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 2 | 4.59 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 2 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 14 | 4.59 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 14 | 4.59 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 14 | 4.59 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 4 | 4.59 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 5 | 4.59 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 10 | 4.59 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 15 | 4.59 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 12 | 4.59 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 7 | 4.59 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 14 | 4.59 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 11 | 4.59 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 15 | 4.59 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 9 | 4.59 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 9 | 4.59 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 9 | 4.59 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 20 | 4.59 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 20 | 4.59 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 10 | 4.59 |
| (1,7570) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 1 | 4.59 |
| (1,7570) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 1 | 4.59 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 1 | 4.59 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 1 | 4.59 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 7 | 4.59 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 7 | 4.59 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 10 | 4.59 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 10 | 4.59 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 5 | 4.59 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 16 | 4.59 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 16 | 4.59 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 16 | 4.59 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 6 | 4.59 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 13 | 4.59 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 13 | 4.59 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 14 | 4.59 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 3 | 4.59 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 4 | 4.59 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 6 | 4.59 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 6 | 4.59 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 16 | 4.59 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 11 | 4.59 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 5 | 4.59 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 12 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 12 | 4.59 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 12 | 4.59 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 19 | 4.59 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 5 | 4.59 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 11 | 4.59 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 11 | 4.59 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 3 | 4.59 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 3 | 4.59 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 13 | 4.59 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 13 | 4.59 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 4 | 4.59 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 6 | 4.59 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 6 | 4.59 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 6 | 4.59 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 17 | 4.59 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 17 | 4.59 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 3 | 4.59 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 16 | 4.59 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 16 | 4.59 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 16 | 4.59 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 11 | 4.59 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 11 | 4.59 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 4 | 4.59 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 18 | 4.59 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 9 | 4.59 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 11 | 4.59 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 3 | 4.59 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 3 | 4.59 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 3 | 4.59 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 14 | 4.59 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 12 | 4.59 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 12 | 4.59 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 12 | 4.59 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 19 | 4.59 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 19 | 4.59 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 19 | 4.59 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 3 | 4.59 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 6 | 4.59 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 9 | 4.59 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 10 | 4.59 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 6 | 4.59 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 13 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 16 | 4.59 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 16 | 4.59 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 16 | 4.59 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 17 | 4.59 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 17 | 4.59 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 17 | 4.59 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 3 | 4.59 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 3 | 4.59 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 3 | 4.59 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 3 | 4.59 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 3 | 4.59 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 3 | 4.59 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 14 | 4.59 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 18 | 4.59 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 6 | 4.59 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 6 | 4.59 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 8 | 4.59 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 8 | 4.59 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 8 | 4.59 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 19 | 4.59 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 6 | 4.59 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 6 | 4.59 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 6 | 4.59 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 13 | 4.59 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 13 | 4.59 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 13 | 4.59 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 16 | 4.59 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 9 | 4.59 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 16 | 4.59 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 16 | 4.59 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 16 | 4.59 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 3 | 4.59 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 15 | 4.59 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 15 | 4.59 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 15 | 4.59 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 4 | 4.59 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 4 | 4.59 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 4 | 4.59 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 8 | 4.59 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 8 | 4.59 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 8 | 4.59 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 1 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 13 | 4.59 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 11 | 4.59 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 4.59 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 10 | 4.59 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 16 | 4.59 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 20 | 4.59 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 13 | 4.59 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 13 | 4.59 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 13 | 4.59 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 11 | 4.59 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 17 | 4.59 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 5 | 4.59 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 17 | 4.59 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 17 | 4.59 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 6 | 4.59 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 18 | 4.59 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 18 | 4.59 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 18 | 4.59 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 1 | 4.59 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 1 | 4.59 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 1 | 4.59 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 1 | 4.59 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 1 | 4.59 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 1 | 4.59 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 1 | 4.59 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 1 | 4.59 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 1 | 4.59 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 20 | 4.59 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 1 | 4.59 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 1 | 4.59 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 1 | 4.59 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 7 | 4.59 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 7 | 4.59 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 7 | 4.59 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 10 | 4.59 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 13 | 4.59 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 16 | 4.59 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 16 | 4.59 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 16 | 4.59 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 16 | 4.59 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 16 | 4.59 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 16 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 14 | 4.59 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 14 | 4.59 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 14 | 4.59 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 4 | 4.59 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 4 | 4.59 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 4 | 4.59 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 4 | 4.59 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 4 | 4.59 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 4 | 4.59 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 8 | 4.59 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 8 | 4.59 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 8 | 4.59 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 8 | 4.59 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 8 | 4.59 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 8 | 4.59 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 8 | 4.59 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 8 | 4.59 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 14 | 4.59 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 14 | 4.59 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 14 | 4.59 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 14 | 4.59 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 2 | 4.59 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 4.59 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 11 | 4.59 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 11 | 4.59 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 18 | 4.59 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 18 | 4.59 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 9 | 4.59 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 9 | 4.59 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 9 | 4.59 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 18 | 4.59 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 18 | 4.59 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 4 | 4.59 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 11 | 4.59 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 19 | 4.59 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 19 | 4.59 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 19 | 4.59 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 19 | 4.59 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 2 | 4.59 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 18 | 4.59 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 18 | 4.59 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 18 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 18 | 4.59 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 18 | 4.59 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 18 | 4.59 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 12 | 4.59 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 12 | 4.59 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 12 | 4.59 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 13 | 4.59 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 13 | 4.59 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 13 | 4.59 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 6 | 4.59 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 6 | 4.59 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 6 | 4.59 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 6 | 4.59 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 6 | 4.59 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 6 | 4.59 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 17 | 4.59 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 12 | 4.59 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 10 | 4.59 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 10 | 4.59 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 10 | 4.59 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 10 | 4.59 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 10 | 4.59 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 10 | 4.59 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 11 | 4.59 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 11 | 4.59 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 20 | 4.59 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 4.59 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 4.59 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 16 | 4.59 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 9 | 4.59 |
| (1,3604) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 1 | 4.59 |
| (1,3604) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 1 | 4.59 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 7 | 4.59 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 7 | 4.59 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 7 | 4.59 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 7 | 4.59 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 4.59 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 19 | 4.59 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 19 | 4.59 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 19 | 4.59 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 5 | 4.59 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 12 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 12 | 4.59 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 12 | 4.59 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 4 | 4.59 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 19 | 4.59 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 5 | 4.59 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 5 | 4.59 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 5 | 4.59 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 18 | 4.59 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 5 | 4.59 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 11 | 4.59 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 11 | 4.59 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 3 | 4.59 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 3 | 4.59 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 13 | 4.59 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 13 | 4.59 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 14 | 4.59 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 1 | 4.59 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 1 | 4.59 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 1 | 4.59 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 4 | 4.59 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 9 | 4.59 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 6 | 4.59 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 6 | 4.59 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 6 | 4.59 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 17 | 4.59 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 17 | 4.59 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 3 | 4.59 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 16 | 4.59 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 16 | 4.59 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 16 | 4.59 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 16 | 4.59 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 16 | 4.59 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 16 | 4.59 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 11 | 4.59 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 11 | 4.59 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 4 | 4.59 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 18 | 4.59 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 9 | 4.59 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 11 | 4.59 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 3 | 4.59 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 3 | 4.59 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 3 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 18 | 4.59 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 13 | 4.59 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 9 | 4.59 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 9 | 4.59 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 9 | 4.59 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 14 | 4.59 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 9 | 4.59 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 12 | 4.59 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 12 | 4.59 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 12 | 4.59 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 12 | 4.59 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 19 | 4.59 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 19 | 4.59 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 19 | 4.59 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 6 | 4.59 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 6 | 4.59 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 6 | 4.59 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 8 | 4.59 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 4.59 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 4.59 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 4.59 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 5 | 4.59 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 3 | 4.59 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 6 | 4.59 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 9 | 4.59 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 10 | 4.59 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 6 | 4.59 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 13 | 4.59 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 16 | 4.59 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 16 | 4.59 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 16 | 4.59 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 18 | 4.59 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 18 | 4.59 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 18 | 4.59 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 12 | 4.59 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 12 | 4.59 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 12 | 4.59 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 14 | 4.59 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 3 | 4.59 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 3 | 4.59 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 3 | 4.59 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 3 | 4.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 3 | 4.59 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 3 | 4.59 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 20 | 4.59 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 20 | 4.59 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 20 | 4.59 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 14 | 4.59 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 18 | 4.59 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 6 | 4.59 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 6 | 4.59 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 8 | 4.59 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 8 | 4.59 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 8 | 4.59 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 19 | 4.59 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 6 | 4.59 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 6 | 4.59 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 6 | 4.59 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 13 | 4.59 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 13 | 4.59 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 13 | 4.59 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 16 | 4.59 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 9 | 4.59 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 11 | 4.59 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 8 | 4.59 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 14 | 4.59 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 16 | 4.59 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 16 | 4.59 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 16 | 4.59 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 3 | 4.59 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 15 | 4.59 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 6 | 4.59 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 6 | 4.59 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 6 | 4.59 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 10 | 4.59 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 10 | 4.59 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 10 | 4.59 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 4 | 4.58 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 7 | 4.58 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 7 | 4.58 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 16 | 4.58 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 16 | 4.58 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 2 | 4.58 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 2 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 12 | 4.58 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 12 | 4.58 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 12 | 4.58 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 12 | 4.58 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 12 | 4.58 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 12 | 4.58 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 18 | 4.58 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 18 | 4.58 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 18 | 4.58 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 18 | 4.58 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 18 | 4.58 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 18 | 4.58 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 3 | 4.58 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 3 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 2 | 4.58 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 2 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 10 | 4.58 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 10 | 4.58 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 15 | 4.58 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 15 | 4.58 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 15 | 4.58 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 15 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 15 | 4.58 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 15 | 4.58 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 15 | 4.58 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 15 | 4.58 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 6 | 4.58 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 6 | 4.58 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 16 | 4.58 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 16 | 4.58 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 16 | 4.58 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 16 | 4.58 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 14 | 4.58 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 14 | 4.58 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 15 | 4.58 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 15 | 4.58 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 15 | 4.58 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 15 | 4.58 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 17 | 4.58 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 17 | 4.58 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 16 | 4.58 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 16 | 4.58 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 16 | 4.58 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 16 | 4.58 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 16 | 4.58 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 16 | 4.58 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 13 | 4.58 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 13 | 4.58 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 7 | 4.58 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 7 | 4.58 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 2 | 4.58 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 2 | 4.58 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 18 | 4.58 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 18 | 4.58 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 18 | 4.58 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 18 | 4.58 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 18 | 4.58 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 18 | 4.58 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 17 | 4.58 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 17 | 4.58 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 17 | 4.58 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 17 | 4.58 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 17 | 4.58 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 17 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 16 | 4.58 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 16 | 4.58 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 4 | 4.58 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 4 | 4.58 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 4.58 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 4.58 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 4 | 4.58 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 4 | 4.58 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 4 | 4.58 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 4 | 4.58 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 4 | 4.58 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 4 | 4.58 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 11 | 4.58 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 11 | 4.58 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 11 | 4.58 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 11 | 4.58 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 13 | 4.58 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 13 | 4.58 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 13 | 4.58 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 13 | 4.58 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 13 | 4.58 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 13 | 4.58 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 18 | 4.58 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 18 | 4.58 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 13 | 4.58 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 13 | 4.58 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 4 | 4.58 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 4 | 4.58 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 13 | 4.58 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 13 | 4.58 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 19 | 4.58 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 19 | 4.58 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 19 | 4.58 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 19 | 4.58 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 19 | 4.58 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 19 | 4.58 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 7 | 4.58 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 7 | 4.58 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 10 | 4.58 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 10 | 4.58 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 10 | 4.58 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 10 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 9 | 4.58 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 9 | 4.58 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 9 | 4.58 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 9 | 4.58 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 15 | 4.58 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 15 | 4.58 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 18 | 4.58 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 18 | 4.58 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 7 | 4.58 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 7 | 4.58 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 16 | 4.58 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 16 | 4.58 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB2 | 18 | 4.58 |
| (1,8530) | 1:2:A:ALA:HA | 1:3:A:ASP:HB3 | 18 | 4.58 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 18 | 4.58 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 13 | 4.58 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 13 | 4.58 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 13 | 4.58 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 1 | 4.58 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 1 | 4.58 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 1 | 4.58 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 1 | 4.58 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 12 | 4.58 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 10 | 4.58 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 10 | 4.58 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 10 | 4.58 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 10 | 4.58 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 10 | 4.58 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 10 | 4.58 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 10 | 4.58 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 10 | 4.58 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 10 | 4.58 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 7 | 4.58 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 19 | 4.58 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 15 | 4.58 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 15 | 4.58 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 15 | 4.58 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 7 | 4.58 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 7 | 4.58 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 7 | 4.58 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 11 | 4.58 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 6 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 6 | 4.58 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 2 | 4.58 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 18 | 4.58 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 16 | 4.58 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 16 | 4.58 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 16 | 4.58 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 17 | 4.58 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 17 | 4.58 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 3 | 4.58 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 5 | 4.58 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 19 | 4.58 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 6 | 4.58 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 7 | 4.58 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 15 | 4.58 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 15 | 4.58 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 3 | 4.58 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 14 | 4.58 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 20 | 4.58 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 20 | 4.58 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 20 | 4.58 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 10 | 4.58 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 16 | 4.58 |
| (1,8175) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 7 | 4.58 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 1 | 4.58 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 9 | 4.58 |
| (1,8103) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 9 | 4.58 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 3 | 4.58 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 3 | 4.58 |
| (1,8088) | 1:92:A:TYR:HD1 | 1:93:A:ILE:H | 20 | 4.58 |
| (1,8088) | 1:92:A:TYR:HD2 | 1:93:A:ILE:H | 20 | 4.58 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 20 | 4.58 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 20 | 4.58 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 11 | 4.58 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 17 | 4.58 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 17 | 4.58 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 17 | 4.58 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 2 | 4.58 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 19 | 4.58 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 19 | 4.58 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 19 | 4.58 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 19 | 4.58 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 19 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 19 | 4.58 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 19 | 4.58 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 19 | 4.58 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 19 | 4.58 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 19 | 4.58 |
| (1,7975) | 1:78:A:ILE:H | 1:79:A:THR:HA | 4 | 4.58 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 20 | 4.58 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 20 | 4.58 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 20 | 4.58 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 6 | 4.58 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 13 | 4.58 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 13 | 4.58 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 3 | 4.58 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 7 | 4.58 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 7 | 4.58 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 7 | 4.58 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 9 | 4.58 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 9 | 4.58 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 9 | 4.58 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 8 | 4.58 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 8 | 4.58 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 8 | 4.58 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 8 | 4.58 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 8 | 4.58 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 8 | 4.58 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 8 | 4.58 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 8 | 4.58 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 8 | 4.58 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 8 | 4.58 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 8 | 4.58 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 8 | 4.58 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 8 | 4.58 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 8 | 4.58 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 8 | 4.58 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 13 | 4.58 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 13 | 4.58 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 13 | 4.58 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 13 | 4.58 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 13 | 4.58 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 13 | 4.58 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 13 | 4.58 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 13 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 13 | 4.58 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 9 | 4.58 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 9 | 4.58 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 9 | 4.58 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 8 | 4.58 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 3 | 4.58 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 3 | 4.58 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 7 | 4.58 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 18 | 4.58 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 18 | 4.58 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 12 | 4.58 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 6 | 4.58 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 6 | 4.58 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 6 | 4.58 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 6 | 4.58 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 6 | 4.58 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 6 | 4.58 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 2 | 4.58 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 2 | 4.58 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 2 | 4.58 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 20 | 4.58 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 1 | 4.58 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 20 | 4.58 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 1 | 4.58 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 18 | 4.58 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 10 | 4.58 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 13 | 4.58 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 18 | 4.58 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 5 | 4.58 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 5 | 4.58 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 10 | 4.58 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 7 | 4.58 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 9 | 4.58 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 13 | 4.58 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 1 | 4.58 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 16 | 4.58 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 16 | 4.58 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 16 | 4.58 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 7 | 4.58 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 20 | 4.58 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 19 | 4.58 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 19 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 19 | 4.58 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 19 | 4.58 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 19 | 4.58 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 19 | 4.58 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 6 | 4.58 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 6 | 4.58 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 4 | 4.58 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 11 | 4.58 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 11 | 4.58 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 4 | 4.58 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 11 | 4.58 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 11 | 4.58 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 10 | 4.58 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 10 | 4.58 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 19 | 4.58 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 19 | 4.58 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 2 | 4.58 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 9 | 4.58 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 9 | 4.58 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 9 | 4.58 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 9 | 4.58 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 9 | 4.58 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 9 | 4.58 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 3 | 4.58 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 3 | 4.58 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 3 | 4.58 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 3 | 4.58 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 10 | 4.58 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 10 | 4.58 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 20 | 4.58 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 7 | 4.58 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 7 | 4.58 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 8 | 4.58 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 16 | 4.58 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 2 | 4.58 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 12 | 4.58 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 12 | 4.58 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 12 | 4.58 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 15 | 4.58 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 18 | 4.58 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 18 | 4.58 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 6 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 15 | 4.58 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 9 | 4.58 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 6 | 4.58 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 6 | 4.58 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 6 | 4.58 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 9 | 4.58 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 9 | 4.58 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 9 | 4.58 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 18 | 4.58 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 18 | 4.58 |
| (1,6684) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 18 | 4.58 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 2 | 4.58 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 7 | 4.58 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 5 | 4.58 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 3 | 4.58 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 9 | 4.58 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 7 | 4.58 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 7 | 4.58 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 7 | 4.58 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 4 | 4.58 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 4 | 4.58 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 4 | 4.58 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 5 | 4.58 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 5 | 4.58 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 5 | 4.58 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 1 | 4.58 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 19 | 4.58 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 20 | 4.58 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 11 | 4.58 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 19 | 4.58 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 13 | 4.58 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 13 | 4.58 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 13 | 4.58 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 12 | 4.58 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 19 | 4.58 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 8 | 4.58 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 15 | 4.58 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 5 | 4.58 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 11 | 4.58 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 11 | 4.58 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 11 | 4.58 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 19 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 19 | 4.58 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 19 | 4.58 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 19 | 4.58 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 19 | 4.58 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 19 | 4.58 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 9 | 4.58 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 20 | 4.58 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 18 | 4.58 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 18 | 4.58 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 18 | 4.58 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 5 | 4.58 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 5 | 4.58 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 5 | 4.58 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 1 | 4.58 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 1 | 4.58 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 1 | 4.58 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 10 | 4.58 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 15 | 4.58 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 15 | 4.58 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 15 | 4.58 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 19 | 4.58 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 19 | 4.58 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 19 | 4.58 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 2 | 4.58 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 2 | 4.58 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 2 | 4.58 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 1 | 4.58 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 1 | 4.58 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 1 | 4.58 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 14 | 4.58 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 14 | 4.58 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 14 | 4.58 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 7 | 4.58 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 7 | 4.58 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 7 | 4.58 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 4 | 4.58 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 4 | 4.58 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 4 | 4.58 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 17 | 4.58 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 18 | 4.58 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 18 | 4.58 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 18 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 14 | 4.58 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 12 | 4.58 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 20 | 4.58 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 2 | 4.58 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 2 | 4.58 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 2 | 4.58 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 8 | 4.58 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 8 | 4.58 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 8 | 4.58 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 13 | 4.58 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 13 | 4.58 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 15 | 4.58 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 13 | 4.58 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 13 | 4.58 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 13 | 4.58 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 17 | 4.58 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 10 | 4.58 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 10 | 4.58 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 10 | 4.58 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 10 | 4.58 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 10 | 4.58 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 10 | 4.58 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 8 | 4.58 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 8 | 4.58 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 8 | 4.58 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 7 | 4.58 |
| (1,4750) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 4 | 4.58 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 5 | 4.58 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 5 | 4.58 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 5 | 4.58 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 2 | 4.58 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 7 | 4.58 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 7 | 4.58 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 7 | 4.58 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 15 | 4.58 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 19 | 4.58 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 13 | 4.58 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 13 | 4.58 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 2 | 4.58 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 2 | 4.58 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 1 | 4.58 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 13 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 13 | 4.58 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 12 | 4.58 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 12 | 4.58 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 12 | 4.58 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 12 | 4.58 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 12 | 4.58 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 12 | 4.58 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 6 | 4.58 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 6 | 4.58 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 6 | 4.58 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 18 | 4.58 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 18 | 4.58 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 18 | 4.58 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 18 | 4.58 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 18 | 4.58 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 18 | 4.58 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 10 | 4.58 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 10 | 4.58 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 10 | 4.58 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 12 | 4.58 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 12 | 4.58 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 18 | 4.58 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 18 | 4.58 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 18 | 4.58 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 18 | 4.58 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 18 | 4.58 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 18 | 4.58 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 4.58 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 15 | 4.58 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 15 | 4.58 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 15 | 4.58 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 15 | 4.58 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 16 | 4.58 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 16 | 4.58 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 16 | 4.58 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 16 | 4.58 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 6 | 4.58 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 6 | 4.58 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 14 | 4.58 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 14 | 4.58 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 5 | 4.58 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 18 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 16 | 4.58 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 16 | 4.58 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 16 | 4.58 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 16 | 4.58 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 16 | 4.58 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 16 | 4.58 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 1 | 4.58 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 2 | 4.58 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 2 | 4.58 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 5 | 4.58 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 5 | 4.58 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 5 | 4.58 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 16 | 4.58 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 16 | 4.58 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 17 | 4.58 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 17 | 4.58 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 17 | 4.58 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 17 | 4.58 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 17 | 4.58 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 17 | 4.58 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 6 | 4.58 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 6 | 4.58 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 6 | 4.58 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 4.58 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 4.58 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 4 | 4.58 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 10 | 4.58 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 4 | 4.58 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 4 | 4.58 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 13 | 4.58 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 13 | 4.58 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 17 | 4.58 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 17 | 4.58 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 17 | 4.58 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 17 | 4.58 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 2 | 4.58 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 2 | 4.58 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 2 | 4.58 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 19 | 4.58 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 19 | 4.58 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 19 | 4.58 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 19 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 19 | 4.58 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 19 | 4.58 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 10 | 4.58 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 10 | 4.58 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 10 | 4.58 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 10 | 4.58 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 5 | 4.58 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 5 | 4.58 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 5 | 4.58 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 13 | 4.58 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 13 | 4.58 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 13 | 4.58 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 4.58 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 20 | 4.58 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 15 | 4.58 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 15 | 4.58 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 15 | 4.58 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 15 | 4.58 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 15 | 4.58 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 15 | 4.58 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 12 | 4.58 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 16 | 4.58 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 16 | 4.58 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 16 | 4.58 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 16 | 4.58 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 9 | 4.58 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 9 | 4.58 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 9 | 4.58 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 9 | 4.58 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 13 | 4.58 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 7 | 4.58 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 7 | 4.58 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 16 | 4.58 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 16 | 4.58 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 4 | 4.58 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 9 | 4.58 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 11 | 4.58 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 11 | 4.58 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 11 | 4.58 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 11 | 4.58 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 11 | 4.58 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 13 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 13 | 4.58 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 17 | 4.58 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 3 | 4.58 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 3 | 4.58 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 10 | 4.58 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 10 | 4.58 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 19 | 4.58 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 19 | 4.58 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 2 | 4.58 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 9 | 4.58 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 9 | 4.58 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 9 | 4.58 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 9 | 4.58 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 9 | 4.58 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 9 | 4.58 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 8 | 4.58 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 19 | 4.58 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 3 | 4.58 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 10 | 4.58 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 3 | 4.58 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 3 | 4.58 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 3 | 4.58 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 10 | 4.58 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 10 | 4.58 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 20 | 4.58 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 7 | 4.58 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 7 | 4.58 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 8 | 4.58 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 16 | 4.58 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 2 | 4.58 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 12 | 4.58 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 12 | 4.58 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 12 | 4.58 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 15 | 4.58 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 18 | 4.58 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 18 | 4.58 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 6 | 4.58 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 15 | 4.58 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 9 | 4.58 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 12 | 4.58 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 6 | 4.58 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 6 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 6 | 4.58 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 9 | 4.58 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 9 | 4.58 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 9 | 4.58 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 18 | 4.58 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 18 | 4.58 |
| (1,2578) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 18 | 4.58 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 9 | 4.58 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 9 | 4.58 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 9 | 4.58 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 2 | 4.58 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 7 | 4.58 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 14 | 4.58 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 5 | 4.58 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 7 | 4.58 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 17 | 4.58 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 11 | 4.58 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 1 | 4.58 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 3 | 4.58 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 7 | 4.58 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 7 | 4.58 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 7 | 4.58 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 4 | 4.58 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 4 | 4.58 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 4 | 4.58 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 5 | 4.58 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 5 | 4.58 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 5 | 4.58 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 1 | 4.58 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 19 | 4.58 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 20 | 4.58 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 18 | 4.58 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 16 | 4.58 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 16 | 4.58 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 16 | 4.58 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 16 | 4.58 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 16 | 4.58 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 11 | 4.58 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 19 | 4.58 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 13 | 4.58 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 13 | 4.58 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 13 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 12 | 4.58 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 19 | 4.58 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 8 | 4.58 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 15 | 4.58 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 5 | 4.58 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 11 | 4.58 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 11 | 4.58 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 11 | 4.58 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 19 | 4.58 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 19 | 4.58 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 19 | 4.58 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 19 | 4.58 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 19 | 4.58 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 19 | 4.58 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 9 | 4.58 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 4.58 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 4.58 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 20 | 4.58 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 18 | 4.58 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 18 | 4.58 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 18 | 4.58 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 5 | 4.58 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 5 | 4.58 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 5 | 4.58 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 1 | 4.58 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 1 | 4.58 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 1 | 4.58 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 10 | 4.58 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 15 | 4.58 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 15 | 4.58 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 15 | 4.58 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 19 | 4.58 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 19 | 4.58 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 19 | 4.58 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 2 | 4.58 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 2 | 4.58 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 2 | 4.58 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 2 | 4.58 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 2 | 4.58 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 2 | 4.58 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 7 | 4.58 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 7 | 4.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 7 | 4.58 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 9 | 4.57 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 8 | 4.57 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 12 | 4.57 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 12 | 4.57 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 10 | 4.57 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 10 | 4.57 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 2 | 4.57 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 2 | 4.57 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 2 | 4.57 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 2 | 4.57 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 2 | 4.57 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 2 | 4.57 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 16 | 4.57 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 16 | 4.57 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 16 | 4.57 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 16 | 4.57 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 10 | 4.57 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 10 | 4.57 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 17 | 4.57 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 17 | 4.57 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 12 | 4.57 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 12 | 4.57 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 12 | 4.57 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 12 | 4.57 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 12 | 4.57 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 12 | 4.57 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 12 | 4.57 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 12 | 4.57 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 7 | 4.57 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 7 | 4.57 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 3 | 4.57 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 3 | 4.57 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 10 | 4.57 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 10 | 4.57 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 10 | 4.57 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 10 | 4.57 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 1 | 4.57 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 1 | 4.57 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 1 | 4.57 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 1 | 4.57 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 9 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 9 | 4.57 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 3 | 4.57 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 3 | 4.57 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 3 | 4.57 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 3 | 4.57 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 3 | 4.57 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 3 | 4.57 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 17 | 4.57 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 17 | 4.57 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 17 | 4.57 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 17 | 4.57 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 4 | 4.57 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 4 | 4.57 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 1 | 4.57 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 1 | 4.57 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 7 | 4.57 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 7 | 4.57 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 1 | 4.57 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 1 | 4.57 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 12 | 4.57 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 12 | 4.57 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 5 | 4.57 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 5 | 4.57 |
| (1,8909) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 13 | 4.57 |
| (1,8909) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 13 | 4.57 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 3 | 4.57 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 3 | 4.57 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 3 | 4.57 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 3 | 4.57 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 3 | 4.57 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 3 | 4.57 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 10 | 4.57 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 10 | 4.57 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 10 | 4.57 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 10 | 4.57 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 10 | 4.57 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 10 | 4.57 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 9 | 4.57 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 9 | 4.57 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 9 | 4.57 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 9 | 4.57 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 9 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 9 | 4.57 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 12 | 4.57 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 12 | 4.57 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 12 | 4.57 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 12 | 4.57 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 12 | 4.57 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 12 | 4.57 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 5 | 4.57 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 5 | 4.57 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 5 | 4.57 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 5 | 4.57 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 18 | 4.57 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 18 | 4.57 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 18 | 4.57 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 18 | 4.57 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 7 | 4.57 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 7 | 4.57 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 7 | 4.57 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 7 | 4.57 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 7 | 4.57 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 7 | 4.57 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 4 | 4.57 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 4 | 4.57 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 4 | 4.57 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 4 | 4.57 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 15 | 4.57 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 15 | 4.57 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 15 | 4.57 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 15 | 4.57 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 5 | 4.57 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 5 | 4.57 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 20 | 4.57 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 20 | 4.57 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 10 | 4.57 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 10 | 4.57 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 10 | 4.57 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 10 | 4.57 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 3 | 4.57 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 3 | 4.57 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 3 | 4.57 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 3 | 4.57 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 9 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 9 | 4.57 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 9 | 4.57 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 9 | 4.57 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 9 | 4.57 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 9 | 4.57 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 1 | 4.57 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 1 | 4.57 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 9 | 4.57 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 9 | 4.57 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 7 | 4.57 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 7 | 4.57 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 12 | 4.57 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 10 | 4.57 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 10 | 4.57 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 10 | 4.57 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 9 | 4.57 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 9 | 4.57 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 9 | 4.57 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 9 | 4.57 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 9 | 4.57 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 9 | 4.57 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 9 | 4.57 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 9 | 4.57 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 9 | 4.57 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 18 | 4.57 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 6 | 4.57 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 11 | 4.57 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 14 | 4.57 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 3 | 4.57 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 14 | 4.57 |
| (1,8413) | 1:142:A:ARG:HA | 1:143:A:THR:HB | 20 | 4.57 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 11 | 4.57 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 11 | 4.57 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 11 | 4.57 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 6 | 4.57 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 6 | 4.57 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 12 | 4.57 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 12 | 4.57 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 5 | 4.57 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 7 | 4.57 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 1 | 4.57 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 1 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8250) | 1:116:A:ALA:HB1 | 1:119:A:ARG:H | 8 | 4.57 |
| (1,8250) | 1:116:A:ALA:HB2 | 1:119:A:ARG:H | 8 | 4.57 |
| (1,8250) | 1:116:A:ALA:HB3 | 1:119:A:ARG:H | 8 | 4.57 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 9 | 4.57 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 4 | 4.57 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 16 | 4.57 |
| (1,8195) | 1:104:A:GLU:H | 1:107:A:ALA:H | 15 | 4.57 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 1 | 4.57 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 1 | 4.57 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 1 | 4.57 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 1 | 4.57 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 1 | 4.57 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 1 | 4.57 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 15 | 4.57 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 7 | 4.57 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 6 | 4.57 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 14 | 4.57 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 14 | 4.57 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 14 | 4.57 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 3 | 4.57 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 11 | 4.57 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 11 | 4.57 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 14 | 4.57 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 16 | 4.57 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 12 | 4.57 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 17 | 4.57 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 16 | 4.57 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 16 | 4.57 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 16 | 4.57 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 8 | 4.57 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 8 | 4.57 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 8 | 4.57 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 8 | 4.57 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 8 | 4.57 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 8 | 4.57 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 8 | 4.57 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 8 | 4.57 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 8 | 4.57 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 15 | 4.57 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 4 | 4.57 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 16 | 4.57 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 6 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 3 | 4.57 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 16 | 4.57 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 17 | 4.57 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 17 | 4.57 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 17 | 4.57 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 3 | 4.57 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 3 | 4.57 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 17 | 4.57 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 17 | 4.57 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 5 | 4.57 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 3 | 4.57 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 19 | 4.57 |
| (1,7456) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 14 | 4.57 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 11 | 4.57 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 11 | 4.57 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 18 | 4.57 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 10 | 4.57 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 13 | 4.57 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 13 | 4.57 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 13 | 4.57 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 13 | 4.57 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 7 | 4.57 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 7 | 4.57 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 12 | 4.57 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 12 | 4.57 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 12 | 4.57 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 12 | 4.57 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 12 | 4.57 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 12 | 4.57 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 15 | 4.57 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 3 | 4.57 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 3 | 4.57 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 3 | 4.57 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 6 | 4.57 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 7 | 4.57 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 11 | 4.57 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 16 | 4.57 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 17 | 4.57 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 17 | 4.57 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 17 | 4.57 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 17 | 4.57 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 17 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 17 | 4.57 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 17 | 4.57 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 17 | 4.57 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 17 | 4.57 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 17 | 4.57 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 17 | 4.57 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 17 | 4.57 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 8 | 4.57 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 14 | 4.57 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 14 | 4.57 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 14 | 4.57 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 15 | 4.57 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 15 | 4.57 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 15 | 4.57 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 12 | 4.57 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 5 | 4.57 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 7 | 4.57 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 15 | 4.57 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 17 | 4.57 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 6 | 4.57 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 6 | 4.57 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 16 | 4.57 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 16 | 4.57 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 16 | 4.57 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 8 | 4.57 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 2 | 4.57 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 20 | 4.57 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 20 | 4.57 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 20 | 4.57 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 6 | 4.57 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 4 | 4.57 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 6 | 4.57 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 17 | 4.57 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 8 | 4.57 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 16 | 4.57 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 19 | 4.57 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 12 | 4.57 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 12 | 4.57 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 12 | 4.57 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 12 | 4.57 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 12 | 4.57 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 12 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 9 | 4.57 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 1 | 4.57 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 7 | 4.57 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 17 | 4.57 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 14 | 4.57 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 14 | 4.57 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 14 | 4.57 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 15 | 4.57 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 4 | 4.57 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 6 | 4.57 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 6 | 4.57 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 6 | 4.57 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 9 | 4.57 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 3 | 4.57 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 17 | 4.57 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 17 | 4.57 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 17 | 4.57 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 6 | 4.57 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 4 | 4.57 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 4 | 4.57 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 12 | 4.57 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 14 | 4.57 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 14 | 4.57 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 14 | 4.57 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 6 | 4.57 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 10 | 4.57 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 10 | 4.57 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 10 | 4.57 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 6 | 4.57 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 10 | 4.57 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 11 | 4.57 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 16 | 4.57 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 5 | 4.57 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 20 | 4.57 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 20 | 4.57 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 3 | 4.57 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 3 | 4.57 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 3 | 4.57 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 3 | 4.57 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 3 | 4.57 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 3 | 4.57 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 10 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 10 | 4.57 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 10 | 4.57 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 2 | 4.57 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 19 | 4.57 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 17 | 4.57 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 7 | 4.57 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 11 | 4.57 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 13 | 4.57 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 13 | 4.57 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 13 | 4.57 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 13 | 4.57 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 13 | 4.57 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 13 | 4.57 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 13 | 4.57 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 13 | 4.57 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 13 | 4.57 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 12 | 4.57 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 4.57 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 4.57 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 4.57 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 4.57 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 4.57 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 4.57 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 9 | 4.57 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 9 | 4.57 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 9 | 4.57 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 9 | 4.57 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 9 | 4.57 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 9 | 4.57 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 10 | 4.57 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 10 | 4.57 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 10 | 4.57 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 15 | 4.57 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 2 | 4.57 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 2 | 4.57 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 2 | 4.57 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 9 | 4.57 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 9 | 4.57 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 9 | 4.57 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 14 | 4.57 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 14 | 4.57 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 14 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 1 | 4.57 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 13 | 4.57 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 13 | 4.57 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 13 | 4.57 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 15 | 4.57 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 17 | 4.57 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 1 | 4.57 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 5 | 4.57 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 5 | 4.57 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 5 | 4.57 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 5 | 4.57 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 5 | 4.57 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 5 | 4.57 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 5 | 4.57 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 5 | 4.57 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 5 | 4.57 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 13 | 4.57 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 11 | 4.57 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 10 | 4.57 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 10 | 4.57 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 10 | 4.57 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 12 | 4.57 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 12 | 4.57 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 20 | 4.57 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 20 | 4.57 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 1 | 4.57 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 1 | 4.57 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 12 | 4.57 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 12 | 4.57 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 2 | 4.57 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 2 | 4.57 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 2 | 4.57 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 2 | 4.57 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 2 | 4.57 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 2 | 4.57 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 14 | 4.57 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 12 | 4.57 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 12 | 4.57 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 12 | 4.57 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 12 | 4.57 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 16 | 4.57 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 1 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 10 | 4.57 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 10 | 4.57 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 13 | 4.57 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 13 | 4.57 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 13 | 4.57 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 4.57 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 4.57 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 4.57 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 1 | 4.57 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 1 | 4.57 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 1 | 4.57 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 1 | 4.57 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 3 | 4.57 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 3 | 4.57 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 3 | 4.57 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 3 | 4.57 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 3 | 4.57 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 3 | 4.57 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 13 | 4.57 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 13 | 4.57 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 13 | 4.57 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 16 | 4.57 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 16 | 4.57 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 16 | 4.57 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 4.57 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 4.57 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 4.57 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 4 | 4.57 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 4 | 4.57 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 4 | 4.57 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 4 | 4.57 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 4 | 4.57 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 4 | 4.57 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 15 | 4.57 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 1 | 4.57 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 1 | 4.57 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 10 | 4.57 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 1 | 4.57 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 15 | 4.57 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 10 | 4.57 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 10 | 4.57 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 10 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 10 | 4.57 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 10 | 4.57 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 10 | 4.57 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 9 | 4.57 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 9 | 4.57 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 9 | 4.57 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 9 | 4.57 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 9 | 4.57 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 9 | 4.57 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 12 | 4.57 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 12 | 4.57 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 12 | 4.57 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 12 | 4.57 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 12 | 4.57 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 12 | 4.57 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 17 | 4.57 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 5 | 4.57 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 5 | 4.57 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 8 | 4.57 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 8 | 4.57 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 4 | 4.57 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 4 | 4.57 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 4 | 4.57 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 4 | 4.57 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 13 | 4.57 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 13 | 4.57 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 13 | 4.57 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 13 | 4.57 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 13 | 4.57 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 13 | 4.57 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 5 | 4.57 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 5 | 4.57 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 3 | 4.57 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 5 | 4.57 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 7 | 4.57 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 17 | 4.57 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 3 | 4.57 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 11 | 4.57 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 11 | 4.57 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 11 | 4.57 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 11 | 4.57 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 9 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 8 | 4.57 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 4.57 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 8 | 4.57 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 3 | 4.57 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 3 | 4.57 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 3 | 4.57 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 3 | 4.57 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 12 | 4.57 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 20 | 4.57 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 1 | 4.57 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 1 | 4.57 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 4 | 4.57 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 3 | 4.57 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 7 | 4.57 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 7 | 4.57 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 11 | 4.57 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 7 | 4.57 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 7 | 4.57 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 7 | 4.57 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 16 | 4.57 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 17 | 4.57 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 17 | 4.57 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 17 | 4.57 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 17 | 4.57 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 17 | 4.57 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 17 | 4.57 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 17 | 4.57 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 17 | 4.57 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 17 | 4.57 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 10 | 4.57 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 6 | 4.57 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 6 | 4.57 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 17 | 4.57 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 17 | 4.57 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 17 | 4.57 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 8 | 4.57 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 14 | 4.57 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 14 | 4.57 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 14 | 4.57 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 15 | 4.57 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 15 | 4.57 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 15 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 12 | 4.57 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 5 | 4.57 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 7 | 4.57 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 15 | 4.57 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 17 | 4.57 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 6 | 4.57 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 6 | 4.57 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 16 | 4.57 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 16 | 4.57 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 16 | 4.57 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 8 | 4.57 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 2 | 4.57 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 20 | 4.57 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 20 | 4.57 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 20 | 4.57 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 6 | 4.57 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 4 | 4.57 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 6 | 4.57 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 4.57 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 17 | 4.57 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 7 | 4.57 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 7 | 4.57 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 7 | 4.57 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 16 | 4.57 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 16 | 4.57 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 16 | 4.57 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 8 | 4.57 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 16 | 4.57 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 19 | 4.57 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 13 | 4.57 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 13 | 4.57 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 13 | 4.57 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 17 | 4.57 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 17 | 4.57 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 17 | 4.57 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 17 | 4.57 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 17 | 4.57 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 17 | 4.57 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 9 | 4.57 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 7 | 4.57 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 17 | 4.57 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 14 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 14 | 4.57 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 14 | 4.57 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 18 | 4.57 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 5 | 4.57 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 15 | 4.57 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 12 | 4.57 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 4 | 4.57 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 12 | 4.57 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 12 | 4.57 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 12 | 4.57 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 15 | 4.57 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 6 | 4.57 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 6 | 4.57 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 6 | 4.57 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 9 | 4.57 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 3 | 4.57 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 17 | 4.57 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 17 | 4.57 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 17 | 4.57 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 6 | 4.57 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 4 | 4.57 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 4 | 4.57 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 12 | 4.57 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 14 | 4.57 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 14 | 4.57 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 14 | 4.57 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 10 | 4.57 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 10 | 4.57 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 6 | 4.57 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 6 | 4.57 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 10 | 4.57 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 11 | 4.57 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 16 | 4.57 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 13 | 4.57 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 13 | 4.57 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 5 | 4.57 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 20 | 4.57 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 20 | 4.57 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 3 | 4.57 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 3 | 4.57 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 3 | 4.57 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 3 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 3 | 4.57 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 3 | 4.57 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 10 | 4.57 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 10 | 4.57 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 10 | 4.57 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 17 | 4.57 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 2 | 4.57 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 19 | 4.57 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 17 | 4.57 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 4.57 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 4.57 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 4.57 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 7 | 4.57 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 11 | 4.57 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 13 | 4.57 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 13 | 4.57 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 13 | 4.57 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 13 | 4.57 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 13 | 4.57 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 13 | 4.57 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 13 | 4.57 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 13 | 4.57 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 13 | 4.57 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 12 | 4.57 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 3 | 4.57 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 4.57 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 4.57 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 4.57 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 4.57 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 4.57 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 4.57 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 9 | 4.57 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 9 | 4.57 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 9 | 4.57 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 9 | 4.57 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 9 | 4.57 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 9 | 4.57 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 9 | 4.57 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 9 | 4.57 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 9 | 4.57 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 9 | 4.57 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 9 | 4.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 9 | 4.57 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 9 | 4.57 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 9 | 4.57 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 9 | 4.57 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 2 | 4.57 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 17 | 4.56 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 9 | 4.56 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 7 | 4.56 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 11 | 4.56 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 11 | 4.56 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 17 | 4.56 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 17 | 4.56 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 17 | 4.56 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 17 | 4.56 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 17 | 4.56 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 17 | 4.56 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 8 | 4.56 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 8 | 4.56 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 1 | 4.56 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 1 | 4.56 |
| (1,9481) | 1:132:A:LYS:HG2 | 1:136:A:ASP:H | 4 | 4.56 |
| (1,9481) | 1:132:A:LYS:HG3 | 1:136:A:ASP:H | 4 | 4.56 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 1 | 4.56 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 1 | 4.56 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 19 | 4.56 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 19 | 4.56 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 19 | 4.56 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 19 | 4.56 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 12 | 4.56 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 12 | 4.56 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 12 | 4.56 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 12 | 4.56 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 15 | 4.56 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 15 | 4.56 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 15 | 4.56 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 15 | 4.56 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 15 | 4.56 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 15 | 4.56 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 4.56 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 4.56 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 4.56 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 4 | 4.56 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 4 | 4.56 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 13 | 4.56 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 13 | 4.56 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 4.56 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 4.56 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 8 | 4.56 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 8 | 4.56 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 4.56 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 4.56 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 4.56 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 4.56 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 4.56 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 4.56 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 16 | 4.56 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 16 | 4.56 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 3 | 4.56 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 3 | 4.56 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 2 | 4.56 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 2 | 4.56 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 2 | 4.56 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 2 | 4.56 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 10 | 4.56 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 10 | 4.56 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 3 | 4.56 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 3 | 4.56 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 9 | 4.56 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 9 | 4.56 |
| (1,9058) | 1:82:A:LYS:HE2 | 1:83:A:GLU:H | 20 | 4.56 |
| (1,9058) | 1:82:A:LYS:HE3 | 1:83:A:GLU:H | 20 | 4.56 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 20 | 4.56 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 20 | 4.56 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 20 | 4.56 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 20 | 4.56 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 20 | 4.56 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 20 | 4.56 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 19 | 4.56 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 19 | 4.56 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 16 | 4.56 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 16 | 4.56 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 20 | 4.56 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 20 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 12 | 4.56 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 12 | 4.56 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 13 | 4.56 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 13 | 4.56 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 13 | 4.56 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 13 | 4.56 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 9 | 4.56 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 9 | 4.56 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 4 | 4.56 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 4 | 4.56 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 4 | 4.56 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 4 | 4.56 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 4 | 4.56 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 4 | 4.56 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 15 | 4.56 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 15 | 4.56 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 15 | 4.56 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 15 | 4.56 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 15 | 4.56 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 15 | 4.56 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 15 | 4.56 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 15 | 4.56 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 12 | 4.56 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 12 | 4.56 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 12 | 4.56 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 12 | 4.56 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 12 | 4.56 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 12 | 4.56 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 5 | 4.56 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 5 | 4.56 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 5 | 4.56 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 5 | 4.56 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 6 | 4.56 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 6 | 4.56 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 6 | 4.56 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 6 | 4.56 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 7 | 4.56 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 7 | 4.56 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 16 | 4.56 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 16 | 4.56 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 4 | 4.56 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 13 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 18 | 4.56 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 18 | 4.56 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 18 | 4.56 |
| (1,8493) | 1:157:A:HIS:HA | 1:158:A:ILE:HB | 8 | 4.56 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 9 | 4.56 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 9 | 4.56 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 9 | 4.56 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 13 | 4.56 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 13 | 4.56 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 13 | 4.56 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 7 | 4.56 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 10 | 4.56 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 5 | 4.56 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 7 | 4.56 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 15 | 4.56 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 15 | 4.56 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 15 | 4.56 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 18 | 4.56 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 18 | 4.56 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 2 | 4.56 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 10 | 4.56 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 10 | 4.56 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 11 | 4.56 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 11 | 4.56 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 18 | 4.56 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 5 | 4.56 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 7 | 4.56 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 1 | 4.56 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 5 | 4.56 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 10 | 4.56 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 2 | 4.56 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 2 | 4.56 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 2 | 4.56 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 2 | 4.56 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 2 | 4.56 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 6 | 4.56 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 6 | 4.56 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 6 | 4.56 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 1 | 4.56 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 13 | 4.56 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 13 | 4.56 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 13 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 15 | 4.56 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 15 | 4.56 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 15 | 4.56 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 14 | 4.56 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 20 | 4.56 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 17 | 4.56 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 16 | 4.56 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 16 | 4.56 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 16 | 4.56 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 16 | 4.56 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 16 | 4.56 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 16 | 4.56 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 16 | 4.56 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 16 | 4.56 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 16 | 4.56 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 2 | 4.56 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 2 | 4.56 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 2 | 4.56 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 4 | 4.56 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 4 | 4.56 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 15 | 4.56 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 20 | 4.56 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 9 | 4.56 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 14 | 4.56 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 10 | 4.56 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 10 | 4.56 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 14 | 4.56 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 17 | 4.56 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 18 | 4.56 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 16 | 4.56 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 16 | 4.56 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 4 | 4.56 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 10 | 4.56 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 16 | 4.56 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 16 | 4.56 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 10 | 4.56 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 10 | 4.56 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 10 | 4.56 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 5 | 4.56 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 5 | 4.56 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 5 | 4.56 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 1 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 1 | 4.56 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 1 | 4.56 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 1 | 4.56 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 1 | 4.56 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 1 | 4.56 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 1 | 4.56 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 1 | 4.56 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 1 | 4.56 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 5 | 4.56 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 13 | 4.56 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 11 | 4.56 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 11 | 4.56 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 11 | 4.56 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 11 | 4.56 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 11 | 4.56 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 11 | 4.56 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 18 | 4.56 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 18 | 4.56 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 9 | 4.56 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 9 | 4.56 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 12 | 4.56 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 18 | 4.56 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 13 | 4.56 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 16 | 4.56 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 10 | 4.56 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 13 | 4.56 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 13 | 4.56 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 20 | 4.56 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 14 | 4.56 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 14 | 4.56 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 14 | 4.56 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 4 | 4.56 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 4 | 4.56 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 16 | 4.56 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 17 | 4.56 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 2 | 4.56 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 2 | 4.56 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 11 | 4.56 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 5 | 4.56 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 5 | 4.56 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 5 | 4.56 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 4 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 4 | 4.56 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 4 | 4.56 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 19 | 4.56 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 20 | 4.56 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 20 | 4.56 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 20 | 4.56 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 12 | 4.56 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 14 | 4.56 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 2 | 4.56 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 2 | 4.56 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 2 | 4.56 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 17 | 4.56 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 19 | 4.56 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 3 | 4.56 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 3 | 4.56 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 3 | 4.56 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 12 | 4.56 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 12 | 4.56 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 12 | 4.56 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 12 | 4.56 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 12 | 4.56 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 12 | 4.56 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 15 | 4.56 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 2 | 4.56 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 19 | 4.56 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 4 | 4.56 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 4 | 4.56 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 18 | 4.56 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 18 | 4.56 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 18 | 4.56 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 19 | 4.56 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 19 | 4.56 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 19 | 4.56 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 4 | 4.56 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 4 | 4.56 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 4 | 4.56 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 18 | 4.56 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 18 | 4.56 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 15 | 4.56 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 15 | 4.56 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 1 | 4.56 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 10 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 5 | 4.56 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 18 | 4.56 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 18 | 4.56 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 18 | 4.56 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 18 | 4.56 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 20 | 4.56 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 1 | 4.56 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 1 | 4.56 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 1 | 4.56 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 19 | 4.56 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 19 | 4.56 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 19 | 4.56 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 20 | 4.56 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 20 | 4.56 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 20 | 4.56 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 11 | 4.56 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 1 | 4.56 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 1 | 4.56 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 1 | 4.56 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 1 | 4.56 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 1 | 4.56 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 11 | 4.56 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 16 | 4.56 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 19 | 4.56 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 15 | 4.56 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 15 | 4.56 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 15 | 4.56 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 15 | 4.56 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 15 | 4.56 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 15 | 4.56 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 15 | 4.56 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 15 | 4.56 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 15 | 4.56 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 7 | 4.56 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 7 | 4.56 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 14 | 4.56 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 2 | 4.56 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 13 | 4.56 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 7 | 4.56 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 7 | 4.56 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 7 | 4.56 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 5 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 13 | 4.56 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 13 | 4.56 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 1 | 4.56 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 17 | 4.56 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 14 | 4.56 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 14 | 4.56 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 14 | 4.56 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 15 | 4.56 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 15 | 4.56 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 15 | 4.56 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 12 | 4.56 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 12 | 4.56 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 12 | 4.56 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 18 | 4.56 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 18 | 4.56 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 18 | 4.56 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 15 | 4.56 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 4 | 4.56 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 4 | 4.56 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 4 | 4.56 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 4 | 4.56 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 11 | 4.56 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 11 | 4.56 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 11 | 4.56 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 2 | 4.56 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 2 | 4.56 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 2 | 4.56 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 13 | 4.56 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 13 | 4.56 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 13 | 4.56 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 5 | 4.56 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 5 | 4.56 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 5 | 4.56 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 12 | 4.56 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 3 | 4.56 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 7 | 4.56 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 7 | 4.56 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 7 | 4.56 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 7 | 4.56 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 1 | 4.56 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 8 | 4.56 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 11 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4979) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 14 | 4.56 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 1 | 4.56 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 20 | 4.56 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 20 | 4.56 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 20 | 4.56 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 5 | 4.56 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 10 | 4.56 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 10 | 4.56 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 10 | 4.56 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 11 | 4.56 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 8 | 4.56 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 8 | 4.56 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 8 | 4.56 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 8 | 4.56 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 8 | 4.56 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 8 | 4.56 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 6 | 4.56 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 6 | 4.56 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 13 | 4.56 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 6 | 4.56 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 6 | 4.56 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 6 | 4.56 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 8 | 4.56 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 8 | 4.56 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 8 | 4.56 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 8 | 4.56 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 8 | 4.56 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 8 | 4.56 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 8 | 4.56 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 8 | 4.56 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 8 | 4.56 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 19 | 4.56 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 19 | 4.56 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 19 | 4.56 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 19 | 4.56 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 12 | 4.56 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 19 | 4.56 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 12 | 4.56 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 12 | 4.56 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 12 | 4.56 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 12 | 4.56 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 15 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 15 | 4.56 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 15 | 4.56 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 15 | 4.56 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 15 | 4.56 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 15 | 4.56 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 4.56 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 4.56 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 4.56 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 4.56 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 4.56 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 4.56 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 4.56 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 4.56 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 2 | 4.56 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 14 | 4.56 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 2 | 4.56 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 3 | 4.56 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 3 | 4.56 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 3 | 4.56 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 4.56 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 4.56 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 4.56 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 4.56 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 4.56 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 4.56 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 16 | 4.56 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 16 | 4.56 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 19 | 4.56 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 18 | 4.56 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 1 | 4.56 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 11 | 4.56 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 9 | 4.56 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 9 | 4.56 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 4.56 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 20 | 4.56 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 4.56 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 20 | 4.56 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 4 | 4.56 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 4 | 4.56 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 4 | 4.56 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 4 | 4.56 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 4 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 4 | 4.56 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 13 | 4.56 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 13 | 4.56 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 13 | 4.56 |
| (1,3778) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 13 | 4.56 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 15 | 4.56 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 15 | 4.56 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 12 | 4.56 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 6 | 4.56 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 13 | 4.56 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 13 | 4.56 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 13 | 4.56 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 5 | 4.56 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 5 | 4.56 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 5 | 4.56 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 5 | 4.56 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 7 | 4.56 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 18 | 4.56 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 18 | 4.56 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 18 | 4.56 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 18 | 4.56 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 6 | 4.56 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 6 | 4.56 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 19 | 4.56 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 4.56 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 19 | 4.56 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 19 | 4.56 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 4.56 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 19 | 4.56 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 5 | 4.56 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 19 | 4.56 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 3 | 4.56 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 3 | 4.56 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 3 | 4.56 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 4 | 4.56 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 5 | 4.56 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 9 | 4.56 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 9 | 4.56 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 9 | 4.56 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 12 | 4.56 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 12 | 4.56 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 12 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 12 | 4.56 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 12 | 4.56 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 12 | 4.56 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 16 | 4.56 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 2 | 4.56 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 15 | 4.56 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 2 | 4.56 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 5 | 4.56 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 5 | 4.56 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 19 | 4.56 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 4 | 4.56 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 4 | 4.56 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 18 | 4.56 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 18 | 4.56 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 18 | 4.56 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 19 | 4.56 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 19 | 4.56 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 19 | 4.56 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 4 | 4.56 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 4 | 4.56 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 4 | 4.56 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 18 | 4.56 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 18 | 4.56 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 15 | 4.56 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 15 | 4.56 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 1 | 4.56 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 10 | 4.56 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 5 | 4.56 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 5 | 4.56 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 5 | 4.56 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 5 | 4.56 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 10 | 4.56 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 10 | 4.56 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 10 | 4.56 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 18 | 4.56 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 18 | 4.56 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 18 | 4.56 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 18 | 4.56 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 20 | 4.56 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 1 | 4.56 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 1 | 4.56 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 1 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 5 | 4.56 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 4 | 4.56 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 4 | 4.56 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 4 | 4.56 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 19 | 4.56 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 19 | 4.56 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 19 | 4.56 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 14 | 4.56 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 7 | 4.56 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 2 | 4.56 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 2 | 4.56 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 2 | 4.56 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 19 | 4.56 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 20 | 4.56 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 20 | 4.56 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 20 | 4.56 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 13 | 4.56 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 13 | 4.56 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 11 | 4.56 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 1 | 4.56 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 15 | 4.56 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 1 | 4.56 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 1 | 4.56 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 1 | 4.56 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 1 | 4.56 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 11 | 4.56 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 16 | 4.56 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 19 | 4.56 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 15 | 4.56 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 15 | 4.56 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 15 | 4.56 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 15 | 4.56 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 15 | 4.56 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 15 | 4.56 |
| (1,1614) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 7 | 4.56 |
| (1,1614) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 7 | 4.56 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 15 | 4.56 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 15 | 4.56 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 15 | 4.56 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 7 | 4.56 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 7 | 4.56 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 9 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 14 | 4.56 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 2 | 4.56 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 13 | 4.56 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 7 | 4.56 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 7 | 4.56 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 7 | 4.56 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 5 | 4.56 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 13 | 4.56 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 13 | 4.56 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 1 | 4.56 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 17 | 4.56 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 14 | 4.56 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 14 | 4.56 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 14 | 4.56 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 15 | 4.56 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 15 | 4.56 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 15 | 4.56 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 10 | 4.56 |
| (1,602) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 11 | 4.56 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 12 | 4.56 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 12 | 4.56 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 12 | 4.56 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 18 | 4.56 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 18 | 4.56 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 18 | 4.56 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 15 | 4.56 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 13 | 4.56 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 13 | 4.56 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 13 | 4.56 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 13 | 4.56 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 13 | 4.56 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 13 | 4.56 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 1 | 4.56 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 16 | 4.55 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 10 | 4.55 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 10 | 4.55 |
| (1,9602) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 18 | 4.55 |
| (1,9602) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 18 | 4.55 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 19 | 4.55 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 19 | 4.55 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 2 | 4.55 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 2 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 5 | 4.55 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 5 | 4.55 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 9 | 4.55 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 9 | 4.55 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 14 | 4.55 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 14 | 4.55 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 6 | 4.55 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 6 | 4.55 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 6 | 4.55 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 6 | 4.55 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 8 | 4.55 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 8 | 4.55 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 8 | 4.55 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 8 | 4.55 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 7 | 4.55 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 7 | 4.55 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 7 | 4.55 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 7 | 4.55 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 7 | 4.55 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 7 | 4.55 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 4 | 4.55 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 4 | 4.55 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 5 | 4.55 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 5 | 4.55 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 14 | 4.55 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 14 | 4.55 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 14 | 4.55 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 14 | 4.55 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 19 | 4.55 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 19 | 4.55 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 19 | 4.55 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 19 | 4.55 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 19 | 4.55 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 19 | 4.55 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 4 | 4.55 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 4 | 4.55 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 4 | 4.55 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 4 | 4.55 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 4 | 4.55 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 4 | 4.55 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 9 | 4.55 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 9 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 9 | 4.55 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 9 | 4.55 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 9 | 4.55 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 9 | 4.55 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 4 | 4.55 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 4 | 4.55 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 18 | 4.55 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 18 | 4.55 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 18 | 4.55 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 18 | 4.55 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 18 | 4.55 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 18 | 4.55 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 14 | 4.55 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 14 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 5 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 5 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 5 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 5 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 5 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 5 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 18 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 18 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 18 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 18 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 18 | 4.55 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 18 | 4.55 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 11 | 4.55 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 11 | 4.55 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 11 | 4.55 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 11 | 4.55 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 11 | 4.55 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 11 | 4.55 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 8 | 4.55 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 8 | 4.55 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 8 | 4.55 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 8 | 4.55 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 8 | 4.55 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 8 | 4.55 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 10 | 4.55 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 10 | 4.55 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 11 | 4.55 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 11 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 10 | 4.55 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 10 | 4.55 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 10 | 4.55 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 10 | 4.55 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 7 | 4.55 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 7 | 4.55 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 12 | 4.55 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 12 | 4.55 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 12 | 4.55 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 12 | 4.55 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 12 | 4.55 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 12 | 4.55 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 4 | 4.55 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 4 | 4.55 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 4 | 4.55 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 4 | 4.55 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 8 | 4.55 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 8 | 4.55 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 8 | 4.55 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 8 | 4.55 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 2 | 4.55 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 2 | 4.55 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 2 | 4.55 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 2 | 4.55 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 15 | 4.55 |
| (1,8617) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 15 | 4.55 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 15 | 4.55 |
| (1,8617) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 15 | 4.55 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 11 | 4.55 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 11 | 4.55 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 11 | 4.55 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 11 | 4.55 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 20 | 4.55 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 20 | 4.55 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 14 | 4.55 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 14 | 4.55 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 5 | 4.55 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 14 | 4.55 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 14 | 4.55 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 4 | 4.55 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 4 | 4.55 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 7 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 12 | 4.55 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 1 | 4.55 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 1 | 4.55 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 15 | 4.55 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 17 | 4.55 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 3 | 4.55 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 3 | 4.55 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 3 | 4.55 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 1 | 4.55 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 1 | 4.55 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 15 | 4.55 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 19 | 4.55 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 16 | 4.55 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 17 | 4.55 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 13 | 4.55 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 13 | 4.55 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 13 | 4.55 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 13 | 4.55 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 15 | 4.55 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 15 | 4.55 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 15 | 4.55 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 7 | 4.55 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 12 | 4.55 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 15 | 4.55 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 14 | 4.55 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 6 | 4.55 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 6 | 4.55 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 6 | 4.55 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 11 | 4.55 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 5 | 4.55 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 5 | 4.55 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 5 | 4.55 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 3 | 4.55 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 3 | 4.55 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 3 | 4.55 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 15 | 4.55 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 15 | 4.55 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 8 | 4.55 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 18 | 4.55 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 19 | 4.55 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 9 | 4.55 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 12 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 6 | 4.55 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 16 | 4.55 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 16 | 4.55 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 2 | 4.55 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 3 | 4.55 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 12 | 4.55 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 1 | 4.55 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 7 | 4.55 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 5 | 4.55 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 16 | 4.55 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 16 | 4.55 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 16 | 4.55 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 16 | 4.55 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 16 | 4.55 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 16 | 4.55 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 16 | 4.55 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 16 | 4.55 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 16 | 4.55 |
| (1,7848) | 1:62:A:VAL:HG21 | 1:88:A:LEU:H | 7 | 4.55 |
| (1,7848) | 1:62:A:VAL:HG22 | 1:88:A:LEU:H | 7 | 4.55 |
| (1,7848) | 1:62:A:VAL:HG23 | 1:88:A:LEU:H | 7 | 4.55 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 13 | 4.55 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 13 | 4.55 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 13 | 4.55 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 7 | 4.55 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 12 | 4.55 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 12 | 4.55 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 12 | 4.55 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 3 | 4.55 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 3 | 4.55 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 3 | 4.55 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 3 | 4.55 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 3 | 4.55 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 3 | 4.55 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 7 | 4.55 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 18 | 4.55 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 18 | 4.55 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 18 | 4.55 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 8 | 4.55 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 8 | 4.55 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 8 | 4.55 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 8 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 8 | 4.55 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 8 | 4.55 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 8 | 4.55 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 8 | 4.55 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 8 | 4.55 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 5 | 4.55 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 5 | 4.55 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 11 | 4.55 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 11 | 4.55 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 12 | 4.55 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 11 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 5 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 5 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 5 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 5 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 8 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 8 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 8 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 8 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 17 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 17 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 17 | 4.55 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 17 | 4.55 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 11 | 4.55 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 11 | 4.55 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 19 | 4.55 |
| (1,7571) | 1:23:A:TYR:H | 1:24:A:TYR:HA | 4 | 4.55 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 3 | 4.55 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 14 | 4.55 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 10 | 4.55 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 19 | 4.55 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 12 | 4.55 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 10 | 4.55 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 17 | 4.55 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 2 | 4.55 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 4 | 4.55 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 18 | 4.55 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 8 | 4.55 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 8 | 4.55 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 9 | 4.55 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 3 | 4.55 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 12 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 11 | 4.55 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 15 | 4.55 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 2 | 4.55 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 2 | 4.55 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 17 | 4.55 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 14 | 4.55 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 14 | 4.55 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 12 | 4.55 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 8 | 4.55 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 3 | 4.55 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 19 | 4.55 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 1 | 4.55 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 6 | 4.55 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 6 | 4.55 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 6 | 4.55 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 8 | 4.55 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 9 | 4.55 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 18 | 4.55 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 17 | 4.55 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 17 | 4.55 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 17 | 4.55 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 17 | 4.55 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 17 | 4.55 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 17 | 4.55 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 17 | 4.55 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 17 | 4.55 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 17 | 4.55 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 5 | 4.55 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 1 | 4.55 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 1 | 4.55 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 1 | 4.55 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 1 | 4.55 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 1 | 4.55 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 1 | 4.55 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 8 | 4.55 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 20 | 4.55 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 4 | 4.55 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 10 | 4.55 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 18 | 4.55 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 4 | 4.55 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 4 | 4.55 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 4 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 16 | 4.55 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 16 | 4.55 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 16 | 4.55 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 19 | 4.55 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 19 | 4.55 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 2 | 4.55 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 14 | 4.55 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 17 | 4.55 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 11 | 4.55 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 11 | 4.55 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 11 | 4.55 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 11 | 4.55 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 1 | 4.55 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 1 | 4.55 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 5 | 4.55 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 4.55 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 6 | 4.55 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 19 | 4.55 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 19 | 4.55 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 19 | 4.55 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 19 | 4.55 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 19 | 4.55 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 19 | 4.55 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 5 | 4.55 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 13 | 4.55 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 20 | 4.55 |
| (1,5845) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 4 | 4.55 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 15 | 4.55 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 15 | 4.55 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 15 | 4.55 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 15 | 4.55 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 15 | 4.55 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 15 | 4.55 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 4 | 4.55 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 12 | 4.55 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 12 | 4.55 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 12 | 4.55 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 4 | 4.55 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 3 | 4.55 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 3 | 4.55 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 3 | 4.55 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 17 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 17 | 4.55 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 17 | 4.55 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 2 | 4.55 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 2 | 4.55 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 2 | 4.55 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 2 | 4.55 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 2 | 4.55 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 2 | 4.55 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 16 | 4.55 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 16 | 4.55 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 16 | 4.55 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 3 | 4.55 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 5 | 4.55 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 5 | 4.55 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 12 | 4.55 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 16 | 4.55 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 5 | 4.55 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 5 | 4.55 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 5 | 4.55 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 2 | 4.55 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 15 | 4.55 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 15 | 4.55 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 15 | 4.55 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 15 | 4.55 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 15 | 4.55 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 15 | 4.55 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 15 | 4.55 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 13 | 4.55 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 16 | 4.55 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 16 | 4.55 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 16 | 4.55 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 7 | 4.55 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 15 | 4.55 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 15 | 4.55 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 20 | 4.55 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 4 | 4.55 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 4 | 4.55 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 14 | 4.55 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 14 | 4.55 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 14 | 4.55 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 20 | 4.55 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 2 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 2 | 4.55 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 2 | 4.55 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 5 | 4.55 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 3 | 4.55 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 3 | 4.55 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 6 | 4.55 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 6 | 4.55 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 1 | 4.55 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 1 | 4.55 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 1 | 4.55 |
| (1,4592) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 18 | 4.55 |
| (1,4592) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 18 | 4.55 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 16 | 4.55 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 16 | 4.55 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 16 | 4.55 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 13 | 4.55 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 15 | 4.55 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 8 | 4.55 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 8 | 4.55 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 8 | 4.55 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 8 | 4.55 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 8 | 4.55 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 7 | 4.55 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 7 | 4.55 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 7 | 4.55 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 7 | 4.55 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 7 | 4.55 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 7 | 4.55 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 4 | 4.55 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 4 | 4.55 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 8 | 4.55 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 4 | 4.55 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 4 | 4.55 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 4 | 4.55 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 4 | 4.55 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 4 | 4.55 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 4 | 4.55 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 15 | 4.55 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 15 | 4.55 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 15 | 4.55 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 18 | 4.55 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 18 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 18 | 4.55 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 15 | 4.55 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 15 | 4.55 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 15 | 4.55 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 9 | 4.55 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 9 | 4.55 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 9 | 4.55 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 9 | 4.55 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 9 | 4.55 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 9 | 4.55 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 5 | 4.55 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 5 | 4.55 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 5 | 4.55 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 18 | 4.55 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 18 | 4.55 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 18 | 4.55 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 4 | 4.55 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 4 | 4.55 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 4 | 4.55 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 8 | 4.55 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 8 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 5 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 5 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 5 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 5 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 5 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 5 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 18 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 18 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 18 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 18 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 18 | 4.55 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 18 | 4.55 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 8 | 4.55 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 8 | 4.55 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 8 | 4.55 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 8 | 4.55 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 8 | 4.55 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 8 | 4.55 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 12 | 4.55 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 12 | 4.55 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 12 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 12 | 4.55 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 12 | 4.55 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 12 | 4.55 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 7 | 4.55 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 7 | 4.55 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 7 | 4.55 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 7 | 4.55 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 7 | 4.55 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 7 | 4.55 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 15 | 4.55 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 15 | 4.55 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 15 | 4.55 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 15 | 4.55 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 4 | 4.55 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 4 | 4.55 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 4 | 4.55 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 4 | 4.55 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 4 | 4.55 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 4 | 4.55 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 4 | 4.55 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 4 | 4.55 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 3 | 4.55 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 14 | 4.55 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 14 | 4.55 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 8 | 4.55 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 8 | 4.55 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 8 | 4.55 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 8 | 4.55 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 15 | 4.55 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 15 | 4.55 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 15 | 4.55 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 11 | 4.55 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 11 | 4.55 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 11 | 4.55 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 11 | 4.55 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 8 | 4.55 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 10 | 4.55 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 10 | 4.55 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 1 | 4.55 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 14 | 4.55 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 14 | 4.55 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 17 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 4 | 4.55 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 4 | 4.55 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 4 | 4.55 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 4 | 4.55 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 4 | 4.55 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 4 | 4.55 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 3 | 4.55 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 12 | 4.55 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 10 | 4.55 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 11 | 4.55 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 5 | 4.55 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 5 | 4.55 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 5 | 4.55 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 15 | 4.55 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 10 | 4.55 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 2 | 4.55 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 2 | 4.55 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 17 | 4.55 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 18 | 4.55 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 18 | 4.55 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 18 | 4.55 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 14 | 4.55 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 14 | 4.55 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 12 | 4.55 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 8 | 4.55 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 3 | 4.55 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 19 | 4.55 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 1 | 4.55 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 6 | 4.55 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 6 | 4.55 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 6 | 4.55 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 8 | 4.55 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 9 | 4.55 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 18 | 4.55 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 4 | 4.55 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 4 | 4.55 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 8 | 4.55 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 8 | 4.55 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 17 | 4.55 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 17 | 4.55 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 17 | 4.55 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 17 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 17 | 4.55 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 17 | 4.55 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 17 | 4.55 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 17 | 4.55 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 17 | 4.55 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 2 | 4.55 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 2 | 4.55 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 2 | 4.55 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 5 | 4.55 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 6 | 4.55 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 8 | 4.55 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 20 | 4.55 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 4 | 4.55 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 10 | 4.55 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 18 | 4.55 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 17 | 4.55 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 4 | 4.55 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 4 | 4.55 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 4 | 4.55 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 16 | 4.55 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 16 | 4.55 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 16 | 4.55 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 19 | 4.55 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 19 | 4.55 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 2 | 4.55 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 14 | 4.55 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 17 | 4.55 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 11 | 4.55 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 18 | 4.55 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 18 | 4.55 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 18 | 4.55 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 6 | 4.55 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 6 | 4.55 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 6 | 4.55 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 11 | 4.55 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 11 | 4.55 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 11 | 4.55 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 9 | 4.55 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 9 | 4.55 |
| (1,1576) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 9 | 4.55 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 18 | 4.55 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 1 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 1 | 4.55 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 5 | 4.55 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 4.55 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 6 | 4.55 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 19 | 4.55 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 19 | 4.55 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 19 | 4.55 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 19 | 4.55 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 19 | 4.55 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 19 | 4.55 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 5 | 4.55 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 13 | 4.55 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 20 | 4.55 |
| (1,1220) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 4 | 4.55 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 15 | 4.55 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 15 | 4.55 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 15 | 4.55 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 15 | 4.55 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 15 | 4.55 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 15 | 4.55 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 4 | 4.55 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 12 | 4.55 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 12 | 4.55 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 12 | 4.55 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 1 | 4.55 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 17 | 4.55 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 2 | 4.55 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 2 | 4.55 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 4 | 4.55 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 3 | 4.55 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 3 | 4.55 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 3 | 4.55 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 17 | 4.55 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 17 | 4.55 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 17 | 4.55 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 2 | 4.55 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 2 | 4.55 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 2 | 4.55 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 2 | 4.55 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 2 | 4.55 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 2 | 4.55 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 16 | 4.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 16 | 4.55 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 16 | 4.55 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 3 | 4.55 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 5 | 4.55 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 5 | 4.55 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 12 | 4.55 |
| (1,646) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 11 | 4.55 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 6 | 4.55 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 15 | 4.55 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 6 | 4.55 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 6 | 4.55 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 6 | 4.55 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 6 | 4.55 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 6 | 4.55 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 6 | 4.55 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 6 | 4.55 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 6 | 4.55 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 6 | 4.55 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 12 | 4.55 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 4.55 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 4.55 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 4.55 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 9 | 4.54 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 1 | 4.54 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 1 | 4.54 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 3 | 4.54 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 3 | 4.54 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 18 | 4.54 |
| (1,9597) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 18 | 4.54 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 18 | 4.54 |
| (1,9597) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 18 | 4.54 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 18 | 4.54 |
| (1,9597) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 18 | 4.54 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 16 | 4.54 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 16 | 4.54 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 19 | 4.54 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 19 | 4.54 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 13 | 4.54 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 13 | 4.54 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 7 | 4.54 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 7 | 4.54 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 7 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 7 | 4.54 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 7 | 4.54 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 7 | 4.54 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 16 | 4.54 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 16 | 4.54 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 16 | 4.54 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 16 | 4.54 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 12 | 4.54 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 12 | 4.54 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 20 | 4.54 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 20 | 4.54 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 17 | 4.54 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 17 | 4.54 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 14 | 4.54 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 14 | 4.54 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 3 | 4.54 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 3 | 4.54 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 16 | 4.54 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 16 | 4.54 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 16 | 4.54 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 16 | 4.54 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 16 | 4.54 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 16 | 4.54 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 20 | 4.54 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 20 | 4.54 |
| (1,9188) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 7 | 4.54 |
| (1,9188) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 7 | 4.54 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 6 | 4.54 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 6 | 4.54 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 16 | 4.54 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 16 | 4.54 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 6 | 4.54 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 6 | 4.54 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 2 | 4.54 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 2 | 4.54 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 1 | 4.54 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 1 | 4.54 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 11 | 4.54 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 11 | 4.54 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 18 | 4.54 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 18 | 4.54 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 16 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 16 | 4.54 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 19 | 4.54 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 19 | 4.54 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 10 | 4.54 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 10 | 4.54 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 9 | 4.54 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 9 | 4.54 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 9 | 4.54 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 9 | 4.54 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 14 | 4.54 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 14 | 4.54 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 2 | 4.54 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 2 | 4.54 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 19 | 4.54 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 19 | 4.54 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 19 | 4.54 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 19 | 4.54 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 19 | 4.54 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 19 | 4.54 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 18 | 4.54 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 18 | 4.54 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 18 | 4.54 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 18 | 4.54 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 18 | 4.54 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 18 | 4.54 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 15 | 4.54 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 15 | 4.54 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 15 | 4.54 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 15 | 4.54 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 15 | 4.54 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 15 | 4.54 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 11 | 4.54 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 11 | 4.54 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 11 | 4.54 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 11 | 4.54 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 11 | 4.54 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 11 | 4.54 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 18 | 4.54 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 18 | 4.54 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 18 | 4.54 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 18 | 4.54 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 3 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 3 | 4.54 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 5 | 4.54 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 5 | 4.54 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 5 | 4.54 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 5 | 4.54 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 11 | 4.54 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 11 | 4.54 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 11 | 4.54 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 11 | 4.54 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 12 | 4.54 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 12 | 4.54 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 12 | 4.54 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 12 | 4.54 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 15 | 4.54 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 15 | 4.54 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 15 | 4.54 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG21 | 5 | 4.54 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG22 | 5 | 4.54 |
| (1,8494) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HG23 | 5 | 4.54 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG21 | 5 | 4.54 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG22 | 5 | 4.54 |
| (1,8494) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HG23 | 5 | 4.54 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG21 | 5 | 4.54 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG22 | 5 | 4.54 |
| (1,8494) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HG23 | 5 | 4.54 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 14 | 4.54 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 5 | 4.54 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 5 | 4.54 |
| (1,8435) | 1:144:A:GLY:H | 1:145:A:GLU:HB3 | 5 | 4.54 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 15 | 4.54 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 15 | 4.54 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 20 | 4.54 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 10 | 4.54 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 4 | 4.54 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 4 | 4.54 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 4 | 4.54 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 4 | 4.54 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 4 | 4.54 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 4 | 4.54 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 3 | 4.54 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 3 | 4.54 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 10 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 7 | 4.54 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 16 | 4.54 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 11 | 4.54 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 10 | 4.54 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 15 | 4.54 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 13 | 4.54 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 13 | 4.54 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 13 | 4.54 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 13 | 4.54 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 6 | 4.54 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 5 | 4.54 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 5 | 4.54 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 1 | 4.54 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 1 | 4.54 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 1 | 4.54 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 20 | 4.54 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 1 | 4.54 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 1 | 4.54 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 1 | 4.54 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 1 | 4.54 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 1 | 4.54 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 1 | 4.54 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 1 | 4.54 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 1 | 4.54 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 1 | 4.54 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 14 | 4.54 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 4 | 4.54 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 4 | 4.54 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 4 | 4.54 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 18 | 4.54 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 18 | 4.54 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 18 | 4.54 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 18 | 4.54 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 18 | 4.54 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 18 | 4.54 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 9 | 4.54 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 9 | 4.54 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 9 | 4.54 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 18 | 4.54 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 18 | 4.54 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 18 | 4.54 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 2 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 12 | 4.54 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 12 | 4.54 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 12 | 4.54 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 16 | 4.54 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 16 | 4.54 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 16 | 4.54 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 16 | 4.54 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 16 | 4.54 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 16 | 4.54 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 20 | 4.54 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 20 | 4.54 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 6 | 4.54 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 6 | 4.54 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 6 | 4.54 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 10 | 4.54 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 10 | 4.54 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 10 | 4.54 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 10 | 4.54 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 2 | 4.54 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 20 | 4.54 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 14 | 4.54 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 14 | 4.54 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 14 | 4.54 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 4 | 4.54 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 2 | 4.54 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 11 | 4.54 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 11 | 4.54 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 8 | 4.54 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 8 | 4.54 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 8 | 4.54 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 8 | 4.54 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 18 | 4.54 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 6 | 4.54 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 6 | 4.54 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 11 | 4.54 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 9 | 4.54 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 5 | 4.54 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 5 | 4.54 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 5 | 4.54 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 8 | 4.54 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 20 | 4.54 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 20 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 10 | 4.54 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 20 | 4.54 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 1 | 4.54 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 1 | 4.54 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 1 | 4.54 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 1 | 4.54 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 1 | 4.54 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 1 | 4.54 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 1 | 4.54 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 1 | 4.54 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 1 | 4.54 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 10 | 4.54 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 10 | 4.54 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 10 | 4.54 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 10 | 4.54 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 2 | 4.54 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 1 | 4.54 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 4 | 4.54 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 4 | 4.54 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 4 | 4.54 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 10 | 4.54 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 9 | 4.54 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 19 | 4.54 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 19 | 4.54 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 19 | 4.54 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 19 | 4.54 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 13 | 4.54 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 4 | 4.54 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 6 | 4.54 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 4 | 4.54 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 9 | 4.54 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 9 | 4.54 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 9 | 4.54 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 9 | 4.54 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 9 | 4.54 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 9 | 4.54 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 14 | 4.54 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 14 | 4.54 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 14 | 4.54 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 20 | 4.54 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 1 | 4.54 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 10 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 10 | 4.54 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 10 | 4.54 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 8 | 4.54 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 8 | 4.54 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 8 | 4.54 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 8 | 4.54 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 8 | 4.54 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 8 | 4.54 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 8 | 4.54 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 8 | 4.54 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 8 | 4.54 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 8 | 4.54 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 8 | 4.54 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 8 | 4.54 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 8 | 4.54 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 8 | 4.54 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 8 | 4.54 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 3 | 4.54 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 13 | 4.54 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 13 | 4.54 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 13 | 4.54 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 1 | 4.54 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 8 | 4.54 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 20 | 4.54 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 7 | 4.54 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 10 | 4.54 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 10 | 4.54 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 10 | 4.54 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 17 | 4.54 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 17 | 4.54 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 20 | 4.54 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 20 | 4.54 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 20 | 4.54 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 11 | 4.54 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 11 | 4.54 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 11 | 4.54 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 11 | 4.54 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 4 | 4.54 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 5 | 4.54 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 5 | 4.54 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 5 | 4.54 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 11 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 12 | 4.54 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 12 | 4.54 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 12 | 4.54 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 16 | 4.54 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 16 | 4.54 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 16 | 4.54 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 17 | 4.54 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 1 | 4.54 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 7 | 4.54 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 15 | 4.54 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 3 | 4.54 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 9 | 4.54 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 9 | 4.54 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 9 | 4.54 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 16 | 4.54 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 8 | 4.54 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 17 | 4.54 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 11 | 4.54 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 11 | 4.54 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 14 | 4.54 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 14 | 4.54 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 14 | 4.54 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 13 | 4.54 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 15 | 4.54 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 15 | 4.54 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 15 | 4.54 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 15 | 4.54 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 15 | 4.54 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 15 | 4.54 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 15 | 4.54 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 15 | 4.54 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 15 | 4.54 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 3 | 4.54 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 3 | 4.54 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 3 | 4.54 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 9 | 4.54 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 9 | 4.54 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 9 | 4.54 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 14 | 4.54 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 14 | 4.54 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 14 | 4.54 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 14 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 14 | 4.54 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 14 | 4.54 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 7 | 4.54 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 7 | 4.54 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 7 | 4.54 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 17 | 4.54 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 17 | 4.54 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 17 | 4.54 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 10 | 4.54 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 10 | 4.54 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 10 | 4.54 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 5 | 4.54 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 5 | 4.54 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 1 | 4.54 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 2 | 4.54 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 10 | 4.54 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 10 | 4.54 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 10 | 4.54 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 7 | 4.54 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 7 | 4.54 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 7 | 4.54 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 7 | 4.54 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 7 | 4.54 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 7 | 4.54 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 19 | 4.54 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 14 | 4.54 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 14 | 4.54 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 4 | 4.54 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 4 | 4.54 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 4 | 4.54 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 6 | 4.54 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 19 | 4.54 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 13 | 4.54 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 8 | 4.54 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 6 | 4.54 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 17 | 4.54 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 1 | 4.54 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 17 | 4.54 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 17 | 4.54 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 17 | 4.54 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 4.54 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 2 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4168) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 7 | 4.54 |
| (1,4168) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 7 | 4.54 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 6 | 4.54 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 6 | 4.54 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 13 | 4.54 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 10 | 4.54 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 10 | 4.54 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 10 | 4.54 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 7 | 4.54 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 7 | 4.54 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 7 | 4.54 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 1 | 4.54 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 1 | 4.54 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 11 | 4.54 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 11 | 4.54 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 16 | 4.54 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 16 | 4.54 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 19 | 4.54 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 19 | 4.54 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 4 | 4.54 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 4 | 4.54 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 14 | 4.54 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 14 | 4.54 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 3 | 4.54 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 7 | 4.54 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 4 | 4.54 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 20 | 4.54 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 4.54 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 1 | 4.54 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 19 | 4.54 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 19 | 4.54 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 19 | 4.54 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 19 | 4.54 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 19 | 4.54 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 19 | 4.54 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 18 | 4.54 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 18 | 4.54 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 18 | 4.54 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 18 | 4.54 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 18 | 4.54 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 18 | 4.54 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 15 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 15 | 4.54 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 15 | 4.54 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 15 | 4.54 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 15 | 4.54 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 15 | 4.54 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 11 | 4.54 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 11 | 4.54 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 11 | 4.54 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 11 | 4.54 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 11 | 4.54 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 11 | 4.54 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 3 | 4.54 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 17 | 4.54 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 17 | 4.54 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 17 | 4.54 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 5 | 4.54 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 6 | 4.54 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 6 | 4.54 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 6 | 4.54 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 6 | 4.54 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 6 | 4.54 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 6 | 4.54 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 18 | 4.54 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 18 | 4.54 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 18 | 4.54 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 18 | 4.54 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 18 | 4.54 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 13 | 4.54 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 13 | 4.54 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 19 | 4.54 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 17 | 4.54 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 17 | 4.54 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 19 | 4.54 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 11 | 4.54 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 11 | 4.54 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 11 | 4.54 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 11 | 4.54 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 12 | 4.54 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 12 | 4.54 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 12 | 4.54 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 12 | 4.54 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 3 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 9 | 4.54 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 17 | 4.54 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 3 | 4.54 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 10 | 4.54 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 20 | 4.54 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 12 | 4.54 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 15 | 4.54 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 13 | 4.54 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 13 | 4.54 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 13 | 4.54 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 1 | 4.54 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 1 | 4.54 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 1 | 4.54 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 1 | 4.54 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 1 | 4.54 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 1 | 4.54 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 1 | 4.54 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 1 | 4.54 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 1 | 4.54 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 10 | 4.54 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 10 | 4.54 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 10 | 4.54 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 11 | 4.54 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 11 | 4.54 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 11 | 4.54 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 9 | 4.54 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 9 | 4.54 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 9 | 4.54 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 10 | 4.54 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 1 | 4.54 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 1 | 4.54 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 14 | 4.54 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 2 | 4.54 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 1 | 4.54 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 4 | 4.54 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 4 | 4.54 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 4 | 4.54 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 10 | 4.54 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 9 | 4.54 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 19 | 4.54 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 19 | 4.54 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 19 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 19 | 4.54 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 11 | 4.54 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 11 | 4.54 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 11 | 4.54 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 5 | 4.54 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 5 | 4.54 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 5 | 4.54 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 5 | 4.54 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 13 | 4.54 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 4 | 4.54 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 6 | 4.54 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 12 | 4.54 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 4 | 4.54 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 9 | 4.54 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 9 | 4.54 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 9 | 4.54 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 9 | 4.54 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 9 | 4.54 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 9 | 4.54 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 14 | 4.54 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 14 | 4.54 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 14 | 4.54 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 20 | 4.54 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 1 | 4.54 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 10 | 4.54 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 10 | 4.54 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 10 | 4.54 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 13 | 4.54 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 8 | 4.54 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 8 | 4.54 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 8 | 4.54 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 8 | 4.54 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 8 | 4.54 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 8 | 4.54 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 8 | 4.54 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 8 | 4.54 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 8 | 4.54 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 4.54 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 4.54 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 4.54 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 10 | 4.54 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 10 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 8 | 4.54 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 8 | 4.54 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 8 | 4.54 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 8 | 4.54 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 8 | 4.54 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 8 | 4.54 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 6 | 4.54 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 3 | 4.54 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 13 | 4.54 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 13 | 4.54 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 13 | 4.54 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 1 | 4.54 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 3 | 4.54 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 3 | 4.54 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 3 | 4.54 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 2 | 4.54 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 2 | 4.54 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 2 | 4.54 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 1 | 4.54 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 5 | 4.54 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 1 | 4.54 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 8 | 4.54 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 20 | 4.54 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 7 | 4.54 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 10 | 4.54 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 20 | 4.54 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 10 | 4.54 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 10 | 4.54 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 17 | 4.54 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 17 | 4.54 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 4 | 4.54 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 20 | 4.54 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 20 | 4.54 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 20 | 4.54 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 11 | 4.54 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 11 | 4.54 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 11 | 4.54 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 11 | 4.54 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 2 | 4.54 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 2 | 4.54 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 2 | 4.54 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 13 | 4.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 13 | 4.54 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 13 | 4.54 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 10 | 4.54 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 10 | 4.54 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 10 | 4.54 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 4 | 4.54 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 13 | 4.54 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 13 | 4.54 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 13 | 4.54 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 13 | 4.54 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 5 | 4.53 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 12 | 4.53 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 6 | 4.53 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 6 | 4.53 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 18 | 4.53 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 18 | 4.53 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 1 | 4.53 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 1 | 4.53 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 1 | 4.53 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 1 | 4.53 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 1 | 4.53 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 1 | 4.53 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 16 | 4.53 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 16 | 4.53 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 16 | 4.53 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 16 | 4.53 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 16 | 4.53 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 16 | 4.53 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 17 | 4.53 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 17 | 4.53 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 1 | 4.53 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 1 | 4.53 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 8 | 4.53 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 8 | 4.53 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 12 | 4.53 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 12 | 4.53 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 5 | 4.53 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 5 | 4.53 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 18 | 4.53 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 18 | 4.53 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 16 | 4.53 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 16 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 18 | 4.53 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 18 | 4.53 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 18 | 4.53 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 18 | 4.53 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 18 | 4.53 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 18 | 4.53 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 7 | 4.53 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 7 | 4.53 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 7 | 4.53 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 7 | 4.53 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 5 | 4.53 |
| (1,9163) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 5 | 4.53 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 7 | 4.53 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 7 | 4.53 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 8 | 4.53 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 8 | 4.53 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 16 | 4.53 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 16 | 4.53 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 8 | 4.53 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 8 | 4.53 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 15 | 4.53 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 15 | 4.53 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 11 | 4.53 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 11 | 4.53 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 9 | 4.53 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 9 | 4.53 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 13 | 4.53 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 13 | 4.53 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 15 | 4.53 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 15 | 4.53 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 12 | 4.53 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 12 | 4.53 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 12 | 4.53 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 12 | 4.53 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 5 | 4.53 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 5 | 4.53 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 5 | 4.53 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 5 | 4.53 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 5 | 4.53 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 5 | 4.53 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 7 | 4.53 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 7 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 7 | 4.53 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 7 | 4.53 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 7 | 4.53 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 7 | 4.53 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 19 | 4.53 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 19 | 4.53 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 11 | 4.53 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 11 | 4.53 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 4.53 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 4.53 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 4.53 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 4.53 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 1 | 4.53 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 1 | 4.53 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 4 | 4.53 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 4 | 4.53 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 11 | 4.53 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 11 | 4.53 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 4 | 4.53 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 15 | 4.53 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 2 | 4.53 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 1 | 4.53 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 1 | 4.53 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 1 | 4.53 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 1 | 4.53 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 1 | 4.53 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 1 | 4.53 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 1 | 4.53 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 1 | 4.53 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 1 | 4.53 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 11 | 4.53 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 11 | 4.53 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 11 | 4.53 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 10 | 4.53 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 10 | 4.53 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 18 | 4.53 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 1 | 4.53 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 5 | 4.53 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 1 | 4.53 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 11 | 4.53 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 19 | 4.53 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 11 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 9 | 4.53 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 9 | 4.53 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 9 | 4.53 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 11 | 4.53 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 11 | 4.53 |
| (1,8337) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 13 | 4.53 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 16 | 4.53 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 5 | 4.53 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 5 | 4.53 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 4 | 4.53 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 4 | 4.53 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 10 | 4.53 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 10 | 4.53 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 19 | 4.53 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 19 | 4.53 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 12 | 4.53 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 4 | 4.53 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 5 | 4.53 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 5 | 4.53 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 5 | 4.53 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 7 | 4.53 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 7 | 4.53 |
| (1,8104) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 7 | 4.53 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 7 | 4.53 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 13 | 4.53 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 13 | 4.53 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 8 | 4.53 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 17 | 4.53 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 6 | 4.53 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 10 | 4.53 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 10 | 4.53 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 10 | 4.53 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 13 | 4.53 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 20 | 4.53 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 20 | 4.53 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 20 | 4.53 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 8 | 4.53 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 8 | 4.53 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 9 | 4.53 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 9 | 4.53 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 9 | 4.53 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 9 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 9 | 4.53 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 9 | 4.53 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 9 | 4.53 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 9 | 4.53 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 9 | 4.53 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 7 | 4.53 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 7 | 4.53 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 19 | 4.53 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 20 | 4.53 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 8 | 4.53 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 8 | 4.53 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 8 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 11 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 11 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 11 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 11 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 11 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 11 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 13 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 13 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 13 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 13 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 13 | 4.53 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 13 | 4.53 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 10 | 4.53 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 10 | 4.53 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 10 | 4.53 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 5 | 4.53 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 9 | 4.53 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 20 | 4.53 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 2 | 4.53 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 2 | 4.53 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 9 | 4.53 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 9 | 4.53 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 9 | 4.53 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 1 | 4.53 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 1 | 4.53 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 8 | 4.53 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 17 | 4.53 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 2 | 4.53 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 14 | 4.53 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 2 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 6 | 4.53 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 16 | 4.53 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 17 | 4.53 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 17 | 4.53 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 17 | 4.53 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 6 | 4.53 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 8 | 4.53 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 10 | 4.53 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 10 | 4.53 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 17 | 4.53 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 1 | 4.53 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 1 | 4.53 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 1 | 4.53 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 4 | 4.53 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 4 | 4.53 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 4 | 4.53 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 8 | 4.53 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 8 | 4.53 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 12 | 4.53 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 2 | 4.53 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 3 | 4.53 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 11 | 4.53 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 4 | 4.53 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 18 | 4.53 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 18 | 4.53 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 18 | 4.53 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 19 | 4.53 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 19 | 4.53 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 4 | 4.53 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 17 | 4.53 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 17 | 4.53 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 17 | 4.53 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 2 | 4.53 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 2 | 4.53 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 12 | 4.53 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 14 | 4.53 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 14 | 4.53 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 6 | 4.53 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 6 | 4.53 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 6 | 4.53 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 6 | 4.53 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 9 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 9 | 4.53 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 9 | 4.53 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 2 | 4.53 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 2 | 4.53 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 2 | 4.53 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 12 | 4.53 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 20 | 4.53 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 12 | 4.53 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 5 | 4.53 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 5 | 4.53 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 11 | 4.53 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 11 | 4.53 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 15 | 4.53 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 15 | 4.53 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 11 | 4.53 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 11 | 4.53 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 11 | 4.53 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 9 | 4.53 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 6 | 4.53 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 12 | 4.53 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 12 | 4.53 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 18 | 4.53 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 1 | 4.53 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 1 | 4.53 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 14 | 4.53 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 3 | 4.53 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 3 | 4.53 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 3 | 4.53 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 7 | 4.53 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 13 | 4.53 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 13 | 4.53 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 13 | 4.53 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 5 | 4.53 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 5 | 4.53 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 5 | 4.53 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 13 | 4.53 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 13 | 4.53 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 13 | 4.53 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 16 | 4.53 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 16 | 4.53 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 14 | 4.53 |
| (1,6785) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 14 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 9 | 4.53 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 15 | 4.53 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 8 | 4.53 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 2 | 4.53 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 2 | 4.53 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 2 | 4.53 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 10 | 4.53 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 10 | 4.53 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 10 | 4.53 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 11 | 4.53 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 8 | 4.53 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 3 | 4.53 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 9 | 4.53 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 11 | 4.53 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 16 | 4.53 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 9 | 4.53 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 13 | 4.53 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 13 | 4.53 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 13 | 4.53 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 3 | 4.53 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 3 | 4.53 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 3 | 4.53 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 10 | 4.53 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 10 | 4.53 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 10 | 4.53 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 14 | 4.53 |
| (1,6345) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 10 | 4.53 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 16 | 4.53 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 16 | 4.53 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 16 | 4.53 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 15 | 4.53 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 15 | 4.53 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 15 | 4.53 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 18 | 4.53 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 15 | 4.53 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 1 | 4.53 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 1 | 4.53 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 10 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 2 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 2 | 4.53 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 2 | 4.53 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 15 | 4.53 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 2 | 4.53 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 20 | 4.53 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 20 | 4.53 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 20 | 4.53 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 17 | 4.53 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 17 | 4.53 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 17 | 4.53 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 16 | 4.53 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 6 | 4.53 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 6 | 4.53 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 6 | 4.53 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 10 | 4.53 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 10 | 4.53 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 10 | 4.53 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 7 | 4.53 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 7 | 4.53 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 7 | 4.53 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 2 | 4.53 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 12 | 4.53 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 10 | 4.53 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 6 | 4.53 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 8 | 4.53 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 8 | 4.53 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 8 | 4.53 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 8 | 4.53 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 8 | 4.53 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 8 | 4.53 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 13 | 4.53 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 6 | 4.53 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 19 | 4.53 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 19 | 4.53 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 19 | 4.53 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 17 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 17 | 4.53 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 17 | 4.53 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 14 | 4.53 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 1 | 4.53 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 16 | 4.53 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 7 | 4.53 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 7 | 4.53 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 7 | 4.53 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 2 | 4.53 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 2 | 4.53 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 2 | 4.53 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 7 | 4.53 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 17 | 4.53 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 17 | 4.53 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 17 | 4.53 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 16 | 4.53 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 19 | 4.53 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 6 | 4.53 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 11 | 4.53 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 5 | 4.53 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 5 | 4.53 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 5 | 4.53 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 4 | 4.53 |
| (1,5084) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 5 | 4.53 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 6 | 4.53 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 6 | 4.53 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 6 | 4.53 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 5 | 4.53 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 1 | 4.53 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 6 | 4.53 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 6 | 4.53 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 12 | 4.53 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 12 | 4.53 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 12 | 4.53 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 12 | 4.53 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 4 | 4.53 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 4 | 4.53 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 4 | 4.53 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 18 | 4.53 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 18 | 4.53 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 18 | 4.53 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 17 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 10 | 4.53 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 10 | 4.53 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 16 | 4.53 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 16 | 4.53 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 16 | 4.53 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 4 | 4.53 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 19 | 4.53 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 19 | 4.53 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 19 | 4.53 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 15 | 4.53 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 15 | 4.53 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 15 | 4.53 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 15 | 4.53 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 2 | 4.53 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 2 | 4.53 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 2 | 4.53 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 16 | 4.53 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 16 | 4.53 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 16 | 4.53 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 16 | 4.53 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 16 | 4.53 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 16 | 4.53 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 5 | 4.53 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 5 | 4.53 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 5 | 4.53 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 5 | 4.53 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 5 | 4.53 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 5 | 4.53 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 5 | 4.53 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 5 | 4.53 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 5 | 4.53 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 4 | 4.53 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 4 | 4.53 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 4 | 4.53 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 4 | 4.53 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 4 | 4.53 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 4 | 4.53 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 1 | 4.53 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 1 | 4.53 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 12 | 4.53 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 12 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 4.53 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 4.53 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 1 | 4.53 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 16 | 4.53 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 13 | 4.53 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 16 | 4.53 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 16 | 4.53 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 18 | 4.53 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 18 | 4.53 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 18 | 4.53 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 18 | 4.53 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 18 | 4.53 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 18 | 4.53 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 16 | 4.53 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 20 | 4.53 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 20 | 4.53 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 20 | 4.53 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 20 | 4.53 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 20 | 4.53 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 20 | 4.53 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 1 | 4.53 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 1 | 4.53 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 1 | 4.53 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 1 | 4.53 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 16 | 4.53 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 16 | 4.53 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 16 | 4.53 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 16 | 4.53 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 15 | 4.53 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 15 | 4.53 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 11 | 4.53 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 19 | 4.53 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 8 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 15 | 4.53 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 9 | 4.53 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 9 | 4.53 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 13 | 4.53 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 13 | 4.53 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 1 | 4.53 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 5 | 4.53 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 5 | 4.53 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 5 | 4.53 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 5 | 4.53 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 5 | 4.53 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 5 | 4.53 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 7 | 4.53 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 7 | 4.53 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 7 | 4.53 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 7 | 4.53 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 7 | 4.53 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 7 | 4.53 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 11 | 4.53 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 11 | 4.53 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 19 | 4.53 |
| (1,3648) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 8 | 4.53 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 13 | 4.53 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 13 | 4.53 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 13 | 4.53 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 13 | 4.53 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 10 | 4.53 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 10 | 4.53 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 10 | 4.53 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 10 | 4.53 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 4.53 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 4.53 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 4.53 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 4.53 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 4.53 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 7 | 4.53 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 18 | 4.53 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 9 | 4.53 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 9 | 4.53 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 9 | 4.53 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 2 | 4.53 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 2 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 2 | 4.53 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 1 | 4.53 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 2 | 4.53 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 12 | 4.53 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 20 | 4.53 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 12 | 4.53 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 4 | 4.53 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 5 | 4.53 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 5 | 4.53 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 10 | 4.53 |
| (1,3323) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 10 | 4.53 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 16 | 4.53 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 19 | 4.53 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 11 | 4.53 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 11 | 4.53 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 15 | 4.53 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 15 | 4.53 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 11 | 4.53 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 11 | 4.53 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 11 | 4.53 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 9 | 4.53 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 6 | 4.53 |
| (1,3100) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 8 | 4.53 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 12 | 4.53 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 12 | 4.53 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 18 | 4.53 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 1 | 4.53 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 1 | 4.53 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 14 | 4.53 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 3 | 4.53 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 3 | 4.53 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 3 | 4.53 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 7 | 4.53 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 13 | 4.53 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 13 | 4.53 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 13 | 4.53 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 5 | 4.53 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 5 | 4.53 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 5 | 4.53 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 13 | 4.53 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 13 | 4.53 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 13 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 16 | 4.53 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 16 | 4.53 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 14 | 4.53 |
| (1,2746) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 14 | 4.53 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 9 | 4.53 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 15 | 4.53 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 8 | 4.53 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 2 | 4.53 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 2 | 4.53 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 2 | 4.53 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 10 | 4.53 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 10 | 4.53 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 10 | 4.53 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 11 | 4.53 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 8 | 4.53 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 3 | 4.53 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 9 | 4.53 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 11 | 4.53 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 16 | 4.53 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 9 | 4.53 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 13 | 4.53 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 13 | 4.53 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 13 | 4.53 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 17 | 4.53 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 17 | 4.53 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 17 | 4.53 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 3 | 4.53 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 3 | 4.53 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 3 | 4.53 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 10 | 4.53 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 10 | 4.53 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 10 | 4.53 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 16 | 4.53 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 14 | 4.53 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 15 | 4.53 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 15 | 4.53 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 15 | 4.53 |
| (1,2024) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 10 | 4.53 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 16 | 4.53 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 16 | 4.53 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 16 | 4.53 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 15 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 15 | 4.53 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 15 | 4.53 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 2 | 4.53 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 2 | 4.53 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 2 | 4.53 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 18 | 4.53 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 15 | 4.53 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 17 | 4.53 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 1 | 4.53 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 1 | 4.53 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 11 | 4.53 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 10 | 4.53 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 15 | 4.53 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 2 | 4.53 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 20 | 4.53 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 20 | 4.53 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 20 | 4.53 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 1 | 4.53 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 17 | 4.53 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 17 | 4.53 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 17 | 4.53 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 16 | 4.53 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 6 | 4.53 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 6 | 4.53 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 6 | 4.53 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 10 | 4.53 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 10 | 4.53 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 10 | 4.53 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 7 | 4.53 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 7 | 4.53 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 7 | 4.53 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 2 | 4.53 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 12 | 4.53 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 16 | 4.53 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 10 | 4.53 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 6 | 4.53 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 8 | 4.53 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 8 | 4.53 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 8 | 4.53 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 8 | 4.53 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 8 | 4.53 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 8 | 4.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 8 | 4.53 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 13 | 4.53 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 6 | 4.53 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 19 | 4.53 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 19 | 4.53 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 19 | 4.53 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 17 | 4.53 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 17 | 4.53 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 17 | 4.53 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 5 | 4.53 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 14 | 4.53 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 11 | 4.53 |
| (1,614) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 13 | 4.53 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 1 | 4.53 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 16 | 4.53 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 11 | 4.53 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 11 | 4.53 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 11 | 4.53 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 5 | 4.53 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 18 | 4.53 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 4 | 4.53 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 18 | 4.52 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 13 | 4.52 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 9 | 4.52 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 9 | 4.52 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 7 | 4.52 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 7 | 4.52 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 7 | 4.52 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 7 | 4.52 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 16 | 4.52 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 16 | 4.52 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 19 | 4.52 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 19 | 4.52 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 16 | 4.52 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 16 | 4.52 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 11 | 4.52 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 11 | 4.52 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 10 | 4.52 |
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 10 | 4.52 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 8 | 4.52 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 8 | 4.52 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 8 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 8 | 4.52 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 8 | 4.52 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 8 | 4.52 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 10 | 4.52 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 10 | 4.52 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 13 | 4.52 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 13 | 4.52 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 13 | 4.52 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 13 | 4.52 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 15 | 4.52 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 15 | 4.52 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 4.52 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 4.52 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 4.52 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 4.52 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 4.52 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 4.52 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 2 | 4.52 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 2 | 4.52 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 8 | 4.52 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 8 | 4.52 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 17 | 4.52 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 17 | 4.52 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 1 | 4.52 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 1 | 4.52 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 2 | 4.52 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 2 | 4.52 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 12 | 4.52 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 12 | 4.52 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 19 | 4.52 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 19 | 4.52 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 19 | 4.52 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 19 | 4.52 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 19 | 4.52 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 19 | 4.52 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 18 | 4.52 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 18 | 4.52 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 20 | 4.52 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 20 | 4.52 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 2 | 4.52 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 2 | 4.52 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 2 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 2 | 4.52 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 2 | 4.52 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 2 | 4.52 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 11 | 4.52 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 11 | 4.52 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 11 | 4.52 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 11 | 4.52 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 10 | 4.52 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 10 | 4.52 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 7 | 4.52 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 7 | 4.52 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 10 | 4.52 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 10 | 4.52 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 4 | 4.52 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 4 | 4.52 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 14 | 4.52 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 14 | 4.52 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 14 | 4.52 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 14 | 4.52 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 14 | 4.52 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 14 | 4.52 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 4 | 4.52 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 4 | 4.52 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 13 | 4.52 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 13 | 4.52 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 3 | 4.52 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 3 | 4.52 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 17 | 4.52 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 17 | 4.52 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 13 | 4.52 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 13 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 2 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 2 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 2 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 2 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 8 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 8 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 8 | 4.52 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 8 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 3 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 3 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 3 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 3 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 3 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 3 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 8 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 8 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 8 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 8 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 8 | 4.52 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 8 | 4.52 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 15 | 4.52 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 15 | 4.52 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 15 | 4.52 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 15 | 4.52 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 1 | 4.52 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 1 | 4.52 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 1 | 4.52 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 1 | 4.52 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 1 | 4.52 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 1 | 4.52 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 8 | 4.52 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 8 | 4.52 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 8 | 4.52 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 8 | 4.52 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 11 | 4.52 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 11 | 4.52 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 7 | 4.52 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 7 | 4.52 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 1 | 4.52 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 1 | 4.52 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 17 | 4.52 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 17 | 4.52 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 19 | 4.52 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 19 | 4.52 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 1 | 4.52 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 1 | 4.52 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 4 | 4.52 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 8 | 4.52 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 8 | 4.52 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 8 | 4.52 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 9 | 4.52 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 9 | 4.52 |
| (1,8365) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 9 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 9 | 4.52 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 9 | 4.52 |
| (1,8365) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 9 | 4.52 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 20 | 4.52 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 20 | 4.52 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 20 | 4.52 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 18 | 4.52 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 18 | 4.52 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 11 | 4.52 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 9 | 4.52 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 7 | 4.52 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 10 | 4.52 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 6 | 4.52 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 6 | 4.52 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 19 | 4.52 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 4 | 4.52 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 19 | 4.52 |
| (1,8227) | 1:109:A:GLN:HG2 | 1:110:A:PHE:H | 2 | 4.52 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 14 | 4.52 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 1 | 4.52 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 1 | 4.52 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 1 | 4.52 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 8 | 4.52 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 2 | 4.52 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 18 | 4.52 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 18 | 4.52 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 18 | 4.52 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 4 | 4.52 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 4 | 4.52 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 20 | 4.52 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 20 | 4.52 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 12 | 4.52 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 12 | 4.52 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 17 | 4.52 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 17 | 4.52 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 13 | 4.52 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 2 | 4.52 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 2 | 4.52 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 2 | 4.52 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 13 | 4.52 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 13 | 4.52 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 13 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 13 | 4.52 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 6 | 4.52 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 20 | 4.52 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 20 | 4.52 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 20 | 4.52 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 20 | 4.52 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 20 | 4.52 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 20 | 4.52 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 20 | 4.52 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 20 | 4.52 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 20 | 4.52 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 6 | 4.52 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 13 | 4.52 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 13 | 4.52 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 13 | 4.52 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 11 | 4.52 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 15 | 4.52 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 19 | 4.52 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 2 | 4.52 |
| (1,7917) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 10 | 4.52 |
| (1,7917) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 10 | 4.52 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 5 | 4.52 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 6 | 4.52 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 20 | 4.52 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 10 | 4.52 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 10 | 4.52 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 10 | 4.52 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 10 | 4.52 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 18 | 4.52 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 12 | 4.52 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 12 | 4.52 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 12 | 4.52 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 14 | 4.52 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 14 | 4.52 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 14 | 4.52 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 3 | 4.52 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 11 | 4.52 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 18 | 4.52 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 19 | 4.52 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 9 | 4.52 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 9 | 4.52 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 9 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 5 | 4.52 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 5 | 4.52 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 18 | 4.52 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 10 | 4.52 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 18 | 4.52 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 19 | 4.52 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 1 | 4.52 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 10 | 4.52 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 12 | 4.52 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 6 | 4.52 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 6 | 4.52 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 16 | 4.52 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 16 | 4.52 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 2 | 4.52 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 2 | 4.52 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 2 | 4.52 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 19 | 4.52 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 19 | 4.52 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 4 | 4.52 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 1 | 4.52 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 1 | 4.52 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 3 | 4.52 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 10 | 4.52 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 12 | 4.52 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 4 | 4.52 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 4 | 4.52 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 14 | 4.52 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 14 | 4.52 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 2 | 4.52 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 13 | 4.52 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 10 | 4.52 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 10 | 4.52 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 12 | 4.52 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 12 | 4.52 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 12 | 4.52 |
| (1,7088) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 3 | 4.52 |
| (1,7088) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 3 | 4.52 |
| (1,7088) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 3 | 4.52 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 13 | 4.52 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 19 | 4.52 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 8 | 4.52 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 15 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 15 | 4.52 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 15 | 4.52 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 16 | 4.52 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 16 | 4.52 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 16 | 4.52 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 14 | 4.52 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 20 | 4.52 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 9 | 4.52 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 9 | 4.52 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 4 | 4.52 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 4 | 4.52 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 1 | 4.52 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 20 | 4.52 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 20 | 4.52 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 20 | 4.52 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 20 | 4.52 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 20 | 4.52 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 20 | 4.52 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 2 | 4.52 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 12 | 4.52 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 16 | 4.52 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 3 | 4.52 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 3 | 4.52 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 5 | 4.52 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 7 | 4.52 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 15 | 4.52 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 3 | 4.52 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 3 | 4.52 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 3 | 4.52 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 3 | 4.52 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 3 | 4.52 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 3 | 4.52 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 19 | 4.52 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 19 | 4.52 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 19 | 4.52 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 5 | 4.52 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 5 | 4.52 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 5 | 4.52 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 4 | 4.52 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 4 | 4.52 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 4 | 4.52 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 4 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 4 | 4.52 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 4 | 4.52 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 4 | 4.52 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 4 | 4.52 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 4 | 4.52 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 6 | 4.52 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 6 | 4.52 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 6 | 4.52 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 6 | 4.52 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 6 | 4.52 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 6 | 4.52 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 6 | 4.52 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 6 | 4.52 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 6 | 4.52 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 5 | 4.52 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 12 | 4.52 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 19 | 4.52 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 12 | 4.52 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 18 | 4.52 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 6 | 4.52 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 5 | 4.52 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 10 | 4.52 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 10 | 4.52 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 7 | 4.52 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 11 | 4.52 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 1 | 4.52 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 18 | 4.52 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 18 | 4.52 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 18 | 4.52 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 18 | 4.52 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 18 | 4.52 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 18 | 4.52 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 7 | 4.52 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 14 | 4.52 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 14 | 4.52 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 14 | 4.52 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 3 | 4.52 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 3 | 4.52 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 3 | 4.52 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 1 | 4.52 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 1 | 4.52 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 1 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 2 | 4.52 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 2 | 4.52 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 7 | 4.52 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 7 | 4.52 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 17 | 4.52 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 17 | 4.52 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 17 | 4.52 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 15 | 4.52 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 2 | 4.52 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 5 | 4.52 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 3 | 4.52 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 6 | 4.52 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 4.52 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 15 | 4.52 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 17 | 4.52 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 17 | 4.52 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 17 | 4.52 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 5 | 4.52 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 19 | 4.52 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 3 | 4.52 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 3 | 4.52 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 3 | 4.52 |
| (1,5476) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 19 | 4.52 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 15 | 4.52 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 15 | 4.52 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 15 | 4.52 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 12 | 4.52 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 12 | 4.52 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 12 | 4.52 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 5 | 4.52 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 5 | 4.52 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 5 | 4.52 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 11 | 4.52 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 15 | 4.52 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 15 | 4.52 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 15 | 4.52 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 8 | 4.52 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 11 | 4.52 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 10 | 4.52 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 12 | 4.52 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 12 | 4.52 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 12 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 13 | 4.52 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 13 | 4.52 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 13 | 4.52 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 11 | 4.52 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 12 | 4.52 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 10 | 4.52 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 5 | 4.52 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 18 | 4.52 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 17 | 4.52 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 17 | 4.52 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 17 | 4.52 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 13 | 4.52 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 14 | 4.52 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 14 | 4.52 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 14 | 4.52 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 14 | 4.52 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 14 | 4.52 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 8 | 4.52 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 8 | 4.52 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 9 | 4.52 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 9 | 4.52 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 12 | 4.52 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 12 | 4.52 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 2 | 4.52 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 2 | 4.52 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 2 | 4.52 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 4 | 4.52 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 4 | 4.52 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 4 | 4.52 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 9 | 4.52 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 9 | 4.52 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 6 | 4.52 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 8 | 4.52 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 8 | 4.52 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 5 | 4.52 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 5 | 4.52 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 8 | 4.52 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 10 | 4.52 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 10 | 4.52 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 19 | 4.52 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 19 | 4.52 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 13 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 13 | 4.52 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 13 | 4.52 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 13 | 4.52 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 15 | 4.52 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 15 | 4.52 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 4.52 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 4.52 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 4.52 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 4.52 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 4.52 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 4.52 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 2 | 4.52 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 2 | 4.52 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 8 | 4.52 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 8 | 4.52 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 17 | 4.52 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 17 | 4.52 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 14 | 4.52 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 14 | 4.52 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 14 | 4.52 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 16 | 4.52 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 19 | 4.52 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 19 | 4.52 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 19 | 4.52 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 19 | 4.52 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 19 | 4.52 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 19 | 4.52 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 13 | 4.52 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 13 | 4.52 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 13 | 4.52 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 14 | 4.52 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 10 | 4.52 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 10 | 4.52 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 17 | 4.52 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 17 | 4.52 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 17 | 4.52 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 17 | 4.52 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 17 | 4.52 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 17 | 4.52 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 4.52 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 4.52 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 14 | 4.52 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 14 | 4.52 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 14 | 4.52 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 14 | 4.52 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 14 | 4.52 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 14 | 4.52 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 16 | 4.52 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 16 | 4.52 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 19 | 4.52 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 19 | 4.52 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 19 | 4.52 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 19 | 4.52 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 19 | 4.52 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 19 | 4.52 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 6 | 4.52 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 13 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 3 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 3 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 3 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 3 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 3 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 3 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 8 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 8 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 8 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 8 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 8 | 4.52 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 8 | 4.52 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 1 | 4.52 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 1 | 4.52 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 1 | 4.52 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 1 | 4.52 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 1 | 4.52 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 1 | 4.52 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 2 | 4.52 |
| (1,3498) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 3 | 4.52 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 11 | 4.52 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 11 | 4.52 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 1 | 4.52 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 1 | 4.52 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 3 | 4.52 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 2 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 5 | 4.52 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 12 | 4.52 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 4 | 4.52 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 13 | 4.52 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 2 | 4.52 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 10 | 4.52 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 10 | 4.52 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 18 | 4.52 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 18 | 4.52 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 18 | 4.52 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 12 | 4.52 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 12 | 4.52 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 12 | 4.52 |
| (1,3160) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 3 | 4.52 |
| (1,3160) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 3 | 4.52 |
| (1,3160) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 3 | 4.52 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 2 | 4.52 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 13 | 4.52 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 19 | 4.52 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 8 | 4.52 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 15 | 4.52 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 15 | 4.52 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 15 | 4.52 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 16 | 4.52 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 16 | 4.52 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 16 | 4.52 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 14 | 4.52 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 20 | 4.52 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 9 | 4.52 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 9 | 4.52 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 4 | 4.52 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 4 | 4.52 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 18 | 4.52 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 20 | 4.52 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 20 | 4.52 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 20 | 4.52 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 20 | 4.52 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 20 | 4.52 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 20 | 4.52 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 2 | 4.52 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 1 | 4.52 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 12 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 16 | 4.52 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 19 | 4.52 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 5 | 4.52 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 7 | 4.52 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 15 | 4.52 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 5 | 4.52 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 3 | 4.52 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 3 | 4.52 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 3 | 4.52 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 3 | 4.52 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 3 | 4.52 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 3 | 4.52 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 19 | 4.52 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 19 | 4.52 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 19 | 4.52 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 5 | 4.52 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 5 | 4.52 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 5 | 4.52 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 8 | 4.52 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 4 | 4.52 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 4 | 4.52 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 4 | 4.52 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 4 | 4.52 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 4 | 4.52 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 4 | 4.52 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 4 | 4.52 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 4 | 4.52 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 4 | 4.52 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 6 | 4.52 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 6 | 4.52 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 6 | 4.52 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 6 | 4.52 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 6 | 4.52 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 6 | 4.52 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 6 | 4.52 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 6 | 4.52 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 6 | 4.52 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 5 | 4.52 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 12 | 4.52 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 19 | 4.52 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 12 | 4.52 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 18 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 6 | 4.52 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 5 | 4.52 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 11 | 4.52 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 11 | 4.52 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 11 | 4.52 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 10 | 4.52 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 3 | 4.52 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 10 | 4.52 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 7 | 4.52 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 11 | 4.52 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 1 | 4.52 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 12 | 4.52 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 12 | 4.52 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 18 | 4.52 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 18 | 4.52 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 18 | 4.52 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 18 | 4.52 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 18 | 4.52 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 18 | 4.52 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 7 | 4.52 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 14 | 4.52 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 14 | 4.52 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 14 | 4.52 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 3 | 4.52 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 3 | 4.52 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 3 | 4.52 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 1 | 4.52 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 1 | 4.52 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 1 | 4.52 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 2 | 4.52 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 2 | 4.52 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 7 | 4.52 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 7 | 4.52 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 17 | 4.52 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 17 | 4.52 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 17 | 4.52 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 4 | 4.52 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 15 | 4.52 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 2 | 4.52 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 5 | 4.52 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 3 | 4.52 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 6 | 4.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 4.52 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 15 | 4.52 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 17 | 4.52 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 17 | 4.52 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 17 | 4.52 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 5 | 4.52 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 17 | 4.52 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 19 | 4.52 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 3 | 4.52 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 3 | 4.52 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 3 | 4.52 |
| (1,584) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 19 | 4.52 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 7 | 4.52 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 7 | 4.52 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 7 | 4.52 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 7 | 4.52 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 7 | 4.52 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 7 | 4.52 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 7 | 4.52 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 7 | 4.52 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 7 | 4.52 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 15 | 4.52 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 15 | 4.52 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 15 | 4.52 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 1 | 4.52 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 1 | 4.52 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 1 | 4.52 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 10 | 4.51 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 15 | 4.51 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 2 | 4.51 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 14 | 4.51 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 10 | 4.51 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 10 | 4.51 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 19 | 4.51 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 13 | 4.51 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 15 | 4.51 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 16 | 4.51 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 16 | 4.51 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 1 | 4.51 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 1 | 4.51 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 11 | 4.51 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 11 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 20 | 4.51 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 20 | 4.51 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 5 | 4.51 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 5 | 4.51 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 19 | 4.51 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 19 | 4.51 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 19 | 4.51 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 19 | 4.51 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 4 | 4.51 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 4 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 18 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 18 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 18 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 18 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 18 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 18 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 4.51 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 4.51 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 6 | 4.51 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 6 | 4.51 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 10 | 4.51 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 10 | 4.51 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 10 | 4.51 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 10 | 4.51 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 19 | 4.51 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 19 | 4.51 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 17 | 4.51 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 17 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 17 | 4.51 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 17 | 4.51 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 19 | 4.51 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 19 | 4.51 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 5 | 4.51 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 5 | 4.51 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 5 | 4.51 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 5 | 4.51 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 5 | 4.51 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 5 | 4.51 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 3 | 4.51 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 3 | 4.51 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 3 | 4.51 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 3 | 4.51 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 3 | 4.51 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 3 | 4.51 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 7 | 4.51 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 7 | 4.51 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 7 | 4.51 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 7 | 4.51 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 18 | 4.51 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 18 | 4.51 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 18 | 4.51 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 18 | 4.51 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 18 | 4.51 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 18 | 4.51 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 6 | 4.51 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 6 | 4.51 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 6 | 4.51 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 6 | 4.51 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 10 | 4.51 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 10 | 4.51 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 16 | 4.51 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 16 | 4.51 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 9 | 4.51 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 9 | 4.51 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 9 | 4.51 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 9 | 4.51 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 17 | 4.51 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 17 | 4.51 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 17 | 4.51 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 17 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 1 | 4.51 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 1 | 4.51 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 1 | 4.51 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 1 | 4.51 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 1 | 4.51 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 1 | 4.51 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 13 | 4.51 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 13 | 4.51 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 13 | 4.51 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 13 | 4.51 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 5 | 4.51 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 5 | 4.51 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 3 | 4.51 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 3 | 4.51 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 15 | 4.51 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 15 | 4.51 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 2 | 4.51 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 2 | 4.51 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 19 | 4.51 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 19 | 4.51 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 10 | 4.51 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 10 | 4.51 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 12 | 4.51 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 19 | 4.51 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 19 | 4.51 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 17 | 4.51 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 17 | 4.51 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 19 | 4.51 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 15 | 4.51 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 13 | 4.51 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 3 | 4.51 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 15 | 4.51 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 11 | 4.51 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 10 | 4.51 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 10 | 4.51 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 10 | 4.51 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 3 | 4.51 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 3 | 4.51 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 3 | 4.51 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 15 | 4.51 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 18 | 4.51 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 18 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 18 | 4.51 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 16 | 4.51 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 8 | 4.51 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 9 | 4.51 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 4 | 4.51 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 8 | 4.51 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 20 | 4.51 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 7 | 4.51 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 5 | 4.51 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 4 | 4.51 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 8 | 4.51 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 12 | 4.51 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 16 | 4.51 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 16 | 4.51 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 16 | 4.51 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 13 | 4.51 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 13 | 4.51 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 13 | 4.51 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 6 | 4.51 |
| (1,8084) | 1:91:A:GLY:H | 1:93:A:ILE:HG12 | 7 | 4.51 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 9 | 4.51 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 16 | 4.51 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 20 | 4.51 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 3 | 4.51 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 15 | 4.51 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 5 | 4.51 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 5 | 4.51 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 5 | 4.51 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 5 | 4.51 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 5 | 4.51 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 5 | 4.51 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 5 | 4.51 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 5 | 4.51 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 5 | 4.51 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 2 | 4.51 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 20 | 4.51 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 5 | 4.51 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 5 | 4.51 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 5 | 4.51 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 16 | 4.51 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 16 | 4.51 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 16 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 1 | 4.51 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 8 | 4.51 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 20 | 4.51 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 2 | 4.51 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 20 | 4.51 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 20 | 4.51 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 20 | 4.51 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 7 | 4.51 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 7 | 4.51 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 7 | 4.51 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 4 | 4.51 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 4 | 4.51 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 4 | 4.51 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 17 | 4.51 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 1 | 4.51 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 3 | 4.51 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 5 | 4.51 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 16 | 4.51 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 16 | 4.51 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 16 | 4.51 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 13 | 4.51 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 13 | 4.51 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 13 | 4.51 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 13 | 4.51 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 13 | 4.51 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 18 | 4.51 |
| (1,7691) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 17 | 4.51 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 1 | 4.51 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 18 | 4.51 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 15 | 4.51 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 19 | 4.51 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 6 | 4.51 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 6 | 4.51 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 6 | 4.51 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 7 | 4.51 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 7 | 4.51 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 7 | 4.51 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 14 | 4.51 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 5 | 4.51 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 5 | 4.51 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 20 | 4.51 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 9 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 9 | 4.51 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 9 | 4.51 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 9 | 4.51 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 12 | 4.51 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 16 | 4.51 |
| (1,7456) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 1 | 4.51 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 16 | 4.51 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 19 | 4.51 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 19 | 4.51 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 19 | 4.51 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 6 | 4.51 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 13 | 4.51 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 3 | 4.51 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 6 | 4.51 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 10 | 4.51 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 20 | 4.51 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 13 | 4.51 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 13 | 4.51 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 7 | 4.51 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 7 | 4.51 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 7 | 4.51 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 5 | 4.51 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 12 | 4.51 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 7 | 4.51 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 13 | 4.51 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 8 | 4.51 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 5 | 4.51 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 19 | 4.51 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 4 | 4.51 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 12 | 4.51 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 19 | 4.51 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 14 | 4.51 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 11 | 4.51 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 4 | 4.51 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 15 | 4.51 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 15 | 4.51 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 18 | 4.51 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 18 | 4.51 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 13 | 4.51 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 11 | 4.51 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 11 | 4.51 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 11 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 11 | 4.51 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 11 | 4.51 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 11 | 4.51 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 11 | 4.51 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 9 | 4.51 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 15 | 4.51 |
| (1,6582) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 18 | 4.51 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 6 | 4.51 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 2 | 4.51 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 1 | 4.51 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 13 | 4.51 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 7 | 4.51 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 7 | 4.51 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 7 | 4.51 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 17 | 4.51 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 6 | 4.51 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 7 | 4.51 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 1 | 4.51 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 1 | 4.51 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 1 | 4.51 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 2 | 4.51 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 18 | 4.51 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 12 | 4.51 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 8 | 4.51 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 8 | 4.51 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 8 | 4.51 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 8 | 4.51 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 8 | 4.51 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 8 | 4.51 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 8 | 4.51 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 6 | 4.51 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 6 | 4.51 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 1 | 4.51 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 8 | 4.51 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 2 | 4.51 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 2 | 4.51 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 2 | 4.51 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 2 | 4.51 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 2 | 4.51 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 4 | 4.51 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 4 | 4.51 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 4 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 2 | 4.51 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 15 | 4.51 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 12 | 4.51 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 12 | 4.51 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 12 | 4.51 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 12 | 4.51 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 12 | 4.51 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 12 | 4.51 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 7 | 4.51 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 14 | 4.51 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 2 | 4.51 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 2 | 4.51 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 2 | 4.51 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 8 | 4.51 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 8 | 4.51 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 8 | 4.51 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 10 | 4.51 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 13 | 4.51 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 10 | 4.51 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 10 | 4.51 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 10 | 4.51 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 3 | 4.51 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 17 | 4.51 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 17 | 4.51 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 17 | 4.51 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 7 | 4.51 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 7 | 4.51 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 7 | 4.51 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 8 | 4.51 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 9 | 4.51 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 9 | 4.51 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 9 | 4.51 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 6 | 4.51 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 12 | 4.51 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 1 | 4.51 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 5 | 4.51 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 5 | 4.51 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 5 | 4.51 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 12 | 4.51 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 12 | 4.51 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 12 | 4.51 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 6 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 6 | 4.51 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 6 | 4.51 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 15 | 4.51 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 16 | 4.51 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 16 | 4.51 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 16 | 4.51 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 19 | 4.51 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 12 | 4.51 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 12 | 4.51 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 12 | 4.51 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 19 | 4.51 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 19 | 4.51 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 19 | 4.51 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 20 | 4.51 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 20 | 4.51 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 20 | 4.51 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 1 | 4.51 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 13 | 4.51 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 13 | 4.51 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 13 | 4.51 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 1 | 4.51 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 1 | 4.51 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 1 | 4.51 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 11 | 4.51 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 14 | 4.51 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 14 | 4.51 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 14 | 4.51 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 17 | 4.51 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 17 | 4.51 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 17 | 4.51 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 17 | 4.51 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 17 | 4.51 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 17 | 4.51 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 4.51 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 4.51 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 4.51 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 5 | 4.51 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 5 | 4.51 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 4.51 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 14 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 18 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 18 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 18 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 18 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 18 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 18 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 4.51 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 4.51 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 6 | 4.51 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 6 | 4.51 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 16 | 4.51 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 2 | 4.51 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 2 | 4.51 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 2 | 4.51 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 19 | 4.51 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 19 | 4.51 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 12 | 4.51 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 17 | 4.51 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 17 | 4.51 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 5 | 4.51 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 5 | 4.51 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 5 | 4.51 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 5 | 4.51 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 5 | 4.51 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 5 | 4.51 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 11 | 4.51 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 11 | 4.51 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 11 | 4.51 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 2 | 4.51 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 2 | 4.51 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 6 | 4.51 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 9 | 4.51 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 4 | 4.51 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 4 | 4.51 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 4 | 4.51 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 10 | 4.51 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 10 | 4.51 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 1 | 4.51 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 1 | 4.51 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 1 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 1 | 4.51 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 1 | 4.51 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 1 | 4.51 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 13 | 4.51 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 13 | 4.51 |
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 12 | 4.51 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 12 | 4.51 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 10 | 4.51 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 7 | 4.51 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 2 | 4.51 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 2 | 4.51 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 5 | 4.51 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 4.51 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 5 | 4.51 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 10 | 4.51 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 4.51 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 2 | 4.51 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 8 | 4.51 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 5 | 4.51 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 17 | 4.51 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 17 | 4.51 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 17 | 4.51 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 20 | 4.51 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 1 | 4.51 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 1 | 4.51 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 1 | 4.51 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 1 | 4.51 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 17 | 4.51 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 12 | 4.51 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 2 | 4.51 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 2 | 4.51 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 2 | 4.51 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 7 | 4.51 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 7 | 4.51 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 7 | 4.51 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 7 | 4.51 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 13 | 4.51 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 8 | 4.51 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 5 | 4.51 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 19 | 4.51 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 19 | 4.51 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 4 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 10 | 4.51 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 12 | 4.51 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 19 | 4.51 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 14 | 4.51 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 11 | 4.51 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 4 | 4.51 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 15 | 4.51 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 15 | 4.51 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 18 | 4.51 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 18 | 4.51 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 1 | 4.51 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 1 | 4.51 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 13 | 4.51 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 10 | 4.51 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 11 | 4.51 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 11 | 4.51 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 11 | 4.51 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 11 | 4.51 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 11 | 4.51 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 11 | 4.51 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 11 | 4.51 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 18 | 4.51 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 18 | 4.51 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 18 | 4.51 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 9 | 4.51 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 14 | 4.51 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 15 | 4.51 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 18 | 4.51 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 6 | 4.51 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 2 | 4.51 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 4 | 4.51 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 7 | 4.51 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 18 | 4.51 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 1 | 4.51 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 9 | 4.51 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 9 | 4.51 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 9 | 4.51 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 13 | 4.51 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 7 | 4.51 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 7 | 4.51 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 7 | 4.51 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 17 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 19 | 4.51 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 19 | 4.51 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 19 | 4.51 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 7 | 4.51 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 7 | 4.51 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 7 | 4.51 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 6 | 4.51 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 7 | 4.51 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 19 | 4.51 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 19 | 4.51 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 19 | 4.51 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 1 | 4.51 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 1 | 4.51 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 1 | 4.51 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 2 | 4.51 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 18 | 4.51 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 8 | 4.51 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 8 | 4.51 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 8 | 4.51 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 8 | 4.51 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 8 | 4.51 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 8 | 4.51 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 8 | 4.51 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 17 | 4.51 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 6 | 4.51 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 6 | 4.51 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 1 | 4.51 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 8 | 4.51 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 2 | 4.51 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 2 | 4.51 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 2 | 4.51 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 8 | 4.51 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 16 | 4.51 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 2 | 4.51 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 2 | 4.51 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 4 | 4.51 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 4 | 4.51 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 4 | 4.51 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 8 | 4.51 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 1 | 4.51 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 1 | 4.51 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 1 | 4.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 2 | 4.51 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 15 | 4.51 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 4 | 4.51 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 4 | 4.51 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 4 | 4.51 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 4 | 4.51 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 4 | 4.51 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 4 | 4.51 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 12 | 4.51 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 12 | 4.51 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 12 | 4.51 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 12 | 4.51 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 12 | 4.51 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 12 | 4.51 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 15 | 4.51 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 7 | 4.51 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 14 | 4.51 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 2 | 4.51 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 2 | 4.51 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 2 | 4.51 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 8 | 4.51 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 8 | 4.51 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 8 | 4.51 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 10 | 4.51 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 13 | 4.51 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 5 | 4.51 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 3 | 4.51 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 16 | 4.5 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 16 | 4.5 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 4.5 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 4.5 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 9 | 4.5 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 9 | 4.5 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 9 | 4.5 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 9 | 4.5 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 9 | 4.5 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 9 | 4.5 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 12 | 4.5 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 12 | 4.5 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 12 | 4.5 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 12 | 4.5 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 12 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 12 | 4.5 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 4.5 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 4.5 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 4.5 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 4.5 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 4.5 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 4.5 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 5 | 4.5 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 5 | 4.5 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 8 | 4.5 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 8 | 4.5 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 14 | 4.5 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 14 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 5 | 4.5 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 5 | 4.5 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 13 | 4.5 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 13 | 4.5 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 3 | 4.5 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 3 | 4.5 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 3 | 4.5 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 3 | 4.5 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 3 | 4.5 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 3 | 4.5 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 15 | 4.5 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 15 | 4.5 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 19 | 4.5 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 19 | 4.5 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 3 | 4.5 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 3 | 4.5 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 17 | 4.5 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 17 | 4.5 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 9 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 9 | 4.5 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 9 | 4.5 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 9 | 4.5 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 12 | 4.5 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 12 | 4.5 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 4 | 4.5 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 4 | 4.5 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 8 | 4.5 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 8 | 4.5 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 8 | 4.5 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 8 | 4.5 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 14 | 4.5 |
| (1,9212) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 14 | 4.5 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 14 | 4.5 |
| (1,9212) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 14 | 4.5 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 7 | 4.5 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 7 | 4.5 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 13 | 4.5 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 13 | 4.5 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 5 | 4.5 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 5 | 4.5 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 14 | 4.5 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 14 | 4.5 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 14 | 4.5 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 14 | 4.5 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 14 | 4.5 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 14 | 4.5 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 6 | 4.5 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 6 | 4.5 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 10 | 4.5 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 10 | 4.5 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 10 | 4.5 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 10 | 4.5 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 10 | 4.5 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 10 | 4.5 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 17 | 4.5 |
| (1,9090) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 17 | 4.5 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 7 | 4.5 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 7 | 4.5 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 9 | 4.5 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 9 | 4.5 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 16 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 16 | 4.5 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 13 | 4.5 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 13 | 4.5 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 2 | 4.5 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 2 | 4.5 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 2 | 4.5 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 2 | 4.5 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 6 | 4.5 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 6 | 4.5 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 7 | 4.5 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 7 | 4.5 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 7 | 4.5 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 7 | 4.5 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 7 | 4.5 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 7 | 4.5 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 10 | 4.5 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 10 | 4.5 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 4 | 4.5 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 4 | 4.5 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 9 | 4.5 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 9 | 4.5 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 9 | 4.5 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 9 | 4.5 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 3 | 4.5 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 3 | 4.5 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 8 | 4.5 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 8 | 4.5 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 3 | 4.5 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 3 | 4.5 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 2 | 4.5 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 2 | 4.5 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 2 | 4.5 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 2 | 4.5 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 2 | 4.5 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 2 | 4.5 |
| (1,8636) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 2 | 4.5 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 2 | 4.5 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 2 | 4.5 |
| (1,8636) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 2 | 4.5 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 16 | 4.5 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 16 | 4.5 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 14 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 14 | 4.5 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 11 | 4.5 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 11 | 4.5 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 9 | 4.5 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 4 | 4.5 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 4 | 4.5 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 4 | 4.5 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 4 | 4.5 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 4 | 4.5 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 4 | 4.5 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 4 | 4.5 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 4 | 4.5 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 4 | 4.5 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 7 | 4.5 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 7 | 4.5 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 7 | 4.5 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 7 | 4.5 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 7 | 4.5 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 7 | 4.5 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 7 | 4.5 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 7 | 4.5 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 7 | 4.5 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 2 | 4.5 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 2 | 4.5 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 2 | 4.5 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 2 | 4.5 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 2 | 4.5 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 2 | 4.5 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 2 | 4.5 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 2 | 4.5 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 2 | 4.5 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 2 | 4.5 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 14 | 4.5 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 14 | 4.5 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 18 | 4.5 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 18 | 4.5 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 18 | 4.5 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 13 | 4.5 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 16 | 4.5 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 9 | 4.5 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 9 | 4.5 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 17 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 17 | 4.5 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 17 | 4.5 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 6 | 4.5 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 3 | 4.5 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 10 | 4.5 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 14 | 4.5 |
| (1,8405) | 1:141:A:LEU:HD21 | 1:145:A:GLU:H | 16 | 4.5 |
| (1,8405) | 1:141:A:LEU:HD22 | 1:145:A:GLU:H | 16 | 4.5 |
| (1,8405) | 1:141:A:LEU:HD23 | 1:145:A:GLU:H | 16 | 4.5 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 14 | 4.5 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 14 | 4.5 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 10 | 4.5 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 8 | 4.5 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 9 | 4.5 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 12 | 4.5 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 12 | 4.5 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 12 | 4.5 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 3 | 4.5 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 13 | 4.5 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 17 | 4.5 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 4 | 4.5 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 17 | 4.5 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 17 | 4.5 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 2 | 4.5 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 2 | 4.5 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 17 | 4.5 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 14 | 4.5 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 7 | 4.5 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 7 | 4.5 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 7 | 4.5 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 12 | 4.5 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 12 | 4.5 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 12 | 4.5 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 3 | 4.5 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 3 | 4.5 |
| (1,8140) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HG3 | 18 | 4.5 |
| (1,8140) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HG3 | 18 | 4.5 |
| (1,8140) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HG3 | 18 | 4.5 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 5 | 4.5 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 5 | 4.5 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 5 | 4.5 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 5 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 5 | 4.5 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 5 | 4.5 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 5 | 4.5 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 5 | 4.5 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 5 | 4.5 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 20 | 4.5 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 20 | 4.5 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 20 | 4.5 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 8 | 4.5 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 8 | 4.5 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 2 | 4.5 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 12 | 4.5 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 18 | 4.5 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 18 | 4.5 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 18 | 4.5 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 18 | 4.5 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 10 | 4.5 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 10 | 4.5 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 10 | 4.5 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 12 | 4.5 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 17 | 4.5 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 17 | 4.5 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 17 | 4.5 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 17 | 4.5 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 17 | 4.5 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 17 | 4.5 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 17 | 4.5 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 17 | 4.5 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 17 | 4.5 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 1 | 4.5 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 13 | 4.5 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 18 | 4.5 |
| (1,7931) | 1:71:A:SER:H | 1:78:A:ILE:H | 19 | 4.5 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 20 | 4.5 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 18 | 4.5 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 18 | 4.5 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 18 | 4.5 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 20 | 4.5 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 20 | 4.5 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 20 | 4.5 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 10 | 4.5 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 15 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 14 | 4.5 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 1 | 4.5 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 1 | 4.5 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 5 | 4.5 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 5 | 4.5 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 16 | 4.5 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 16 | 4.5 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 16 | 4.5 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB1 | 20 | 4.5 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB2 | 20 | 4.5 |
| (1,7711) | 1:52:A:PRO:HB2 | 1:53:A:ALA:HB3 | 20 | 4.5 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 6 | 4.5 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 6 | 4.5 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 13 | 4.5 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 16 | 4.5 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 2 | 4.5 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 2 | 4.5 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 2 | 4.5 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 4 | 4.5 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 9 | 4.5 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 9 | 4.5 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 9 | 4.5 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 9 | 4.5 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 9 | 4.5 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 9 | 4.5 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 9 | 4.5 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 9 | 4.5 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 9 | 4.5 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 14 | 4.5 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 1 | 4.5 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 1 | 4.5 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 2 | 4.5 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 2 | 4.5 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 7 | 4.5 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 10 | 4.5 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 11 | 4.5 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 10 | 4.5 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 9 | 4.5 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 14 | 4.5 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 15 | 4.5 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 12 | 4.5 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 12 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 12 | 4.5 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 12 | 4.5 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 12 | 4.5 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 13 | 4.5 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 10 | 4.5 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 10 | 4.5 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 10 | 4.5 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 10 | 4.5 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 10 | 4.5 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 10 | 4.5 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 10 | 4.5 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 10 | 4.5 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 10 | 4.5 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 9 | 4.5 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 9 | 4.5 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 15 | 4.5 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 15 | 4.5 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 4 | 4.5 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 4 | 4.5 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 4 | 4.5 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 12 | 4.5 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 12 | 4.5 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 12 | 4.5 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 5 | 4.5 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 5 | 4.5 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 5 | 4.5 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 17 | 4.5 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 17 | 4.5 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 17 | 4.5 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 17 | 4.5 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 17 | 4.5 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 17 | 4.5 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 17 | 4.5 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 15 | 4.5 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 6 | 4.5 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 14 | 4.5 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 20 | 4.5 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 18 | 4.5 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 18 | 4.5 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 18 | 4.5 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 2 | 4.5 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 2 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 2 | 4.5 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 11 | 4.5 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 11 | 4.5 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 11 | 4.5 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 12 | 4.5 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 8 | 4.5 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 8 | 4.5 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 8 | 4.5 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 8 | 4.5 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 14 | 4.5 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 3 | 4.5 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 1 | 4.5 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 20 | 4.5 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 16 | 4.5 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 16 | 4.5 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 16 | 4.5 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 4 | 4.5 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 6 | 4.5 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 19 | 4.5 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 3 | 4.5 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 6 | 4.5 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 1 | 4.5 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 2 | 4.5 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 2 | 4.5 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 2 | 4.5 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 4 | 4.5 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 4 | 4.5 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 4 | 4.5 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 14 | 4.5 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 14 | 4.5 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 14 | 4.5 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 16 | 4.5 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 16 | 4.5 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 16 | 4.5 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 5 | 4.5 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 5 | 4.5 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 5 | 4.5 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 16 | 4.5 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 6 | 4.5 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 13 | 4.5 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 7 | 4.5 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 1 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 1 | 4.5 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 1 | 4.5 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 1 | 4.5 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 12 | 4.5 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 7 | 4.5 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 3 | 4.5 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 3 | 4.5 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 3 | 4.5 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 5 | 4.5 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 19 | 4.5 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 12 | 4.5 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 12 | 4.5 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 12 | 4.5 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 13 | 4.5 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 13 | 4.5 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 13 | 4.5 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 7 | 4.5 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 7 | 4.5 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 7 | 4.5 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 11 | 4.5 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 11 | 4.5 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 11 | 4.5 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 11 | 4.5 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 11 | 4.5 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 11 | 4.5 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 8 | 4.5 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 8 | 4.5 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 8 | 4.5 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 15 | 4.5 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 16 | 4.5 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 16 | 4.5 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 16 | 4.5 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 15 | 4.5 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 15 | 4.5 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 15 | 4.5 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 5 | 4.5 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 19 | 4.5 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 19 | 4.5 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 19 | 4.5 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 2 | 4.5 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 12 | 4.5 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 12 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 12 | 4.5 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 2 | 4.5 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 2 | 4.5 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 2 | 4.5 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 12 | 4.5 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 12 | 4.5 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 12 | 4.5 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 10 | 4.5 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 1 | 4.5 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 4 | 4.5 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 4 | 4.5 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 1 | 4.5 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 2 | 4.5 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 2 | 4.5 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 2 | 4.5 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 6 | 4.5 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 6 | 4.5 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 6 | 4.5 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 6 | 4.5 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 6 | 4.5 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 6 | 4.5 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 10 | 4.5 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 18 | 4.5 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 5 | 4.5 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 20 | 4.5 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 18 | 4.5 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 3 | 4.5 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 20 | 4.5 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 20 | 4.5 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 20 | 4.5 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 6 | 4.5 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 9 | 4.5 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 6 | 4.5 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 9 | 4.5 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 9 | 4.5 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 12 | 4.5 |
| (1,4647) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 7 | 4.5 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 1 | 4.5 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 1 | 4.5 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 8 | 4.5 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 8 | 4.5 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 4.5 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 14 | 4.5 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 9 | 4.5 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 9 | 4.5 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 9 | 4.5 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 9 | 4.5 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 9 | 4.5 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 9 | 4.5 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 12 | 4.5 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 12 | 4.5 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 12 | 4.5 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 12 | 4.5 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 12 | 4.5 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 12 | 4.5 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 4.5 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 4.5 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 4.5 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 4.5 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 4.5 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 4.5 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 5 | 4.5 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 5 | 4.5 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 3 | 4.5 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 3 | 4.5 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 3 | 4.5 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 3 | 4.5 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 5 | 4.5 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 5 | 4.5 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 5 | 4.5 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 5 | 4.5 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 12 | 4.5 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 12 | 4.5 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 1 | 4.5 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 1 | 4.5 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 8 | 4.5 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 8 | 4.5 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 8 | 4.5 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 8 | 4.5 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 9 | 4.5 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 9 | 4.5 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 4.5 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 7 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 7 | 4.5 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 2 | 4.5 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 2 | 4.5 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 2 | 4.5 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 2 | 4.5 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 2 | 4.5 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 2 | 4.5 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 14 | 4.5 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 14 | 4.5 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 14 | 4.5 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 14 | 4.5 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 14 | 4.5 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 14 | 4.5 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 18 | 4.5 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 15 | 4.5 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 15 | 4.5 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 15 | 4.5 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 19 | 4.5 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 17 | 4.5 |
| (1,4066) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 17 | 4.5 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 9 | 4.5 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 7 | 4.5 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 7 | 4.5 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 3 | 4.5 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 3 | 4.5 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 3 | 4.5 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 4 | 4.5 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 4 | 4.5 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 4 | 4.5 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 5 | 4.5 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 15 | 4.5 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 16 | 4.5 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 16 | 4.5 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 16 | 4.5 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 10 | 4.5 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 10 | 4.5 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 4 | 4.5 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 4 | 4.5 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 5 | 4.5 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 5 | 4.5 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 5 | 4.5 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 5 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 8 | 4.5 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 8 | 4.5 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 3 | 4.5 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 3 | 4.5 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 2 | 4.5 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 2 | 4.5 |
| (1,3594) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 2 | 4.5 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 2 | 4.5 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 2 | 4.5 |
| (1,3594) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 2 | 4.5 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 9 | 4.5 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 9 | 4.5 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 9 | 4.5 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 4 | 4.5 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 20 | 4.5 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 4.5 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 11 | 4.5 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 11 | 4.5 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 10 | 4.5 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 18 | 4.5 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 13 | 4.5 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 18 | 4.5 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 10 | 4.5 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 10 | 4.5 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 10 | 4.5 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 10 | 4.5 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 10 | 4.5 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 10 | 4.5 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 10 | 4.5 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 10 | 4.5 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 10 | 4.5 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 10 | 4.5 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 6 | 4.5 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 16 | 4.5 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 9 | 4.5 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 9 | 4.5 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 15 | 4.5 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 15 | 4.5 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 12 | 4.5 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 4 | 4.5 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 4 | 4.5 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 4 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 12 | 4.5 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 8 | 4.5 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 8 | 4.5 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 8 | 4.5 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 12 | 4.5 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 12 | 4.5 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 12 | 4.5 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 5 | 4.5 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 5 | 4.5 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 5 | 4.5 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 10 | 4.5 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 17 | 4.5 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 17 | 4.5 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 17 | 4.5 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 17 | 4.5 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 17 | 4.5 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 17 | 4.5 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 17 | 4.5 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 15 | 4.5 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 6 | 4.5 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 14 | 4.5 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 20 | 4.5 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 18 | 4.5 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 18 | 4.5 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 18 | 4.5 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 2 | 4.5 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 2 | 4.5 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 2 | 4.5 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 11 | 4.5 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 11 | 4.5 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 11 | 4.5 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 12 | 4.5 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 8 | 4.5 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 8 | 4.5 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 8 | 4.5 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 8 | 4.5 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 14 | 4.5 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 3 | 4.5 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 1 | 4.5 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 20 | 4.5 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 7 | 4.5 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 7 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 7 | 4.5 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 16 | 4.5 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 6 | 4.5 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 6 | 4.5 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 6 | 4.5 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 16 | 4.5 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 16 | 4.5 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 4 | 4.5 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 6 | 4.5 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 19 | 4.5 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 3 | 4.5 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 14 | 4.5 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 8 | 4.5 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 7 | 4.5 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 7 | 4.5 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 7 | 4.5 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 13 | 4.5 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 13 | 4.5 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 13 | 4.5 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 6 | 4.5 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 5 | 4.5 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 1 | 4.5 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 2 | 4.5 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 2 | 4.5 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 2 | 4.5 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 13 | 4.5 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 13 | 4.5 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 17 | 4.5 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 17 | 4.5 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 4 | 4.5 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 4 | 4.5 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 4 | 4.5 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 14 | 4.5 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 14 | 4.5 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 14 | 4.5 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 18 | 4.5 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 18 | 4.5 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 18 | 4.5 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 18 | 4.5 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 16 | 4.5 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 16 | 4.5 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 16 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 5 | 4.5 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 5 | 4.5 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 5 | 4.5 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 16 | 4.5 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 6 | 4.5 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 13 | 4.5 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 7 | 4.5 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 1 | 4.5 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 1 | 4.5 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 1 | 4.5 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 1 | 4.5 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 7 | 4.5 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 12 | 4.5 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 3 | 4.5 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 3 | 4.5 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 3 | 4.5 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 5 | 4.5 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 11 | 4.5 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 11 | 4.5 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 11 | 4.5 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 11 | 4.5 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 11 | 4.5 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 11 | 4.5 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 19 | 4.5 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 8 | 4.5 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 8 | 4.5 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 8 | 4.5 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 12 | 4.5 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 12 | 4.5 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 12 | 4.5 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 12 | 4.5 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 12 | 4.5 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 12 | 4.5 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 13 | 4.5 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 13 | 4.5 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 13 | 4.5 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 7 | 4.5 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 7 | 4.5 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 7 | 4.5 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 11 | 4.5 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 11 | 4.5 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 11 | 4.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 11 | 4.5 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 11 | 4.5 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 11 | 4.5 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 13 | 4.5 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 13 | 4.5 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 13 | 4.5 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 9 | 4.5 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 16 | 4.49 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 5 | 4.49 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 20 | 4.49 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 20 | 4.49 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 13 | 4.49 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 13 | 4.49 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 7 | 4.49 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 7 | 4.49 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 7 | 4.49 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 7 | 4.49 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 7 | 4.49 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 7 | 4.49 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 7 | 4.49 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 7 | 4.49 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 9 | 4.49 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 9 | 4.49 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 2 | 4.49 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 2 | 4.49 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 11 | 4.49 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 11 | 4.49 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 8 | 4.49 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 8 | 4.49 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 3 | 4.49 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 3 | 4.49 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 19 | 4.49 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 19 | 4.49 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 18 | 4.49 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 18 | 4.49 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 15 | 4.49 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 15 | 4.49 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 15 | 4.49 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 15 | 4.49 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 15 | 4.49 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 15 | 4.49 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 16 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 16 | 4.49 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 16 | 4.49 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 16 | 4.49 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 16 | 4.49 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 16 | 4.49 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 5 | 4.49 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 5 | 4.49 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 19 | 4.49 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 19 | 4.49 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 16 | 4.49 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 16 | 4.49 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 8 | 4.49 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 8 | 4.49 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 6 | 4.49 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 6 | 4.49 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 6 | 4.49 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 6 | 4.49 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 6 | 4.49 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 6 | 4.49 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 14 | 4.49 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 14 | 4.49 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 10 | 4.49 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 10 | 4.49 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 8 | 4.49 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 8 | 4.49 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 13 | 4.49 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 13 | 4.49 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 13 | 4.49 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 13 | 4.49 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 13 | 4.49 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 13 | 4.49 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 12 | 4.49 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 12 | 4.49 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 1 | 4.49 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 1 | 4.49 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 4 | 4.49 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 4 | 4.49 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 14 | 4.49 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 14 | 4.49 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 14 | 4.49 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 14 | 4.49 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 6 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 6 | 4.49 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 14 | 4.49 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 14 | 4.49 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 7 | 4.49 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 7 | 4.49 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 16 | 4.49 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 16 | 4.49 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 10 | 4.49 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 10 | 4.49 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 10 | 4.49 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 10 | 4.49 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 7 | 4.49 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 7 | 4.49 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 4 | 4.49 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 4 | 4.49 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 19 | 4.49 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 19 | 4.49 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 11 | 4.49 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 11 | 4.49 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 9 | 4.49 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 9 | 4.49 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 9 | 4.49 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 9 | 4.49 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 9 | 4.49 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 9 | 4.49 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 10 | 4.49 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 10 | 4.49 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 7 | 4.49 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 7 | 4.49 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 1 | 4.49 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 1 | 4.49 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 1 | 4.49 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 1 | 4.49 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 6 | 4.49 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 6 | 4.49 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 13 | 4.49 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 20 | 4.49 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 10 | 4.49 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 10 | 4.49 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 1 | 4.49 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 17 | 4.49 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 1 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 1 | 4.49 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 1 | 4.49 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 19 | 4.49 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 19 | 4.49 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 19 | 4.49 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 14 | 4.49 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 20 | 4.49 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 10 | 4.49 |
| (1,8290) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 3 | 4.49 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 19 | 4.49 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 19 | 4.49 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 11 | 4.49 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 11 | 4.49 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 20 | 4.49 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 19 | 4.49 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 19 | 4.49 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 19 | 4.49 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 16 | 4.49 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 1 | 4.49 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 1 | 4.49 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 1 | 4.49 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 1 | 4.49 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 1 | 4.49 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 1 | 4.49 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 1 | 4.49 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 1 | 4.49 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 1 | 4.49 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 4 | 4.49 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 10 | 4.49 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 1 | 4.49 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 1 | 4.49 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 17 | 4.49 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 17 | 4.49 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 12 | 4.49 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 12 | 4.49 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 10 | 4.49 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 10 | 4.49 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 10 | 4.49 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 12 | 4.49 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 12 | 4.49 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 12 | 4.49 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 1 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 1 | 4.49 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 1 | 4.49 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 1 | 4.49 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 1 | 4.49 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 1 | 4.49 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 1 | 4.49 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 1 | 4.49 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 1 | 4.49 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 16 | 4.49 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 16 | 4.49 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 19 | 4.49 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 2 | 4.49 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 15 | 4.49 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 6 | 4.49 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 6 | 4.49 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 8 | 4.49 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 19 | 4.49 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 4 | 4.49 |
| (1,7957) | 1:75:A:GLN:HA | 1:76:A:GLU:HA | 5 | 4.49 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 2 | 4.49 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 20 | 4.49 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 20 | 4.49 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 20 | 4.49 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 3 | 4.49 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 16 | 4.49 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 5 | 4.49 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 5 | 4.49 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 5 | 4.49 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 5 | 4.49 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 5 | 4.49 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 13 | 4.49 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 5 | 4.49 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 5 | 4.49 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 5 | 4.49 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 5 | 4.49 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 5 | 4.49 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 5 | 4.49 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 5 | 4.49 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 5 | 4.49 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 5 | 4.49 |
| (1,7839) | 1:61:A:LEU:HD11 | 1:64:A:HIS:H | 15 | 4.49 |
| (1,7839) | 1:61:A:LEU:HD12 | 1:64:A:HIS:H | 15 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7839) | 1:61:A:LEU:HD13 | 1:64:A:HIS:H | 15 | 4.49 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 13 | 4.49 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 13 | 4.49 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 13 | 4.49 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 16 | 4.49 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 4 | 4.49 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 4 | 4.49 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 4 | 4.49 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 4 | 4.49 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 16 | 4.49 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 3 | 4.49 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 16 | 4.49 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 17 | 4.49 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 16 | 4.49 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 7 | 4.49 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 7 | 4.49 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 13 | 4.49 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 10 | 4.49 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 12 | 4.49 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 17 | 4.49 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 19 | 4.49 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 7 | 4.49 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 10 | 4.49 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 5 | 4.49 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 8 | 4.49 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 16 | 4.49 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 16 | 4.49 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 19 | 4.49 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 19 | 4.49 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 4 | 4.49 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 4 | 4.49 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 4 | 4.49 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 14 | 4.49 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 11 | 4.49 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 14 | 4.49 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 14 | 4.49 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 14 | 4.49 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 4 | 4.49 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 12 | 4.49 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 12 | 4.49 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 19 | 4.49 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 19 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 19 | 4.49 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 10 | 4.49 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 10 | 4.49 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 10 | 4.49 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 10 | 4.49 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 10 | 4.49 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 10 | 4.49 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 2 | 4.49 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 2 | 4.49 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 3 | 4.49 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 15 | 4.49 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 15 | 4.49 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 20 | 4.49 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 20 | 4.49 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 9 | 4.49 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 16 | 4.49 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 15 | 4.49 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 18 | 4.49 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 18 | 4.49 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 4 | 4.49 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 5 | 4.49 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 10 | 4.49 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 10 | 4.49 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 5 | 4.49 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 5 | 4.49 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 5 | 4.49 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 10 | 4.49 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 11 | 4.49 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 4.49 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 12 | 4.49 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 5 | 4.49 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 9 | 4.49 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 8 | 4.49 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 17 | 4.49 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 17 | 4.49 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 17 | 4.49 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 18 | 4.49 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 2 | 4.49 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 2 | 4.49 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 2 | 4.49 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 2 | 4.49 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 2 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 2 | 4.49 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 2 | 4.49 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 11 | 4.49 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 11 | 4.49 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 5 | 4.49 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 13 | 4.49 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 13 | 4.49 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 13 | 4.49 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 13 | 4.49 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 13 | 4.49 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 13 | 4.49 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 12 | 4.49 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 11 | 4.49 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 16 | 4.49 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 6 | 4.49 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 15 | 4.49 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 2 | 4.49 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 16 | 4.49 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 3 | 4.49 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 3 | 4.49 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 3 | 4.49 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 9 | 4.49 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 9 | 4.49 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 9 | 4.49 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 18 | 4.49 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 8 | 4.49 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 8 | 4.49 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 8 | 4.49 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 14 | 4.49 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 14 | 4.49 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 14 | 4.49 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 11 | 4.49 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 17 | 4.49 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 17 | 4.49 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 17 | 4.49 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 5 | 4.49 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 9 | 4.49 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 5 | 4.49 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 5 | 4.49 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 5 | 4.49 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 5 | 4.49 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 5 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 5 | 4.49 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 10 | 4.49 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 10 | 4.49 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 10 | 4.49 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 2 | 4.49 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 2 | 4.49 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 2 | 4.49 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 9 | 4.49 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 7 | 4.49 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 3 | 4.49 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 3 | 4.49 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 3 | 4.49 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 17 | 4.49 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 8 | 4.49 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 8 | 4.49 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 8 | 4.49 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 8 | 4.49 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 8 | 4.49 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 8 | 4.49 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 19 | 4.49 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 19 | 4.49 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 19 | 4.49 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 10 | 4.49 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 10 | 4.49 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 10 | 4.49 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 3 | 4.49 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 3 | 4.49 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 3 | 4.49 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 1 | 4.49 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 1 | 4.49 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 1 | 4.49 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 20 | 4.49 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 1 | 4.49 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 12 | 4.49 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 17 | 4.49 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 6 | 4.49 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 6 | 4.49 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 6 | 4.49 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 6 | 4.49 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 6 | 4.49 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 6 | 4.49 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 20 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 13 | 4.49 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 13 | 4.49 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 18 | 4.49 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 5 | 4.49 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 3 | 4.49 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 3 | 4.49 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 3 | 4.49 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 18 | 4.49 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 18 | 4.49 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 18 | 4.49 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 9 | 4.49 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 13 | 4.49 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 12 | 4.49 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 3 | 4.49 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 3 | 4.49 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 3 | 4.49 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 2 | 4.49 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 14 | 4.49 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 16 | 4.49 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 5 | 4.49 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 5 | 4.49 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 10 | 4.49 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 13 | 4.49 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 11 | 4.49 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 11 | 4.49 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 11 | 4.49 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 11 | 4.49 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 11 | 4.49 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 11 | 4.49 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 19 | 4.49 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 15 | 4.49 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 15 | 4.49 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 15 | 4.49 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 4 | 4.49 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 4 | 4.49 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 4 | 4.49 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 4 | 4.49 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 4 | 4.49 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 4 | 4.49 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 1 | 4.49 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 13 | 4.49 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 13 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 17 | 4.49 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 7 | 4.49 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 7 | 4.49 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 7 | 4.49 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 7 | 4.49 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 18 | 4.49 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 18 | 4.49 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 2 | 4.49 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 2 | 4.49 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 11 | 4.49 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 11 | 4.49 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 4 | 4.49 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 4 | 4.49 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 4 | 4.49 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 10 | 4.49 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 10 | 4.49 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 10 | 4.49 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 19 | 4.49 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 19 | 4.49 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 18 | 4.49 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 18 | 4.49 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 15 | 4.49 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 15 | 4.49 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 15 | 4.49 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 15 | 4.49 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 15 | 4.49 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 15 | 4.49 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 6 | 4.49 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 19 | 4.49 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 19 | 4.49 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 17 | 4.49 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 6 | 4.49 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 6 | 4.49 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 6 | 4.49 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 6 | 4.49 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 6 | 4.49 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 6 | 4.49 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 14 | 4.49 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 14 | 4.49 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 17 | 4.49 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 17 | 4.49 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 17 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 17 | 4.49 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 13 | 4.49 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 13 | 4.49 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 13 | 4.49 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 13 | 4.49 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 13 | 4.49 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 13 | 4.49 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 17 | 4.49 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 10 | 4.49 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 10 | 4.49 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 10 | 4.49 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 6 | 4.49 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 6 | 4.49 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 1 | 4.49 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 14 | 4.49 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 14 | 4.49 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 15 | 4.49 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 8 | 4.49 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 6 | 4.49 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 5 | 4.49 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 5 | 4.49 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 5 | 4.49 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 5 | 4.49 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 7 | 4.49 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 7 | 4.49 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 16 | 4.49 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 16 | 4.49 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 16 | 4.49 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 16 | 4.49 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 16 | 4.49 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 16 | 4.49 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 13 | 4.49 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 11 | 4.49 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 19 | 4.49 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 19 | 4.49 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 19 | 4.49 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 19 | 4.49 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 2 | 4.49 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 2 | 4.49 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 2 | 4.49 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 2 | 4.49 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 19 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 19 | 4.49 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 9 | 4.49 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 9 | 4.49 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 9 | 4.49 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 9 | 4.49 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 9 | 4.49 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 9 | 4.49 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 1 | 4.49 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 10 | 4.49 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 18 | 4.49 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 16 | 4.49 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 16 | 4.49 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 16 | 4.49 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 16 | 4.49 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 16 | 4.49 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 16 | 4.49 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 15 | 4.49 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 1 | 4.49 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 1 | 4.49 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 1 | 4.49 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 18 | 4.49 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 18 | 4.49 |
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 19 | 4.49 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 19 | 4.49 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 19 | 4.49 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 4 | 4.49 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 5 | 4.49 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 10 | 4.49 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 10 | 4.49 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 5 | 4.49 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 5 | 4.49 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 5 | 4.49 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 10 | 4.49 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 11 | 4.49 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 4.49 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 12 | 4.49 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 5 | 4.49 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 9 | 4.49 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 4 | 4.49 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 4 | 4.49 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 1 | 4.49 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 11 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 8 | 4.49 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 19 | 4.49 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 17 | 4.49 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 17 | 4.49 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 17 | 4.49 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 18 | 4.49 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 2 | 4.49 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 2 | 4.49 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 2 | 4.49 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 11 | 4.49 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 11 | 4.49 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 5 | 4.49 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 12 | 4.49 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 11 | 4.49 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 4 | 4.49 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 16 | 4.49 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 6 | 4.49 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 15 | 4.49 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 2 | 4.49 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 16 | 4.49 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 17 | 4.49 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 3 | 4.49 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 3 | 4.49 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 3 | 4.49 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 9 | 4.49 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 9 | 4.49 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 9 | 4.49 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 18 | 4.49 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 8 | 4.49 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 8 | 4.49 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 8 | 4.49 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 6 | 4.49 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 14 | 4.49 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 14 | 4.49 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 14 | 4.49 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 11 | 4.49 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 17 | 4.49 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 17 | 4.49 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 17 | 4.49 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 5 | 4.49 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 9 | 4.49 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 5 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 5 | 4.49 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 5 | 4.49 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 5 | 4.49 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 5 | 4.49 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 5 | 4.49 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 6 | 4.49 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 17 | 4.49 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 10 | 4.49 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 10 | 4.49 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 10 | 4.49 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 1 | 4.49 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 1 | 4.49 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 1 | 4.49 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 2 | 4.49 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 2 | 4.49 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 2 | 4.49 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 3 | 4.49 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 9 | 4.49 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 7 | 4.49 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 3 | 4.49 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 3 | 4.49 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 3 | 4.49 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 20 | 4.49 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 17 | 4.49 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 2 | 4.49 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 9 | 4.49 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 6 | 4.49 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 6 | 4.49 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 20 | 4.49 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 8 | 4.49 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 8 | 4.49 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 8 | 4.49 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 8 | 4.49 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 8 | 4.49 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 8 | 4.49 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 8 | 4.49 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 8 | 4.49 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 8 | 4.49 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 19 | 4.49 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 19 | 4.49 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 19 | 4.49 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 19 | 4.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 19 | 4.49 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 10 | 4.49 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 19 | 4.49 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 10 | 4.49 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 10 | 4.49 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 10 | 4.49 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 3 | 4.49 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 3 | 4.49 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 3 | 4.49 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 1 | 4.49 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 1 | 4.49 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 1 | 4.49 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 20 | 4.49 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 1 | 4.49 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 12 | 4.49 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 17 | 4.49 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 6 | 4.49 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 6 | 4.49 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 6 | 4.49 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 6 | 4.49 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 6 | 4.49 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 6 | 4.49 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 13 | 4.49 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 13 | 4.49 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 13 | 4.49 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 20 | 4.49 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 13 | 4.49 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 13 | 4.49 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 6 | 4.49 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 18 | 4.49 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 9 | 4.49 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 13 | 4.49 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 5 | 4.49 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 3 | 4.49 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 3 | 4.49 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 3 | 4.49 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 2 | 4.49 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 7 | 4.48 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 8 | 4.48 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 15 | 4.48 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 5 | 4.48 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 12 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 12 | 4.48 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 14 | 4.48 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 14 | 4.48 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 12 | 4.48 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 12 | 4.48 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 5 | 4.48 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 5 | 4.48 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 16 | 4.48 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 16 | 4.48 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 6 | 4.48 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 6 | 4.48 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 11 | 4.48 |
| (1,9310) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 11 | 4.48 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 8 | 4.48 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 8 | 4.48 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 1 | 4.48 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 1 | 4.48 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 1 | 4.48 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 1 | 4.48 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 1 | 4.48 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 1 | 4.48 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 8 | 4.48 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 8 | 4.48 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 17 | 4.48 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 17 | 4.48 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 17 | 4.48 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 17 | 4.48 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 8 | 4.48 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 8 | 4.48 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 18 | 4.48 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 18 | 4.48 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 12 | 4.48 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 12 | 4.48 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 12 | 4.48 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 12 | 4.48 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 12 | 4.48 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 12 | 4.48 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 16 | 4.48 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 16 | 4.48 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 16 | 4.48 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 16 | 4.48 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 20 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 20 | 4.48 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 12 | 4.48 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 12 | 4.48 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 4.48 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 20 | 4.48 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 4.48 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 20 | 4.48 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 4.48 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 20 | 4.48 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 9 | 4.48 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 9 | 4.48 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 9 | 4.48 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 9 | 4.48 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 9 | 4.48 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 9 | 4.48 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 16 | 4.48 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 16 | 4.48 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 16 | 4.48 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 16 | 4.48 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 16 | 4.48 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 16 | 4.48 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 20 | 4.48 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 20 | 4.48 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 4 | 4.48 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 4 | 4.48 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 13 | 4.48 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 13 | 4.48 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 4 | 4.48 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 4 | 4.48 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 4 | 4.48 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 4 | 4.48 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 4 | 4.48 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 4 | 4.48 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 16 | 4.48 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 16 | 4.48 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 16 | 4.48 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 16 | 4.48 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 16 | 4.48 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 16 | 4.48 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 16 | 4.48 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 16 | 4.48 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 1 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 1 | 4.48 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 19 | 4.48 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 19 | 4.48 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 19 | 4.48 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 19 | 4.48 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 19 | 4.48 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 19 | 4.48 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 17 | 4.48 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 17 | 4.48 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 2 | 4.48 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 2 | 4.48 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 11 | 4.48 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 11 | 4.48 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 3 | 4.48 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 3 | 4.48 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 3 | 4.48 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 3 | 4.48 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 10 | 4.48 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 10 | 4.48 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 7 | 4.48 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 7 | 4.48 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 15 | 4.48 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 15 | 4.48 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 8 | 4.48 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 8 | 4.48 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 8 | 4.48 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 8 | 4.48 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 8 | 4.48 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 8 | 4.48 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 6 | 4.48 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 6 | 4.48 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 2 | 4.48 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 2 | 4.48 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 2 | 4.48 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 2 | 4.48 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 2 | 4.48 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 2 | 4.48 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 1 | 4.48 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 4 | 4.48 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 8 | 4.48 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 7 | 4.48 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 7 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 17 | 4.48 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 17 | 4.48 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 17 | 4.48 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 5 | 4.48 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 8 | 4.48 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 20 | 4.48 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 5 | 4.48 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 5 | 4.48 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 5 | 4.48 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 17 | 4.48 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 13 | 4.48 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 3 | 4.48 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 15 | 4.48 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 15 | 4.48 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 15 | 4.48 |
| (1,8344) | 1:133:A:PRO:HD2 | 1:135:A:GLU:H | 7 | 4.48 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 13 | 4.48 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 13 | 4.48 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 8 | 4.48 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 8 | 4.48 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 11 | 4.48 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 7 | 4.48 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 11 | 4.48 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 8 | 4.48 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 10 | 4.48 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 10 | 4.48 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 17 | 4.48 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 19 | 4.48 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 1 | 4.48 |
| (1,8218) | 1:108:A:SER:HA | 1:109:A:GLN:HA | 20 | 4.48 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 19 | 4.48 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 19 | 4.48 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 6 | 4.48 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 6 | 4.48 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 6 | 4.48 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 6 | 4.48 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 6 | 4.48 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 6 | 4.48 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 6 | 4.48 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 6 | 4.48 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 6 | 4.48 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 19 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 19 | 4.48 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 19 | 4.48 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 2 | 4.48 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 2 | 4.48 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 2 | 4.48 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 2 | 4.48 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 2 | 4.48 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 1 | 4.48 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 3 | 4.48 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 3 | 4.48 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 3 | 4.48 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 16 | 4.48 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 16 | 4.48 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 16 | 4.48 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 12 | 4.48 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 5 | 4.48 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 18 | 4.48 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 12 | 4.48 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 12 | 4.48 |
| (1,7990) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 12 | 4.48 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 16 | 4.48 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 20 | 4.48 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 17 | 4.48 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 19 | 4.48 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 19 | 4.48 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 19 | 4.48 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 15 | 4.48 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 15 | 4.48 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 15 | 4.48 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 20 | 4.48 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 11 | 4.48 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 11 | 4.48 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 11 | 4.48 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 3 | 4.48 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 3 | 4.48 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 3 | 4.48 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 6 | 4.48 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 6 | 4.48 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 6 | 4.48 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 6 | 4.48 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 1 | 4.48 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 10 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 7 | 4.48 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 7 | 4.48 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 7 | 4.48 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 16 | 4.48 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 13 | 4.48 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 15 | 4.48 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 13 | 4.48 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 4 | 4.48 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 4 | 4.48 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 3 | 4.48 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 3 | 4.48 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 5 | 4.48 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 5 | 4.48 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 17 | 4.48 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 17 | 4.48 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 1 | 4.48 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 16 | 4.48 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 15 | 4.48 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 15 | 4.48 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 15 | 4.48 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 3 | 4.48 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 3 | 4.48 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 11 | 4.48 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 16 | 4.48 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 17 | 4.48 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 19 | 4.48 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 14 | 4.48 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 14 | 4.48 |
| (1,7367) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 14 | 4.48 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 14 | 4.48 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 14 | 4.48 |
| (1,7367) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 14 | 4.48 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 16 | 4.48 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 16 | 4.48 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 1 | 4.48 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 1 | 4.48 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 1 | 4.48 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 1 | 4.48 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 6 | 4.48 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 6 | 4.48 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 17 | 4.48 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 17 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 18 | 4.48 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 10 | 4.48 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 3 | 4.48 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 11 | 4.48 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 7 | 4.48 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 13 | 4.48 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 8 | 4.48 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 8 | 4.48 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 2 | 4.48 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 2 | 4.48 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 4 | 4.48 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 10 | 4.48 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 18 | 4.48 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 13 | 4.48 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 6 | 4.48 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 6 | 4.48 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 6 | 4.48 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 19 | 4.48 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 19 | 4.48 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 19 | 4.48 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 2 | 4.48 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 2 | 4.48 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 11 | 4.48 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 11 | 4.48 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 5 | 4.48 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 19 | 4.48 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 17 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 9 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 9 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 9 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 9 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 9 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 9 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 10 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 10 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 10 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 10 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 10 | 4.48 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 10 | 4.48 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 12 | 4.48 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 18 | 4.48 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 15 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 19 | 4.48 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 20 | 4.48 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 20 | 4.48 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 20 | 4.48 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 20 | 4.48 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 20 | 4.48 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 20 | 4.48 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 5 | 4.48 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 5 | 4.48 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 5 | 4.48 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 18 | 4.48 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 18 | 4.48 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 18 | 4.48 |
| (1,6275) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 11 | 4.48 |
| (1,6275) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 11 | 4.48 |
| (1,6275) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 11 | 4.48 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 4 | 4.48 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 4 | 4.48 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 4 | 4.48 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 5 | 4.48 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 15 | 4.48 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 12 | 4.48 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 12 | 4.48 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 12 | 4.48 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 8 | 4.48 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 8 | 4.48 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 19 | 4.48 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 19 | 4.48 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 10 | 4.48 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 19 | 4.48 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 2 | 4.48 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 2 | 4.48 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 2 | 4.48 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 7 | 4.48 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 11 | 4.48 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 5 | 4.48 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 6 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 10 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 10 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 17 | 4.48 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 17 | 4.48 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 17 | 4.48 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 17 | 4.48 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 17 | 4.48 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 10 | 4.48 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 6 | 4.48 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 6 | 4.48 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 17 | 4.48 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 17 | 4.48 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 11 | 4.48 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 8 | 4.48 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 14 | 4.48 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 14 | 4.48 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 14 | 4.48 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 17 | 4.48 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 17 | 4.48 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 17 | 4.48 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 10 | 4.48 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 10 | 4.48 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 10 | 4.48 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 5 | 4.48 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 5 | 4.48 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 5 | 4.48 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 3 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 3 | 4.48 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 3 | 4.48 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 10 | 4.48 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 10 | 4.48 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 10 | 4.48 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 10 | 4.48 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 10 | 4.48 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 10 | 4.48 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 10 | 4.48 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 10 | 4.48 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 10 | 4.48 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 3 | 4.48 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 9 | 4.48 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 9 | 4.48 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 9 | 4.48 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 3 | 4.48 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 3 | 4.48 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 3 | 4.48 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 3 | 4.48 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 3 | 4.48 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 3 | 4.48 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 14 | 4.48 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 15 | 4.48 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 15 | 4.48 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 15 | 4.48 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 16 | 4.48 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 16 | 4.48 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 16 | 4.48 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 6 | 4.48 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 5 | 4.48 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 5 | 4.48 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 5 | 4.48 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 10 | 4.48 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 10 | 4.48 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 10 | 4.48 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 4.48 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 1 | 4.48 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 16 | 4.48 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 16 | 4.48 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 16 | 4.48 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 10 | 4.48 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 10 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 10 | 4.48 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 17 | 4.48 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 17 | 4.48 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 17 | 4.48 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 2 | 4.48 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 7 | 4.48 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 7 | 4.48 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 7 | 4.48 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 15 | 4.48 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 15 | 4.48 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 17 | 4.48 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 2 | 4.48 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 18 | 4.48 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 18 | 4.48 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 18 | 4.48 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 8 | 4.48 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 11 | 4.48 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 11 | 4.48 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 11 | 4.48 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 8 | 4.48 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 8 | 4.48 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 8 | 4.48 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 4 | 4.48 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 4 | 4.48 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 4 | 4.48 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 6 | 4.48 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 6 | 4.48 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 11 | 4.48 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 15 | 4.48 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 5 | 4.48 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 5 | 4.48 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 5 | 4.48 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 14 | 4.48 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 14 | 4.48 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 18 | 4.48 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 18 | 4.48 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 7 | 4.48 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 7 | 4.48 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 17 | 4.48 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 17 | 4.48 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 16 | 4.48 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 16 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 6 | 4.48 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 6 | 4.48 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 11 | 4.48 |
| (1,4300) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 11 | 4.48 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 8 | 4.48 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 8 | 4.48 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 18 | 4.48 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 18 | 4.48 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 16 | 4.48 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 16 | 4.48 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 16 | 4.48 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 16 | 4.48 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 20 | 4.48 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 20 | 4.48 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 9 | 4.48 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 9 | 4.48 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 9 | 4.48 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 9 | 4.48 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 9 | 4.48 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 9 | 4.48 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 4.48 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 20 | 4.48 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 4.48 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 20 | 4.48 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 4.48 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 20 | 4.48 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 16 | 4.48 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 16 | 4.48 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 16 | 4.48 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 16 | 4.48 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 16 | 4.48 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 16 | 4.48 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 1 | 4.48 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 4.48 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 20 | 4.48 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 13 | 4.48 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 13 | 4.48 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 16 | 4.48 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 16 | 4.48 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 17 | 4.48 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 17 | 4.48 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 17 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 16 | 4.48 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 16 | 4.48 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 16 | 4.48 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 16 | 4.48 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 16 | 4.48 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 16 | 4.48 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 16 | 4.48 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 16 | 4.48 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 9 | 4.48 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 9 | 4.48 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 7 | 4.48 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 7 | 4.48 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 7 | 4.48 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 1 | 4.48 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 1 | 4.48 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 12 | 4.48 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 8 | 4.48 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 11 | 4.48 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 11 | 4.48 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 15 | 4.48 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 15 | 4.48 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 9 | 4.48 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 9 | 4.48 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 9 | 4.48 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 9 | 4.48 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 2 | 4.48 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 2 | 4.48 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 2 | 4.48 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 2 | 4.48 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 2 | 4.48 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 2 | 4.48 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 18 | 4.48 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 10 | 4.48 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 7 | 4.48 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 3 | 4.48 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 5 | 4.48 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 14 | 4.48 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 13 | 4.48 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 11 | 4.48 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 7 | 4.48 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 2 | 4.48 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 13 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 8 | 4.48 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 8 | 4.48 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 2 | 4.48 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 2 | 4.48 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 4 | 4.48 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 10 | 4.48 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 18 | 4.48 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 13 | 4.48 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 6 | 4.48 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 6 | 4.48 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 6 | 4.48 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 19 | 4.48 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 19 | 4.48 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 19 | 4.48 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 2 | 4.48 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 2 | 4.48 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 11 | 4.48 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 11 | 4.48 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 5 | 4.48 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 19 | 4.48 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 10 | 4.48 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 17 | 4.48 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 4 | 4.48 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 7 | 4.48 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 12 | 4.48 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 18 | 4.48 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 18 | 4.48 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 15 | 4.48 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 19 | 4.48 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 15 | 4.48 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 16 | 4.48 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 8 | 4.48 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 8 | 4.48 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 8 | 4.48 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 17 | 4.48 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 11 | 4.48 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 20 | 4.48 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 20 | 4.48 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 20 | 4.48 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 20 | 4.48 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 20 | 4.48 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 20 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 5 | 4.48 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 5 | 4.48 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 5 | 4.48 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 11 | 4.48 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 11 | 4.48 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 11 | 4.48 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 18 | 4.48 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 18 | 4.48 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 18 | 4.48 |
| (1,1942) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 11 | 4.48 |
| (1,1942) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 11 | 4.48 |
| (1,1942) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 11 | 4.48 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 4 | 4.48 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 4 | 4.48 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 4 | 4.48 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 5 | 4.48 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 20 | 4.48 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 20 | 4.48 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 20 | 4.48 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 20 | 4.48 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 13 | 4.48 |
| (1,1796) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 8 | 4.48 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 15 | 4.48 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 12 | 4.48 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 12 | 4.48 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 12 | 4.48 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 8 | 4.48 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 8 | 4.48 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 19 | 4.48 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 19 | 4.48 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 10 | 4.48 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 19 | 4.48 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 2 | 4.48 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 2 | 4.48 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 2 | 4.48 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 7 | 4.48 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 11 | 4.48 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 17 | 4.48 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 17 | 4.48 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 17 | 4.48 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 4.48 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 5 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 16 | 4.48 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 6 | 4.48 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 14 | 4.48 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 14 | 4.48 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 14 | 4.48 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 14 | 4.48 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 14 | 4.48 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 14 | 4.48 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 17 | 4.48 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 17 | 4.48 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 17 | 4.48 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 7 | 4.48 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 14 | 4.48 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 10 | 4.48 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 6 | 4.48 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 6 | 4.48 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 17 | 4.48 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 17 | 4.48 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 11 | 4.48 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 10 | 4.48 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 10 | 4.48 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 10 | 4.48 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 8 | 4.48 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 14 | 4.48 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 14 | 4.48 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 14 | 4.48 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 5 | 4.48 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 5 | 4.48 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 5 | 4.48 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 17 | 4.48 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 17 | 4.48 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 17 | 4.48 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 11 | 4.48 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 11 | 4.48 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 10 | 4.48 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 10 | 4.48 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 10 | 4.48 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 12 | 4.48 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 12 | 4.48 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 12 | 4.48 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 15 | 4.48 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 15 | 4.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 15 | 4.48 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 5 | 4.48 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 5 | 4.48 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 5 | 4.48 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 3 | 4.48 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 3 | 4.48 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 3 | 4.48 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 10 | 4.48 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 10 | 4.48 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 10 | 4.48 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 10 | 4.48 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 10 | 4.48 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 10 | 4.48 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 10 | 4.48 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 10 | 4.48 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 10 | 4.48 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 14 | 4.48 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 3 | 4.48 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 18 | 4.48 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 9 | 4.48 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 9 | 4.48 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 9 | 4.48 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 3 | 4.48 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 3 | 4.48 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 3 | 4.48 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 3 | 4.48 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 3 | 4.48 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 3 | 4.48 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 16 | 4.48 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 16 | 4.48 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 16 | 4.48 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 7 | 4.48 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 4 | 4.47 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 19 | 4.47 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 8 | 4.47 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 8 | 4.47 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 8 | 4.47 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 8 | 4.47 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 5 | 4.47 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 5 | 4.47 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 12 | 4.47 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 12 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 12 | 4.47 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 12 | 4.47 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 13 | 4.47 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 13 | 4.47 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 16 | 4.47 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 16 | 4.47 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 16 | 4.47 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 16 | 4.47 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 16 | 4.47 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 16 | 4.47 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 6 | 4.47 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 6 | 4.47 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 6 | 4.47 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 6 | 4.47 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 9 | 4.47 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 9 | 4.47 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 18 | 4.47 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 18 | 4.47 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 2 | 4.47 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 2 | 4.47 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 2 | 4.47 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 2 | 4.47 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 2 | 4.47 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 2 | 4.47 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 12 | 4.47 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 12 | 4.47 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 18 | 4.47 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 18 | 4.47 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 17 | 4.47 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 17 | 4.47 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 19 | 4.47 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 19 | 4.47 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 19 | 4.47 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 19 | 4.47 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 19 | 4.47 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 19 | 4.47 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 6 | 4.47 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 6 | 4.47 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 14 | 4.47 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 14 | 4.47 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 14 | 4.47 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 14 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 12 | 4.47 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 12 | 4.47 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 18 | 4.47 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 18 | 4.47 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 13 | 4.47 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 13 | 4.47 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 2 | 4.47 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 2 | 4.47 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 2 | 4.47 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 2 | 4.47 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 2 | 4.47 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 2 | 4.47 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 13 | 4.47 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 13 | 4.47 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 2 | 4.47 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 2 | 4.47 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 10 | 4.47 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 10 | 4.47 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 11 | 4.47 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 11 | 4.47 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 11 | 4.47 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 11 | 4.47 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 16 | 4.47 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 16 | 4.47 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 13 | 4.47 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 13 | 4.47 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 13 | 4.47 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 13 | 4.47 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 6 | 4.47 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 6 | 4.47 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 5 | 4.47 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 5 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 18 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 18 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 18 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 18 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 18 | 4.47 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 18 | 4.47 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 12 | 4.47 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 12 | 4.47 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 5 | 4.47 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 5 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 20 | 4.47 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 20 | 4.47 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 1 | 4.47 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 3 | 4.47 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 4 | 4.47 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 4 | 4.47 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 4 | 4.47 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 17 | 4.47 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 17 | 4.47 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 17 | 4.47 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 14 | 4.47 |
| (1,8407) | 1:141:A:LEU:HD21 | 1:148:A:GLY:H | 16 | 4.47 |
| (1,8407) | 1:141:A:LEU:HD22 | 1:148:A:GLY:H | 16 | 4.47 |
| (1,8407) | 1:141:A:LEU:HD23 | 1:148:A:GLY:H | 16 | 4.47 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 19 | 4.47 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 19 | 4.47 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 13 | 4.47 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 13 | 4.47 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 13 | 4.47 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 8 | 4.47 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 8 | 4.47 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 8 | 4.47 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 6 | 4.47 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 17 | 4.47 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 12 | 4.47 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 10 | 4.47 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 7 | 4.47 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 9 | 4.47 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 14 | 4.47 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 14 | 4.47 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 14 | 4.47 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 10 | 4.47 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 10 | 4.47 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 12 | 4.47 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 20 | 4.47 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 20 | 4.47 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 20 | 4.47 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 10 | 4.47 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 10 | 4.47 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 10 | 4.47 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 3 | 4.47 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 10 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 1 | 4.47 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 15 | 4.47 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 15 | 4.47 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 15 | 4.47 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 15 | 4.47 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 15 | 4.47 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 15 | 4.47 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 15 | 4.47 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 15 | 4.47 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 15 | 4.47 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 20 | 4.47 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 20 | 4.47 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 20 | 4.47 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 8 | 4.47 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 8 | 4.47 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 8 | 4.47 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 8 | 4.47 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 8 | 4.47 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 8 | 4.47 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 8 | 4.47 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 8 | 4.47 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 8 | 4.47 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 5 | 4.47 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 5 | 4.47 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 5 | 4.47 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 5 | 4.47 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 5 | 4.47 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 20 | 4.47 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 15 | 4.47 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 8 | 4.47 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 8 | 4.47 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 8 | 4.47 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 2 | 4.47 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 2 | 4.47 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 2 | 4.47 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 2 | 4.47 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 2 | 4.47 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 2 | 4.47 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 2 | 4.47 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 2 | 4.47 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 2 | 4.47 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 13 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 6 | 4.47 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 2 | 4.47 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 2 | 4.47 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 14 | 4.47 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 14 | 4.47 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 20 | 4.47 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 20 | 4.47 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 20 | 4.47 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 12 | 4.47 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 12 | 4.47 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 3 | 4.47 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 3 | 4.47 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 17 | 4.47 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 17 | 4.47 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 17 | 4.47 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 17 | 4.47 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 19 | 4.47 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 4 | 4.47 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 4 | 4.47 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 4 | 4.47 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 10 | 4.47 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 17 | 4.47 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 10 | 4.47 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 6 | 4.47 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 12 | 4.47 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 16 | 4.47 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 16 | 4.47 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 16 | 4.47 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 6 | 4.47 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 6 | 4.47 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 7 | 4.47 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 8 | 4.47 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 14 | 4.47 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 14 | 4.47 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 14 | 4.47 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 14 | 4.47 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 14 | 4.47 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 14 | 4.47 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 2 | 4.47 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 7 | 4.47 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 11 | 4.47 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 13 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 13 | 4.47 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 2 | 4.47 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 2 | 4.47 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 2 | 4.47 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 8 | 4.47 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 1 | 4.47 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 7 | 4.47 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 19 | 4.47 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 5 | 4.47 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 5 | 4.47 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 7 | 4.47 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 7 | 4.47 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 7 | 4.47 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 3 | 4.47 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 15 | 4.47 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 11 | 4.47 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 3 | 4.47 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 15 | 4.47 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 1 | 4.47 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 17 | 4.47 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 17 | 4.47 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 17 | 4.47 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 2 | 4.47 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 2 | 4.47 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 2 | 4.47 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 18 | 4.47 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 18 | 4.47 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 4 | 4.47 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 3 | 4.47 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 10 | 4.47 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 17 | 4.47 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 15 | 4.47 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 3 | 4.47 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 11 | 4.47 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 18 | 4.47 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 16 | 4.47 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 16 | 4.47 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 16 | 4.47 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 8 | 4.47 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 18 | 4.47 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 13 | 4.47 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 13 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 13 | 4.47 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 10 | 4.47 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 8 | 4.47 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 8 | 4.47 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 17 | 4.47 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 17 | 4.47 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 1 | 4.47 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 17 | 4.47 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 9 | 4.47 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 1 | 4.47 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 13 | 4.47 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 13 | 4.47 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 13 | 4.47 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 16 | 4.47 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 3 | 4.47 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 3 | 4.47 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 20 | 4.47 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 20 | 4.47 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 20 | 4.47 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 20 | 4.47 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 20 | 4.47 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 20 | 4.47 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 16 | 4.47 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 16 | 4.47 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 16 | 4.47 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 18 | 4.47 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 18 | 4.47 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 19 | 4.47 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 19 | 4.47 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 19 | 4.47 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 19 | 4.47 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 19 | 4.47 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 19 | 4.47 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 11 | 4.47 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 11 | 4.47 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 11 | 4.47 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 6 | 4.47 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 14 | 4.47 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 14 | 4.47 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 14 | 4.47 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 14 | 4.47 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 14 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 14 | 4.47 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 10 | 4.47 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 10 | 4.47 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 10 | 4.47 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 10 | 4.47 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 2 | 4.47 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 15 | 4.47 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 1 | 4.47 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 18 | 4.47 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 18 | 4.47 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 18 | 4.47 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 5 | 4.47 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 5 | 4.47 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 5 | 4.47 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 6 | 4.47 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 6 | 4.47 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 6 | 4.47 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 20 | 4.47 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 20 | 4.47 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 20 | 4.47 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 7 | 4.47 |
| (1,5258) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 13 | 4.47 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 14 | 4.47 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 13 | 4.47 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 18 | 4.47 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 18 | 4.47 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 18 | 4.47 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 18 | 4.47 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 18 | 4.47 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 18 | 4.47 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 18 | 4.47 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 9 | 4.47 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 9 | 4.47 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 9 | 4.47 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 9 | 4.47 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 9 | 4.47 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 9 | 4.47 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 18 | 4.47 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 7 | 4.47 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 13 | 4.47 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 9 | 4.47 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 9 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 9 | 4.47 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 12 | 4.47 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 5 | 4.47 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 14 | 4.47 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 14 | 4.47 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 14 | 4.47 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 4 | 4.47 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 19 | 4.47 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 7 | 4.47 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 15 | 4.47 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 1 | 4.47 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 1 | 4.47 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 1 | 4.47 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 16 | 4.47 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 7 | 4.47 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 7 | 4.47 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 7 | 4.47 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 10 | 4.47 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 10 | 4.47 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 10 | 4.47 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 13 | 4.47 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 4 | 4.47 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 8 | 4.47 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 8 | 4.47 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 8 | 4.47 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 1 | 4.47 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 1 | 4.47 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 1 | 4.47 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 19 | 4.47 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 9 | 4.47 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 9 | 4.47 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 7 | 4.47 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 7 | 4.47 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 8 | 4.47 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 18 | 4.47 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 18 | 4.47 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 8 | 4.47 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 6 | 4.47 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 11 | 4.47 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 11 | 4.47 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 11 | 4.47 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 11 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 11 | 4.47 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 11 | 4.47 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 6 | 4.47 |
| (1,4064) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 12 | 4.47 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 5 | 4.47 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 5 | 4.47 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 5 | 4.47 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 7 | 4.47 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 7 | 4.47 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 7 | 4.47 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 7 | 4.47 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 7 | 4.47 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 7 | 4.47 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 19 | 4.47 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 19 | 4.47 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 14 | 4.47 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 14 | 4.47 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 4 | 4.47 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 4.47 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 5 | 4.47 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 5 | 4.47 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 5 | 4.47 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 4.47 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 4.47 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 4.47 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 2 | 4.47 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 2 | 4.47 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 2 | 4.47 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 2 | 4.47 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 2 | 4.47 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 2 | 4.47 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 13 | 4.47 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 13 | 4.47 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 15 | 4.47 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 18 | 4.47 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 18 | 4.47 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 18 | 4.47 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 18 | 4.47 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 18 | 4.47 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 18 | 4.47 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 3 | 4.47 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 3 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 3 | 4.47 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 10 | 4.47 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 10 | 4.47 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 10 | 4.47 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 10 | 4.47 |
| (1,3652) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 9 | 4.47 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 5 | 4.47 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 5 | 4.47 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 6 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 18 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 18 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 18 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 18 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 18 | 4.47 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 18 | 4.47 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 2 | 4.47 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 2 | 4.47 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 2 | 4.47 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 8 | 4.47 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 7 | 4.47 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 1 | 4.47 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 7 | 4.47 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 19 | 4.47 |
| (1,3378) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 14 | 4.47 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 16 | 4.47 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 4.47 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 4.47 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 5 | 4.47 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 5 | 4.47 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 1 | 4.47 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 1 | 4.47 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 1 | 4.47 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 11 | 4.47 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 11 | 4.47 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 11 | 4.47 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 7 | 4.47 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 7 | 4.47 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 7 | 4.47 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 3 | 4.47 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 15 | 4.47 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 16 | 4.47 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 16 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 16 | 4.47 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 11 | 4.47 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 6 | 4.47 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 3 | 4.47 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 15 | 4.47 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 1 | 4.47 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 11 | 4.47 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 11 | 4.47 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 16 | 4.47 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 16 | 4.47 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 18 | 4.47 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 17 | 4.47 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 17 | 4.47 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 17 | 4.47 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 2 | 4.47 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 2 | 4.47 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 2 | 4.47 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 18 | 4.47 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 18 | 4.47 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 4 | 4.47 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 6 | 4.47 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 6 | 4.47 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 6 | 4.47 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 3 | 4.47 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 10 | 4.47 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 2 | 4.47 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 17 | 4.47 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 15 | 4.47 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 3 | 4.47 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 11 | 4.47 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 18 | 4.47 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 16 | 4.47 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 16 | 4.47 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 16 | 4.47 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 8 | 4.47 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 4.47 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 5 | 4.47 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 11 | 4.47 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 11 | 4.47 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 18 | 4.47 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 13 | 4.47 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 13 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 13 | 4.47 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 10 | 4.47 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 8 | 4.47 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 8 | 4.47 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 17 | 4.47 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 17 | 4.47 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 1 | 4.47 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 17 | 4.47 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 9 | 4.47 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 1 | 4.47 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 13 | 4.47 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 13 | 4.47 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 13 | 4.47 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 16 | 4.47 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 3 | 4.47 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 3 | 4.47 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 20 | 4.47 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 20 | 4.47 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 20 | 4.47 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 20 | 4.47 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 20 | 4.47 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 20 | 4.47 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 18 | 4.47 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 18 | 4.47 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 18 | 4.47 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 18 | 4.47 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 18 | 4.47 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 4 | 4.47 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 13 | 4.47 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 15 | 4.47 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 19 | 4.47 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 19 | 4.47 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 19 | 4.47 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 19 | 4.47 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 19 | 4.47 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 19 | 4.47 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 10 | 4.47 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 16 | 4.47 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 11 | 4.47 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 11 | 4.47 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 11 | 4.47 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 6 | 4.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 14 | 4.47 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 14 | 4.47 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 14 | 4.47 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 14 | 4.47 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 14 | 4.47 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 14 | 4.47 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 10 | 4.47 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 10 | 4.47 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 10 | 4.47 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 10 | 4.47 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 2 | 4.47 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 1 | 4.47 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 1 | 4.47 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 15 | 4.47 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 1 | 4.47 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 18 | 4.47 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 18 | 4.47 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 18 | 4.47 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 5 | 4.47 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 5 | 4.47 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 5 | 4.47 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 5 | 4.47 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 5 | 4.47 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 5 | 4.47 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 4 | 4.47 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 4 | 4.47 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 4 | 4.47 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 6 | 4.46 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 7 | 4.46 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 4 | 4.46 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 18 | 4.46 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 7 | 4.46 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 7 | 4.46 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 2 | 4.46 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 2 | 4.46 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 12 | 4.46 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 12 | 4.46 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 20 | 4.46 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 20 | 4.46 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 16 | 4.46 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 16 | 4.46 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 12 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 12 | 4.46 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 12 | 4.46 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 12 | 4.46 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 12 | 4.46 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 12 | 4.46 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 18 | 4.46 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 18 | 4.46 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 18 | 4.46 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 18 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 2 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 2 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 2 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 2 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 14 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 14 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 14 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 14 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 15 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 15 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 15 | 4.46 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 15 | 4.46 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 9 | 4.46 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 9 | 4.46 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 9 | 4.46 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 9 | 4.46 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 3 | 4.46 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 3 | 4.46 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 3 | 4.46 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 3 | 4.46 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 3 | 4.46 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 3 | 4.46 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 3 | 4.46 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 3 | 4.46 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 12 | 4.46 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 12 | 4.46 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 5 | 4.46 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 5 | 4.46 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 19 | 4.46 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 19 | 4.46 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 19 | 4.46 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 19 | 4.46 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 19 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 19 | 4.46 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 3 | 4.46 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 3 | 4.46 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 3 | 4.46 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 3 | 4.46 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 3 | 4.46 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 3 | 4.46 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 6 | 4.46 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 6 | 4.46 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 9 | 4.46 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 9 | 4.46 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 9 | 4.46 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 9 | 4.46 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 9 | 4.46 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 9 | 4.46 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 13 | 4.46 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 13 | 4.46 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 13 | 4.46 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 13 | 4.46 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 13 | 4.46 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 13 | 4.46 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 5 | 4.46 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 5 | 4.46 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 6 | 4.46 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 6 | 4.46 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 3 | 4.46 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 3 | 4.46 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 3 | 4.46 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 3 | 4.46 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 14 | 4.46 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 14 | 4.46 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 14 | 4.46 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 14 | 4.46 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 14 | 4.46 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 14 | 4.46 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 8 | 4.46 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 8 | 4.46 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 12 | 4.46 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 12 | 4.46 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 12 | 4.46 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 12 | 4.46 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 8 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 8 | 4.46 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 19 | 4.46 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 19 | 4.46 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 15 | 4.46 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 15 | 4.46 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 15 | 4.46 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 15 | 4.46 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 17 | 4.46 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 17 | 4.46 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 12 | 4.46 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 12 | 4.46 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 12 | 4.46 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 12 | 4.46 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 12 | 4.46 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 12 | 4.46 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 13 | 4.46 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 13 | 4.46 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 2 | 4.46 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 2 | 4.46 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 8 | 4.46 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 9 | 4.46 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 12 | 4.46 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 7 | 4.46 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 8 | 4.46 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 11 | 4.46 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 4 | 4.46 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 12 | 4.46 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 11 | 4.46 |
| (1,8408) | 1:141:A:LEU:HD21 | 1:161:A:ARG:H | 16 | 4.46 |
| (1,8408) | 1:141:A:LEU:HD22 | 1:161:A:ARG:H | 16 | 4.46 |
| (1,8408) | 1:141:A:LEU:HD23 | 1:161:A:ARG:H | 16 | 4.46 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 5 | 4.46 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 5 | 4.46 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 10 | 4.46 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 10 | 4.46 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 3 | 4.46 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 3 | 4.46 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 8 | 4.46 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 8 | 4.46 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 3 | 4.46 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 9 | 4.46 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 9 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 19 | 4.46 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 19 | 4.46 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 16 | 4.46 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 17 | 4.46 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 19 | 4.46 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 20 | 4.46 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 2 | 4.46 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 2 | 4.46 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 17 | 4.46 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 8 | 4.46 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 8 | 4.46 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 8 | 4.46 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 5 | 4.46 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 5 | 4.46 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 5 | 4.46 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 18 | 4.46 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 18 | 4.46 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 15 | 4.46 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 2 | 4.46 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 2 | 4.46 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 2 | 4.46 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 12 | 4.46 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 19 | 4.46 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 19 | 4.46 |
| (1,7981) | 1:78:A:ILE:HG13 | 1:80:A:ARG:H | 12 | 4.46 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 9 | 4.46 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 18 | 4.46 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 18 | 4.46 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 13 | 4.46 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 3 | 4.46 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 6 | 4.46 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 12 | 4.46 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 12 | 4.46 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 12 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 2 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 2 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 2 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 2 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 2 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 2 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 2 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 2 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 2 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 9 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 9 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 9 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 9 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 9 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 9 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 9 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 9 | 4.46 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 9 | 4.46 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 5 | 4.46 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 4 | 4.46 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 4 | 4.46 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 4 | 4.46 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 12 | 4.46 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 14 | 4.46 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 18 | 4.46 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 18 | 4.46 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 13 | 4.46 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 3 | 4.46 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 3 | 4.46 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 3 | 4.46 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 3 | 4.46 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 3 | 4.46 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 3 | 4.46 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 14 | 4.46 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 11 | 4.46 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 19 | 4.46 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 15 | 4.46 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 5 | 4.46 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 16 | 4.46 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 8 | 4.46 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 9 | 4.46 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 18 | 4.46 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 8 | 4.46 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 8 | 4.46 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 1 | 4.46 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 2 | 4.46 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 2 | 4.46 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 16 | 4.46 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 16 | 4.46 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 13 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 13 | 4.46 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 13 | 4.46 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 4 | 4.46 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 5 | 4.46 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 18 | 4.46 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 9 | 4.46 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 9 | 4.46 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 3 | 4.46 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 9 | 4.46 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 3 | 4.46 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 3 | 4.46 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 3 | 4.46 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 3 | 4.46 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 11 | 4.46 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 11 | 4.46 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 11 | 4.46 |
| (1,7375) | 1:139:A:PHE:HA | 1:140:A:ALA:HA | 1 | 4.46 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 20 | 4.46 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 20 | 4.46 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 17 | 4.46 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 17 | 4.46 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 6 | 4.46 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 16 | 4.46 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 11 | 4.46 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 16 | 4.46 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 10 | 4.46 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 17 | 4.46 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 17 | 4.46 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 17 | 4.46 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 20 | 4.46 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 10 | 4.46 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 1 | 4.46 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 1 | 4.46 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 1 | 4.46 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 5 | 4.46 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 2 | 4.46 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 11 | 4.46 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 14 | 4.46 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 18 | 4.46 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 18 | 4.46 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 18 | 4.46 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 16 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 2 | 4.46 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 8 | 4.46 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 12 | 4.46 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 4 | 4.46 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 4 | 4.46 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 4 | 4.46 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 7 | 4.46 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 8 | 4.46 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 8 | 4.46 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 8 | 4.46 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 12 | 4.46 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 12 | 4.46 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 15 | 4.46 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 15 | 4.46 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 15 | 4.46 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 15 | 4.46 |
| (1,6781) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 14 | 4.46 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 2 | 4.46 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 11 | 4.46 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 20 | 4.46 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 5 | 4.46 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 5 | 4.46 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 5 | 4.46 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 5 | 4.46 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 5 | 4.46 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 5 | 4.46 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 18 | 4.46 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 16 | 4.46 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 13 | 4.46 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 14 | 4.46 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 5 | 4.46 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 5 | 4.46 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 5 | 4.46 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 6 | 4.46 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 9 | 4.46 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 4 | 4.46 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 13 | 4.46 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 7 | 4.46 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 18 | 4.46 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 13 | 4.46 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 20 | 4.46 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 6 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 20 | 4.46 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 3 | 4.46 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 6 | 4.46 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 12 | 4.46 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 14 | 4.46 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 10 | 4.46 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 10 | 4.46 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 10 | 4.46 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 9 | 4.46 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 10 | 4.46 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 10 | 4.46 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 10 | 4.46 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 17 | 4.46 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 15 | 4.46 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 15 | 4.46 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 15 | 4.46 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 10 | 4.46 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 10 | 4.46 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 10 | 4.46 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 16 | 4.46 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 8 | 4.46 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 9 | 4.46 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 8 | 4.46 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 8 | 4.46 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 14 | 4.46 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 17 | 4.46 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 16 | 4.46 |
| (1,5584) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 3 | 4.46 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 14 | 4.46 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 3 | 4.46 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 3 | 4.46 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 3 | 4.46 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 6 | 4.46 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 6 | 4.46 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 6 | 4.46 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 18 | 4.46 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 18 | 4.46 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 18 | 4.46 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 18 | 4.46 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 18 | 4.46 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 18 | 4.46 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 15 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 15 | 4.46 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 15 | 4.46 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 16 | 4.46 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 8 | 4.46 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 9 | 4.46 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 9 | 4.46 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 9 | 4.46 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 9 | 4.46 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 9 | 4.46 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 9 | 4.46 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 9 | 4.46 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 9 | 4.46 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 9 | 4.46 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 16 | 4.46 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 11 | 4.46 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 9 | 4.46 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 17 | 4.46 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 16 | 4.46 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 15 | 4.46 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 14 | 4.46 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 14 | 4.46 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 14 | 4.46 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 4 | 4.46 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 15 | 4.46 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 8 | 4.46 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 9 | 4.46 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 1 | 4.46 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 1 | 4.46 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 1 | 4.46 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 13 | 4.46 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 13 | 4.46 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 13 | 4.46 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 13 | 4.46 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 13 | 4.46 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 13 | 4.46 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 13 | 4.46 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 13 | 4.46 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 13 | 4.46 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 18 | 4.46 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 18 | 4.46 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 18 | 4.46 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 6 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 19 | 4.46 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 8 | 4.46 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 16 | 4.46 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 16 | 4.46 |
| (1,4679) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 7 | 4.46 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 17 | 4.46 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 17 | 4.46 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 17 | 4.46 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 9 | 4.46 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 9 | 4.46 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 7 | 4.46 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 7 | 4.46 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 4 | 4.46 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 13 | 4.46 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 12 | 4.46 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 12 | 4.46 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 12 | 4.46 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 12 | 4.46 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 12 | 4.46 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 12 | 4.46 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 12 | 4.46 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 12 | 4.46 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 12 | 4.46 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 15 | 4.46 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 15 | 4.46 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 9 | 4.46 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 9 | 4.46 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 9 | 4.46 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 9 | 4.46 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 13 | 4.46 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 14 | 4.46 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 3 | 4.46 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 3 | 4.46 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 3 | 4.46 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 3 | 4.46 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 3 | 4.46 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 3 | 4.46 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 8 | 4.46 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 8 | 4.46 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 8 | 4.46 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 8 | 4.46 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 3 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 3 | 4.46 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 3 | 4.46 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 3 | 4.46 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 3 | 4.46 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 3 | 4.46 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 13 | 4.46 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 18 | 4.46 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 9 | 4.46 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 9 | 4.46 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 9 | 4.46 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 9 | 4.46 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 9 | 4.46 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 9 | 4.46 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 13 | 4.46 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 13 | 4.46 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 13 | 4.46 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 13 | 4.46 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 13 | 4.46 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 13 | 4.46 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 3 | 4.46 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 3 | 4.46 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 3 | 4.46 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 3 | 4.46 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 4.46 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 9 | 4.46 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 11 | 4.46 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 11 | 4.46 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 11 | 4.46 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 11 | 4.46 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 8 | 4.46 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 8 | 4.46 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 8 | 4.46 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 8 | 4.46 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 17 | 4.46 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 17 | 4.46 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 12 | 4.46 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 12 | 4.46 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 12 | 4.46 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 12 | 4.46 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 12 | 4.46 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 12 | 4.46 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 15 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 2 | 4.46 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 2 | 4.46 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 12 | 4.46 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 16 | 4.46 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 11 | 4.46 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 16 | 4.46 |
| (1,3408) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 5 | 4.46 |
| (1,3408) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 5 | 4.46 |
| (1,3408) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 5 | 4.46 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 10 | 4.46 |
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 17 | 4.46 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 17 | 4.46 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 17 | 4.46 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 18 | 4.46 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 20 | 4.46 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 13 | 4.46 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 17 | 4.46 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 17 | 4.46 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 10 | 4.46 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 1 | 4.46 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 1 | 4.46 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 1 | 4.46 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 5 | 4.46 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 2 | 4.46 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 11 | 4.46 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 14 | 4.46 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 12 | 4.46 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 18 | 4.46 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 18 | 4.46 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 18 | 4.46 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 18 | 4.46 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 16 | 4.46 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 2 | 4.46 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 8 | 4.46 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 4 | 4.46 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 12 | 4.46 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 4 | 4.46 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 4 | 4.46 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 4 | 4.46 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 7 | 4.46 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 8 | 4.46 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 8 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 8 | 4.46 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 12 | 4.46 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 12 | 4.46 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 15 | 4.46 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 15 | 4.46 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 15 | 4.46 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 15 | 4.46 |
| (1,2736) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 14 | 4.46 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 2 | 4.46 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 11 | 4.46 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 20 | 4.46 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 18 | 4.46 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 16 | 4.46 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 13 | 4.46 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 7 | 4.46 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 14 | 4.46 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 5 | 4.46 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 5 | 4.46 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 5 | 4.46 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 6 | 4.46 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 9 | 4.46 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 4 | 4.46 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 13 | 4.46 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 7 | 4.46 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 18 | 4.46 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 5 | 4.46 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 5 | 4.46 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 5 | 4.46 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 10 | 4.46 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 13 | 4.46 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 20 | 4.46 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 6 | 4.46 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 20 | 4.46 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 3 | 4.46 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 2 | 4.46 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 6 | 4.46 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 12 | 4.46 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 14 | 4.46 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 10 | 4.46 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 10 | 4.46 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 10 | 4.46 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 9 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 10 | 4.46 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 10 | 4.46 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 10 | 4.46 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 17 | 4.46 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 15 | 4.46 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 15 | 4.46 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 15 | 4.46 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 10 | 4.46 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 10 | 4.46 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 10 | 4.46 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 16 | 4.46 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 8 | 4.46 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 9 | 4.46 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 8 | 4.46 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 8 | 4.46 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 14 | 4.46 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 17 | 4.46 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 16 | 4.46 |
| (1,764) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 3 | 4.46 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 14 | 4.46 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 8 | 4.46 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 4 | 4.46 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 3 | 4.46 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 3 | 4.46 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 3 | 4.46 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 6 | 4.46 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 6 | 4.46 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 6 | 4.46 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 18 | 4.46 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 18 | 4.46 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 18 | 4.46 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 18 | 4.46 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 18 | 4.46 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 18 | 4.46 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 16 | 4.46 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 2 | 4.46 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 2 | 4.46 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 2 | 4.46 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 20 | 4.45 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 17 | 4.45 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 17 | 4.45 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 14 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 14 | 4.45 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB2 | 15 | 4.45 |
| (1,9521) | 1:140:A:ALA:H | 1:141:A:LEU:HB3 | 15 | 4.45 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 6 | 4.45 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 6 | 4.45 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 11 | 4.45 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 11 | 4.45 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 20 | 4.45 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 20 | 4.45 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 1 | 4.45 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 1 | 4.45 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 14 | 4.45 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 14 | 4.45 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 13 | 4.45 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 13 | 4.45 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 13 | 4.45 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 13 | 4.45 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 12 | 4.45 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 12 | 4.45 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 12 | 4.45 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 12 | 4.45 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 6 | 4.45 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 6 | 4.45 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 16 | 4.45 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 16 | 4.45 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 15 | 4.45 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 15 | 4.45 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 5 | 4.45 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 5 | 4.45 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 3 | 4.45 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 3 | 4.45 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 3 | 4.45 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 3 | 4.45 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 19 | 4.45 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 19 | 4.45 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 19 | 4.45 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 19 | 4.45 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 4 | 4.45 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 4 | 4.45 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 4 | 4.45 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 4 | 4.45 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 4 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 4 | 4.45 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 3 | 4.45 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 3 | 4.45 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 3 | 4.45 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 3 | 4.45 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 3 | 4.45 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 3 | 4.45 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 13 | 4.45 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 13 | 4.45 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 13 | 4.45 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 13 | 4.45 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 13 | 4.45 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 13 | 4.45 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 11 | 4.45 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 11 | 4.45 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 7 | 4.45 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 7 | 4.45 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 6 | 4.45 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 6 | 4.45 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 16 | 4.45 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 16 | 4.45 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 16 | 4.45 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 16 | 4.45 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 16 | 4.45 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 16 | 4.45 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 2 | 4.45 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 2 | 4.45 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 10 | 4.45 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 10 | 4.45 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 5 | 4.45 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 5 | 4.45 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 15 | 4.45 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 15 | 4.45 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 19 | 4.45 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 19 | 4.45 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 8 | 4.45 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 8 | 4.45 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 13 | 4.45 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 13 | 4.45 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 19 | 4.45 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 19 | 4.45 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 8 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 8 | 4.45 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 19 | 4.45 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 19 | 4.45 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 14 | 4.45 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 14 | 4.45 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 1 | 4.45 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 1 | 4.45 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 1 | 4.45 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 1 | 4.45 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 9 | 4.45 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 9 | 4.45 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 16 | 4.45 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 15 | 4.45 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 15 | 4.45 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 4 | 4.45 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 10 | 4.45 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 1 | 4.45 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 1 | 4.45 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 1 | 4.45 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 10 | 4.45 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 10 | 4.45 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 10 | 4.45 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 18 | 4.45 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 5 | 4.45 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 5 | 4.45 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 5 | 4.45 |
| (1,8356) | 1:135:A:GLU:HB2 | 1:137:A:ALA:H | 19 | 4.45 |
| (1,8356) | 1:135:A:GLU:HB3 | 1:137:A:ALA:H | 19 | 4.45 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 7 | 4.45 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 9 | 4.45 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 13 | 4.45 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 13 | 4.45 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 4 | 4.45 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 4 | 4.45 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB1 | 7 | 4.45 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB2 | 7 | 4.45 |
| (1,8246) | 1:115:A:SER:HA | 1:116:A:ALA:HB3 | 7 | 4.45 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 6 | 4.45 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 12 | 4.45 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 12 | 4.45 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 12 | 4.45 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 12 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 12 | 4.45 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 12 | 4.45 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 12 | 4.45 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 12 | 4.45 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 12 | 4.45 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 15 | 4.45 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 15 | 4.45 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 15 | 4.45 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 8 | 4.45 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 8 | 4.45 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 8 | 4.45 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 12 | 4.45 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 12 | 4.45 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 2 | 4.45 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 2 | 4.45 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 2 | 4.45 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 9 | 4.45 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 9 | 4.45 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 9 | 4.45 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 3 | 4.45 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 3 | 4.45 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 3 | 4.45 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 20 | 4.45 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 10 | 4.45 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 16 | 4.45 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 11 | 4.45 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 11 | 4.45 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 11 | 4.45 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 4 | 4.45 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 4 | 4.45 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 4 | 4.45 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 4 | 4.45 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 4 | 4.45 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 4 | 4.45 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 5 | 4.45 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 5 | 4.45 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 1 | 4.45 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 20 | 4.45 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 20 | 4.45 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 20 | 4.45 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 2 | 4.45 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 9 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 2 | 4.45 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 14 | 4.45 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 18 | 4.45 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 17 | 4.45 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 9 | 4.45 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 9 | 4.45 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 9 | 4.45 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 9 | 4.45 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 9 | 4.45 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 9 | 4.45 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 13 | 4.45 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 10 | 4.45 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 5 | 4.45 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 5 | 4.45 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 10 | 4.45 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 10 | 4.45 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 2 | 4.45 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 10 | 4.45 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 10 | 4.45 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 18 | 4.45 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 18 | 4.45 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 19 | 4.45 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 17 | 4.45 |
| (1,7626) | 1:26:A:ASN:H | 1:29:A:THR:H | 9 | 4.45 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 17 | 4.45 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 1 | 4.45 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 1 | 4.45 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 1 | 4.45 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 1 | 4.45 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 8 | 4.45 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 8 | 4.45 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 17 | 4.45 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 17 | 4.45 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 13 | 4.45 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 13 | 4.45 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 13 | 4.45 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 7 | 4.45 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 7 | 4.45 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 7 | 4.45 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 19 | 4.45 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 19 | 4.45 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 18 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 2 | 4.45 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 12 | 4.45 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 13 | 4.45 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 16 | 4.45 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 6 | 4.45 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 11 | 4.45 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 11 | 4.45 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 14 | 4.45 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 4 | 4.45 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 2 | 4.45 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 4 | 4.45 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 13 | 4.45 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 10 | 4.45 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 13 | 4.45 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 13 | 4.45 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 13 | 4.45 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 20 | 4.45 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 20 | 4.45 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 20 | 4.45 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 20 | 4.45 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 20 | 4.45 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 20 | 4.45 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 4 | 4.45 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 4 | 4.45 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 16 | 4.45 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 16 | 4.45 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 1 | 4.45 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 1 | 4.45 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 1 | 4.45 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 15 | 4.45 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 14 | 4.45 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 14 | 4.45 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 20 | 4.45 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 20 | 4.45 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 20 | 4.45 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 15 | 4.45 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 18 | 4.45 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 4 | 4.45 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 8 | 4.45 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 1 | 4.45 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 11 | 4.45 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 11 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 7 | 4.45 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 7 | 4.45 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 6 | 4.45 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 6 | 4.45 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 5 | 4.45 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 19 | 4.45 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 19 | 4.45 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 19 | 4.45 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 2 | 4.45 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 2 | 4.45 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 2 | 4.45 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 10 | 4.45 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 10 | 4.45 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 10 | 4.45 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 4 | 4.45 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 10 | 4.45 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 10 | 4.45 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 17 | 4.45 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 20 | 4.45 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 20 | 4.45 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 20 | 4.45 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 6 | 4.45 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 6 | 4.45 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 6 | 4.45 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 2 | 4.45 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 15 | 4.45 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 13 | 4.45 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 13 | 4.45 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 13 | 4.45 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 13 | 4.45 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 14 | 4.45 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 14 | 4.45 |
| (1,6755) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 4 | 4.45 |
| (1,6755) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 4 | 4.45 |
| (1,6755) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 4 | 4.45 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 7 | 4.45 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 9 | 4.45 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 9 | 4.45 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 9 | 4.45 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 15 | 4.45 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 18 | 4.45 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 9 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 17 | 4.45 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 17 | 4.45 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 17 | 4.45 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 12 | 4.45 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 7 | 4.45 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 7 | 4.45 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 7 | 4.45 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 19 | 4.45 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 19 | 4.45 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 19 | 4.45 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 3 | 4.45 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 4 | 4.45 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 4 | 4.45 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 4 | 4.45 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 7 | 4.45 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 12 | 4.45 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 4 | 4.45 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 4 | 4.45 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 16 | 4.45 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 16 | 4.45 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 16 | 4.45 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 16 | 4.45 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 16 | 4.45 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 16 | 4.45 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 3 | 4.45 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 3 | 4.45 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 3 | 4.45 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 17 | 4.45 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 17 | 4.45 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 17 | 4.45 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 17 | 4.45 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 17 | 4.45 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 17 | 4.45 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 9 | 4.45 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 9 | 4.45 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 9 | 4.45 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 17 | 4.45 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 17 | 4.45 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 17 | 4.45 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 3 | 4.45 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 1 | 4.45 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 1 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 17 | 4.45 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 4 | 4.45 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 13 | 4.45 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 13 | 4.45 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 13 | 4.45 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 6 | 4.45 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 7 | 4.45 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 9 | 4.45 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 11 | 4.45 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 14 | 4.45 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 18 | 4.45 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 12 | 4.45 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 11 | 4.45 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 11 | 4.45 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 11 | 4.45 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 11 | 4.45 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 11 | 4.45 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 11 | 4.45 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 1 | 4.45 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 1 | 4.45 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 1 | 4.45 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 13 | 4.45 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 13 | 4.45 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 13 | 4.45 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 13 | 4.45 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 13 | 4.45 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 13 | 4.45 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 12 | 4.45 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 6 | 4.45 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 8 | 4.45 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 10 | 4.45 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 13 | 4.45 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 13 | 4.45 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 13 | 4.45 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 8 | 4.45 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 8 | 4.45 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 8 | 4.45 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 5 | 4.45 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 7 | 4.45 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 18 | 4.45 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 18 | 4.45 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 18 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 11 | 4.45 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 11 | 4.45 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 11 | 4.45 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 5 | 4.45 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 5 | 4.45 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 5 | 4.45 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 13 | 4.45 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 7 | 4.45 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 18 | 4.45 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 18 | 4.45 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 18 | 4.45 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 19 | 4.45 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 19 | 4.45 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 19 | 4.45 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 11 | 4.45 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 11 | 4.45 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 11 | 4.45 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 12 | 4.45 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 16 | 4.45 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 3 | 4.45 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 3 | 4.45 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 3 | 4.45 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 14 | 4.45 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 2 | 4.45 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 2 | 4.45 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 2 | 4.45 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 2 | 4.45 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 2 | 4.45 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 2 | 4.45 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 2 | 4.45 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 2 | 4.45 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 2 | 4.45 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 12 | 4.45 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 19 | 4.45 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 19 | 4.45 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 7 | 4.45 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 7 | 4.45 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 7 | 4.45 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 12 | 4.45 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 12 | 4.45 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 12 | 4.45 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 2 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 13 | 4.45 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 13 | 4.45 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 13 | 4.45 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 5 | 4.45 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 5 | 4.45 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 5 | 4.45 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 15 | 4.45 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 4 | 4.45 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 4 | 4.45 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 12 | 4.45 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 12 | 4.45 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 17 | 4.45 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 17 | 4.45 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 14 | 4.45 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 14 | 4.45 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 14 | 4.45 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 12 | 4.45 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 12 | 4.45 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 12 | 4.45 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 12 | 4.45 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 12 | 4.45 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 12 | 4.45 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 2 | 4.45 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 7 | 4.45 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 7 | 4.45 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 7 | 4.45 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 14 | 4.45 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 14 | 4.45 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 14 | 4.45 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 14 | 4.45 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 14 | 4.45 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 14 | 4.45 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 14 | 4.45 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 13 | 4.45 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 13 | 4.45 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 13 | 4.45 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 13 | 4.45 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 8 | 4.45 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 12 | 4.45 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 12 | 4.45 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 12 | 4.45 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 12 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 7 | 4.45 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 7 | 4.45 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 7 | 4.45 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 8 | 4.45 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 8 | 4.45 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 16 | 4.45 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 2 | 4.45 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 2 | 4.45 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 2 | 4.45 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 5 | 4.45 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 5 | 4.45 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 5 | 4.45 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 15 | 4.45 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 15 | 4.45 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 15 | 4.45 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 19 | 4.45 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 19 | 4.45 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 6 | 4.45 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 1 | 4.45 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 1 | 4.45 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 4 | 4.45 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 4 | 4.45 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 4 | 4.45 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 4 | 4.45 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 4 | 4.45 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 4 | 4.45 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 12 | 4.45 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 12 | 4.45 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 12 | 4.45 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 11 | 4.45 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 11 | 4.45 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 9 | 4.45 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 9 | 4.45 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 9 | 4.45 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 4.45 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 4.45 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 4.45 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 4.45 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 4.45 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 4.45 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 16 | 4.45 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 16 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 16 | 4.45 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 16 | 4.45 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 16 | 4.45 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 16 | 4.45 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 5 | 4.45 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 5 | 4.45 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 15 | 4.45 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 15 | 4.45 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 19 | 4.45 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 19 | 4.45 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 18 | 4.45 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 18 | 4.45 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 8 | 4.45 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 8 | 4.45 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 13 | 4.45 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 13 | 4.45 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 1 | 4.45 |
| (1,3602) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 1 | 4.45 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 1 | 4.45 |
| (1,3602) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 1 | 4.45 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 19 | 4.45 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 19 | 4.45 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 4 | 4.45 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 8 | 4.45 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 8 | 4.45 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 13 | 4.45 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 13 | 4.45 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 2 | 4.45 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 14 | 4.45 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 14 | 4.45 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 20 | 4.45 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 20 | 4.45 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 20 | 4.45 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 15 | 4.45 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 18 | 4.45 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 4 | 4.45 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 1 | 4.45 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 1 | 4.45 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 1 | 4.45 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 10 | 4.45 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 8 | 4.45 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 1 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 11 | 4.45 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 11 | 4.45 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 3 | 4.45 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 6 | 4.45 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 8 | 4.45 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 8 | 4.45 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 7 | 4.45 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 7 | 4.45 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 6 | 4.45 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 6 | 4.45 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 5 | 4.45 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 19 | 4.45 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 19 | 4.45 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 19 | 4.45 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 2 | 4.45 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 2 | 4.45 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 2 | 4.45 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 10 | 4.45 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 10 | 4.45 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 10 | 4.45 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 4 | 4.45 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 10 | 4.45 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 10 | 4.45 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 17 | 4.45 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 20 | 4.45 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 20 | 4.45 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 20 | 4.45 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 4.45 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 6 | 4.45 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 6 | 4.45 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 6 | 4.45 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 2 | 4.45 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 15 | 4.45 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 13 | 4.45 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 13 | 4.45 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 13 | 4.45 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 13 | 4.45 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 14 | 4.45 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 14 | 4.45 |
| (1,2694) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 4 | 4.45 |
| (1,2694) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 4 | 4.45 |
| (1,2694) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 4 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 7 | 4.45 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 9 | 4.45 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 9 | 4.45 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 9 | 4.45 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 4.45 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 4.45 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 4.45 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 15 | 4.45 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 18 | 4.45 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 9 | 4.45 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 17 | 4.45 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 17 | 4.45 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 17 | 4.45 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 12 | 4.45 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 6 | 4.45 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 7 | 4.45 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 7 | 4.45 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 7 | 4.45 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 6 | 4.45 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 5 | 4.45 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 19 | 4.45 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 19 | 4.45 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 19 | 4.45 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 3 | 4.45 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 4 | 4.45 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 4 | 4.45 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 4 | 4.45 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 7 | 4.45 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 6 | 4.45 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 12 | 4.45 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 11 | 4.45 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 4 | 4.45 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 4 | 4.45 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 16 | 4.45 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 16 | 4.45 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 16 | 4.45 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 16 | 4.45 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 16 | 4.45 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 16 | 4.45 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 3 | 4.45 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 3 | 4.45 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 3 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 17 | 4.45 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 17 | 4.45 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 17 | 4.45 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 17 | 4.45 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 17 | 4.45 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 17 | 4.45 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 9 | 4.45 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 9 | 4.45 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 9 | 4.45 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 17 | 4.45 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 17 | 4.45 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 17 | 4.45 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 3 | 4.45 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 7 | 4.45 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 7 | 4.45 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 7 | 4.45 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 1 | 4.45 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 1 | 4.45 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 10 | 4.45 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 17 | 4.45 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 14 | 4.45 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 4 | 4.45 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 13 | 4.45 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 13 | 4.45 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 13 | 4.45 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 6 | 4.45 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 6 | 4.45 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 6 | 4.45 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 19 | 4.45 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 19 | 4.45 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 19 | 4.45 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 18 | 4.45 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 6 | 4.45 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 7 | 4.45 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 9 | 4.45 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 11 | 4.45 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 14 | 4.45 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 18 | 4.45 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 2 | 4.45 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 1 | 4.45 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 6 | 4.45 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 6 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 6 | 4.45 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 12 | 4.45 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 11 | 4.45 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 11 | 4.45 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 11 | 4.45 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 11 | 4.45 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 11 | 4.45 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 11 | 4.45 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 1 | 4.45 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 1 | 4.45 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 1 | 4.45 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 13 | 4.45 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 13 | 4.45 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 13 | 4.45 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 13 | 4.45 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 13 | 4.45 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 13 | 4.45 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 12 | 4.45 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 6 | 4.45 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 8 | 4.45 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 7 | 4.45 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 7 | 4.45 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 7 | 4.45 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 3 | 4.45 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 19 | 4.45 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 10 | 4.45 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 13 | 4.45 |
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 13 | 4.45 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 13 | 4.45 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 8 | 4.45 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 8 | 4.45 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 8 | 4.45 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 5 | 4.45 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 7 | 4.45 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 18 | 4.45 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 18 | 4.45 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 18 | 4.45 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 7 | 4.45 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 7 | 4.44 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 1 | 4.44 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 1 | 4.44 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 4 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 20 | 4.44 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 7 | 4.44 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 7 | 4.44 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 15 | 4.44 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 15 | 4.44 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 12 | 4.44 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 12 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 1 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 1 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 1 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 1 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 1 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 1 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 17 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 17 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 17 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 17 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 17 | 4.44 |
| (1,9533) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 17 | 4.44 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 4 | 4.44 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 4 | 4.44 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 4 | 4.44 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 4 | 4.44 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 10 | 4.44 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 10 | 4.44 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 10 | 4.44 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 10 | 4.44 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 15 | 4.44 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 15 | 4.44 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 17 | 4.44 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 17 | 4.44 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 5 | 4.44 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 5 | 4.44 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 5 | 4.44 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 5 | 4.44 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 5 | 4.44 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 5 | 4.44 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 14 | 4.44 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 14 | 4.44 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 14 | 4.44 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 14 | 4.44 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 14 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 14 | 4.44 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 1 | 4.44 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 1 | 4.44 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 8 | 4.44 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 8 | 4.44 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 5 | 4.44 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 5 | 4.44 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 5 | 4.44 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 5 | 4.44 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 5 | 4.44 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 5 | 4.44 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 13 | 4.44 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 13 | 4.44 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 5 | 4.44 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 5 | 4.44 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 5 | 4.44 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 5 | 4.44 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 16 | 4.44 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 16 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 9 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 9 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 9 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 9 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 9 | 4.44 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 9 | 4.44 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 20 | 4.44 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 4.44 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 15 | 4.44 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 15 | 4.44 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 8 | 4.44 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 8 | 4.44 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 3 | 4.44 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 3 | 4.44 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 1 | 4.44 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 1 | 4.44 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 15 | 4.44 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 15 | 4.44 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 8 | 4.44 |
| (1,8968) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 8 | 4.44 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 13 | 4.44 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 13 | 4.44 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 6 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 6 | 4.44 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 2 | 4.44 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 2 | 4.44 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 19 | 4.44 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 19 | 4.44 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 19 | 4.44 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 19 | 4.44 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 14 | 4.44 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 14 | 4.44 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 4 | 4.44 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 4 | 4.44 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 17 | 4.44 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 17 | 4.44 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 17 | 4.44 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 17 | 4.44 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 19 | 4.44 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 19 | 4.44 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 19 | 4.44 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 19 | 4.44 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 14 | 4.44 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 14 | 4.44 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 14 | 4.44 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 14 | 4.44 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 16 | 4.44 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 16 | 4.44 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 16 | 4.44 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 16 | 4.44 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 16 | 4.44 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 16 | 4.44 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 14 | 4.44 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 14 | 4.44 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 19 | 4.44 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 19 | 4.44 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 8 | 4.44 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 8 | 4.44 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 4 | 4.44 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 4 | 4.44 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 7 | 4.44 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 7 | 4.44 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 7 | 4.44 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 7 | 4.44 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 7 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 7 | 4.44 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 7 | 4.44 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 7 | 4.44 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 6 | 4.44 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 16 | 4.44 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 10 | 4.44 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 10 | 4.44 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 10 | 4.44 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 20 | 4.44 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 3 | 4.44 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 11 | 4.44 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 11 | 4.44 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 11 | 4.44 |
| (1,8450) | 1:146:A:MET:HA | 1:160:A:LEU:H | 6 | 4.44 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 13 | 4.44 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 13 | 4.44 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 13 | 4.44 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 13 | 4.44 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 13 | 4.44 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 13 | 4.44 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 13 | 4.44 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 13 | 4.44 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 13 | 4.44 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 2 | 4.44 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 2 | 4.44 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 2 | 4.44 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 19 | 4.44 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 19 | 4.44 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 19 | 4.44 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 6 | 4.44 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 8 | 4.44 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 14 | 4.44 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 14 | 4.44 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 14 | 4.44 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 6 | 4.44 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 13 | 4.44 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 13 | 4.44 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 13 | 4.44 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 14 | 4.44 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 5 | 4.44 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 17 | 4.44 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 17 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 13 | 4.44 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 13 | 4.44 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 11 | 4.44 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 11 | 4.44 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 6 | 4.44 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 14 | 4.44 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 11 | 4.44 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 9 | 4.44 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 3 | 4.44 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 3 | 4.44 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 3 | 4.44 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 7 | 4.44 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 13 | 4.44 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 13 | 4.44 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 12 | 4.44 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 12 | 4.44 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 12 | 4.44 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 12 | 4.44 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 12 | 4.44 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 12 | 4.44 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 12 | 4.44 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 12 | 4.44 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 12 | 4.44 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 6 | 4.44 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 10 | 4.44 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 10 | 4.44 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 10 | 4.44 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 7 | 4.44 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 7 | 4.44 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 7 | 4.44 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 4 | 4.44 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 10 | 4.44 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 10 | 4.44 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 10 | 4.44 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 12 | 4.44 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 12 | 4.44 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 12 | 4.44 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 14 | 4.44 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 14 | 4.44 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 14 | 4.44 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 8 | 4.44 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 8 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 8 | 4.44 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 17 | 4.44 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 17 | 4.44 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 17 | 4.44 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG21 | 13 | 4.44 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG22 | 13 | 4.44 |
| (1,7829) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG23 | 13 | 4.44 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG21 | 13 | 4.44 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG22 | 13 | 4.44 |
| (1,7829) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG23 | 13 | 4.44 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG21 | 13 | 4.44 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG22 | 13 | 4.44 |
| (1,7829) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG23 | 13 | 4.44 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 12 | 4.44 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 12 | 4.44 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 12 | 4.44 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 20 | 4.44 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 20 | 4.44 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 20 | 4.44 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 8 | 4.44 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 19 | 4.44 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 9 | 4.44 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 8 | 4.44 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 8 | 4.44 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 8 | 4.44 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 13 | 4.44 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 13 | 4.44 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 13 | 4.44 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 7 | 4.44 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 15 | 4.44 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 12 | 4.44 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 13 | 4.44 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 13 | 4.44 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 13 | 4.44 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 13 | 4.44 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 13 | 4.44 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 13 | 4.44 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 13 | 4.44 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 13 | 4.44 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 13 | 4.44 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 13 | 4.44 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 2 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 20 | 4.44 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 20 | 4.44 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 17 | 4.44 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 3 | 4.44 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 19 | 4.44 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 11 | 4.44 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 5 | 4.44 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 5 | 4.44 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 5 | 4.44 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 13 | 4.44 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 20 | 4.44 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 20 | 4.44 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 8 | 4.44 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 8 | 4.44 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 7 | 4.44 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 7 | 4.44 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 16 | 4.44 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 16 | 4.44 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 16 | 4.44 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 16 | 4.44 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 16 | 4.44 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 16 | 4.44 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 16 | 4.44 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 16 | 4.44 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 16 | 4.44 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 15 | 4.44 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 17 | 4.44 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 14 | 4.44 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 1 | 4.44 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 1 | 4.44 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 8 | 4.44 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 8 | 4.44 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 5 | 4.44 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 7 | 4.44 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 11 | 4.44 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 11 | 4.44 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 11 | 4.44 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 3 | 4.44 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 3 | 4.44 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 20 | 4.44 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 1 | 4.44 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 1 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 1 | 4.44 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 10 | 4.44 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 10 | 4.44 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 10 | 4.44 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 15 | 4.44 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 15 | 4.44 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 2 | 4.44 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 18 | 4.44 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 14 | 4.44 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 9 | 4.44 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 19 | 4.44 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 19 | 4.44 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 3 | 4.44 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 8 | 4.44 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 9 | 4.44 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 11 | 4.44 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 10 | 4.44 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 10 | 4.44 |
| (1,6685) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 10 | 4.44 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 14 | 4.44 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 19 | 4.44 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 19 | 4.44 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 14 | 4.44 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 8 | 4.44 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 8 | 4.44 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 14 | 4.44 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 5 | 4.44 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 17 | 4.44 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 1 | 4.44 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 4 | 4.44 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 4 | 4.44 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 10 | 4.44 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 10 | 4.44 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 17 | 4.44 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 17 | 4.44 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 17 | 4.44 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 10 | 4.44 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 10 | 4.44 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 13 | 4.44 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 13 | 4.44 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 18 | 4.44 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 18 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 18 | 4.44 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 19 | 4.44 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 13 | 4.44 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 13 | 4.44 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 13 | 4.44 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 8 | 4.44 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 13 | 4.44 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 13 | 4.44 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 16 | 4.44 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 10 | 4.44 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 18 | 4.44 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 10 | 4.44 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 10 | 4.44 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 10 | 4.44 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 11 | 4.44 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 11 | 4.44 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 13 | 4.44 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 13 | 4.44 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 13 | 4.44 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 8 | 4.44 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 15 | 4.44 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 15 | 4.44 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 3 | 4.44 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 10 | 4.44 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 10 | 4.44 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 10 | 4.44 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 10 | 4.44 |
| (1,5691) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 19 | 4.44 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 19 | 4.44 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 19 | 4.44 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 19 | 4.44 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 19 | 4.44 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 19 | 4.44 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 19 | 4.44 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 14 | 4.44 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 14 | 4.44 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 14 | 4.44 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 14 | 4.44 |
| (1,5547) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 8 | 4.44 |
| (1,5547) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 8 | 4.44 |
| (1,5547) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 8 | 4.44 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 6 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 6 | 4.44 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 6 | 4.44 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 16 | 4.44 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 3 | 4.44 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 8 | 4.44 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 8 | 4.44 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 8 | 4.44 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 18 | 4.44 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 18 | 4.44 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 18 | 4.44 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 18 | 4.44 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 18 | 4.44 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 18 | 4.44 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 15 | 4.44 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 15 | 4.44 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 15 | 4.44 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 16 | 4.44 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 16 | 4.44 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 16 | 4.44 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 2 | 4.44 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 2 | 4.44 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 2 | 4.44 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 1 | 4.44 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 6 | 4.44 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 6 | 4.44 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 6 | 4.44 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 15 | 4.44 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 15 | 4.44 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 15 | 4.44 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 17 | 4.44 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 2 | 4.44 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 14 | 4.44 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 8 | 4.44 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 2 | 4.44 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 7 | 4.44 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 17 | 4.44 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 6 | 4.44 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 13 | 4.44 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 2 | 4.44 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 2 | 4.44 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 2 | 4.44 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 17 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 17 | 4.44 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 17 | 4.44 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 16 | 4.44 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 8 | 4.44 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 8 | 4.44 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 8 | 4.44 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 5 | 4.44 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 6 | 4.44 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 6 | 4.44 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 13 | 4.44 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 13 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 1 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 1 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 1 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 1 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 1 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 1 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 17 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 17 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 17 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 17 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 17 | 4.44 |
| (1,4528) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 17 | 4.44 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 11 | 4.44 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 12 | 4.44 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 12 | 4.44 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 12 | 4.44 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 12 | 4.44 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 12 | 4.44 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 12 | 4.44 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 15 | 4.44 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 15 | 4.44 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 18 | 4.44 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 14 | 4.44 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 17 | 4.44 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 17 | 4.44 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 1 | 4.44 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 1 | 4.44 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 8 | 4.44 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 8 | 4.44 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 12 | 4.44 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 5 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 5 | 4.44 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 5 | 4.44 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 5 | 4.44 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 5 | 4.44 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 5 | 4.44 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 13 | 4.44 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 13 | 4.44 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 12 | 4.44 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 20 | 4.44 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 4.44 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 12 | 4.44 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 12 | 4.44 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 12 | 4.44 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 12 | 4.44 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 19 | 4.44 |
| (1,3964) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 5 | 4.44 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 1 | 4.44 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 1 | 4.44 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 15 | 4.44 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 15 | 4.44 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 10 | 4.44 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 12 | 4.44 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 13 | 4.44 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 13 | 4.44 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 3 | 4.44 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 3 | 4.44 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 17 | 4.44 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 17 | 4.44 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 17 | 4.44 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 15 | 4.44 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 15 | 4.44 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 15 | 4.44 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 16 | 4.44 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 16 | 4.44 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 16 | 4.44 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 14 | 4.44 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 14 | 4.44 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 13 | 4.44 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 13 | 4.44 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 4 | 4.44 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 4 | 4.44 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 17 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 17 | 4.44 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 19 | 4.44 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 19 | 4.44 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 12 | 4.44 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 12 | 4.44 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 12 | 4.44 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 12 | 4.44 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 16 | 4.44 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 16 | 4.44 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 16 | 4.44 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 16 | 4.44 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 16 | 4.44 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 16 | 4.44 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 14 | 4.44 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 14 | 4.44 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 4.44 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 4 | 4.44 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 4 | 4.44 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 7 | 4.44 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 7 | 4.44 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 7 | 4.44 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 7 | 4.44 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 7 | 4.44 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 7 | 4.44 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 16 | 4.44 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 16 | 4.44 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 16 | 4.44 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 16 | 4.44 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 16 | 4.44 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 16 | 4.44 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 16 | 4.44 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 16 | 4.44 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 16 | 4.44 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 15 | 4.44 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 17 | 4.44 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 14 | 4.44 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 7 | 4.44 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 11 | 4.44 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 1 | 4.44 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 1 | 4.44 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 8 | 4.44 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 8 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 16 | 4.44 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 5 | 4.44 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 10 | 4.44 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 10 | 4.44 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 10 | 4.44 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 7 | 4.44 |
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 11 | 4.44 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 11 | 4.44 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 11 | 4.44 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 14 | 4.44 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 14 | 4.44 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 3 | 4.44 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 3 | 4.44 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 20 | 4.44 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 1 | 4.44 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 1 | 4.44 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 1 | 4.44 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 10 | 4.44 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 10 | 4.44 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 10 | 4.44 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 15 | 4.44 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 15 | 4.44 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 2 | 4.44 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 18 | 4.44 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 14 | 4.44 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 9 | 4.44 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 19 | 4.44 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 19 | 4.44 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 3 | 4.44 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 8 | 4.44 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 9 | 4.44 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 10 | 4.44 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 10 | 4.44 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 11 | 4.44 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 10 | 4.44 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 10 | 4.44 |
| (1,2580) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 10 | 4.44 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 19 | 4.44 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 19 | 4.44 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 19 | 4.44 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 15 | 4.44 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 14 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 19 | 4.44 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 15 | 4.44 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 19 | 4.44 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 14 | 4.44 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 8 | 4.44 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 8 | 4.44 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 14 | 4.44 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 5 | 4.44 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 5 | 4.44 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 17 | 4.44 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 1 | 4.44 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 17 | 4.44 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 1 | 4.44 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 4 | 4.44 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 4 | 4.44 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 19 | 4.44 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 19 | 4.44 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 19 | 4.44 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 6 | 4.44 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 10 | 4.44 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 10 | 4.44 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 17 | 4.44 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 17 | 4.44 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 17 | 4.44 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 10 | 4.44 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 10 | 4.44 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 13 | 4.44 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 13 | 4.44 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 18 | 4.44 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 18 | 4.44 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 18 | 4.44 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 19 | 4.44 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 9 | 4.44 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 13 | 4.44 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 13 | 4.44 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 13 | 4.44 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 8 | 4.44 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 13 | 4.44 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 13 | 4.44 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 4 | 4.44 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 16 | 4.44 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 10 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 18 | 4.44 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 10 | 4.44 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 10 | 4.44 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 10 | 4.44 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 12 | 4.44 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 12 | 4.44 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 12 | 4.44 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 11 | 4.44 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 11 | 4.44 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 13 | 4.44 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 13 | 4.44 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 13 | 4.44 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 8 | 4.44 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 15 | 4.44 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 15 | 4.44 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 15 | 4.44 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 15 | 4.44 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 7 | 4.44 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 3 | 4.44 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 10 | 4.44 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 4.44 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 4.44 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 4.44 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 10 | 4.44 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 10 | 4.44 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 10 | 4.44 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 8 | 4.44 |
| (1,958) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 19 | 4.44 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 19 | 4.44 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 19 | 4.44 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 19 | 4.44 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 19 | 4.44 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 19 | 4.44 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 19 | 4.44 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 14 | 4.44 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 14 | 4.44 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 14 | 4.44 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 4 | 4.44 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 4 | 4.44 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 4 | 4.44 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 14 | 4.44 |
| (1,708) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 8 | 4.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,708) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 8 | 4.44 |
| (1,708) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 8 | 4.44 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 6 | 4.44 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 6 | 4.44 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 6 | 4.44 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 16 | 4.44 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 3 | 4.44 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 8 | 4.44 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 8 | 4.44 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 8 | 4.44 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 18 | 4.44 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 18 | 4.44 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 18 | 4.44 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 18 | 4.44 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 18 | 4.44 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 18 | 4.44 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 20 | 4.43 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 12 | 4.43 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 2 | 4.43 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 2 | 4.43 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 8 | 4.43 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 8 | 4.43 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 12 | 4.43 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 12 | 4.43 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 6 | 4.43 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 6 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 15 | 4.43 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 15 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 15 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 15 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 15 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 15 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 15 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 15 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 16 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 16 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 16 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 16 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 16 | 4.43 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 16 | 4.43 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 2 | 4.43 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 2 | 4.43 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 4.43 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 4.43 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 4.43 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 4.43 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 17 | 4.43 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 17 | 4.43 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 17 | 4.43 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 17 | 4.43 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 17 | 4.43 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 17 | 4.43 |
| (1,9281) | 1:103:A:PHE:HB2 | 1:107:A:ALA:H | 3 | 4.43 |
| (1,9281) | 1:103:A:PHE:HB3 | 1:107:A:ALA:H | 3 | 4.43 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 8 | 4.43 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 8 | 4.43 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 8 | 4.43 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 8 | 4.43 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 12 | 4.43 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 12 | 4.43 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 7 | 4.43 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 7 | 4.43 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 7 | 4.43 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 7 | 4.43 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 12 | 4.43 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 12 | 4.43 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 10 | 4.43 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 10 | 4.43 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 12 | 4.43 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 12 | 4.43 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 15 | 4.43 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 15 | 4.43 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 18 | 4.43 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 18 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 18 | 4.43 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 18 | 4.43 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 18 | 4.43 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 18 | 4.43 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 3 | 4.43 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 3 | 4.43 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 10 | 4.43 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 10 | 4.43 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 10 | 4.43 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 10 | 4.43 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 10 | 4.43 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 10 | 4.43 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 5 | 4.43 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 5 | 4.43 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 16 | 4.43 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 16 | 4.43 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 8 | 4.43 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 8 | 4.43 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 10 | 4.43 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 10 | 4.43 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 14 | 4.43 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 14 | 4.43 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 2 | 4.43 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 2 | 4.43 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 13 | 4.43 |
| (1,8803) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 13 | 4.43 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 16 | 4.43 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 16 | 4.43 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 16 | 4.43 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 16 | 4.43 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 16 | 4.43 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 16 | 4.43 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 2 | 4.43 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 2 | 4.43 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 13 | 4.43 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 13 | 4.43 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 6 | 4.43 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 6 | 4.43 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 8 | 4.43 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 8 | 4.43 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 16 | 4.43 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 16 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 16 | 4.43 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 16 | 4.43 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 2 | 4.43 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 2 | 4.43 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 5 | 4.43 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 10 | 4.43 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 10 | 4.43 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 2 | 4.43 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 2 | 4.43 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 2 | 4.43 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 16 | 4.43 |
| (1,8427) | 1:143:A:THR:HG21 | 1:145:A:GLU:H | 5 | 4.43 |
| (1,8427) | 1:143:A:THR:HG22 | 1:145:A:GLU:H | 5 | 4.43 |
| (1,8427) | 1:143:A:THR:HG23 | 1:145:A:GLU:H | 5 | 4.43 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 1 | 4.43 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 7 | 4.43 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 16 | 4.43 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 7 | 4.43 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 7 | 4.43 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 7 | 4.43 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 20 | 4.43 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 20 | 4.43 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 20 | 4.43 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 2 | 4.43 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 2 | 4.43 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 2 | 4.43 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 8 | 4.43 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 8 | 4.43 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 6 | 4.43 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 13 | 4.43 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 10 | 4.43 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 10 | 4.43 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 8 | 4.43 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 11 | 4.43 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 18 | 4.43 |
| (1,8210) | 1:107:A:ALA:HB1 | 1:121:A:ASP:H | 14 | 4.43 |
| (1,8210) | 1:107:A:ALA:HB2 | 1:121:A:ASP:H | 14 | 4.43 |
| (1,8210) | 1:107:A:ALA:HB3 | 1:121:A:ASP:H | 14 | 4.43 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 20 | 4.43 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 11 | 4.43 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 11 | 4.43 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 11 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 11 | 4.43 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 19 | 4.43 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 7 | 4.43 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 2 | 4.43 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 2 | 4.43 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 2 | 4.43 |
| (1,8056) | 1:89:A:ILE:HG21 | 1:91:A:GLY:H | 3 | 4.43 |
| (1,8056) | 1:89:A:ILE:HG22 | 1:91:A:GLY:H | 3 | 4.43 |
| (1,8056) | 1:89:A:ILE:HG23 | 1:91:A:GLY:H | 3 | 4.43 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 12 | 4.43 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 5 | 4.43 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 3 | 4.43 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 16 | 4.43 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 13 | 4.43 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 12 | 4.43 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 12 | 4.43 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 12 | 4.43 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 3 | 4.43 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 3 | 4.43 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 3 | 4.43 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 3 | 4.43 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 3 | 4.43 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 3 | 4.43 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 3 | 4.43 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 3 | 4.43 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 3 | 4.43 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 11 | 4.43 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 12 | 4.43 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 2 | 4.43 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 7 | 4.43 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 7 | 4.43 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 12 | 4.43 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 14 | 4.43 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 18 | 4.43 |
| (1,7881) | 1:65:A:SER:H | 1:67:A:SER:H | 15 | 4.43 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 19 | 4.43 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 19 | 4.43 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 19 | 4.43 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 4 | 4.43 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 4 | 4.43 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 4 | 4.43 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 4 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 4 | 4.43 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 4 | 4.43 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 15 | 4.43 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 9 | 4.43 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 14 | 4.43 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 15 | 4.43 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 8 | 4.43 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 18 | 4.43 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 18 | 4.43 |
| (1,7771) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 18 | 4.43 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 16 | 4.43 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 16 | 4.43 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 16 | 4.43 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 16 | 4.43 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 16 | 4.43 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 16 | 4.43 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 5 | 4.43 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 5 | 4.43 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 5 | 4.43 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 1 | 4.43 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 1 | 4.43 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 19 | 4.43 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 3 | 4.43 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 3 | 4.43 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 2 | 4.43 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 13 | 4.43 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 4 | 4.43 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 3 | 4.43 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 12 | 4.43 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 4 | 4.43 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 4 | 4.43 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 17 | 4.43 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 1 | 4.43 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 15 | 4.43 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 15 | 4.43 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 7 | 4.43 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 18 | 4.43 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 13 | 4.43 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 5 | 4.43 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 4 | 4.43 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 4 | 4.43 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 4 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 4 | 4.43 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 4 | 4.43 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 4 | 4.43 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 3 | 4.43 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 1 | 4.43 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 1 | 4.43 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 13 | 4.43 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 13 | 4.43 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 17 | 4.43 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 1 | 4.43 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 1 | 4.43 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 1 | 4.43 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 7 | 4.43 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 7 | 4.43 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 7 | 4.43 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 7 | 4.43 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 7 | 4.43 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 7 | 4.43 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 17 | 4.43 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 17 | 4.43 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 4 | 4.43 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 4 | 4.43 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 4 | 4.43 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 10 | 4.43 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 3 | 4.43 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 9 | 4.43 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 2 | 4.43 |
| (1,7138) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 2 | 4.43 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 2 | 4.43 |
| (1,7138) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 2 | 4.43 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 2 | 4.43 |
| (1,7138) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 2 | 4.43 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 2 | 4.43 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 2 | 4.43 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 10 | 4.43 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 10 | 4.43 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 10 | 4.43 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 4.43 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 4.43 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 4.43 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 13 | 4.43 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 13 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 13 | 4.43 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 10 | 4.43 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 2 | 4.43 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 6 | 4.43 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 6 | 4.43 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 15 | 4.43 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 15 | 4.43 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 17 | 4.43 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 12 | 4.43 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 15 | 4.43 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 15 | 4.43 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 15 | 4.43 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 10 | 4.43 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 10 | 4.43 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 10 | 4.43 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 14 | 4.43 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 14 | 4.43 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 14 | 4.43 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 3 | 4.43 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 3 | 4.43 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 3 | 4.43 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 1 | 4.43 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 1 | 4.43 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 15 | 4.43 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 2 | 4.43 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 19 | 4.43 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 17 | 4.43 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 8 | 4.43 |
| (1,6582) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 1 | 4.43 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 13 | 4.43 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 17 | 4.43 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 17 | 4.43 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 17 | 4.43 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 3 | 4.43 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 6 | 4.43 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 12 | 4.43 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 17 | 4.43 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 17 | 4.43 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 17 | 4.43 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 9 | 4.43 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 11 | 4.43 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 20 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 18 | 4.43 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 18 | 4.43 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 18 | 4.43 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 10 | 4.43 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 7 | 4.43 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 7 | 4.43 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 7 | 4.43 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 4 | 4.43 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 4 | 4.43 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 4 | 4.43 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 14 | 4.43 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 12 | 4.43 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 5 | 4.43 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 5 | 4.43 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 7 | 4.43 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 7 | 4.43 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 1 | 4.43 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 1 | 4.43 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 1 | 4.43 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 1 | 4.43 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 1 | 4.43 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 1 | 4.43 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 13 | 4.43 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 15 | 4.43 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 19 | 4.43 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 6 | 4.43 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 6 | 4.43 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 10 | 4.43 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 10 | 4.43 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 15 | 4.43 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 15 | 4.43 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 15 | 4.43 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 1 | 4.43 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 1 | 4.43 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 1 | 4.43 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 5 | 4.43 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 17 | 4.43 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 17 | 4.43 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 17 | 4.43 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 3 | 4.43 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 3 | 4.43 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 3 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 2 | 4.43 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 2 | 4.43 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 2 | 4.43 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 19 | 4.43 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 19 | 4.43 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 19 | 4.43 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 2 | 4.43 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 2 | 4.43 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 2 | 4.43 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 8 | 4.43 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 8 | 4.43 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 8 | 4.43 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 18 | 4.43 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 18 | 4.43 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 18 | 4.43 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 8 | 4.43 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 8 | 4.43 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 8 | 4.43 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 8 | 4.43 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 8 | 4.43 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 8 | 4.43 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 8 | 4.43 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 8 | 4.43 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 8 | 4.43 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 8 | 4.43 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 8 | 4.43 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 8 | 4.43 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 13 | 4.43 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 16 | 4.43 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 3 | 4.43 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 8 | 4.43 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 17 | 4.43 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 2 | 4.43 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 2 | 4.43 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 5 | 4.43 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 15 | 4.43 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 15 | 4.43 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 15 | 4.43 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 5 | 4.43 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 5 | 4.43 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 3 | 4.43 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 3 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 3 | 4.43 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 8 | 4.43 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 8 | 4.43 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 8 | 4.43 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 18 | 4.43 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 13 | 4.43 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 13 | 4.43 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 13 | 4.43 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 9 | 4.43 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 9 | 4.43 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 9 | 4.43 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 9 | 4.43 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 9 | 4.43 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 9 | 4.43 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 9 | 4.43 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 9 | 4.43 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 9 | 4.43 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 13 | 4.43 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 20 | 4.43 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 3 | 4.43 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 12 | 4.43 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 19 | 4.43 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 10 | 4.43 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 10 | 4.43 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 10 | 4.43 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 14 | 4.43 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 9 | 4.43 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 9 | 4.43 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 10 | 4.43 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 12 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 15 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 15 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 15 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 15 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 15 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 15 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 16 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 16 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 16 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 16 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 16 | 4.43 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 16 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 9 | 4.43 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 3 | 4.43 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 19 | 4.43 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 4.43 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 4.43 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 4.43 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 4.43 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 12 | 4.43 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 12 | 4.43 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 12 | 4.43 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 12 | 4.43 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 18 | 4.43 |
| (1,4176) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 7 | 4.43 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 18 | 4.43 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 18 | 4.43 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 18 | 4.43 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 18 | 4.43 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 18 | 4.43 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 18 | 4.43 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 15 | 4.43 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 15 | 4.43 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 15 | 4.43 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 7 | 4.43 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 7 | 4.43 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 7 | 4.43 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 7 | 4.43 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 7 | 4.43 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 7 | 4.43 |
| (1,4122) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 4.43 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 5 | 4.43 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 5 | 4.43 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 17 | 4.43 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 17 | 4.43 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 16 | 4.43 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 18 | 4.43 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 8 | 4.43 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 8 | 4.43 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 16 | 4.43 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 16 | 4.43 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 4.43 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 14 | 4.43 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 14 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 3 | 4.43 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 13 | 4.43 |
| (1,3776) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 13 | 4.43 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 16 | 4.43 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 16 | 4.43 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 16 | 4.43 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 16 | 4.43 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 16 | 4.43 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 16 | 4.43 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 2 | 4.43 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 2 | 4.43 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 13 | 4.43 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 13 | 4.43 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 14 | 4.43 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 17 | 4.43 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 5 | 4.43 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 2 | 4.43 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 2 | 4.43 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 19 | 4.43 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 3 | 4.43 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 7 | 4.43 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 6 | 4.43 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 7 | 4.43 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 9 | 4.43 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 2 | 4.43 |
| (1,3236) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 2 | 4.43 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 2 | 4.43 |
| (1,3236) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 2 | 4.43 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 2 | 4.43 |
| (1,3236) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 2 | 4.43 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 2 | 4.43 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 2 | 4.43 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 10 | 4.43 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 10 | 4.43 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 10 | 4.43 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 4.43 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 4.43 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 4.43 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 13 | 4.43 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 13 | 4.43 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 13 | 4.43 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 10 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 2 | 4.43 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 6 | 4.43 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 6 | 4.43 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 15 | 4.43 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 15 | 4.43 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 15 | 4.43 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 17 | 4.43 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 12 | 4.43 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 15 | 4.43 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 15 | 4.43 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 15 | 4.43 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 10 | 4.43 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 10 | 4.43 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 10 | 4.43 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 14 | 4.43 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 14 | 4.43 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 14 | 4.43 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 3 | 4.43 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 3 | 4.43 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 3 | 4.43 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 1 | 4.43 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 1 | 4.43 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 15 | 4.43 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 2 | 4.43 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 19 | 4.43 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 17 | 4.43 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 8 | 4.43 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 13 | 4.43 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 17 | 4.43 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 17 | 4.43 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 17 | 4.43 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 3 | 4.43 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 6 | 4.43 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 12 | 4.43 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 17 | 4.43 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 17 | 4.43 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 17 | 4.43 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 5 | 4.43 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 5 | 4.43 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 5 | 4.43 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 13 | 4.43 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 13 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 13 | 4.43 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 9 | 4.43 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 11 | 4.43 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 20 | 4.43 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 18 | 4.43 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 18 | 4.43 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 18 | 4.43 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 10 | 4.43 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 7 | 4.43 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 7 | 4.43 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 7 | 4.43 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 4 | 4.43 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 4 | 4.43 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 4 | 4.43 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 14 | 4.43 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 12 | 4.43 |
| (1,1880) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 5 | 4.43 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 5 | 4.43 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 5 | 4.43 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 7 | 4.43 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 7 | 4.43 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 1 | 4.43 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 1 | 4.43 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 1 | 4.43 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 1 | 4.43 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 1 | 4.43 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 1 | 4.43 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 13 | 4.43 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 13 | 4.43 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 13 | 4.43 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 8 | 4.43 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 15 | 4.43 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 10 | 4.43 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 10 | 4.43 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 10 | 4.43 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 19 | 4.43 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 19 | 4.43 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 19 | 4.43 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 19 | 4.43 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 6 | 4.43 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 6 | 4.43 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 12 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 7 | 4.43 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 7 | 4.43 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 10 | 4.43 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 10 | 4.43 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 5 | 4.43 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 15 | 4.43 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 15 | 4.43 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 15 | 4.43 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 17 | 4.43 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 4.43 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 1 | 4.43 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 1 | 4.43 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 1 | 4.43 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 5 | 4.43 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 9 | 4.43 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 17 | 4.43 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 17 | 4.43 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 17 | 4.43 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 3 | 4.43 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 3 | 4.43 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 3 | 4.43 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 8 | 4.43 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 17 | 4.43 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 2 | 4.43 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 2 | 4.43 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 2 | 4.43 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 19 | 4.43 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 19 | 4.43 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 19 | 4.43 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 2 | 4.43 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 2 | 4.43 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 2 | 4.43 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 8 | 4.43 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 8 | 4.43 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 8 | 4.43 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 7 | 4.43 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 4 | 4.43 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 4 | 4.43 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 4 | 4.43 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 17 | 4.43 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 12 | 4.43 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 6 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,258) | 1:90:A:ASN:CB | 1:2:A:ALA:H | 5 | 4.42 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 17 | 4.42 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 11 | 4.42 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 11 | 4.42 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 15 | 4.42 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 15 | 4.42 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 15 | 4.42 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 15 | 4.42 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 11 | 4.42 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 11 | 4.42 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 17 | 4.42 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 17 | 4.42 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 2 | 4.42 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 2 | 4.42 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 2 | 4.42 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 2 | 4.42 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 13 | 4.42 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 13 | 4.42 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 13 | 4.42 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 13 | 4.42 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 16 | 4.42 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 16 | 4.42 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 18 | 4.42 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 18 | 4.42 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 19 | 4.42 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 19 | 4.42 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 11 | 4.42 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 11 | 4.42 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 11 | 4.42 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 11 | 4.42 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 15 | 4.42 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 15 | 4.42 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 20 | 4.42 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 20 | 4.42 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 20 | 4.42 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 20 | 4.42 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 5 | 4.42 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 5 | 4.42 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 5 | 4.42 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 5 | 4.42 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 5 | 4.42 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 5 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 7 | 4.42 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 7 | 4.42 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 20 | 4.42 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 20 | 4.42 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 17 | 4.42 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 17 | 4.42 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 11 | 4.42 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 11 | 4.42 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 11 | 4.42 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 11 | 4.42 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 11 | 4.42 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 11 | 4.42 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 2 | 4.42 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 2 | 4.42 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 2 | 4.42 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 2 | 4.42 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 2 | 4.42 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 2 | 4.42 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 14 | 4.42 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 14 | 4.42 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 3 | 4.42 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 3 | 4.42 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 13 | 4.42 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 13 | 4.42 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 8 | 4.42 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 8 | 4.42 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 19 | 4.42 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 19 | 4.42 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 3 | 4.42 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 3 | 4.42 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 13 | 4.42 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 13 | 4.42 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 1 | 4.42 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 1 | 4.42 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 10 | 4.42 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 10 | 4.42 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 18 | 4.42 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 18 | 4.42 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 18 | 4.42 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 18 | 4.42 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 6 | 4.42 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 6 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 20 | 4.42 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 20 | 4.42 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 14 | 4.42 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 14 | 4.42 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 5 | 4.42 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 5 | 4.42 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 16 | 4.42 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 16 | 4.42 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 9 | 4.42 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 9 | 4.42 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 4 | 4.42 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 4 | 4.42 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 4 | 4.42 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 4 | 4.42 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 17 | 4.42 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 17 | 4.42 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 17 | 4.42 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 17 | 4.42 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 9 | 4.42 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 9 | 4.42 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 6 | 4.42 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 6 | 4.42 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 9 | 4.42 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 9 | 4.42 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 15 | 4.42 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 15 | 4.42 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 3 | 4.42 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 3 | 4.42 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 17 | 4.42 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 17 | 4.42 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 18 | 4.42 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 18 | 4.42 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 11 | 4.42 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 11 | 4.42 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 20 | 4.42 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 20 | 4.42 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 20 | 4.42 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 20 | 4.42 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 20 | 4.42 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 20 | 4.42 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 17 | 4.42 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 17 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB1 | 18 | 4.42 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB2 | 18 | 4.42 |
| (1,8515) | 1:28:A:ILE:H | 1:140:A:ALA:HB3 | 18 | 4.42 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 16 | 4.42 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 2 | 4.42 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 15 | 4.42 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 4 | 4.42 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 4 | 4.42 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 4 | 4.42 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 19 | 4.42 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 19 | 4.42 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 19 | 4.42 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 13 | 4.42 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 13 | 4.42 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 2 | 4.42 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 10 | 4.42 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 10 | 4.42 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 10 | 4.42 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 17 | 4.42 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 17 | 4.42 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 17 | 4.42 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 15 | 4.42 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 6 | 4.42 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 6 | 4.42 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 1 | 4.42 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 1 | 4.42 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 4 | 4.42 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 17 | 4.42 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 17 | 4.42 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 17 | 4.42 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 2 | 4.42 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 13 | 4.42 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 7 | 4.42 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 14 | 4.42 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 14 | 4.42 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 14 | 4.42 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 6 | 4.42 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 1 | 4.42 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 1 | 4.42 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 1 | 4.42 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 9 | 4.42 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 9 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 9 | 4.42 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 12 | 4.42 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 12 | 4.42 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 12 | 4.42 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 16 | 4.42 |
| (1,8067) | 1:90:A:ASN:H | 1:93:A:ILE:H | 5 | 4.42 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 18 | 4.42 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 4 | 4.42 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 4 | 4.42 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 4 | 4.42 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 10 | 4.42 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 3 | 4.42 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 3 | 4.42 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 3 | 4.42 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 11 | 4.42 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 11 | 4.42 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 11 | 4.42 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 11 | 4.42 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 11 | 4.42 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 11 | 4.42 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 11 | 4.42 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 11 | 4.42 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 11 | 4.42 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 10 | 4.42 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 7 | 4.42 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 11 | 4.42 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 4 | 4.42 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 6 | 4.42 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 15 | 4.42 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 9 | 4.42 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 6 | 4.42 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG21 | 18 | 4.42 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG22 | 18 | 4.42 |
| (1,7871) | 1:63:A:LYS:H | 1:78:A:ILE:HG23 | 18 | 4.42 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 17 | 4.42 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 17 | 4.42 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 17 | 4.42 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 17 | 4.42 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 11 | 4.42 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 11 | 4.42 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 11 | 4.42 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 14 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 14 | 4.42 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 14 | 4.42 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 1 | 4.42 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 1 | 4.42 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 1 | 4.42 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 7 | 4.42 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 4 | 4.42 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 4 | 4.42 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 1 | 4.42 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 1 | 4.42 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 1 | 4.42 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 1 | 4.42 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 1 | 4.42 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 1 | 4.42 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 5 | 4.42 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 8 | 4.42 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 13 | 4.42 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 13 | 4.42 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 13 | 4.42 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 5 | 4.42 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 9 | 4.42 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 5 | 4.42 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 8 | 4.42 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 19 | 4.42 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 20 | 4.42 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 15 | 4.42 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 6 | 4.42 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 13 | 4.42 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 2 | 4.42 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 18 | 4.42 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 3 | 4.42 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 3 | 4.42 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 18 | 4.42 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 1 | 4.42 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 1 | 4.42 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 16 | 4.42 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 19 | 4.42 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 18 | 4.42 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 15 | 4.42 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 12 | 4.42 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 6 | 4.42 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 10 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 9 | 4.42 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 18 | 4.42 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 18 | 4.42 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 12 | 4.42 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 12 | 4.42 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 20 | 4.42 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 8 | 4.42 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 8 | 4.42 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 8 | 4.42 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 13 | 4.42 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 13 | 4.42 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 13 | 4.42 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 5 | 4.42 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 14 | 4.42 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 12 | 4.42 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 6 | 4.42 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 6 | 4.42 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 6 | 4.42 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 6 | 4.42 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 6 | 4.42 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 6 | 4.42 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 6 | 4.42 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 6 | 4.42 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 6 | 4.42 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 1 | 4.42 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 1 | 4.42 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 13 | 4.42 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 16 | 4.42 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 15 | 4.42 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 15 | 4.42 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 2 | 4.42 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 17 | 4.42 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 4 | 4.42 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 4 | 4.42 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 18 | 4.42 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 18 | 4.42 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 18 | 4.42 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 11 | 4.42 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 11 | 4.42 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 11 | 4.42 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 20 | 4.42 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 12 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 12 | 4.42 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 7 | 4.42 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 6 | 4.42 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 8 | 4.42 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 13 | 4.42 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 18 | 4.42 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 11 | 4.42 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 13 | 4.42 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 3 | 4.42 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 4 | 4.42 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 4 | 4.42 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 4 | 4.42 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 2 | 4.42 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 11 | 4.42 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 11 | 4.42 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 2 | 4.42 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 2 | 4.42 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 2 | 4.42 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 2 | 4.42 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 9 | 4.42 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 10 | 4.42 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 1 | 4.42 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 14 | 4.42 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 7 | 4.42 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 17 | 4.42 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 3 | 4.42 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 2 | 4.42 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 2 | 4.42 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 2 | 4.42 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 13 | 4.42 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 14 | 4.42 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 10 | 4.42 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 12 | 4.42 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 10 | 4.42 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 15 | 4.42 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 11 | 4.42 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 11 | 4.42 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 11 | 4.42 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 8 | 4.42 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 12 | 4.42 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 12 | 4.42 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 12 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 18 | 4.42 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 18 | 4.42 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 18 | 4.42 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 5 | 4.42 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 11 | 4.42 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 11 | 4.42 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 14 | 4.42 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 14 | 4.42 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 14 | 4.42 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 5 | 4.42 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 5 | 4.42 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 5 | 4.42 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 17 | 4.42 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 17 | 4.42 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 17 | 4.42 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 17 | 4.42 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 17 | 4.42 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 17 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 7 | 4.42 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 7 | 4.42 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 9 | 4.42 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 5 | 4.42 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 4 | 4.42 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 19 | 4.42 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 19 | 4.42 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 10 | 4.42 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 17 | 4.42 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 17 | 4.42 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 17 | 4.42 |
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 5 | 4.42 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 11 | 4.42 |
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 11 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5704) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 11 | 4.42 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 11 | 4.42 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 5 | 4.42 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 5 | 4.42 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 5 | 4.42 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 4 | 4.42 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 4 | 4.42 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 4 | 4.42 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 9 | 4.42 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 1 | 4.42 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 4 | 4.42 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 4 | 4.42 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 4 | 4.42 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 20 | 4.42 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 20 | 4.42 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 20 | 4.42 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 11 | 4.42 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 14 | 4.42 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 14 | 4.42 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 14 | 4.42 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 3 | 4.42 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 3 | 4.42 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 3 | 4.42 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 3 | 4.42 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 3 | 4.42 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 3 | 4.42 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 3 | 4.42 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 3 | 4.42 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 3 | 4.42 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 5 | 4.42 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 5 | 4.42 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 5 | 4.42 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 5 | 4.42 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 5 | 4.42 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 5 | 4.42 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 8 | 4.42 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 8 | 4.42 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 8 | 4.42 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 8 | 4.42 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 8 | 4.42 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 8 | 4.42 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 3 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 3 | 4.42 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 3 | 4.42 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 6 | 4.42 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 8 | 4.42 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 9 | 4.42 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 9 | 4.42 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 9 | 4.42 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 14 | 4.42 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 12 | 4.42 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 14 | 4.42 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 4 | 4.42 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 19 | 4.42 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 8 | 4.42 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 8 | 4.42 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 7 | 4.42 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 7 | 4.42 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 7 | 4.42 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 13 | 4.42 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 19 | 4.42 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 19 | 4.42 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 19 | 4.42 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 9 | 4.42 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 3 | 4.42 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 9 | 4.42 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 9 | 4.42 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 9 | 4.42 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 4 | 4.42 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 4 | 4.42 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 4 | 4.42 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 4 | 4.42 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 4 | 4.42 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 4 | 4.42 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 4 | 4.42 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 4 | 4.42 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 4 | 4.42 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 16 | 4.42 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 16 | 4.42 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 16 | 4.42 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 17 | 4.42 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 17 | 4.42 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 17 | 4.42 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 6 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 7 | 4.42 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 7 | 4.42 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 7 | 4.42 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 19 | 4.42 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 18 | 4.42 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 4 | 4.42 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 4 | 4.42 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 4 | 4.42 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 18 | 4.42 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 18 | 4.42 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 18 | 4.42 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 19 | 4.42 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 19 | 4.42 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 7 | 4.42 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 7 | 4.42 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 7 | 4.42 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 12 | 4.42 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 18 | 4.42 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 18 | 4.42 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 15 | 4.42 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 15 | 4.42 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 8 | 4.42 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 8 | 4.42 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 8 | 4.42 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 8 | 4.42 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 8 | 4.42 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 8 | 4.42 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 15 | 4.42 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 15 | 4.42 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 15 | 4.42 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 15 | 4.42 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 9 | 4.42 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 19 | 4.42 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 19 | 4.42 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 4 | 4.42 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 4 | 4.42 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 4 | 4.42 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 4 | 4.42 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 15 | 4.42 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 15 | 4.42 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 4 | 4.42 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 4 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 4 | 4.42 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 4 | 4.42 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 4 | 4.42 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 4 | 4.42 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 7 | 4.42 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 7 | 4.42 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 6 | 4.42 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 16 | 4.42 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 11 | 4.42 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 11 | 4.42 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 11 | 4.42 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 11 | 4.42 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 11 | 4.42 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 11 | 4.42 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 2 | 4.42 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 2 | 4.42 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 2 | 4.42 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 2 | 4.42 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 2 | 4.42 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 2 | 4.42 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 8 | 4.42 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 8 | 4.42 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 7 | 4.42 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 7 | 4.42 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 7 | 4.42 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 7 | 4.42 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 7 | 4.42 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 7 | 4.42 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 3 | 4.42 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 3 | 4.42 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 8 | 4.42 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 13 | 4.42 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 10 | 4.42 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 10 | 4.42 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 4.42 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 11 | 4.42 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 14 | 4.42 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 14 | 4.42 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 14 | 4.42 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 6 | 4.42 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 6 | 4.42 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 14 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 14 | 4.42 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 14 | 4.42 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 4 | 4.42 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 5 | 4.42 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 5 | 4.42 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 16 | 4.42 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 16 | 4.42 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 17 | 4.42 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 17 | 4.42 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 17 | 4.42 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 17 | 4.42 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 9 | 4.42 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 9 | 4.42 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 2 | 4.42 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 16 | 4.42 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 3 | 4.42 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 3 | 4.42 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 14 | 4.42 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 14 | 4.42 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 11 | 4.42 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 17 | 4.42 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 17 | 4.42 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 16 | 4.42 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 17 | 4.42 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 17 | 4.42 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 8 | 4.42 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 8 | 4.42 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 8 | 4.42 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 13 | 4.42 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 13 | 4.42 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 13 | 4.42 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 5 | 4.42 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 14 | 4.42 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 12 | 4.42 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 6 | 4.42 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 6 | 4.42 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 6 | 4.42 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 6 | 4.42 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 6 | 4.42 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 6 | 4.42 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 6 | 4.42 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 6 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 6 | 4.42 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 4 | 4.42 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 1 | 4.42 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 1 | 4.42 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 3 | 4.42 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 13 | 4.42 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 16 | 4.42 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 15 | 4.42 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 15 | 4.42 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 2 | 4.42 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 17 | 4.42 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 4 | 4.42 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 4 | 4.42 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 18 | 4.42 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 18 | 4.42 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 18 | 4.42 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 11 | 4.42 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 11 | 4.42 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 11 | 4.42 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 20 | 4.42 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 12 | 4.42 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 12 | 4.42 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 7 | 4.42 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 6 | 4.42 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 8 | 4.42 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 13 | 4.42 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 18 | 4.42 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 18 | 4.42 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 16 | 4.42 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 11 | 4.42 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 13 | 4.42 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 3 | 4.42 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 4 | 4.42 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 4 | 4.42 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 4 | 4.42 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 2 | 4.42 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 11 | 4.42 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 11 | 4.42 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 2 | 4.42 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 2 | 4.42 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 2 | 4.42 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 2 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 9 | 4.42 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 10 | 4.42 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 1 | 4.42 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 14 | 4.42 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 9 | 4.42 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 9 | 4.42 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 9 | 4.42 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 9 | 4.42 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 9 | 4.42 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 9 | 4.42 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 15 | 4.42 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 7 | 4.42 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 17 | 4.42 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 3 | 4.42 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 2 | 4.42 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 2 | 4.42 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 2 | 4.42 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 13 | 4.42 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 14 | 4.42 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 9 | 4.42 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 10 | 4.42 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 9 | 4.42 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 9 | 4.42 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 9 | 4.42 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 2 | 4.42 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 12 | 4.42 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 10 | 4.42 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 9 | 4.42 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 18 | 4.42 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 6 | 4.42 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 6 | 4.42 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 6 | 4.42 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 15 | 4.42 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 11 | 4.42 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 11 | 4.42 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 11 | 4.42 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 1 | 4.42 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 8 | 4.42 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 8 | 4.42 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 12 | 4.42 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 12 | 4.42 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 12 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 18 | 4.42 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 18 | 4.42 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 18 | 4.42 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 5 | 4.42 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 18 | 4.42 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 11 | 4.42 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 11 | 4.42 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 14 | 4.42 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 14 | 4.42 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 14 | 4.42 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 9 | 4.42 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 9 | 4.42 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 9 | 4.42 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 5 | 4.42 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 5 | 4.42 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 5 | 4.42 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 3 | 4.42 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 3 | 4.42 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 3 | 4.42 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 6 | 4.42 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 6 | 4.42 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 6 | 4.42 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 17 | 4.42 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 17 | 4.42 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 17 | 4.42 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 17 | 4.42 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 17 | 4.42 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 17 | 4.42 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 17 | 4.42 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 19 | 4.42 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 19 | 4.42 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 19 | 4.42 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 19 | 4.42 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 19 | 4.42 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 19 | 4.42 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 9 | 4.42 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 5 | 4.42 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 4 | 4.42 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 13 | 4.42 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 19 | 4.42 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 19 | 4.42 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 17 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 10 | 4.42 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 17 | 4.42 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 17 | 4.42 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 17 | 4.42 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 10 | 4.42 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 5 | 4.42 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 2 | 4.42 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 2 | 4.42 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 2 | 4.42 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 14 | 4.42 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 10 | 4.42 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 11 | 4.42 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 11 | 4.42 |
| (1,982) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 11 | 4.42 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 11 | 4.42 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 11 | 4.42 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 6 | 4.42 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 6 | 4.42 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 6 | 4.42 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 4 | 4.42 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 4 | 4.42 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 4 | 4.42 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 4 | 4.42 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 4 | 4.42 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 4 | 4.42 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 5 | 4.42 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 5 | 4.42 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 5 | 4.42 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 5 | 4.42 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 5 | 4.42 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 5 | 4.42 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 4 | 4.42 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 4 | 4.42 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 4 | 4.42 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 9 | 4.42 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 1 | 4.42 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 4 | 4.42 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 4 | 4.42 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 4 | 4.42 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 20 | 4.42 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 20 | 4.42 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 20 | 4.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 11 | 4.42 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 4 | 4.42 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 14 | 4.42 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 14 | 4.42 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 14 | 4.42 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 3 | 4.42 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 3 | 4.42 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 3 | 4.42 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 3 | 4.42 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 3 | 4.42 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 3 | 4.42 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 3 | 4.42 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 3 | 4.42 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 3 | 4.42 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 5 | 4.42 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 5 | 4.42 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 5 | 4.42 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 5 | 4.42 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 5 | 4.42 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 5 | 4.42 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 20 | 4.42 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 20 | 4.42 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 20 | 4.42 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 8 | 4.42 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 8 | 4.42 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 8 | 4.42 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 8 | 4.42 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 8 | 4.42 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 8 | 4.42 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 13 | 4.41 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 13 | 4.41 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 9 | 4.41 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 9 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 8 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 8 | 4.41 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 8 | 4.41 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 16 | 4.41 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 16 | 4.41 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 16 | 4.41 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 16 | 4.41 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 19 | 4.41 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 19 | 4.41 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 9 | 4.41 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 9 | 4.41 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 8 | 4.41 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 8 | 4.41 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 1 | 4.41 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 1 | 4.41 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 1 | 4.41 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 1 | 4.41 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 16 | 4.41 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 16 | 4.41 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 16 | 4.41 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 16 | 4.41 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 5 | 4.41 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 5 | 4.41 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 1 | 4.41 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 1 | 4.41 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 6 | 4.41 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 6 | 4.41 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 13 | 4.41 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 13 | 4.41 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 18 | 4.41 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 18 | 4.41 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 9 | 4.41 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 9 | 4.41 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 19 | 4.41 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 19 | 4.41 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 5 | 4.41 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 5 | 4.41 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 5 | 4.41 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 5 | 4.41 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 5 | 4.41 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 5 | 4.41 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 12 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 12 | 4.41 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 12 | 4.41 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 12 | 4.41 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 12 | 4.41 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 12 | 4.41 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 1 | 4.41 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 1 | 4.41 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 14 | 4.41 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 14 | 4.41 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 14 | 4.41 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 14 | 4.41 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 14 | 4.41 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 14 | 4.41 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 19 | 4.41 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 19 | 4.41 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 19 | 4.41 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 19 | 4.41 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 18 | 4.41 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 18 | 4.41 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 18 | 4.41 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 18 | 4.41 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 18 | 4.41 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 18 | 4.41 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 2 | 4.41 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 2 | 4.41 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 2 | 4.41 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 2 | 4.41 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 19 | 4.41 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 19 | 4.41 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 19 | 4.41 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 19 | 4.41 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 19 | 4.41 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 19 | 4.41 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 13 | 4.41 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 13 | 4.41 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 8 | 4.41 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 8 | 4.41 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 10 | 4.41 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 10 | 4.41 |
| (1,8507) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 10 | 4.41 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 1 | 4.41 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 1 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 4 | 4.41 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 16 | 4.41 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 17 | 4.41 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 17 | 4.41 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 17 | 4.41 |
| (1,8426) | 1:143:A:THR:H | 1:145:A:GLU:H | 19 | 4.41 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 14 | 4.41 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 14 | 4.41 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 14 | 4.41 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 6 | 4.41 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 15 | 4.41 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 6 | 4.41 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 6 | 4.41 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 6 | 4.41 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 17 | 4.41 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 17 | 4.41 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 14 | 4.41 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 14 | 4.41 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 14 | 4.41 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 19 | 4.41 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 4 | 4.41 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 4 | 4.41 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 4 | 4.41 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 11 | 4.41 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 11 | 4.41 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 11 | 4.41 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 20 | 4.41 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 18 | 4.41 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 12 | 4.41 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 18 | 4.41 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 11 | 4.41 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 11 | 4.41 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 1 | 4.41 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 5 | 4.41 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 5 | 4.41 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 5 | 4.41 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 2 | 4.41 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 19 | 4.41 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 19 | 4.41 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 19 | 4.41 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 13 | 4.41 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 19 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 5 | 4.41 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 1 | 4.41 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 1 | 4.41 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 1 | 4.41 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 9 | 4.41 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 3 | 4.41 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 3 | 4.41 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 3 | 4.41 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 7 | 4.41 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 7 | 4.41 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 7 | 4.41 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 7 | 4.41 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 3 | 4.41 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 18 | 4.41 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 18 | 4.41 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 18 | 4.41 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 5 | 4.41 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 9 | 4.41 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 1 | 4.41 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 1 | 4.41 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 1 | 4.41 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 2 | 4.41 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 11 | 4.41 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 11 | 4.41 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 11 | 4.41 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 19 | 4.41 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 19 | 4.41 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 19 | 4.41 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 17 | 4.41 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 14 | 4.41 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 17 | 4.41 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 8 | 4.41 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 13 | 4.41 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 18 | 4.41 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 1 | 4.41 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 17 | 4.41 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 15 | 4.41 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 15 | 4.41 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 15 | 4.41 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 7 | 4.41 |
| (1,7638) | 1:27:A:HIS:H | 1:28:A:ILE:HG12 | 1 | 4.41 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 12 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 8 | 4.41 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 4 | 4.41 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 8 | 4.41 |
| (1,7609) | 1:26:A:ASN:H | 1:30:A:ASN:H | 7 | 4.41 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 5 | 4.41 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 5 | 4.41 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 18 | 4.41 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 18 | 4.41 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 15 | 4.41 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 15 | 4.41 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 6 | 4.41 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 6 | 4.41 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 11 | 4.41 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 11 | 4.41 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 11 | 4.41 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 16 | 4.41 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 11 | 4.41 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 11 | 4.41 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 11 | 4.41 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 5 | 4.41 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 13 | 4.41 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 8 | 4.41 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 7 | 4.41 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 16 | 4.41 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 7 | 4.41 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 15 | 4.41 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 6 | 4.41 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 3 | 4.41 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 4 | 4.41 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 4 | 4.41 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 4 | 4.41 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 7 | 4.41 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 11 | 4.41 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 7 | 4.41 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 12 | 4.41 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 8 | 4.41 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 13 | 4.41 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 17 | 4.41 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 18 | 4.41 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 18 | 4.41 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 18 | 4.41 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 18 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 9 | 4.41 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 19 | 4.41 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 19 | 4.41 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 19 | 4.41 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 5 | 4.41 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 5 | 4.41 |
| (1,7084) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 5 | 4.41 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 11 | 4.41 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 12 | 4.41 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 18 | 4.41 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 5 | 4.41 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 15 | 4.41 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 19 | 4.41 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 19 | 4.41 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 19 | 4.41 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 3 | 4.41 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 3 | 4.41 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 3 | 4.41 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 16 | 4.41 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 13 | 4.41 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 11 | 4.41 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 11 | 4.41 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 11 | 4.41 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 11 | 4.41 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 6 | 4.41 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 6 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 11 | 4.41 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 11 | 4.41 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 15 | 4.41 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 8 | 4.41 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 8 | 4.41 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 8 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 8 | 4.41 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 7 | 4.41 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 7 | 4.41 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 7 | 4.41 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 7 | 4.41 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 7 | 4.41 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 7 | 4.41 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 7 | 4.41 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 7 | 4.41 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 4 | 4.41 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 4 | 4.41 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 4 | 4.41 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 4 | 4.41 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 4 | 4.41 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 4 | 4.41 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 1 | 4.41 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 13 | 4.41 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 12 | 4.41 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 12 | 4.41 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 12 | 4.41 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 18 | 4.41 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 18 | 4.41 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 18 | 4.41 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 2 | 4.41 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 6 | 4.41 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 17 | 4.41 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 16 | 4.41 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 17 | 4.41 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 17 | 4.41 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 17 | 4.41 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 11 | 4.41 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 6 | 4.41 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 6 | 4.41 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 7 | 4.41 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 16 | 4.41 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 16 | 4.41 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 16 | 4.41 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 15 | 4.41 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 15 | 4.41 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 16 | 4.41 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 16 | 4.41 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 16 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 7 | 4.41 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 1 | 4.41 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 1 | 4.41 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 1 | 4.41 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 3 | 4.41 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 15 | 4.41 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 15 | 4.41 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 19 | 4.41 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 8 | 4.41 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 8 | 4.41 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 8 | 4.41 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 12 | 4.41 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 12 | 4.41 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 12 | 4.41 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 11 | 4.41 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 11 | 4.41 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 11 | 4.41 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 16 | 4.41 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 20 | 4.41 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 11 | 4.41 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 11 | 4.41 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 11 | 4.41 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 14 | 4.41 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 14 | 4.41 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 14 | 4.41 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 14 | 4.41 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 14 | 4.41 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 14 | 4.41 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 9 | 4.41 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 9 | 4.41 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 9 | 4.41 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 7 | 4.41 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 7 | 4.41 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 7 | 4.41 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 19 | 4.41 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 19 | 4.41 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 19 | 4.41 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 5 | 4.41 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 4.41 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 11 | 4.41 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 16 | 4.41 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 7 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 20 | 4.41 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 19 | 4.41 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 9 | 4.41 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 4 | 4.41 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 9 | 4.41 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 20 | 4.41 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 7 | 4.41 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 10 | 4.41 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 10 | 4.41 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 10 | 4.41 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 19 | 4.41 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 19 | 4.41 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 19 | 4.41 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 8 | 4.41 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 9 | 4.41 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 12 | 4.41 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 12 | 4.41 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 12 | 4.41 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 4 | 4.41 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 4 | 4.41 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 4 | 4.41 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 9 | 4.41 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 9 | 4.41 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 9 | 4.41 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 14 | 4.41 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 14 | 4.41 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 14 | 4.41 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 19 | 4.41 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 13 | 4.41 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 13 | 4.41 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 13 | 4.41 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 5 | 4.41 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 19 | 4.41 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 19 | 4.41 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 19 | 4.41 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 6 | 4.41 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 6 | 4.41 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 6 | 4.41 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 19 | 4.41 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 5 | 4.41 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 6 | 4.41 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 15 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 15 | 4.41 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 15 | 4.41 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 15 | 4.41 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 15 | 4.41 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 18 | 4.41 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 3 | 4.41 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 17 | 4.41 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 18 | 4.41 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 1 | 4.41 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 1 | 4.41 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 6 | 4.41 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 6 | 4.41 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 8 | 4.41 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 8 | 4.41 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 7 | 4.41 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 18 | 4.41 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 18 | 4.41 |
| (1,3916) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 18 | 4.41 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 3 | 4.41 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 4.41 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 4.41 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 4.41 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 12 | 4.41 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 8 | 4.41 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 8 | 4.41 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 8 | 4.41 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 14 | 4.41 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 14 | 4.41 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 14 | 4.41 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 14 | 4.41 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 14 | 4.41 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 14 | 4.41 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 18 | 4.41 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 18 | 4.41 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 13 | 4.41 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 10 | 4.41 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 15 | 4.41 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 15 | 4.41 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 1 | 4.41 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 1 | 4.41 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 5 | 4.41 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 14 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 18 | 4.41 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 18 | 4.41 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 18 | 4.41 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 18 | 4.41 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 9 | 4.41 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 1 | 4.41 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 9 | 4.41 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 9 | 4.41 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 19 | 4.41 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 19 | 4.41 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 19 | 4.41 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 3 | 4.41 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 3 | 4.41 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 3 | 4.41 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 5 | 4.41 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 5 | 4.41 |
| (1,3152) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 5 | 4.41 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 3 | 4.41 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 11 | 4.41 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 12 | 4.41 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 8 | 4.41 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 18 | 4.41 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 5 | 4.41 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 15 | 4.41 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 19 | 4.41 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 19 | 4.41 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 19 | 4.41 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 3 | 4.41 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 3 | 4.41 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 3 | 4.41 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 16 | 4.41 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 13 | 4.41 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 11 | 4.41 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 11 | 4.41 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 11 | 4.41 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 11 | 4.41 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 6 | 4.41 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 6 | 4.41 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 15 | 4.41 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 6 | 4.41 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 6 | 4.41 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 6 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 3 | 4.41 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 7 | 4.41 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 7 | 4.41 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 4 | 4.41 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 4 | 4.41 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 4 | 4.41 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 4 | 4.41 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 4 | 4.41 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 4 | 4.41 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 1 | 4.41 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 13 | 4.41 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 12 | 4.41 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 12 | 4.41 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 12 | 4.41 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 18 | 4.41 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 18 | 4.41 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 18 | 4.41 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 2 | 4.41 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 6 | 4.41 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 17 | 4.41 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 16 | 4.41 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 1 | 4.41 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 1 | 4.41 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 1 | 4.41 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 17 | 4.41 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 17 | 4.41 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 17 | 4.41 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 11 | 4.41 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 19 | 4.41 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 6 | 4.41 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 6 | 4.41 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 7 | 4.41 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 16 | 4.41 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 16 | 4.41 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 16 | 4.41 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 15 | 4.41 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 15 | 4.41 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 6 | 4.41 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 5 | 4.41 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 4 | 4.41 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 7 | 4.41 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 1 | 4.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 1 | 4.41 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 1 | 4.41 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 3 | 4.41 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 5 | 4.41 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 15 | 4.41 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 15 | 4.41 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 19 | 4.41 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 3 | 4.41 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 11 | 4.41 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 8 | 4.41 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 8 | 4.41 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 8 | 4.41 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 12 | 4.41 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 12 | 4.41 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 12 | 4.41 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 14 | 4.41 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 5 | 4.41 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 17 | 4.41 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 14 | 4.41 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 11 | 4.41 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 11 | 4.41 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 11 | 4.41 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 16 | 4.41 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 20 | 4.41 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 4 | 4.41 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 11 | 4.41 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 11 | 4.41 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 11 | 4.41 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 14 | 4.41 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 14 | 4.41 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 14 | 4.41 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 14 | 4.41 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 14 | 4.41 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 14 | 4.41 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 11 | 4.41 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 11 | 4.41 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 11 | 4.41 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 19 | 4.41 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 15 | 4.4 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 2 | 4.4 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 8 | 4.4 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 1 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 17 | 4.4 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 6 | 4.4 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 3 | 4.4 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 3 | 4.4 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 19 | 4.4 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 19 | 4.4 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 3 | 4.4 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 3 | 4.4 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 3 | 4.4 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 3 | 4.4 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 3 | 4.4 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 3 | 4.4 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 4 | 4.4 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 4 | 4.4 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 4 | 4.4 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 4 | 4.4 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 4 | 4.4 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 4 | 4.4 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 9 | 4.4 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 9 | 4.4 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 9 | 4.4 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 9 | 4.4 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 20 | 4.4 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 20 | 4.4 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 1 | 4.4 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 1 | 4.4 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 1 | 4.4 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 1 | 4.4 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 1 | 4.4 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 1 | 4.4 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 16 | 4.4 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 16 | 4.4 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 6 | 4.4 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 6 | 4.4 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 18 | 4.4 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 18 | 4.4 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 17 | 4.4 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 17 | 4.4 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 19 | 4.4 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 19 | 4.4 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 19 | 4.4 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 19 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 19 | 4.4 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 19 | 4.4 |
| (1,9296) | 1:104:A:GLU:HB2 | 1:106:A:LEU:H | 19 | 4.4 |
| (1,9296) | 1:104:A:GLU:HB3 | 1:106:A:LEU:H | 19 | 4.4 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 11 | 4.4 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 11 | 4.4 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 11 | 4.4 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 11 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 4 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 4 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 4 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 4 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 5 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 5 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 5 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 5 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 9 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 9 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 9 | 4.4 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 9 | 4.4 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 17 | 4.4 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 17 | 4.4 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 4.4 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 4.4 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 4.4 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 4.4 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 15 | 4.4 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 15 | 4.4 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 1 | 4.4 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 1 | 4.4 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 18 | 4.4 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 18 | 4.4 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 18 | 4.4 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 18 | 4.4 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 18 | 4.4 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 18 | 4.4 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 18 | 4.4 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 18 | 4.4 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 19 | 4.4 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 19 | 4.4 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 12 | 4.4 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 12 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 10 | 4.4 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 10 | 4.4 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 17 | 4.4 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 17 | 4.4 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 2 | 4.4 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 2 | 4.4 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 7 | 4.4 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 7 | 4.4 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 8 | 4.4 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 8 | 4.4 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 8 | 4.4 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 8 | 4.4 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 8 | 4.4 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 8 | 4.4 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 3 | 4.4 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 3 | 4.4 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 5 | 4.4 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 5 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 1 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 1 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 1 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 1 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 11 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 11 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 11 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 11 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 19 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 19 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 19 | 4.4 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 19 | 4.4 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 8 | 4.4 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 8 | 4.4 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 17 | 4.4 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 17 | 4.4 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 3 | 4.4 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 3 | 4.4 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 7 | 4.4 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 7 | 4.4 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 7 | 4.4 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 7 | 4.4 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 7 | 4.4 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 7 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 2 | 4.4 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 2 | 4.4 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 10 | 4.4 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 10 | 4.4 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 14 | 4.4 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 14 | 4.4 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 14 | 4.4 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 14 | 4.4 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 14 | 4.4 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 14 | 4.4 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 15 | 4.4 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 15 | 4.4 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 11 | 4.4 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 11 | 4.4 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 7 | 4.4 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 7 | 4.4 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 7 | 4.4 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 2 | 4.4 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 18 | 4.4 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 6 | 4.4 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 15 | 4.4 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 12 | 4.4 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 6 | 4.4 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 3 | 4.4 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 3 | 4.4 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 3 | 4.4 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 16 | 4.4 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 16 | 4.4 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 16 | 4.4 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 2 | 4.4 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 2 | 4.4 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 5 | 4.4 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 7 | 4.4 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 11 | 4.4 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 15 | 4.4 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 13 | 4.4 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 3 | 4.4 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 9 | 4.4 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 2 | 4.4 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 16 | 4.4 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 16 | 4.4 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 6 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 3 | 4.4 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 3 | 4.4 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 7 | 4.4 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 7 | 4.4 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 7 | 4.4 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 11 | 4.4 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 11 | 4.4 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 11 | 4.4 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 12 | 4.4 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 12 | 4.4 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 12 | 4.4 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 10 | 4.4 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 10 | 4.4 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 10 | 4.4 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 10 | 4.4 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 11 | 4.4 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG21 | 19 | 4.4 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG22 | 19 | 4.4 |
| (1,7934) | 1:71:A:SER:H | 1:78:A:ILE:HG23 | 19 | 4.4 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 7 | 4.4 |
| (1,7906) | 1:68:A:ARG:H | 1:68:A:ARG:HD3 | 6 | 4.4 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 18 | 4.4 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 2 | 4.4 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 2 | 4.4 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 4 | 4.4 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 4 | 4.4 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 4 | 4.4 |
| (1,7815) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HB | 8 | 4.4 |
| (1,7815) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HB | 8 | 4.4 |
| (1,7815) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HB | 8 | 4.4 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 12 | 4.4 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 18 | 4.4 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 15 | 4.4 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 11 | 4.4 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 1 | 4.4 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 1 | 4.4 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 1 | 4.4 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 3 | 4.4 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 2 | 4.4 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 2 | 4.4 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 2 | 4.4 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 2 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 2 | 4.4 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 2 | 4.4 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 14 | 4.4 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 14 | 4.4 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 4 | 4.4 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 1 | 4.4 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 1 | 4.4 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 2 | 4.4 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 2 | 4.4 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 15 | 4.4 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 9 | 4.4 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 6 | 4.4 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 6 | 4.4 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 5 | 4.4 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 18 | 4.4 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 16 | 4.4 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 16 | 4.4 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 10 | 4.4 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 16 | 4.4 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 6 | 4.4 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 9 | 4.4 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 18 | 4.4 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 18 | 4.4 |
| (1,7461) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 18 | 4.4 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 16 | 4.4 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 10 | 4.4 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 10 | 4.4 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 10 | 4.4 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 12 | 4.4 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 6 | 4.4 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 17 | 4.4 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 12 | 4.4 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 16 | 4.4 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 18 | 4.4 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 14 | 4.4 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 16 | 4.4 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 1 | 4.4 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 18 | 4.4 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 5 | 4.4 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 5 | 4.4 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 5 | 4.4 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 8 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 19 | 4.4 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 2 | 4.4 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 2 | 4.4 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 2 | 4.4 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 2 | 4.4 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 2 | 4.4 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 13 | 4.4 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 13 | 4.4 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 18 | 4.4 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 3 | 4.4 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 3 | 4.4 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 16 | 4.4 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 5 | 4.4 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 5 | 4.4 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 5 | 4.4 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 5 | 4.4 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 19 | 4.4 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 12 | 4.4 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 18 | 4.4 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 18 | 4.4 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 18 | 4.4 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 8 | 4.4 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 19 | 4.4 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 9 | 4.4 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 9 | 4.4 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 8 | 4.4 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 13 | 4.4 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 14 | 4.4 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 11 | 4.4 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 11 | 4.4 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 11 | 4.4 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 14 | 4.4 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 1 | 4.4 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 11 | 4.4 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 15 | 4.4 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 17 | 4.4 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 15 | 4.4 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 3 | 4.4 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 13 | 4.4 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 17 | 4.4 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 15 | 4.4 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 15 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 3 | 4.4 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 3 | 4.4 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 3 | 4.4 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 3 | 4.4 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 3 | 4.4 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 6 | 4.4 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 6 | 4.4 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 16 | 4.4 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 13 | 4.4 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 6 | 4.4 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 6 | 4.4 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 6 | 4.4 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 3 | 4.4 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 3 | 4.4 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 3 | 4.4 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 3 | 4.4 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 3 | 4.4 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 3 | 4.4 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 1 | 4.4 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 4 | 4.4 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 7 | 4.4 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 3 | 4.4 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 3 | 4.4 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 3 | 4.4 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 14 | 4.4 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 14 | 4.4 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 14 | 4.4 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 1 | 4.4 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 1 | 4.4 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 1 | 4.4 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 9 | 4.4 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 9 | 4.4 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 9 | 4.4 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 14 | 4.4 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 14 | 4.4 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 14 | 4.4 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 16 | 4.4 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 16 | 4.4 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 16 | 4.4 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 1 | 4.4 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 1 | 4.4 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 1 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 10 | 4.4 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 18 | 4.4 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 8 | 4.4 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 8 | 4.4 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 8 | 4.4 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 8 | 4.4 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 8 | 4.4 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 8 | 4.4 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 8 | 4.4 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 8 | 4.4 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 8 | 4.4 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 10 | 4.4 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 16 | 4.4 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 1 | 4.4 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 7 | 4.4 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 10 | 4.4 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 19 | 4.4 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 15 | 4.4 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 1 | 4.4 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 9 | 4.4 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 9 | 4.4 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 9 | 4.4 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 6 | 4.4 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 17 | 4.4 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 16 | 4.4 |
| (1,4956) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 15 | 4.4 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 3 | 4.4 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 1 | 4.4 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 1 | 4.4 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 20 | 4.4 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 20 | 4.4 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 18 | 4.4 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 18 | 4.4 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 18 | 4.4 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 4 | 4.4 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 4 | 4.4 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 4 | 4.4 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 7 | 4.4 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 17 | 4.4 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 8 | 4.4 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 8 | 4.4 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 20 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 3 | 4.4 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 3 | 4.4 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 3 | 4.4 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 3 | 4.4 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 3 | 4.4 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 3 | 4.4 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 18 | 4.4 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 4 | 4.4 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 4 | 4.4 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 4 | 4.4 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 4 | 4.4 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 4 | 4.4 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 4 | 4.4 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 14 | 4.4 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 10 | 4.4 |
| (1,4436) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 10 | 4.4 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 1 | 4.4 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 1 | 4.4 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 1 | 4.4 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 1 | 4.4 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 8 | 4.4 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 1 | 4.4 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 1 | 4.4 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 7 | 4.4 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 7 | 4.4 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 7 | 4.4 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 20 | 4.4 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 20 | 4.4 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 20 | 4.4 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 2 | 4.4 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 2 | 4.4 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 2 | 4.4 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 2 | 4.4 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 18 | 4.4 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 18 | 4.4 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 18 | 4.4 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 18 | 4.4 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 11 | 4.4 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 11 | 4.4 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 11 | 4.4 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 17 | 4.4 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 17 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 4.4 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 4.4 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 4.4 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 4.4 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 15 | 4.4 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 15 | 4.4 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 1 | 4.4 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 1 | 4.4 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 10 | 4.4 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 3 | 4.4 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 3 | 4.4 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 3 | 4.4 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 15 | 4.4 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 12 | 4.4 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 12 | 4.4 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 10 | 4.4 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 10 | 4.4 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 17 | 4.4 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 17 | 4.4 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 11 | 4.4 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 11 | 4.4 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 11 | 4.4 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 2 | 4.4 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 2 | 4.4 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 10 | 4.4 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 11 | 4.4 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 13 | 4.4 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 19 | 4.4 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 17 | 4.4 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 17 | 4.4 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 17 | 4.4 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 8 | 4.4 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 8 | 4.4 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 8 | 4.4 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 8 | 4.4 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 8 | 4.4 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 8 | 4.4 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 15 | 4.4 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 15 | 4.4 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 15 | 4.4 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 8 | 4.4 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 8 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 8 | 4.4 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 8 | 4.4 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 16 | 4.4 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 16 | 4.4 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 19 | 4.4 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 9 | 4.4 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 17 | 4.4 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 17 | 4.4 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 17 | 4.4 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 17 | 4.4 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 15 | 4.4 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 15 | 4.4 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 7 | 4.4 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 7 | 4.4 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 7 | 4.4 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 7 | 4.4 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 7 | 4.4 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 7 | 4.4 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 8 | 4.4 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 4.4 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 8 | 4.4 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 8 | 4.4 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 4.4 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 8 | 4.4 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 15 | 4.4 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 15 | 4.4 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 4.4 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 18 | 4.4 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 5 | 4.4 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 5 | 4.4 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 5 | 4.4 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 1 | 4.4 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 1 | 4.4 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 3 | 4.4 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 8 | 4.4 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 19 | 4.4 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 2 | 4.4 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 2 | 4.4 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 2 | 4.4 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 2 | 4.4 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 2 | 4.4 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 17 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 17 | 4.4 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 17 | 4.4 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 13 | 4.4 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 13 | 4.4 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 18 | 4.4 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 11 | 4.4 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 3 | 4.4 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 3 | 4.4 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 16 | 4.4 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 5 | 4.4 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 7 | 4.4 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 5 | 4.4 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 5 | 4.4 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 5 | 4.4 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 10 | 4.4 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 10 | 4.4 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 10 | 4.4 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 10 | 4.4 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 10 | 4.4 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 10 | 4.4 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 19 | 4.4 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 2 | 4.4 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 2 | 4.4 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 5 | 4.4 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 12 | 4.4 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 18 | 4.4 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 18 | 4.4 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 18 | 4.4 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 18 | 4.4 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 8 | 4.4 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 19 | 4.4 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 9 | 4.4 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 9 | 4.4 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 8 | 4.4 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 13 | 4.4 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 14 | 4.4 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 6 | 4.4 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 6 | 4.4 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 6 | 4.4 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 11 | 4.4 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 11 | 4.4 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 11 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 14 | 4.4 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 1 | 4.4 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 13 | 4.4 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 13 | 4.4 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 13 | 4.4 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 1 | 4.4 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 6 | 4.4 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 9 | 4.4 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 1 | 4.4 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 1 | 4.4 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 1 | 4.4 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 11 | 4.4 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 15 | 4.4 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 17 | 4.4 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 15 | 4.4 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 3 | 4.4 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 13 | 4.4 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 17 | 4.4 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 4 | 4.4 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 4 | 4.4 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 15 | 4.4 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 15 | 4.4 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 3 | 4.4 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 3 | 4.4 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 3 | 4.4 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 3 | 4.4 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 3 | 4.4 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 6 | 4.4 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 6 | 4.4 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 16 | 4.4 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 13 | 4.4 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 6 | 4.4 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 6 | 4.4 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 6 | 4.4 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 3 | 4.4 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 2 | 4.4 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 15 | 4.4 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 3 | 4.4 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 3 | 4.4 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 3 | 4.4 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 3 | 4.4 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 3 | 4.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 3 | 4.4 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 11 | 4.4 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 11 | 4.4 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 1 | 4.4 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 4 | 4.4 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 7 | 4.4 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 3 | 4.4 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 3 | 4.4 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 3 | 4.4 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 14 | 4.4 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 14 | 4.4 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 14 | 4.4 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 18 | 4.4 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 3 | 4.4 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 1 | 4.4 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 1 | 4.4 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 1 | 4.4 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 17 | 4.4 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 16 | 4.4 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 16 | 4.4 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 16 | 4.4 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 3 | 4.39 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 4 | 4.39 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 7 | 4.39 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 17 | 4.39 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 17 | 4.39 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 17 | 4.39 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 17 | 4.39 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 17 | 4.39 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 17 | 4.39 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 15 | 4.39 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 15 | 4.39 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 15 | 4.39 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 15 | 4.39 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 15 | 4.39 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 15 | 4.39 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 14 | 4.39 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 14 | 4.39 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 4 | 4.39 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 4 | 4.39 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 5 | 4.39 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 5 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 9 | 4.39 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 9 | 4.39 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 1 | 4.39 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 1 | 4.39 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 1 | 4.39 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 1 | 4.39 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 9 | 4.39 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 9 | 4.39 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 9 | 4.39 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 9 | 4.39 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 12 | 4.39 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 12 | 4.39 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 4 | 4.39 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 4 | 4.39 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 8 | 4.39 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 8 | 4.39 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 10 | 4.39 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 10 | 4.39 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 10 | 4.39 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 10 | 4.39 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 10 | 4.39 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 10 | 4.39 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 5 | 4.39 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 5 | 4.39 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 18 | 4.39 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 18 | 4.39 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 18 | 4.39 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 18 | 4.39 |
| (1,9185) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 15 | 4.39 |
| (1,9185) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 15 | 4.39 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 9 | 4.39 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 9 | 4.39 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 12 | 4.39 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 12 | 4.39 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 12 | 4.39 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 12 | 4.39 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 9 | 4.39 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 9 | 4.39 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 4 | 4.39 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 4 | 4.39 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 17 | 4.39 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 17 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 1 | 4.39 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 1 | 4.39 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 8 | 4.39 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 8 | 4.39 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 8 | 4.39 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 8 | 4.39 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 8 | 4.39 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 8 | 4.39 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 7 | 4.39 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 7 | 4.39 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 4 | 4.39 |
| (1,8985) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 4 | 4.39 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 4 | 4.39 |
| (1,8985) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 4 | 4.39 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 2 | 4.39 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 2 | 4.39 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 4 | 4.39 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 4 | 4.39 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 7 | 4.39 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 7 | 4.39 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 7 | 4.39 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 7 | 4.39 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 7 | 4.39 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 7 | 4.39 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 1 | 4.39 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 1 | 4.39 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 1 | 4.39 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 1 | 4.39 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 9 | 4.39 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 9 | 4.39 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 17 | 4.39 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 17 | 4.39 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 20 | 4.39 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 20 | 4.39 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 20 | 4.39 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 20 | 4.39 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 18 | 4.39 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 18 | 4.39 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 3 | 4.39 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 3 | 4.39 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 14 | 4.39 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 14 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 14 | 4.39 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 14 | 4.39 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 14 | 4.39 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 14 | 4.39 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 17 | 4.39 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 17 | 4.39 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 17 | 4.39 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 17 | 4.39 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 19 | 4.39 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 19 | 4.39 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 19 | 4.39 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 19 | 4.39 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 12 | 4.39 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 12 | 4.39 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 20 | 4.39 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 20 | 4.39 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 14 | 4.39 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 14 | 4.39 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 20 | 4.39 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 13 | 4.39 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 6 | 4.39 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 18 | 4.39 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 12 | 4.39 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 12 | 4.39 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 12 | 4.39 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 3 | 4.39 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 13 | 4.39 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 14 | 4.39 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 14 | 4.39 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 14 | 4.39 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 7 | 4.39 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 7 | 4.39 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 7 | 4.39 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 6 | 4.39 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 6 | 4.39 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 6 | 4.39 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 8 | 4.39 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 8 | 4.39 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 8 | 4.39 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 11 | 4.39 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 1 | 4.39 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 10 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 20 | 4.39 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 1 | 4.39 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 10 | 4.39 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 7 | 4.39 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 20 | 4.39 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 15 | 4.39 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 2 | 4.39 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 7 | 4.39 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 7 | 4.39 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 7 | 4.39 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 7 | 4.39 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 10 | 4.39 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 10 | 4.39 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 6 | 4.39 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 6 | 4.39 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 6 | 4.39 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 10 | 4.39 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 10 | 4.39 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 10 | 4.39 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 2 | 4.39 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 2 | 4.39 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 2 | 4.39 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 4 | 4.39 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 20 | 4.39 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 1 | 4.39 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 1 | 4.39 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 2 | 4.39 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 2 | 4.39 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 2 | 4.39 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 2 | 4.39 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 2 | 4.39 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 2 | 4.39 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 4 | 4.39 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 4 | 4.39 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 4 | 4.39 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 11 | 4.39 |
| (1,8053) | 1:89:A:ILE:HB | 1:91:A:GLY:H | 9 | 4.39 |
| (1,8031) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 14 | 4.39 |
| (1,8031) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 14 | 4.39 |
| (1,8031) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 14 | 4.39 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 3 | 4.39 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 9 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 9 | 4.39 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 9 | 4.39 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 12 | 4.39 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 14 | 4.39 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 5 | 4.39 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 8 | 4.39 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 5 | 4.39 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 20 | 4.39 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 6 | 4.39 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 8 | 4.39 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 8 | 4.39 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 8 | 4.39 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 7 | 4.39 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 7 | 4.39 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 7 | 4.39 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 7 | 4.39 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 7 | 4.39 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 7 | 4.39 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 7 | 4.39 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 7 | 4.39 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 7 | 4.39 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 7 | 4.39 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 7 | 4.39 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 7 | 4.39 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 13 | 4.39 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 2 | 4.39 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 13 | 4.39 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 12 | 4.39 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 12 | 4.39 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 12 | 4.39 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 1 | 4.39 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 1 | 4.39 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 1 | 4.39 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 1 | 4.39 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 1 | 4.39 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 3 | 4.39 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 4 | 4.39 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 11 | 4.39 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 15 | 4.39 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 15 | 4.39 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 15 | 4.39 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 15 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 7 | 4.39 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 16 | 4.39 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 16 | 4.39 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 16 | 4.39 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 3 | 4.39 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 13 | 4.39 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 1 | 4.39 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 1 | 4.39 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 19 | 4.39 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 19 | 4.39 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 2 | 4.39 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 17 | 4.39 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 12 | 4.39 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 12 | 4.39 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 1 | 4.39 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 9 | 4.39 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 9 | 4.39 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 9 | 4.39 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 12 | 4.39 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 19 | 4.39 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 13 | 4.39 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 20 | 4.39 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 2 | 4.39 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 3 | 4.39 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 2 | 4.39 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 2 | 4.39 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 2 | 4.39 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 4 | 4.39 |
| (1,7447) | 1:9:A:PRO:HA | 1:10:A:GLY:HA3 | 10 | 4.39 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 11 | 4.39 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 13 | 4.39 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 19 | 4.39 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 19 | 4.39 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 17 | 4.39 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 18 | 4.39 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 18 | 4.39 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 18 | 4.39 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 1 | 4.39 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 6 | 4.39 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 16 | 4.39 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 17 | 4.39 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 19 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 5 | 4.39 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 5 | 4.39 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 8 | 4.39 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 12 | 4.39 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 4 | 4.39 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 2 | 4.39 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 2 | 4.39 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 10 | 4.39 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 17 | 4.39 |
| (1,7205) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 10 | 4.39 |
| (1,7205) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 10 | 4.39 |
| (1,7205) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 10 | 4.39 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 18 | 4.39 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 14 | 4.39 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 14 | 4.39 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 2 | 4.39 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 2 | 4.39 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 18 | 4.39 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 18 | 4.39 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 18 | 4.39 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 4 | 4.39 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 1 | 4.39 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 1 | 4.39 |
| (1,7076) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 1 | 4.39 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 16 | 4.39 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 16 | 4.39 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 4 | 4.39 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 14 | 4.39 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 9 | 4.39 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 14 | 4.39 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 19 | 4.39 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 3 | 4.39 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 20 | 4.39 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 20 | 4.39 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 6 | 4.39 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 6 | 4.39 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 14 | 4.39 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 14 | 4.39 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 11 | 4.39 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 14 | 4.39 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 14 | 4.39 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 14 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 5 | 4.39 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 17 | 4.39 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 7 | 4.39 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 4 | 4.39 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 14 | 4.39 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 10 | 4.39 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 11 | 4.39 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 15 | 4.39 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 12 | 4.39 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 12 | 4.39 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 12 | 4.39 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 1 | 4.39 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 1 | 4.39 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 1 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 6 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 6 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 6 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 15 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 15 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 15 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 20 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 20 | 4.39 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 20 | 4.39 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 13 | 4.39 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 13 | 4.39 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 13 | 4.39 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 20 | 4.39 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 20 | 4.39 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 17 | 4.39 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 11 | 4.39 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 11 | 4.39 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 11 | 4.39 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 11 | 4.39 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 11 | 4.39 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 11 | 4.39 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 18 | 4.39 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 11 | 4.39 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 1 | 4.39 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 19 | 4.39 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 19 | 4.39 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 19 | 4.39 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 2 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 2 | 4.39 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 3 | 4.39 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 3 | 4.39 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 6 | 4.39 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 6 | 4.39 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 6 | 4.39 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 6 | 4.39 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 6 | 4.39 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 6 | 4.39 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 13 | 4.39 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 13 | 4.39 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 13 | 4.39 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 13 | 4.39 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 13 | 4.39 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 13 | 4.39 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 14 | 4.39 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 14 | 4.39 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 14 | 4.39 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 2 | 4.39 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 14 | 4.39 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 14 | 4.39 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 14 | 4.39 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 3 | 4.39 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 1 | 4.39 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 15 | 4.39 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 4 | 4.39 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 9 | 4.39 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 9 | 4.39 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 9 | 4.39 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 6 | 4.39 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 12 | 4.39 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 12 | 4.39 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 12 | 4.39 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 6 | 4.39 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 6 | 4.39 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 6 | 4.39 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 3 | 4.39 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 17 | 4.39 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 12 | 4.39 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 12 | 4.39 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 19 | 4.39 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 19 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 13 | 4.39 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 4 | 4.39 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 4 | 4.39 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 10 | 4.39 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 10 | 4.39 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 12 | 4.39 |
| (1,4995) | 1:73:A:TRP:H | 1:77:A:LYS:H | 9 | 4.39 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 8 | 4.39 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 8 | 4.39 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 8 | 4.39 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 11 | 4.39 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 11 | 4.39 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 11 | 4.39 |
| (1,4855) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 17 | 4.39 |
| (1,4855) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 17 | 4.39 |
| (1,4855) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 17 | 4.39 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 19 | 4.39 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 5 | 4.39 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 1 | 4.39 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 1 | 4.39 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 1 | 4.39 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 18 | 4.39 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 16 | 4.39 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 4 | 4.39 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 4 | 4.39 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 4 | 4.39 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 4 | 4.39 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 4 | 4.39 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 4 | 4.39 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 7 | 4.39 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 9 | 4.39 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 9 | 4.39 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 9 | 4.39 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 16 | 4.39 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 9 | 4.39 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 9 | 4.39 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 9 | 4.39 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 9 | 4.39 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 17 | 4.39 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 7 | 4.39 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 15 | 4.39 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 5 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 5 | 4.39 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 11 | 4.39 |
| (1,4164) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 15 | 4.39 |
| (1,4164) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 15 | 4.39 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 1 | 4.39 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 1 | 4.39 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 1 | 4.39 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 4 | 4.39 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 4 | 4.39 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 1 | 4.39 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 1 | 4.39 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 7 | 4.39 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 18 | 4.39 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 18 | 4.39 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 18 | 4.39 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 8 | 4.39 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 8 | 4.39 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 8 | 4.39 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 8 | 4.39 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 8 | 4.39 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 8 | 4.39 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 7 | 4.39 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 7 | 4.39 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 12 | 4.39 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 4 | 4.39 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 4 | 4.39 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 4 | 4.39 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 4 | 4.39 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 13 | 4.39 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 1 | 4.39 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 1 | 4.39 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 1 | 4.39 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 1 | 4.39 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 9 | 4.39 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 9 | 4.39 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 19 | 4.39 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 19 | 4.39 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 19 | 4.39 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 19 | 4.39 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 19 | 4.39 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 19 | 4.39 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 8 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 8 | 4.39 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 8 | 4.39 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 17 | 4.39 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 17 | 4.39 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 9 | 4.39 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 2 | 4.39 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 5 | 4.39 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 18 | 4.39 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 18 | 4.39 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 15 | 4.39 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 15 | 4.39 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 14 | 4.39 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 14 | 4.39 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 14 | 4.39 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 14 | 4.39 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 17 | 4.39 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 3 | 4.39 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 20 | 4.39 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 20 | 4.39 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 20 | 4.39 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 20 | 4.39 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 9 | 4.39 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 17 | 4.39 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 17 | 4.39 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 17 | 4.39 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 17 | 4.39 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 19 | 4.39 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 19 | 4.39 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 19 | 4.39 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 19 | 4.39 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 11 | 4.39 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 3 | 4.39 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 12 | 4.39 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 12 | 4.39 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 15 | 4.39 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 8 | 4.39 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 8 | 4.39 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 8 | 4.39 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 13 | 4.39 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 14 | 4.39 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 10 | 4.39 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 17 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3366) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 10 | 4.39 |
| (1,3366) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 10 | 4.39 |
| (1,3366) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 10 | 4.39 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 4.39 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 18 | 4.39 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 14 | 4.39 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 14 | 4.39 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 2 | 4.39 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 2 | 4.39 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 18 | 4.39 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 18 | 4.39 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 18 | 4.39 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 4.39 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 4 | 4.39 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 5 | 4.39 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 5 | 4.39 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 5 | 4.39 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 1 | 4.39 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 1 | 4.39 |
| (1,3144) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 1 | 4.39 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 16 | 4.39 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 16 | 4.39 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 4 | 4.39 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 14 | 4.39 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 9 | 4.39 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 14 | 4.39 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 19 | 4.39 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 3 | 4.39 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 20 | 4.39 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 20 | 4.39 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 6 | 4.39 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 6 | 4.39 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 14 | 4.39 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 14 | 4.39 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 11 | 4.39 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 14 | 4.39 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 14 | 4.39 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 14 | 4.39 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 20 | 4.39 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 20 | 4.39 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 20 | 4.39 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 5 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 17 | 4.39 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 14 | 4.39 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 3 | 4.39 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 7 | 4.39 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 4 | 4.39 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 14 | 4.39 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 10 | 4.39 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 11 | 4.39 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 15 | 4.39 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 9 | 4.39 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 9 | 4.39 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 1 | 4.39 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 1 | 4.39 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 1 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 6 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 6 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 6 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 15 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 15 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 15 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 20 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 20 | 4.39 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 20 | 4.39 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 17 | 4.39 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 13 | 4.39 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 13 | 4.39 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 13 | 4.39 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 20 | 4.39 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 20 | 4.39 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 17 | 4.39 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 19 | 4.39 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 19 | 4.39 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 19 | 4.39 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 7 | 4.39 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 11 | 4.39 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 11 | 4.39 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 11 | 4.39 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 11 | 4.39 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 11 | 4.39 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 11 | 4.39 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 6 | 4.39 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 6 | 4.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 6 | 4.39 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 18 | 4.39 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 11 | 4.39 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 1 | 4.39 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 2 | 4.39 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 2 | 4.39 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 3 | 4.39 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 3 | 4.39 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 6 | 4.39 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 6 | 4.39 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 6 | 4.39 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 6 | 4.39 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 6 | 4.39 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 6 | 4.39 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 13 | 4.39 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 13 | 4.39 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 13 | 4.39 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 13 | 4.39 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 13 | 4.39 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 13 | 4.39 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 14 | 4.39 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 14 | 4.39 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 14 | 4.39 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 2 | 4.39 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 6 | 4.39 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 13 | 4.39 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 14 | 4.39 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 14 | 4.39 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 14 | 4.39 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 14 | 4.39 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 3 | 4.39 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 1 | 4.39 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 15 | 4.39 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 4 | 4.39 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 9 | 4.39 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 17 | 4.39 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 9 | 4.39 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 3 | 4.39 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 9 | 4.38 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 9 | 4.38 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 16 | 4.38 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 10 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 10 | 4.38 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 9 | 4.38 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 9 | 4.38 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 9 | 4.38 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 9 | 4.38 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 15 | 4.38 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 15 | 4.38 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 16 | 4.38 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 16 | 4.38 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 1 | 4.38 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 1 | 4.38 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 19 | 4.38 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 19 | 4.38 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 2 | 4.38 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 2 | 4.38 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 6 | 4.38 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 6 | 4.38 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 12 | 4.38 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 12 | 4.38 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 12 | 4.38 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 12 | 4.38 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 8 | 4.38 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 8 | 4.38 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 6 | 4.38 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 6 | 4.38 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 6 | 4.38 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 6 | 4.38 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 6 | 4.38 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 6 | 4.38 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 14 | 4.38 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 14 | 4.38 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 14 | 4.38 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 14 | 4.38 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 14 | 4.38 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 14 | 4.38 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 1 | 4.38 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 1 | 4.38 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 9 | 4.38 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 9 | 4.38 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 11 | 4.38 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 11 | 4.38 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 11 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 11 | 4.38 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 9 | 4.38 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 9 | 4.38 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 5 | 4.38 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 5 | 4.38 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 12 | 4.38 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 12 | 4.38 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 16 | 4.38 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 16 | 4.38 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 16 | 4.38 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 16 | 4.38 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 16 | 4.38 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 16 | 4.38 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 6 | 4.38 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 6 | 4.38 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 18 | 4.38 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 18 | 4.38 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 15 | 4.38 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 15 | 4.38 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 5 | 4.38 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 5 | 4.38 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 12 | 4.38 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 12 | 4.38 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 17 | 4.38 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 17 | 4.38 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 2 | 4.38 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 2 | 4.38 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 2 | 4.38 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 2 | 4.38 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 2 | 4.38 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 2 | 4.38 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 17 | 4.38 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 17 | 4.38 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 12 | 4.38 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 12 | 4.38 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 12 | 4.38 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 12 | 4.38 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 17 | 4.38 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 17 | 4.38 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 17 | 4.38 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 17 | 4.38 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 17 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 17 | 4.38 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 6 | 4.38 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 6 | 4.38 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 3 | 4.38 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 3 | 4.38 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 13 | 4.38 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 13 | 4.38 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 4 | 4.38 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 4 | 4.38 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 17 | 4.38 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 17 | 4.38 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 4 | 4.38 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 4 | 4.38 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 4 | 4.38 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 4 | 4.38 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 4 | 4.38 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 4 | 4.38 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 11 | 4.38 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 8 | 4.38 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 6 | 4.38 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 6 | 4.38 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 6 | 4.38 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 5 | 4.38 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 11 | 4.38 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 14 | 4.38 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 17 | 4.38 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 17 | 4.38 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 17 | 4.38 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 17 | 4.38 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 20 | 4.38 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 3 | 4.38 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 15 | 4.38 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 15 | 4.38 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 7 | 4.38 |
| (1,8305) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 10 | 4.38 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 11 | 4.38 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 3 | 4.38 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 3 | 4.38 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 7 | 4.38 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 20 | 4.38 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 9 | 4.38 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 9 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 9 | 4.38 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 9 | 4.38 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 16 | 4.38 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 10 | 4.38 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 10 | 4.38 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 10 | 4.38 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 10 | 4.38 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 10 | 4.38 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 10 | 4.38 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 10 | 4.38 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 10 | 4.38 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 10 | 4.38 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 7 | 4.38 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 7 | 4.38 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 7 | 4.38 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 10 | 4.38 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 11 | 4.38 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 14 | 4.38 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 10 | 4.38 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 10 | 4.38 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 17 | 4.38 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 17 | 4.38 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 17 | 4.38 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 7 | 4.38 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 7 | 4.38 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 7 | 4.38 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 7 | 4.38 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 4 | 4.38 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 13 | 4.38 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 8 | 4.38 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 3 | 4.38 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 19 | 4.38 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 13 | 4.38 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 15 | 4.38 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 2 | 4.38 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 2 | 4.38 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 2 | 4.38 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 9 | 4.38 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 1 | 4.38 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 4 | 4.38 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 19 | 4.38 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG21 | 17 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG22 | 17 | 4.38 |
| (1,7893) | 1:65:A:SER:H | 1:79:A:THR:HG23 | 17 | 4.38 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 16 | 4.38 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 7 | 4.38 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 7 | 4.38 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 7 | 4.38 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 11 | 4.38 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 11 | 4.38 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 11 | 4.38 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 11 | 4.38 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 11 | 4.38 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 11 | 4.38 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 8 | 4.38 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 8 | 4.38 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 8 | 4.38 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 16 | 4.38 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 16 | 4.38 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 16 | 4.38 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 16 | 4.38 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 16 | 4.38 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 16 | 4.38 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 16 | 4.38 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 16 | 4.38 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 16 | 4.38 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 6 | 4.38 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 6 | 4.38 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 6 | 4.38 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 6 | 4.38 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 6 | 4.38 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 6 | 4.38 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 18 | 4.38 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 20 | 4.38 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 20 | 4.38 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 20 | 4.38 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 20 | 4.38 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 20 | 4.38 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 20 | 4.38 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 4 | 4.38 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 3 | 4.38 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 3 | 4.38 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 18 | 4.38 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 2 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 10 | 4.38 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 10 | 4.38 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 10 | 4.38 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 10 | 4.38 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 10 | 4.38 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 10 | 4.38 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 10 | 4.38 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 10 | 4.38 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 10 | 4.38 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 20 | 4.38 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 18 | 4.38 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 19 | 4.38 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 6 | 4.38 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 18 | 4.38 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 18 | 4.38 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 7 | 4.38 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 18 | 4.38 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 5 | 4.38 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 8 | 4.38 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 8 | 4.38 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 16 | 4.38 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 16 | 4.38 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 16 | 4.38 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 4 | 4.38 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 7 | 4.38 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 8 | 4.38 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 9 | 4.38 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 10 | 4.38 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 19 | 4.38 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 12 | 4.38 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 12 | 4.38 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 12 | 4.38 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 11 | 4.38 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 12 | 4.38 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 12 | 4.38 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 5 | 4.38 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 5 | 4.38 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 5 | 4.38 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 9 | 4.38 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 9 | 4.38 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE1 | 10 | 4.38 |
| (1,7295) | 1:24:A:TYR:H | 1:24:A:TYR:HE2 | 10 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 13 | 4.38 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 13 | 4.38 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 6 | 4.38 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 7 | 4.38 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 7 | 4.38 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 14 | 4.38 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 14 | 4.38 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 14 | 4.38 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 19 | 4.38 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 9 | 4.38 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 19 | 4.38 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 19 | 4.38 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 19 | 4.38 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 19 | 4.38 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 19 | 4.38 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 20 | 4.38 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 20 | 4.38 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 20 | 4.38 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 16 | 4.38 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 16 | 4.38 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 16 | 4.38 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 10 | 4.38 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 12 | 4.38 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 13 | 4.38 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 13 | 4.38 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 13 | 4.38 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 13 | 4.38 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 2 | 4.38 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 14 | 4.38 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 3 | 4.38 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 19 | 4.38 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 8 | 4.38 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 6 | 4.38 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 9 | 4.38 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 19 | 4.38 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 14 | 4.38 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 14 | 4.38 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 14 | 4.38 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 10 | 4.38 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 10 | 4.38 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 10 | 4.38 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 1 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 1 | 4.38 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 1 | 4.38 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 1 | 4.38 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 1 | 4.38 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 1 | 4.38 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 1 | 4.38 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 1 | 4.38 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 1 | 4.38 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 3 | 4.38 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 13 | 4.38 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 11 | 4.38 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 10 | 4.38 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 10 | 4.38 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 10 | 4.38 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 18 | 4.38 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 18 | 4.38 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 15 | 4.38 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 15 | 4.38 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 15 | 4.38 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 15 | 4.38 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 15 | 4.38 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 15 | 4.38 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 15 | 4.38 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 1 | 4.38 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 17 | 4.38 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 1 | 4.38 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 17 | 4.38 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 18 | 4.38 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 7 | 4.38 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 14 | 4.38 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 14 | 4.38 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 16 | 4.38 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 16 | 4.38 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 16 | 4.38 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 16 | 4.38 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 16 | 4.38 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 16 | 4.38 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 12 | 4.38 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 12 | 4.38 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 12 | 4.38 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 12 | 4.38 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 12 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 12 | 4.38 |
| (1,5851) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 13 | 4.38 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 8 | 4.38 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 8 | 4.38 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 5 | 4.38 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 5 | 4.38 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 5 | 4.38 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 7 | 4.38 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 12 | 4.38 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 3 | 4.38 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 3 | 4.38 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 3 | 4.38 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 12 | 4.38 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 12 | 4.38 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 12 | 4.38 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 6 | 4.38 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 14 | 4.38 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 3 | 4.38 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 3 | 4.38 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 3 | 4.38 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 3 | 4.38 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 3 | 4.38 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 3 | 4.38 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 14 | 4.38 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 16 | 4.38 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 19 | 4.38 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 17 | 4.38 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 16 | 4.38 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 16 | 4.38 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 16 | 4.38 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 7 | 4.38 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 7 | 4.38 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 7 | 4.38 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 15 | 4.38 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 15 | 4.38 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 15 | 4.38 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 14 | 4.38 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 14 | 4.38 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 14 | 4.38 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 2 | 4.38 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 3 | 4.38 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 3 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 3 | 4.38 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 8 | 4.38 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 8 | 4.38 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 8 | 4.38 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 14 | 4.38 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 14 | 4.38 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 15 | 4.38 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 15 | 4.38 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 8 | 4.38 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 13 | 4.38 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 2 | 4.38 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 15 | 4.38 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 20 | 4.38 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 20 | 4.38 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 20 | 4.38 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 2 | 4.38 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 19 | 4.38 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 16 | 4.38 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 16 | 4.38 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 16 | 4.38 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 7 | 4.38 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 10 | 4.38 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 17 | 4.38 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 15 | 4.38 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 13 | 4.38 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 13 | 4.38 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 13 | 4.38 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 17 | 4.38 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 17 | 4.38 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 17 | 4.38 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 12 | 4.38 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 11 | 4.38 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 11 | 4.38 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 15 | 4.38 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 15 | 4.38 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 8 | 4.38 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 8 | 4.38 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 8 | 4.38 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 14 | 4.38 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 19 | 4.38 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 19 | 4.38 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 19 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 18 | 4.38 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 18 | 4.38 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 4.38 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 4.38 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 4 | 4.38 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 15 | 4.38 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 15 | 4.38 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 6 | 4.38 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 6 | 4.38 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 12 | 4.38 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 12 | 4.38 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 14 | 4.38 |
| (1,4240) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 4 | 4.38 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 12 | 4.38 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 12 | 4.38 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 8 | 4.38 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 8 | 4.38 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 9 | 4.38 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 14 | 4.38 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 14 | 4.38 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 14 | 4.38 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 14 | 4.38 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 14 | 4.38 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 14 | 4.38 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 1 | 4.38 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 1 | 4.38 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 9 | 4.38 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 9 | 4.38 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 6 | 4.38 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 10 | 4.38 |
| (1,4030) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 2 | 4.38 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 9 | 4.38 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 9 | 4.38 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 18 | 4.38 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 18 | 4.38 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 18 | 4.38 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 16 | 4.38 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 16 | 4.38 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 16 | 4.38 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 16 | 4.38 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 16 | 4.38 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 16 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 7 | 4.38 |
| (1,3926) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 19 | 4.38 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 15 | 4.38 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 15 | 4.38 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 2 | 4.38 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 2 | 4.38 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 2 | 4.38 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 2 | 4.38 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 2 | 4.38 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 2 | 4.38 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 14 | 4.38 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 14 | 4.38 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 14 | 4.38 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 13 | 4.38 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 13 | 4.38 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 13 | 4.38 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 17 | 4.38 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 17 | 4.38 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 17 | 4.38 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 17 | 4.38 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 17 | 4.38 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 17 | 4.38 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 6 | 4.38 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 6 | 4.38 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 4 | 4.38 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 4 | 4.38 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 4 | 4.38 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 13 | 4.38 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 13 | 4.38 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 17 | 4.38 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 6 | 4.38 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 6 | 4.38 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 4 | 4.38 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 4 | 4.38 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 4 | 4.38 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 4 | 4.38 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 4 | 4.38 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 4 | 4.38 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 4 | 4.38 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 4 | 4.38 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 14 | 4.38 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 13 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 13 | 4.38 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 6 | 4.38 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 13 | 4.38 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 13 | 4.38 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 13 | 4.38 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 13 | 4.38 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 13 | 4.38 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 13 | 4.38 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 13 | 4.38 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 13 | 4.38 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 13 | 4.38 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 9 | 4.38 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 7 | 4.38 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 7 | 4.38 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 4 | 4.38 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 14 | 4.38 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 14 | 4.38 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 14 | 4.38 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 19 | 4.38 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 9 | 4.38 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 19 | 4.38 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 19 | 4.38 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 19 | 4.38 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 19 | 4.38 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 19 | 4.38 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 20 | 4.38 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 20 | 4.38 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 20 | 4.38 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 16 | 4.38 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 16 | 4.38 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 16 | 4.38 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 10 | 4.38 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 14 | 4.38 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 14 | 4.38 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 12 | 4.38 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 13 | 4.38 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 13 | 4.38 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 13 | 4.38 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 13 | 4.38 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 2 | 4.38 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 1 | 4.38 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 14 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 5 | 4.38 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 3 | 4.38 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 19 | 4.38 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 8 | 4.38 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 6 | 4.38 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 4.38 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 16 | 4.38 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 9 | 4.38 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 5 | 4.38 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 5 | 4.38 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 5 | 4.38 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 10 | 4.38 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 10 | 4.38 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 10 | 4.38 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 11 | 4.38 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 18 | 4.38 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 19 | 4.38 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 19 | 4.38 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 9 | 4.38 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 9 | 4.38 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 9 | 4.38 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 14 | 4.38 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 14 | 4.38 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 14 | 4.38 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 10 | 4.38 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 10 | 4.38 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 10 | 4.38 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 1 | 4.38 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 1 | 4.38 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 1 | 4.38 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 1 | 4.38 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 1 | 4.38 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 1 | 4.38 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 1 | 4.38 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 1 | 4.38 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 1 | 4.38 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 3 | 4.38 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 13 | 4.38 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 11 | 4.38 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 10 | 4.38 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 10 | 4.38 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 10 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 13 | 4.38 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 13 | 4.38 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 13 | 4.38 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 10 | 4.38 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 18 | 4.38 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 18 | 4.38 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 1 | 4.38 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 1 | 4.38 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 1 | 4.38 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 15 | 4.38 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 15 | 4.38 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 15 | 4.38 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 15 | 4.38 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 15 | 4.38 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 15 | 4.38 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 1 | 4.38 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 17 | 4.38 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 1 | 4.38 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 17 | 4.38 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 18 | 4.38 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 4 | 4.38 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 7 | 4.38 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 14 | 4.38 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 14 | 4.38 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 16 | 4.38 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 16 | 4.38 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 16 | 4.38 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 16 | 4.38 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 16 | 4.38 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 16 | 4.38 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 12 | 4.38 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 12 | 4.38 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 12 | 4.38 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 12 | 4.38 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 12 | 4.38 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 12 | 4.38 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 2 | 4.38 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 2 | 4.38 |
| (1,1228) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 13 | 4.38 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 8 | 4.38 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 8 | 4.38 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 5 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 5 | 4.38 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 5 | 4.38 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 7 | 4.38 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 12 | 4.38 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 3 | 4.38 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 3 | 4.38 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 3 | 4.38 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 10 | 4.38 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 12 | 4.38 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 12 | 4.38 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 12 | 4.38 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 6 | 4.38 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 17 | 4.38 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 3 | 4.38 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 14 | 4.38 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 3 | 4.38 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 3 | 4.38 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 3 | 4.38 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 3 | 4.38 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 3 | 4.38 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 3 | 4.38 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 14 | 4.38 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 13 | 4.38 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 13 | 4.38 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 11 | 4.38 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 11 | 4.38 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 11 | 4.38 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 16 | 4.38 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 19 | 4.38 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 17 | 4.38 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 16 | 4.38 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 16 | 4.38 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 16 | 4.38 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 7 | 4.38 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 7 | 4.38 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 7 | 4.38 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 5 | 4.38 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 15 | 4.38 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 15 | 4.38 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 15 | 4.38 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 4 | 4.38 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 4 | 4.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 4 | 4.38 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 4 | 4.38 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 4 | 4.38 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 4 | 4.38 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 4 | 4.38 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 4 | 4.38 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 4 | 4.38 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 15 | 4.38 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 15 | 4.38 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 15 | 4.38 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 19 | 4.37 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 20 | 4.37 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 9 | 4.37 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 15 | 4.37 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 15 | 4.37 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 20 | 4.37 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 20 | 4.37 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 18 | 4.37 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 18 | 4.37 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 9 | 4.37 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 9 | 4.37 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 7 | 4.37 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 7 | 4.37 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 7 | 4.37 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 7 | 4.37 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 7 | 4.37 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 7 | 4.37 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 8 | 4.37 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 8 | 4.37 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 8 | 4.37 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 8 | 4.37 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 8 | 4.37 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 8 | 4.37 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 10 | 4.37 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 10 | 4.37 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 10 | 4.37 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 10 | 4.37 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 10 | 4.37 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 10 | 4.37 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 18 | 4.37 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 18 | 4.37 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 18 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 18 | 4.37 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 18 | 4.37 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 18 | 4.37 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 17 | 4.37 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 17 | 4.37 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 2 | 4.37 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 2 | 4.37 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 20 | 4.37 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 20 | 4.37 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 15 | 4.37 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 15 | 4.37 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 16 | 4.37 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 16 | 4.37 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 16 | 4.37 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 16 | 4.37 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 2 | 4.37 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 2 | 4.37 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 10 | 4.37 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 10 | 4.37 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 5 | 4.37 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 5 | 4.37 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 19 | 4.37 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 19 | 4.37 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 5 | 4.37 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 5 | 4.37 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 10 | 4.37 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 10 | 4.37 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 3 | 4.37 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 3 | 4.37 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 3 | 4.37 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 3 | 4.37 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 3 | 4.37 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 3 | 4.37 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 7 | 4.37 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 7 | 4.37 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 7 | 4.37 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 7 | 4.37 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 7 | 4.37 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 7 | 4.37 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 9 | 4.37 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 9 | 4.37 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 9 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 9 | 4.37 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 19 | 4.37 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 19 | 4.37 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 19 | 4.37 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 19 | 4.37 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 19 | 4.37 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 19 | 4.37 |
| (1,9134) | 1:89:A:ILE:HG12 | 1:149:A:PRO:HB2 | 4 | 4.37 |
| (1,9134) | 1:89:A:ILE:HG13 | 1:149:A:PRO:HB2 | 4 | 4.37 |
| (1,9118) | 1:87:A:GLU:HB2 | 1:91:A:GLY:H | 2 | 4.37 |
| (1,9118) | 1:87:A:GLU:HB3 | 1:91:A:GLY:H | 2 | 4.37 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 2 | 4.37 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 2 | 4.37 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 13 | 4.37 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 13 | 4.37 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 13 | 4.37 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 13 | 4.37 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 13 | 4.37 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 13 | 4.37 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 2 | 4.37 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 2 | 4.37 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 11 | 4.37 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 11 | 4.37 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 10 | 4.37 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 10 | 4.37 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 11 | 4.37 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 11 | 4.37 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 13 | 4.37 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 13 | 4.37 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 13 | 4.37 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 13 | 4.37 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 13 | 4.37 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 13 | 4.37 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 14 | 4.37 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 14 | 4.37 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 10 | 4.37 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 10 | 4.37 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 17 | 4.37 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 17 | 4.37 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 12 | 4.37 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 12 | 4.37 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 12 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 12 | 4.37 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 9 | 4.37 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 9 | 4.37 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 9 | 4.37 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 9 | 4.37 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 11 | 4.37 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 11 | 4.37 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 17 | 4.37 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 17 | 4.37 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 17 | 4.37 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 17 | 4.37 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 5 | 4.37 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 5 | 4.37 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 5 | 4.37 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 5 | 4.37 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 12 | 4.37 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 12 | 4.37 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 12 | 4.37 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 12 | 4.37 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 5 | 4.37 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 12 | 4.37 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 9 | 4.37 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 9 | 4.37 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 9 | 4.37 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 9 | 4.37 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 9 | 4.37 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 9 | 4.37 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 9 | 4.37 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 9 | 4.37 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 9 | 4.37 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 3 | 4.37 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 3 | 4.37 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 1 | 4.37 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 10 | 4.37 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 11 | 4.37 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 17 | 4.37 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 18 | 4.37 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 18 | 4.37 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 18 | 4.37 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 2 | 4.37 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 14 | 4.37 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 19 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 2 | 4.37 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 8 | 4.37 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 16 | 4.37 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 11 | 4.37 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 11 | 4.37 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 11 | 4.37 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 19 | 4.37 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 19 | 4.37 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 19 | 4.37 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 19 | 4.37 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 19 | 4.37 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 19 | 4.37 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 19 | 4.37 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 11 | 4.37 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 11 | 4.37 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 11 | 4.37 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 3 | 4.37 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 3 | 4.37 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 14 | 4.37 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 14 | 4.37 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 14 | 4.37 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 14 | 4.37 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 14 | 4.37 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 14 | 4.37 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 20 | 4.37 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 20 | 4.37 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 20 | 4.37 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 6 | 4.37 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 12 | 4.37 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 12 | 4.37 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 12 | 4.37 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 12 | 4.37 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 12 | 4.37 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 12 | 4.37 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 14 | 4.37 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 14 | 4.37 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 2 | 4.37 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 13 | 4.37 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 19 | 4.37 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 19 | 4.37 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 19 | 4.37 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 10 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 8 | 4.37 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 20 | 4.37 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 8 | 4.37 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 8 | 4.37 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 8 | 4.37 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 9 | 4.37 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 9 | 4.37 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 9 | 4.37 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 16 | 4.37 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 3 | 4.37 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 4 | 4.37 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 14 | 4.37 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 17 | 4.37 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 17 | 4.37 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 17 | 4.37 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 3 | 4.37 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 20 | 4.37 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 20 | 4.37 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 20 | 4.37 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 20 | 4.37 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 20 | 4.37 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 20 | 4.37 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 20 | 4.37 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 20 | 4.37 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 20 | 4.37 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 6 | 4.37 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 6 | 4.37 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 6 | 4.37 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 2 | 4.37 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 9 | 4.37 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 9 | 4.37 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 9 | 4.37 |
| (1,7954) | 1:74:A:ARG:HA | 1:75:A:GLN:HA | 5 | 4.37 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 5 | 4.37 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 4 | 4.37 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 4 | 4.37 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 16 | 4.37 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 16 | 4.37 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 1 | 4.37 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 13 | 4.37 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 3 | 4.37 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 6 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 11 | 4.37 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 19 | 4.37 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 15 | 4.37 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 15 | 4.37 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 15 | 4.37 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 3 | 4.37 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 8 | 4.37 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 10 | 4.37 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 17 | 4.37 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 17 | 4.37 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 17 | 4.37 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 2 | 4.37 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 2 | 4.37 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 2 | 4.37 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 15 | 4.37 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 15 | 4.37 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 7 | 4.37 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 10 | 4.37 |
| (1,7710) | 1:52:A:PRO:HA | 1:53:A:ALA:HA | 17 | 4.37 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 3 | 4.37 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 1 | 4.37 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 17 | 4.37 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 17 | 4.37 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 17 | 4.37 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 5 | 4.37 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 10 | 4.37 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 11 | 4.37 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 2 | 4.37 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 10 | 4.37 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 2 | 4.37 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 2 | 4.37 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 8 | 4.37 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 8 | 4.37 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 1 | 4.37 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 6 | 4.37 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 13 | 4.37 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 18 | 4.37 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 1 | 4.37 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 1 | 4.37 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 1 | 4.37 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 11 | 4.37 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 11 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 11 | 4.37 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 6 | 4.37 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 8 | 4.37 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 8 | 4.37 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 8 | 4.37 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 3 | 4.37 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 5 | 4.37 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 13 | 4.37 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 15 | 4.37 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 20 | 4.37 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 5 | 4.37 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 5 | 4.37 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 5 | 4.37 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 7 | 4.37 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 10 | 4.37 |
| (1,7377) | 1:144:A:GLY:HA3 | 1:145:A:GLU:HA | 14 | 4.37 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 13 | 4.37 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 13 | 4.37 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 13 | 4.37 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 2 | 4.37 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 3 | 4.37 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 3 | 4.37 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 3 | 4.37 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 3 | 4.37 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 3 | 4.37 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 3 | 4.37 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 20 | 4.37 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 19 | 4.37 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 19 | 4.37 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 6 | 4.37 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 6 | 4.37 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 7 | 4.37 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 7 | 4.37 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 7 | 4.37 |
| (1,7092) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 1 | 4.37 |
| (1,7092) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 1 | 4.37 |
| (1,7092) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 1 | 4.37 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 5 | 4.37 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 19 | 4.37 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 19 | 4.37 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 19 | 4.37 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 9 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 4 | 4.37 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 4 | 4.37 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 20 | 4.37 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 10 | 4.37 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 13 | 4.37 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 15 | 4.37 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 15 | 4.37 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 15 | 4.37 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 8 | 4.37 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 20 | 4.37 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 16 | 4.37 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 3 | 4.37 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 1 | 4.37 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 12 | 4.37 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 14 | 4.37 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 16 | 4.37 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 3 | 4.37 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 10 | 4.37 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 10 | 4.37 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 10 | 4.37 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 17 | 4.37 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 17 | 4.37 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 17 | 4.37 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 11 | 4.37 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 15 | 4.37 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 17 | 4.37 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 17 | 4.37 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 17 | 4.37 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 19 | 4.37 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 19 | 4.37 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 19 | 4.37 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 19 | 4.37 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 19 | 4.37 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 19 | 4.37 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 7 | 4.37 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 6 | 4.37 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 9 | 4.37 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 7 | 4.37 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 7 | 4.37 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 16 | 4.37 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 12 | 4.37 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 20 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 13 | 4.37 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 17 | 4.37 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 17 | 4.37 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 17 | 4.37 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 1 | 4.37 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 1 | 4.37 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 17 | 4.37 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 3 | 4.37 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 3 | 4.37 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 3 | 4.37 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 7 | 4.37 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 7 | 4.37 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 7 | 4.37 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 3 | 4.37 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 20 | 4.37 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 8 | 4.37 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 8 | 4.37 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 8 | 4.37 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 8 | 4.37 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 8 | 4.37 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 8 | 4.37 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 10 | 4.37 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 8 | 4.37 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 8 | 4.37 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 8 | 4.37 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 15 | 4.37 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 15 | 4.37 |
| (1,6094) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 15 | 4.37 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 9 | 4.37 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 9 | 4.37 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 9 | 4.37 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 9 | 4.37 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 14 | 4.37 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 1 | 4.37 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 17 | 4.37 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 2 | 4.37 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 2 | 4.37 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 14 | 4.37 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 18 | 4.37 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 18 | 4.37 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 18 | 4.37 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 8 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 8 | 4.37 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 1 | 4.37 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 3 | 4.37 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 16 | 4.37 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 16 | 4.37 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 16 | 4.37 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 6 | 4.37 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 6 | 4.37 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 6 | 4.37 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 6 | 4.37 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 6 | 4.37 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 6 | 4.37 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 19 | 4.37 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 19 | 4.37 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 19 | 4.37 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 9 | 4.37 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 9 | 4.37 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 9 | 4.37 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 9 | 4.37 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 9 | 4.37 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 9 | 4.37 |
| (1,5533) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 19 | 4.37 |
| (1,5533) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 19 | 4.37 |
| (1,5533) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 19 | 4.37 |
| (1,5481) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 10 | 4.37 |
| (1,5481) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 10 | 4.37 |
| (1,5481) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 10 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 12 | 4.37 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 12 | 4.37 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 17 | 4.37 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 17 | 4.37 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 10 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 10 | 4.37 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 10 | 4.37 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 4 | 4.37 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 4 | 4.37 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 4 | 4.37 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 9 | 4.37 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 9 | 4.37 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 9 | 4.37 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 14 | 4.37 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 7 | 4.37 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 3 | 4.37 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 14 | 4.37 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 14 | 4.37 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 14 | 4.37 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 13 | 4.37 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 13 | 4.37 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 13 | 4.37 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 3 | 4.37 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 11 | 4.37 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 11 | 4.37 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 11 | 4.37 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 11 | 4.37 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 11 | 4.37 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 11 | 4.37 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 11 | 4.37 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 11 | 4.37 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 11 | 4.37 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 4 | 4.37 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 6 | 4.37 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 6 | 4.37 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 9 | 4.37 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 9 | 4.37 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 20 | 4.37 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 20 | 4.37 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 15 | 4.37 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 11 | 4.37 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 11 | 4.37 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 11 | 4.37 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 17 | 4.37 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 17 | 4.37 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 17 | 4.37 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 13 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 20 | 4.37 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 20 | 4.37 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 20 | 4.37 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 18 | 4.37 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 18 | 4.37 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 18 | 4.37 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 2 | 4.37 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 4 | 4.37 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 18 | 4.37 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 18 | 4.37 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 18 | 4.37 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 1 | 4.37 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 14 | 4.37 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 9 | 4.37 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 9 | 4.37 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 8 | 4.37 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 8 | 4.37 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 8 | 4.37 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 8 | 4.37 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 8 | 4.37 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 8 | 4.37 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 10 | 4.37 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 10 | 4.37 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 10 | 4.37 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 10 | 4.37 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 10 | 4.37 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 10 | 4.37 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 4 | 4.37 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 4 | 4.37 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 4 | 4.37 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 17 | 4.37 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 17 | 4.37 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 11 | 4.37 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 6 | 4.37 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 6 | 4.37 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 6 | 4.37 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 15 | 4.37 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 8 | 4.37 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 10 | 4.37 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 10 | 4.37 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 10 | 4.37 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 10 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 13 | 4.37 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 2 | 4.37 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 2 | 4.37 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 10 | 4.37 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 10 | 4.37 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 1 | 4.37 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 19 | 4.37 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 19 | 4.37 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 14 | 4.37 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 14 | 4.37 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 10 | 4.37 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 10 | 4.37 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 3 | 4.37 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 3 | 4.37 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 3 | 4.37 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 3 | 4.37 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 3 | 4.37 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 3 | 4.37 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 4.37 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 4.37 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 4.37 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 7 | 4.37 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 7 | 4.37 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 7 | 4.37 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 7 | 4.37 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 7 | 4.37 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 7 | 4.37 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 19 | 4.37 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 19 | 4.37 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 19 | 4.37 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 19 | 4.37 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 19 | 4.37 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 19 | 4.37 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 3 | 4.37 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 2 | 4.37 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 2 | 4.37 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 2 | 4.37 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 10 | 4.37 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 19 | 4.37 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 13 | 4.37 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 13 | 4.37 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 13 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 13 | 4.37 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 13 | 4.37 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 13 | 4.37 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 13 | 4.37 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 3 | 4.37 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 9 | 4.37 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 19 | 4.37 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 5 | 4.37 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 10 | 4.37 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 10 | 4.37 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 3 | 4.37 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 3 | 4.37 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 7 | 4.37 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 8 | 4.37 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 13 | 4.37 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 13 | 4.37 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 13 | 4.37 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 13 | 4.37 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 13 | 4.37 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 13 | 4.37 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 17 | 4.37 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 17 | 4.37 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 17 | 4.37 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 18 | 4.37 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 16 | 4.37 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 16 | 4.37 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 16 | 4.37 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 20 | 4.37 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 19 | 4.37 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 19 | 4.37 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 19 | 4.37 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 9 | 4.37 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 9 | 4.37 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 9 | 4.37 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 12 | 4.37 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 18 | 4.37 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 9 | 4.37 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 13 | 4.37 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 13 | 4.37 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 13 | 4.37 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 2 | 4.37 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 13 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 13 | 4.37 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 13 | 4.37 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 17 | 4.37 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 11 | 4.37 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 20 | 4.37 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 19 | 4.37 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 19 | 4.37 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 6 | 4.37 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 6 | 4.37 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 7 | 4.37 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 7 | 4.37 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 7 | 4.37 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 4 | 4.37 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 4 | 4.37 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 4 | 4.37 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 11 | 4.37 |
| (1,3164) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 1 | 4.37 |
| (1,3164) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 1 | 4.37 |
| (1,3164) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 1 | 4.37 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 4.37 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 4.37 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 4.37 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 5 | 4.37 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 19 | 4.37 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 19 | 4.37 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 19 | 4.37 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 9 | 4.37 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 4 | 4.37 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 4 | 4.37 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 20 | 4.37 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 10 | 4.37 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 13 | 4.37 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 15 | 4.37 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 15 | 4.37 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 15 | 4.37 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 8 | 4.37 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 20 | 4.37 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 9 | 4.37 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 16 | 4.37 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 3 | 4.37 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 1 | 4.37 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 12 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 14 | 4.37 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 16 | 4.37 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 13 | 4.37 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 13 | 4.37 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 3 | 4.37 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 10 | 4.37 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 10 | 4.37 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 10 | 4.37 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 17 | 4.37 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 17 | 4.37 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 17 | 4.37 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 11 | 4.37 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 15 | 4.37 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 17 | 4.37 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 17 | 4.37 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 17 | 4.37 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 1 | 4.37 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 1 | 4.37 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 1 | 4.37 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 12 | 4.37 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 12 | 4.37 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 12 | 4.37 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 12 | 4.37 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 12 | 4.37 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 12 | 4.37 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 7 | 4.37 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 6 | 4.37 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 9 | 4.37 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 7 | 4.37 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 7 | 4.37 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 16 | 4.37 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 12 | 4.37 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 11 | 4.37 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 18 | 4.37 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 16 | 4.37 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 20 | 4.37 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 13 | 4.37 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 19 | 4.37 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 17 | 4.37 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 17 | 4.37 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 17 | 4.37 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 1 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 1 | 4.37 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 17 | 4.37 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 3 | 4.37 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 3 | 4.37 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 3 | 4.37 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 7 | 4.37 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 7 | 4.37 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 7 | 4.37 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 9 | 4.37 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 3 | 4.37 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 20 | 4.37 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 8 | 4.37 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 8 | 4.37 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 8 | 4.37 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 5 | 4.37 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 8 | 4.37 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 8 | 4.37 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 8 | 4.37 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 7 | 4.37 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 10 | 4.37 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 18 | 4.37 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 18 | 4.37 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 18 | 4.37 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 8 | 4.37 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 8 | 4.37 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 8 | 4.37 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 15 | 4.37 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 15 | 4.37 |
| (1,1666) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 15 | 4.37 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 3 | 4.37 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 3 | 4.37 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 3 | 4.37 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 13 | 4.37 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 9 | 4.37 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 9 | 4.37 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 9 | 4.37 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 9 | 4.37 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 4 | 4.37 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 4 | 4.37 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 4 | 4.37 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 2 | 4.37 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 4 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 8 | 4.37 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 14 | 4.37 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 1 | 4.37 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 17 | 4.37 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 15 | 4.37 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 15 | 4.37 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 2 | 4.37 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 2 | 4.37 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 14 | 4.37 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 18 | 4.37 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 18 | 4.37 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 18 | 4.37 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 14 | 4.37 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 14 | 4.37 |
| (1,1250) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 14 | 4.37 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 8 | 4.37 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 8 | 4.37 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 1 | 4.37 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 3 | 4.37 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 17 | 4.37 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 16 | 4.37 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 16 | 4.37 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 16 | 4.37 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 6 | 4.37 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 6 | 4.37 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 6 | 4.37 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 8 | 4.37 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 6 | 4.37 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 6 | 4.37 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 6 | 4.37 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 7 | 4.37 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 7 | 4.37 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 7 | 4.37 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 8 | 4.37 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 19 | 4.37 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 19 | 4.37 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 19 | 4.37 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 14 | 4.37 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 14 | 4.37 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 9 | 4.37 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 9 | 4.37 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 9 | 4.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 9 | 4.37 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 9 | 4.37 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 9 | 4.37 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 10 | 4.37 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 10 | 4.37 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 10 | 4.37 |
| (1,692) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 19 | 4.37 |
| (1,692) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 19 | 4.37 |
| (1,692) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 19 | 4.37 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 16 | 4.37 |
| (1,592) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 10 | 4.37 |
| (1,592) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 10 | 4.37 |
| (1,592) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 10 | 4.37 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 5 | 4.37 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 5 | 4.37 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 5 | 4.37 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 5 | 4.37 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 5 | 4.37 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 5 | 4.37 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 8 | 4.37 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 14 | 4.37 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 4 | 4.36 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 5 | 4.36 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 14 | 4.36 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 14 | 4.36 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 9 | 4.36 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 9 | 4.36 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 15 | 4.36 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 15 | 4.36 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 15 | 4.36 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 15 | 4.36 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 15 | 4.36 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 15 | 4.36 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 2 | 4.36 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 2 | 4.36 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 2 | 4.36 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 2 | 4.36 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 8 | 4.36 |
| (1,9539) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 8 | 4.36 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 8 | 4.36 |
| (1,9539) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 8 | 4.36 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 7 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 7 | 4.36 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 7 | 4.36 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 7 | 4.36 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 2 | 4.36 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 2 | 4.36 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 2 | 4.36 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 2 | 4.36 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 10 | 4.36 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 10 | 4.36 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 2 | 4.36 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 2 | 4.36 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 14 | 4.36 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 14 | 4.36 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 6 | 4.36 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 6 | 4.36 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 6 | 4.36 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 6 | 4.36 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 6 | 4.36 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 6 | 4.36 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 14 | 4.36 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 14 | 4.36 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 17 | 4.36 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 17 | 4.36 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 13 | 4.36 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 13 | 4.36 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 6 | 4.36 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 6 | 4.36 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 6 | 4.36 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 6 | 4.36 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 6 | 4.36 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 6 | 4.36 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 3 | 4.36 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 3 | 4.36 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 12 | 4.36 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 12 | 4.36 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 12 | 4.36 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 12 | 4.36 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 19 | 4.36 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 19 | 4.36 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 3 | 4.36 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 3 | 4.36 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 20 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 20 | 4.36 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 13 | 4.36 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 13 | 4.36 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 13 | 4.36 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 13 | 4.36 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 6 | 4.36 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 6 | 4.36 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 5 | 4.36 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 5 | 4.36 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 13 | 4.36 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 13 | 4.36 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 17 | 4.36 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 17 | 4.36 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 18 | 4.36 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 18 | 4.36 |
| (1,9117) | 1:87:A:GLU:HB2 | 1:90:A:ASN:HB2 | 7 | 4.36 |
| (1,9117) | 1:87:A:GLU:HB3 | 1:90:A:ASN:HB2 | 7 | 4.36 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 10 | 4.36 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 10 | 4.36 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 18 | 4.36 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 18 | 4.36 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 5 | 4.36 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 5 | 4.36 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 5 | 4.36 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 5 | 4.36 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 5 | 4.36 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 5 | 4.36 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 1 | 4.36 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 1 | 4.36 |
| (1,8835) | 1:60:A:LEU:HB2 | 1:107:A:ALA:HA | 16 | 4.36 |
| (1,8835) | 1:60:A:LEU:HB3 | 1:107:A:ALA:HA | 16 | 4.36 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 19 | 4.36 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 19 | 4.36 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 9 | 4.36 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 9 | 4.36 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 14 | 4.36 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 14 | 4.36 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 16 | 4.36 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 16 | 4.36 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 16 | 4.36 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 16 | 4.36 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 16 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 16 | 4.36 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 11 | 4.36 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 11 | 4.36 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 7 | 4.36 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 7 | 4.36 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 7 | 4.36 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 7 | 4.36 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 10 | 4.36 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 10 | 4.36 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 10 | 4.36 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 10 | 4.36 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 19 | 4.36 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 19 | 4.36 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 16 | 4.36 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 16 | 4.36 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 2 | 4.36 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 2 | 4.36 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 18 | 4.36 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 18 | 4.36 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 10 | 4.36 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 10 | 4.36 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 12 | 4.36 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 12 | 4.36 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 12 | 4.36 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 12 | 4.36 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 19 | 4.36 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 19 | 4.36 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 19 | 4.36 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 19 | 4.36 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 19 | 4.36 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 19 | 4.36 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 18 | 4.36 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 18 | 4.36 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 1 | 4.36 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 1 | 4.36 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 19 | 4.36 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 19 | 4.36 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 19 | 4.36 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 19 | 4.36 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 19 | 4.36 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 19 | 4.36 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 8 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 8 | 4.36 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 8 | 4.36 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 8 | 4.36 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 8 | 4.36 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 8 | 4.36 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 3 | 4.36 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 3 | 4.36 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 16 | 4.36 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 16 | 4.36 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 16 | 4.36 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 16 | 4.36 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 6 | 4.36 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 6 | 4.36 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 6 | 4.36 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 6 | 4.36 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 7 | 4.36 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 19 | 4.36 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 7 | 4.36 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 1 | 4.36 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 1 | 4.36 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 1 | 4.36 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 17 | 4.36 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 20 | 4.36 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 2 | 4.36 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 5 | 4.36 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 1 | 4.36 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 1 | 4.36 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 10 | 4.36 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 15 | 4.36 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 16 | 4.36 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 17 | 4.36 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 13 | 4.36 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 14 | 4.36 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 17 | 4.36 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 2 | 4.36 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 2 | 4.36 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 6 | 4.36 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 6 | 4.36 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 6 | 4.36 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 9 | 4.36 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 9 | 4.36 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 9 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 4 | 4.36 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 1 | 4.36 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 10 | 4.36 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 6 | 4.36 |
| (1,8307) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 20 | 4.36 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 1 | 4.36 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 19 | 4.36 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 12 | 4.36 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 3 | 4.36 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 8 | 4.36 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 12 | 4.36 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 12 | 4.36 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 12 | 4.36 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 15 | 4.36 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 15 | 4.36 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 15 | 4.36 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 20 | 4.36 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 18 | 4.36 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 19 | 4.36 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 19 | 4.36 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 19 | 4.36 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 19 | 4.36 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 19 | 4.36 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 19 | 4.36 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 17 | 4.36 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 17 | 4.36 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 17 | 4.36 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 2 | 4.36 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 8 | 4.36 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 20 | 4.36 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 6 | 4.36 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 16 | 4.36 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 16 | 4.36 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 5 | 4.36 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 5 | 4.36 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 5 | 4.36 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 2 | 4.36 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 15 | 4.36 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 15 | 4.36 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 9 | 4.36 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 9 | 4.36 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 9 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 9 | 4.36 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 9 | 4.36 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 9 | 4.36 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 9 | 4.36 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 9 | 4.36 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 9 | 4.36 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 12 | 4.36 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 19 | 4.36 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 17 | 4.36 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 17 | 4.36 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 17 | 4.36 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 5 | 4.36 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 5 | 4.36 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 5 | 4.36 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 20 | 4.36 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 20 | 4.36 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 20 | 4.36 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 10 | 4.36 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 5 | 4.36 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 13 | 4.36 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 13 | 4.36 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 13 | 4.36 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 8 | 4.36 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 8 | 4.36 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 5 | 4.36 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 11 | 4.36 |
| (1,7913) | 1:68:A:ARG:HA | 1:69:A:ARG:HA | 18 | 4.36 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 13 | 4.36 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 1 | 4.36 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 11 | 4.36 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 11 | 4.36 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 6 | 4.36 |
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 1 | 4.36 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 16 | 4.36 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 2 | 4.36 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 2 | 4.36 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 2 | 4.36 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 2 | 4.36 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 2 | 4.36 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 7 | 4.36 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 15 | 4.36 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 18 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 18 | 4.36 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 18 | 4.36 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 16 | 4.36 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 10 | 4.36 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 6 | 4.36 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 19 | 4.36 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 12 | 4.36 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 12 | 4.36 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 12 | 4.36 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 12 | 4.36 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 16 | 4.36 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 16 | 4.36 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 16 | 4.36 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 16 | 4.36 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 16 | 4.36 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 16 | 4.36 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 16 | 4.36 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 16 | 4.36 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 16 | 4.36 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 14 | 4.36 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 19 | 4.36 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 16 | 4.36 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 5 | 4.36 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 10 | 4.36 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 10 | 4.36 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 1 | 4.36 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 1 | 4.36 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 15 | 4.36 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 15 | 4.36 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 1 | 4.36 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 4 | 4.36 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 8 | 4.36 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 8 | 4.36 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 8 | 4.36 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 2 | 4.36 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 1 | 4.36 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 1 | 4.36 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 12 | 4.36 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 18 | 4.36 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 3 | 4.36 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 3 | 4.36 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 3 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 3 | 4.36 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 3 | 4.36 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 3 | 4.36 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 4 | 4.36 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 4 | 4.36 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 4 | 4.36 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 1 | 4.36 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 1 | 4.36 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 7 | 4.36 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 7 | 4.36 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 5 | 4.36 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 3 | 4.36 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 14 | 4.36 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 3 | 4.36 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 3 | 4.36 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 10 | 4.36 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 1 | 4.36 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 1 | 4.36 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 1 | 4.36 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 14 | 4.36 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 14 | 4.36 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 14 | 4.36 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 16 | 4.36 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 16 | 4.36 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 16 | 4.36 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 1 | 4.36 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 20 | 4.36 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 14 | 4.36 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 14 | 4.36 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 14 | 4.36 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 3 | 4.36 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 18 | 4.36 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 5 | 4.36 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 11 | 4.36 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 19 | 4.36 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 19 | 4.36 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 19 | 4.36 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 3 | 4.36 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 3 | 4.36 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 3 | 4.36 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 17 | 4.36 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 17 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 7 | 4.36 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 7 | 4.36 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 7 | 4.36 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 7 | 4.36 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 18 | 4.36 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 18 | 4.36 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 18 | 4.36 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 18 | 4.36 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 20 | 4.36 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 11 | 4.36 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 11 | 4.36 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 8 | 4.36 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 13 | 4.36 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 2 | 4.36 |
| (1,6639) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 12 | 4.36 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 16 | 4.36 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 14 | 4.36 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 3 | 4.36 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 15 | 4.36 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 10 | 4.36 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 10 | 4.36 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 10 | 4.36 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 4 | 4.36 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 10 | 4.36 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 16 | 4.36 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 10 | 4.36 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 10 | 4.36 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 10 | 4.36 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 16 | 4.36 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 16 | 4.36 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 16 | 4.36 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 16 | 4.36 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 16 | 4.36 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 16 | 4.36 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 16 | 4.36 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 16 | 4.36 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 16 | 4.36 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 20 | 4.36 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 7 | 4.36 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 7 | 4.36 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 7 | 4.36 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 13 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 13 | 4.36 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 13 | 4.36 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 2 | 4.36 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 2 | 4.36 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 2 | 4.36 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 5 | 4.36 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 5 | 4.36 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 5 | 4.36 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 4 | 4.36 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 4 | 4.36 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 4 | 4.36 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 4 | 4.36 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 4 | 4.36 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 4 | 4.36 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 3 | 4.36 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 18 | 4.36 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 18 | 4.36 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 7 | 4.36 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 7 | 4.36 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 7 | 4.36 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 7 | 4.36 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 7 | 4.36 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 7 | 4.36 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 3 | 4.36 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 3 | 4.36 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 3 | 4.36 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 3 | 4.36 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 3 | 4.36 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 3 | 4.36 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 3 | 4.36 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 3 | 4.36 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 3 | 4.36 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 17 | 4.36 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 17 | 4.36 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 17 | 4.36 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 20 | 4.36 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 20 | 4.36 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 20 | 4.36 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 20 | 4.36 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 4 | 4.36 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 10 | 4.36 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 17 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 2 | 4.36 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 4 | 4.36 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 4 | 4.36 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 4 | 4.36 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 6 | 4.36 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 6 | 4.36 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 6 | 4.36 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 6 | 4.36 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 6 | 4.36 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 6 | 4.36 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 8 | 4.36 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 8 | 4.36 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 8 | 4.36 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 17 | 4.36 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 17 | 4.36 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 17 | 4.36 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 6 | 4.36 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 6 | 4.36 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 6 | 4.36 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 5 | 4.36 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 5 | 4.36 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 5 | 4.36 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 5 | 4.36 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 5 | 4.36 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 5 | 4.36 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 3 | 4.36 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 3 | 4.36 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 3 | 4.36 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 9 | 4.36 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 9 | 4.36 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 9 | 4.36 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 17 | 4.36 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 20 | 4.36 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 10 | 4.36 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 10 | 4.36 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 10 | 4.36 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 10 | 4.36 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 10 | 4.36 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 10 | 4.36 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 10 | 4.36 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 10 | 4.36 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 10 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 20 | 4.36 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 13 | 4.36 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 13 | 4.36 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 13 | 4.36 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 9 | 4.36 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 9 | 4.36 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 9 | 4.36 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 3 | 4.36 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 3 | 4.36 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 3 | 4.36 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 5 | 4.36 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 5 | 4.36 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 19 | 4.36 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 13 | 4.36 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 7 | 4.36 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 5 | 4.36 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 15 | 4.36 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 4 | 4.36 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 9 | 4.36 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 7 | 4.36 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 7 | 4.36 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 7 | 4.36 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 13 | 4.36 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 13 | 4.36 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 13 | 4.36 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 6 | 4.36 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 6 | 4.36 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 6 | 4.36 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 10 | 4.36 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 10 | 4.36 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 10 | 4.36 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 7 | 4.36 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 7 | 4.36 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 7 | 4.36 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 7 | 4.36 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 7 | 4.36 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 7 | 4.36 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 7 | 4.36 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 7 | 4.36 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 7 | 4.36 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 18 | 4.36 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 10 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 10 | 4.36 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 10 | 4.36 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 11 | 4.36 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 13 | 4.36 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 13 | 4.36 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 13 | 4.36 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 9 | 4.36 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 9 | 4.36 |
| (1,4570) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 18 | 4.36 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 4 | 4.36 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 4 | 4.36 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 4 | 4.36 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 4 | 4.36 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 4 | 4.36 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 4 | 4.36 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 19 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 16 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 16 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 16 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 16 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 16 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 16 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 18 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 18 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 18 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 18 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 18 | 4.36 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 18 | 4.36 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 2 | 4.36 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 2 | 4.36 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 2 | 4.36 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 2 | 4.36 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 2 | 4.36 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 2 | 4.36 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 14 | 4.36 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 14 | 4.36 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 6 | 4.36 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 6 | 4.36 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 6 | 4.36 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 6 | 4.36 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 6 | 4.36 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 6 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 6 | 4.36 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 6 | 4.36 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 6 | 4.36 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 6 | 4.36 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 6 | 4.36 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 6 | 4.36 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 3 | 4.36 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 3 | 4.36 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 4.36 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 4.36 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 4.36 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 12 | 4.36 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 12 | 4.36 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 8 | 4.36 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 16 | 4.36 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 3 | 4.36 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 3 | 4.36 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 6 | 4.36 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 6 | 4.36 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 14 | 4.36 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 5 | 4.36 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 5 | 4.36 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 5 | 4.36 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 4 | 4.36 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 4 | 4.36 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 7 | 4.36 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 9 | 4.36 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 11 | 4.36 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 16 | 4.36 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 16 | 4.36 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 16 | 4.36 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 16 | 4.36 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 16 | 4.36 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 16 | 4.36 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 10 | 4.36 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 10 | 4.36 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 4.36 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 4.36 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 4.36 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 11 | 4.36 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 11 | 4.36 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 14 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 5 | 4.36 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 8 | 4.36 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 18 | 4.36 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 4 | 4.36 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 4 | 4.36 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 4 | 4.36 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 4 | 4.36 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 4 | 4.36 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 4 | 4.36 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 4.36 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 4.36 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 4.36 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 19 | 4.36 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 19 | 4.36 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 9 | 4.36 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 9 | 4.36 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 6 | 4.36 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 6 | 4.36 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 6 | 4.36 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 16 | 4.36 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 16 | 4.36 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 16 | 4.36 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 16 | 4.36 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 16 | 4.36 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 16 | 4.36 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 6 | 4.36 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 14 | 4.36 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 14 | 4.36 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 13 | 4.36 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 7 | 4.36 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 7 | 4.36 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 18 | 4.36 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 18 | 4.36 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 19 | 4.36 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 19 | 4.36 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 19 | 4.36 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 19 | 4.36 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 19 | 4.36 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 19 | 4.36 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 2 | 4.36 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 2 | 4.36 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 11 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 19 | 4.36 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 19 | 4.36 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 19 | 4.36 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 19 | 4.36 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 19 | 4.36 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 19 | 4.36 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 8 | 4.36 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 7 | 4.36 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 10 | 4.36 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 10 | 4.36 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 10 | 4.36 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 16 | 4.36 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 16 | 4.36 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 16 | 4.36 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 5 | 4.36 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 12 | 4.36 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 4 | 4.36 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 8 | 4.36 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 14 | 4.36 |
| (1,3318) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 15 | 4.36 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 3 | 4.36 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 14 | 4.36 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 3 | 4.36 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 3 | 4.36 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 10 | 4.36 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 1 | 4.36 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 1 | 4.36 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 1 | 4.36 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 14 | 4.36 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 14 | 4.36 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 14 | 4.36 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 16 | 4.36 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 16 | 4.36 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 16 | 4.36 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 1 | 4.36 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 20 | 4.36 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 14 | 4.36 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 14 | 4.36 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 14 | 4.36 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 3 | 4.36 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 18 | 4.36 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 5 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 11 | 4.36 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 7 | 4.36 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 17 | 4.36 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 19 | 4.36 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 19 | 4.36 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 19 | 4.36 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 3 | 4.36 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 3 | 4.36 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 3 | 4.36 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 4 | 4.36 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 4 | 4.36 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 17 | 4.36 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 17 | 4.36 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 7 | 4.36 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 7 | 4.36 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 7 | 4.36 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 7 | 4.36 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 18 | 4.36 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 18 | 4.36 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 18 | 4.36 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 18 | 4.36 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 20 | 4.36 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 11 | 4.36 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 11 | 4.36 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 8 | 4.36 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 2 | 4.36 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 2 | 4.36 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 2 | 4.36 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 13 | 4.36 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 2 | 4.36 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 11 | 4.36 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 11 | 4.36 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 11 | 4.36 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 4 | 4.36 |
| (1,2504) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 12 | 4.36 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 3 | 4.36 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 16 | 4.36 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 14 | 4.36 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 3 | 4.36 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 4 | 4.36 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 15 | 4.36 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 10 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 10 | 4.36 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 10 | 4.36 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 4 | 4.36 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 10 | 4.36 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 16 | 4.36 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 20 | 4.36 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 11 | 4.36 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 11 | 4.36 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 11 | 4.36 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 10 | 4.36 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 10 | 4.36 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 10 | 4.36 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 5 | 4.36 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 2 | 4.36 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 16 | 4.36 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 16 | 4.36 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 16 | 4.36 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 16 | 4.36 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 16 | 4.36 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 16 | 4.36 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 16 | 4.36 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 16 | 4.36 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 16 | 4.36 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 20 | 4.36 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 7 | 4.36 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 7 | 4.36 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 7 | 4.36 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 13 | 4.36 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 13 | 4.36 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 13 | 4.36 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 2 | 4.36 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 2 | 4.36 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 2 | 4.36 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 5 | 4.36 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 5 | 4.36 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 5 | 4.36 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 4 | 4.36 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 4 | 4.36 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 4 | 4.36 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 4 | 4.36 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 4 | 4.36 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 4 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 3 | 4.36 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 18 | 4.36 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 18 | 4.36 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 7 | 4.36 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 7 | 4.36 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 7 | 4.36 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 7 | 4.36 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 7 | 4.36 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 7 | 4.36 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 1 | 4.36 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 1 | 4.36 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 1 | 4.36 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 1 | 4.36 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 1 | 4.36 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 1 | 4.36 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 3 | 4.36 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 3 | 4.36 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 3 | 4.36 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 3 | 4.36 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 3 | 4.36 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 3 | 4.36 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 3 | 4.36 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 3 | 4.36 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 3 | 4.36 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 17 | 4.36 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 17 | 4.36 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 17 | 4.36 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 7 | 4.36 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 20 | 4.36 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 20 | 4.36 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 20 | 4.36 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 2 | 4.36 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 2 | 4.36 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 2 | 4.36 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 20 | 4.36 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 4 | 4.36 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 10 | 4.36 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 17 | 4.36 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 2 | 4.36 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 4 | 4.36 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 4 | 4.36 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 4 | 4.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 18 | 4.36 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 18 | 4.36 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 18 | 4.36 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 6 | 4.36 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 6 | 4.36 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 6 | 4.36 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 6 | 4.36 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 6 | 4.36 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 6 | 4.36 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 8 | 4.36 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 8 | 4.36 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 8 | 4.36 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 17 | 4.36 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 17 | 4.36 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 17 | 4.36 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 6 | 4.36 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 6 | 4.36 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 6 | 4.36 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 8 | 4.36 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 8 | 4.36 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 8 | 4.36 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 1 | 4.36 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 18 | 4.36 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 4.36 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 5 | 4.36 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 5 | 4.36 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 5 | 4.36 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 5 | 4.36 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 5 | 4.36 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 5 | 4.36 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 3 | 4.36 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 3 | 4.36 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 3 | 4.36 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 9 | 4.36 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 9 | 4.36 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 9 | 4.36 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 12 | 4.36 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 11 | 4.36 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 18 | 4.35 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 4 | 4.35 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 19 | 4.35 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 18 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 18 | 4.35 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 16 | 4.35 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 16 | 4.35 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 8 | 4.35 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 8 | 4.35 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 4 | 4.35 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 4 | 4.35 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 12 | 4.35 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 12 | 4.35 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 7 | 4.35 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 7 | 4.35 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 7 | 4.35 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 7 | 4.35 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 6 | 4.35 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 6 | 4.35 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 6 | 4.35 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 6 | 4.35 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 16 | 4.35 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 16 | 4.35 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 16 | 4.35 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 16 | 4.35 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 10 | 4.35 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 10 | 4.35 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 1 | 4.35 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 1 | 4.35 |
| (1,9350) | 1:109:A:GLN:HB2 | 1:111:A:SER:H | 8 | 4.35 |
| (1,9350) | 1:109:A:GLN:HB3 | 1:111:A:SER:H | 8 | 4.35 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 4 | 4.35 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 4 | 4.35 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 13 | 4.35 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 13 | 4.35 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 18 | 4.35 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 18 | 4.35 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 18 | 4.35 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 18 | 4.35 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 18 | 4.35 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 18 | 4.35 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 16 | 4.35 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 16 | 4.35 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 16 | 4.35 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 16 | 4.35 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 16 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 16 | 4.35 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 7 | 4.35 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 7 | 4.35 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 13 | 4.35 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 13 | 4.35 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 3 | 4.35 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 3 | 4.35 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 5 | 4.35 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 5 | 4.35 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 13 | 4.35 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 13 | 4.35 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 10 | 4.35 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 10 | 4.35 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 10 | 4.35 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 10 | 4.35 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 17 | 4.35 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 17 | 4.35 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 17 | 4.35 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 17 | 4.35 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 9 | 4.35 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 9 | 4.35 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 9 | 4.35 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 9 | 4.35 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 9 | 4.35 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 9 | 4.35 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 9 | 4.35 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 9 | 4.35 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 1 | 4.35 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 1 | 4.35 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 1 | 4.35 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 1 | 4.35 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 1 | 4.35 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 1 | 4.35 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 15 | 4.35 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 15 | 4.35 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 15 | 4.35 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 15 | 4.35 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 7 | 4.35 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 7 | 4.35 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 13 | 4.35 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 13 | 4.35 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 4.35 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 4.35 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 4.35 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 4.35 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 4.35 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 2 | 4.35 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 2 | 4.35 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 7 | 4.35 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 7 | 4.35 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 7 | 4.35 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 7 | 4.35 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 2 | 4.35 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 2 | 4.35 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 13 | 4.35 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 13 | 4.35 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 2 | 4.35 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 2 | 4.35 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 10 | 4.35 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 10 | 4.35 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 10 | 4.35 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 10 | 4.35 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 16 | 4.35 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 16 | 4.35 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 16 | 4.35 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 16 | 4.35 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 7 | 4.35 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 7 | 4.35 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 7 | 4.35 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 7 | 4.35 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 7 | 4.35 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 7 | 4.35 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 14 | 4.35 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 14 | 4.35 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 4 | 4.35 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 20 | 4.35 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 20 | 4.35 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 20 | 4.35 |
| (1,8449) | 1:146:A:MET:HA | 1:147:A:SER:HA | 14 | 4.35 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 7 | 4.35 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 4 | 4.35 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 12 | 4.35 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 18 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 9 | 4.35 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 19 | 4.35 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 6 | 4.35 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 7 | 4.35 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 14 | 4.35 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 8 | 4.35 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 13 | 4.35 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 13 | 4.35 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 13 | 4.35 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 12 | 4.35 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 13 | 4.35 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 19 | 4.35 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 12 | 4.35 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 15 | 4.35 |
| (1,8243) | 1:115:A:SER:HA | 1:116:A:ALA:HA | 7 | 4.35 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 5 | 4.35 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 17 | 4.35 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 3 | 4.35 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 18 | 4.35 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 18 | 4.35 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 20 | 4.35 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 20 | 4.35 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 20 | 4.35 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 20 | 4.35 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 20 | 4.35 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 20 | 4.35 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 20 | 4.35 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 20 | 4.35 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 20 | 4.35 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 2 | 4.35 |
| (1,8131) | 1:95:A:LYS:HA | 1:96:A:ILE:HA | 18 | 4.35 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 18 | 4.35 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 18 | 4.35 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 10 | 4.35 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 8 | 4.35 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 8 | 4.35 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 8 | 4.35 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 18 | 4.35 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 18 | 4.35 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 18 | 4.35 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 18 | 4.35 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 18 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 18 | 4.35 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 18 | 4.35 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 18 | 4.35 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 18 | 4.35 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 9 | 4.35 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 9 | 4.35 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 9 | 4.35 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 13 | 4.35 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 9 | 4.35 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 9 | 4.35 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 19 | 4.35 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 19 | 4.35 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 19 | 4.35 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 2 | 4.35 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 7 | 4.35 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 6 | 4.35 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 16 | 4.35 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 16 | 4.35 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 16 | 4.35 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 2 | 4.35 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 12 | 4.35 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 8 | 4.35 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 8 | 4.35 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 8 | 4.35 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 8 | 4.35 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 8 | 4.35 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 8 | 4.35 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 10 | 4.35 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 10 | 4.35 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 2 | 4.35 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 2 | 4.35 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 3 | 4.35 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 3 | 4.35 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 3 | 4.35 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 3 | 4.35 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 3 | 4.35 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 3 | 4.35 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 12 | 4.35 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 12 | 4.35 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 12 | 4.35 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 2 | 4.35 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 19 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 11 | 4.35 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 11 | 4.35 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 8 | 4.35 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 5 | 4.35 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 8 | 4.35 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 14 | 4.35 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 11 | 4.35 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 11 | 4.35 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 11 | 4.35 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 5 | 4.35 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 5 | 4.35 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 7 | 4.35 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 4 | 4.35 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 13 | 4.35 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 3 | 4.35 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 9 | 4.35 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 12 | 4.35 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 3 | 4.35 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 19 | 4.35 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 19 | 4.35 |
| (1,7530) | 1:14:A:ARG:H | 1:24:A:TYR:H | 10 | 4.35 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 2 | 4.35 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 2 | 4.35 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 18 | 4.35 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 18 | 4.35 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 12 | 4.35 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 18 | 4.35 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 18 | 4.35 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 18 | 4.35 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 10 | 4.35 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 13 | 4.35 |
| (1,7391) | 1:2:A:ALA:HA | 1:3:A:ASP:HA | 1 | 4.35 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 14 | 4.35 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 14 | 4.35 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 14 | 4.35 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 14 | 4.35 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 14 | 4.35 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 14 | 4.35 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 16 | 4.35 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 3 | 4.35 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 3 | 4.35 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 3 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 5 | 4.35 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 5 | 4.35 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 5 | 4.35 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 7 | 4.35 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 7 | 4.35 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 11 | 4.35 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 11 | 4.35 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 16 | 4.35 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 16 | 4.35 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 16 | 4.35 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 6 | 4.35 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 2 | 4.35 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 2 | 4.35 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 2 | 4.35 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 3 | 4.35 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 9 | 4.35 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 15 | 4.35 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 15 | 4.35 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 15 | 4.35 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 20 | 4.35 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 6 | 4.35 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 6 | 4.35 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 6 | 4.35 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 16 | 4.35 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 16 | 4.35 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 16 | 4.35 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 2 | 4.35 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 2 | 4.35 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 19 | 4.35 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 19 | 4.35 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 9 | 4.35 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 6 | 4.35 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 11 | 4.35 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 17 | 4.35 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 4.35 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 4.35 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 7 | 4.35 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 7 | 4.35 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 7 | 4.35 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 3 | 4.35 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 6 | 4.35 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 11 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6710) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 10 | 4.35 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 13 | 4.35 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 13 | 4.35 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 2 | 4.35 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 18 | 4.35 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 18 | 4.35 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 18 | 4.35 |
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 19 | 4.35 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 1 | 4.35 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 1 | 4.35 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 1 | 4.35 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 14 | 4.35 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 6 | 4.35 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 6 | 4.35 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 6 | 4.35 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 15 | 4.35 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 14 | 4.35 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 4 | 4.35 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 13 | 4.35 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 13 | 4.35 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 13 | 4.35 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 2 | 4.35 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 2 | 4.35 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 2 | 4.35 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 20 | 4.35 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 1 | 4.35 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 1 | 4.35 |
| (1,6251) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 1 | 4.35 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 2 | 4.35 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 15 | 4.35 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 15 | 4.35 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 15 | 4.35 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 17 | 4.35 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 14 | 4.35 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 4 | 4.35 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 4 | 4.35 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 5 | 4.35 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 5 | 4.35 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 1 | 4.35 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 1 | 4.35 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 1 | 4.35 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 18 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 18 | 4.35 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 18 | 4.35 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 12 | 4.35 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 12 | 4.35 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 12 | 4.35 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 11 | 4.35 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 11 | 4.35 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 15 | 4.35 |
| (1,5928) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 9 | 4.35 |
| (1,5928) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 9 | 4.35 |
| (1,5928) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 9 | 4.35 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 14 | 4.35 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 8 | 4.35 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 7 | 4.35 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 7 | 4.35 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 7 | 4.35 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 6 | 4.35 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 6 | 4.35 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 6 | 4.35 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 15 | 4.35 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 18 | 4.35 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 18 | 4.35 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 18 | 4.35 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 8 | 4.35 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 8 | 4.35 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 8 | 4.35 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 8 | 4.35 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 8 | 4.35 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 8 | 4.35 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 12 | 4.35 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 10 | 4.35 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 12 | 4.35 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 12 | 4.35 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 12 | 4.35 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 3 | 4.35 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 3 | 4.35 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 3 | 4.35 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 3 | 4.35 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 3 | 4.35 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 3 | 4.35 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 4 | 4.35 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 6 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 6 | 4.35 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 9 | 4.35 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 9 | 4.35 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 9 | 4.35 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 3 | 4.35 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 3 | 4.35 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 3 | 4.35 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 4 | 4.35 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 18 | 4.35 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 18 | 4.35 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 18 | 4.35 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 17 | 4.35 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 17 | 4.35 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 17 | 4.35 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 5 | 4.35 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 5 | 4.35 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 5 | 4.35 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 17 | 4.35 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 17 | 4.35 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 7 | 4.35 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 10 | 4.35 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 4 | 4.35 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 4 | 4.35 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 13 | 4.35 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 13 | 4.35 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 13 | 4.35 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 13 | 4.35 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 4 | 4.35 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 4 | 4.35 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 20 | 4.35 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 18 | 4.35 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 7 | 4.35 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 7 | 4.35 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 7 | 4.35 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 2 | 4.35 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 2 | 4.35 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 2 | 4.35 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 8 | 4.35 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 8 | 4.35 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 8 | 4.35 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 3 | 4.35 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 3 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 3 | 4.35 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 7 | 4.35 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 7 | 4.35 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 7 | 4.35 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 7 | 4.35 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 7 | 4.35 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 7 | 4.35 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 7 | 4.35 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 7 | 4.35 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 7 | 4.35 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 18 | 4.35 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 12 | 4.35 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 15 | 4.35 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 15 | 4.35 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 15 | 4.35 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 11 | 4.35 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 11 | 4.35 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 11 | 4.35 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 6 | 4.35 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 6 | 4.35 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 10 | 4.35 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 16 | 4.35 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 16 | 4.35 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 4 | 4.35 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 17 | 4.35 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 17 | 4.35 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 17 | 4.35 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 15 | 4.35 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 11 | 4.35 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 11 | 4.35 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 11 | 4.35 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 16 | 4.35 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 16 | 4.35 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 16 | 4.35 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 8 | 4.35 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 3 | 4.35 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 3 | 4.35 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 3 | 4.35 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 7 | 4.35 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 7 | 4.35 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 7 | 4.35 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 7 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 6 | 4.35 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 6 | 4.35 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 6 | 4.35 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 6 | 4.35 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 16 | 4.35 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 16 | 4.35 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 14 | 4.35 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 1 | 4.35 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 1 | 4.35 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 4 | 4.35 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 4 | 4.35 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 13 | 4.35 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 13 | 4.35 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 18 | 4.35 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 18 | 4.35 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 18 | 4.35 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 18 | 4.35 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 18 | 4.35 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 18 | 4.35 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 4.35 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 4.35 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 4.35 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 4.35 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 4.35 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 4.35 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 16 | 4.35 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 16 | 4.35 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 16 | 4.35 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 16 | 4.35 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 16 | 4.35 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 16 | 4.35 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 7 | 4.35 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 7 | 4.35 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 13 | 4.35 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 13 | 4.35 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 3 | 4.35 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 3 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 8 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 8 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 8 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 8 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 8 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 8 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 10 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 10 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 10 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 10 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 10 | 4.35 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 10 | 4.35 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 5 | 4.35 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 5 | 4.35 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 17 | 4.35 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 17 | 4.35 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 17 | 4.35 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 17 | 4.35 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 9 | 4.35 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 9 | 4.35 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 9 | 4.35 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 9 | 4.35 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 9 | 4.35 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 9 | 4.35 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 10 | 4.35 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 1 | 4.35 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 1 | 4.35 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 1 | 4.35 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 1 | 4.35 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 1 | 4.35 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 1 | 4.35 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 1 | 4.35 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 12 | 4.35 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 7 | 4.35 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 7 | 4.35 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 4.35 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 4.35 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 4.35 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 4.35 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 4.35 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 4.35 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 19 | 4.35 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 19 | 4.35 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 19 | 4.35 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 19 | 4.35 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 11 | 4.35 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 11 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 11 | 4.35 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 11 | 4.35 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 16 | 4.35 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 2 | 4.35 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 2 | 4.35 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 10 | 4.35 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 2 | 4.35 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 2 | 4.35 |
| (1,3628) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 18 | 4.35 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 16 | 4.35 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 16 | 4.35 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 16 | 4.35 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 16 | 4.35 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 18 | 4.35 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 7 | 4.35 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 7 | 4.35 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 7 | 4.35 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 7 | 4.35 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 7 | 4.35 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 7 | 4.35 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 2 | 4.35 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 1 | 4.35 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 1 | 4.35 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 1 | 4.35 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 15 | 4.35 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 16 | 4.35 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 3 | 4.35 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 3 | 4.35 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 3 | 4.35 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 4.35 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 5 | 4.35 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 5 | 4.35 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 5 | 4.35 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 7 | 4.35 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 7 | 4.35 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 11 | 4.35 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 11 | 4.35 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 16 | 4.35 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 16 | 4.35 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 16 | 4.35 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 1 | 4.35 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 15 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 6 | 4.35 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 2 | 4.35 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 2 | 4.35 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 2 | 4.35 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 3 | 4.35 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 17 | 4.35 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 9 | 4.35 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 15 | 4.35 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 15 | 4.35 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 15 | 4.35 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 20 | 4.35 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 6 | 4.35 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 6 | 4.35 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 6 | 4.35 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 16 | 4.35 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 16 | 4.35 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 16 | 4.35 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 2 | 4.35 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 2 | 4.35 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 19 | 4.35 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 19 | 4.35 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 9 | 4.35 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 8 | 4.35 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 8 | 4.35 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 6 | 4.35 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 11 | 4.35 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 17 | 4.35 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 4 | 4.35 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 4 | 4.35 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 4.35 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 4.35 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 7 | 4.35 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 7 | 4.35 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 7 | 4.35 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 3 | 4.35 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 6 | 4.35 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 11 | 4.35 |
| (1,2620) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 10 | 4.35 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 13 | 4.35 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 5 | 4.35 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 8 | 4.35 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 8 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 8 | 4.35 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 10 | 4.35 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 10 | 4.35 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 10 | 4.35 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 18 | 4.35 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 13 | 4.35 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 2 | 4.35 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 18 | 4.35 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 18 | 4.35 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 18 | 4.35 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 12 | 4.35 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 19 | 4.35 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 1 | 4.35 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 1 | 4.35 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 1 | 4.35 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 14 | 4.35 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 1 | 4.35 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 6 | 4.35 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 6 | 4.35 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 6 | 4.35 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 15 | 4.35 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 14 | 4.35 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 4 | 4.35 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 10 | 4.35 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 10 | 4.35 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 10 | 4.35 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 13 | 4.35 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 13 | 4.35 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 13 | 4.35 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 2 | 4.35 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 2 | 4.35 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 2 | 4.35 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 20 | 4.35 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 1 | 4.35 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 1 | 4.35 |
| (1,1904) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 1 | 4.35 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 2 | 4.35 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 15 | 4.35 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 15 | 4.35 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 15 | 4.35 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 17 | 4.35 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 14 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 4 | 4.35 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 4 | 4.35 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 5 | 4.35 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 5 | 4.35 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 1 | 4.35 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 1 | 4.35 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 1 | 4.35 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 18 | 4.35 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 18 | 4.35 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 18 | 4.35 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 12 | 4.35 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 12 | 4.35 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 12 | 4.35 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 7 | 4.35 |
| (1,1535) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 7 | 4.35 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 11 | 4.35 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 11 | 4.35 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 14 | 4.35 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 8 | 4.35 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 15 | 4.35 |
| (1,1354) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 9 | 4.35 |
| (1,1354) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 9 | 4.35 |
| (1,1354) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 9 | 4.35 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 14 | 4.35 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 8 | 4.35 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 5 | 4.35 |
| (1,1038) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 8 | 4.35 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 7 | 4.35 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 7 | 4.35 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 7 | 4.35 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 6 | 4.35 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 6 | 4.35 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 6 | 4.35 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 15 | 4.35 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 18 | 4.35 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 18 | 4.35 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 18 | 4.35 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 8 | 4.35 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 8 | 4.35 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 8 | 4.35 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 8 | 4.35 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 8 | 4.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 8 | 4.35 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 19 | 4.35 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 12 | 4.35 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 10 | 4.35 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 12 | 4.35 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 12 | 4.35 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 12 | 4.35 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 3 | 4.35 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 3 | 4.35 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 3 | 4.35 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 9 | 4.35 |
| (1,644) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 7 | 4.35 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 4 | 4.35 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 4 | 4.35 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 4 | 4.35 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 4 | 4.35 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 4 | 4.35 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 4 | 4.35 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 16 | 4.35 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 16 | 4.35 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 16 | 4.35 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 16 | 4.35 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 16 | 4.35 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 16 | 4.35 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 7 | 4.34 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 16 | 4.34 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 16 | 4.34 |
| (4,108) | 1:90:A:ASN:CB | 1:7:A:LEU:H | 12 | 4.34 |
| (4,34) | 1:15:A:MET:CB | 1:85:A:ALA:H | 2 | 4.34 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 15 | 4.34 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 15 | 4.34 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 8 | 4.34 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 8 | 4.34 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 11 | 4.34 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 11 | 4.34 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 10 | 4.34 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 10 | 4.34 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 10 | 4.34 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 10 | 4.34 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 10 | 4.34 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 10 | 4.34 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 10 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 10 | 4.34 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 20 | 4.34 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 20 | 4.34 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 20 | 4.34 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 20 | 4.34 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 18 | 4.34 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 18 | 4.34 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 17 | 4.34 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 17 | 4.34 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 16 | 4.34 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 16 | 4.34 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 13 | 4.34 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 13 | 4.34 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 13 | 4.34 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 13 | 4.34 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 7 | 4.34 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 7 | 4.34 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 15 | 4.34 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 15 | 4.34 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 12 | 4.34 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 12 | 4.34 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 11 | 4.34 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 11 | 4.34 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 9 | 4.34 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 9 | 4.34 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 17 | 4.34 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 17 | 4.34 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 12 | 4.34 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 12 | 4.34 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 12 | 4.34 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 12 | 4.34 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 10 | 4.34 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 10 | 4.34 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 10 | 4.34 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 10 | 4.34 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 8 | 4.34 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 8 | 4.34 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 8 | 4.34 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 8 | 4.34 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 18 | 4.34 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 18 | 4.34 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 5 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 5 | 4.34 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 19 | 4.34 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 19 | 4.34 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 2 | 4.34 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 2 | 4.34 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 6 | 4.34 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 6 | 4.34 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 20 | 4.34 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 20 | 4.34 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 20 | 4.34 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 4.34 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 4.34 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 4.34 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 5 | 4.34 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 5 | 4.34 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 6 | 4.34 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 6 | 4.34 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 15 | 4.34 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 15 | 4.34 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 16 | 4.34 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 16 | 4.34 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 16 | 4.34 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 16 | 4.34 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 16 | 4.34 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 16 | 4.34 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 13 | 4.34 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 13 | 4.34 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 1 | 4.34 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 1 | 4.34 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 6 | 4.34 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 6 | 4.34 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 11 | 4.34 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 11 | 4.34 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 9 | 4.34 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 9 | 4.34 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 9 | 4.34 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 9 | 4.34 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 9 | 4.34 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 9 | 4.34 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 3 | 4.34 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 3 | 4.34 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 5 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 5 | 4.34 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 5 | 4.34 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 5 | 4.34 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 12 | 4.34 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 12 | 4.34 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 14 | 4.34 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 14 | 4.34 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 14 | 4.34 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 14 | 4.34 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 20 | 4.34 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 20 | 4.34 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 20 | 4.34 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 20 | 4.34 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 20 | 4.34 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 20 | 4.34 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 8 | 4.34 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 8 | 4.34 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 4 | 4.34 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 4 | 4.34 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 12 | 4.34 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 12 | 4.34 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 15 | 4.34 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 15 | 4.34 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 2 | 4.34 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 2 | 4.34 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 11 | 4.34 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 11 | 4.34 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 10 | 4.34 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 10 | 4.34 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 10 | 4.34 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 10 | 4.34 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 13 | 4.34 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 13 | 4.34 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 13 | 4.34 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 8 | 4.34 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 8 | 4.34 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 8 | 4.34 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 18 | 4.34 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 18 | 4.34 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 7 | 4.34 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 10 | 4.34 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 12 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 18 | 4.34 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 20 | 4.34 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 4 | 4.34 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 7 | 4.34 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 7 | 4.34 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 8 | 4.34 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 8 | 4.34 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 8 | 4.34 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 9 | 4.34 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 9 | 4.34 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 9 | 4.34 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 14 | 4.34 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 14 | 4.34 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 14 | 4.34 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 2 | 4.34 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 2 | 4.34 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 2 | 4.34 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 13 | 4.34 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 10 | 4.34 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 10 | 4.34 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 18 | 4.34 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 14 | 4.34 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 14 | 4.34 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 11 | 4.34 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 17 | 4.34 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 2 | 4.34 |
| (1,8181) | 1:102:A:ASP:H | 1:105:A:SER:H | 18 | 4.34 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 16 | 4.34 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 3 | 4.34 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 3 | 4.34 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 3 | 4.34 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 7 | 4.34 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 7 | 4.34 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 7 | 4.34 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 7 | 4.34 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 7 | 4.34 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 7 | 4.34 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 7 | 4.34 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 7 | 4.34 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 7 | 4.34 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 3 | 4.34 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 3 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 8 | 4.34 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 8 | 4.34 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 8 | 4.34 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 1 | 4.34 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 14 | 4.34 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 14 | 4.34 |
| (1,8060) | 1:89:A:ILE:H | 1:90:A:ASN:HB2 | 14 | 4.34 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 5 | 4.34 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 15 | 4.34 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 13 | 4.34 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 17 | 4.34 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 10 | 4.34 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 10 | 4.34 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 10 | 4.34 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 11 | 4.34 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 8 | 4.34 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 13 | 4.34 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 13 | 4.34 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 13 | 4.34 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 18 | 4.34 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 13 | 4.34 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 13 | 4.34 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 13 | 4.34 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 3 | 4.34 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 5 | 4.34 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 17 | 4.34 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 3 | 4.34 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 3 | 4.34 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 19 | 4.34 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 19 | 4.34 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 8 | 4.34 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 16 | 4.34 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 18 | 4.34 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 15 | 4.34 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 15 | 4.34 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 4 | 4.34 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 16 | 4.34 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 6 | 4.34 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 6 | 4.34 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 6 | 4.34 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 15 | 4.34 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 17 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 10 | 4.34 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 20 | 4.34 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 20 | 4.34 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 1 | 4.34 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 1 | 4.34 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 5 | 4.34 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 5 | 4.34 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 5 | 4.34 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 7 | 4.34 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 7 | 4.34 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 18 | 4.34 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 18 | 4.34 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 1 | 4.34 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 20 | 4.34 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 20 | 4.34 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 5 | 4.34 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 5 | 4.34 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 5 | 4.34 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 9 | 4.34 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 11 | 4.34 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 12 | 4.34 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 12 | 4.34 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 12 | 4.34 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 8 | 4.34 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 8 | 4.34 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 8 | 4.34 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 12 | 4.34 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 12 | 4.34 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 12 | 4.34 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 3 | 4.34 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 9 | 4.34 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 9 | 4.34 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 14 | 4.34 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 3 | 4.34 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 13 | 4.34 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 15 | 4.34 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 19 | 4.34 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 6 | 4.34 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 19 | 4.34 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 19 | 4.34 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 10 | 4.34 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 4 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 5 | 4.34 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 16 | 4.34 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 12 | 4.34 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 1 | 4.34 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 12 | 4.34 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 12 | 4.34 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 12 | 4.34 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 4 | 4.34 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 4 | 4.34 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 19 | 4.34 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 19 | 4.34 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 9 | 4.34 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 17 | 4.34 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 17 | 4.34 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 17 | 4.34 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 4.34 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 9 | 4.34 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 5 | 4.34 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 15 | 4.34 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 13 | 4.34 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 10 | 4.34 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 1 | 4.34 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 6 | 4.34 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 5 | 4.34 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 3 | 4.34 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 3 | 4.34 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 3 | 4.34 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 14 | 4.34 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 14 | 4.34 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 14 | 4.34 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 6 | 4.34 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 6 | 4.34 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 6 | 4.34 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 8 | 4.34 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 8 | 4.34 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 8 | 4.34 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 7 | 4.34 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 7 | 4.34 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 15 | 4.34 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 15 | 4.34 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 15 | 4.34 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 15 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 2 | 4.34 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 2 | 4.34 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 6 | 4.34 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 4 | 4.34 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 12 | 4.34 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 12 | 4.34 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 10 | 4.34 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 10 | 4.34 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 10 | 4.34 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 2 | 4.34 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 2 | 4.34 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 18 | 4.34 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 18 | 4.34 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 16 | 4.34 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 11 | 4.34 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 10 | 4.34 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 4 | 4.34 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 18 | 4.34 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 7 | 4.34 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 7 | 4.34 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 4 | 4.34 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 4 | 4.34 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 4 | 4.34 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 4.34 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 4.34 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 4.34 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 13 | 4.34 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 7 | 4.34 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 7 | 4.34 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 7 | 4.34 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 11 | 4.34 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 16 | 4.34 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 16 | 4.34 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 16 | 4.34 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 16 | 4.34 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 16 | 4.34 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 16 | 4.34 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 5 | 4.34 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 5 | 4.34 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 5 | 4.34 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 13 | 4.34 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 13 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 13 | 4.34 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 12 | 4.34 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 12 | 4.34 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 12 | 4.34 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 18 | 4.34 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 18 | 4.34 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 18 | 4.34 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 16 | 4.34 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 7 | 4.34 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 7 | 4.34 |
| (1,5511) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 7 | 4.34 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 12 | 4.34 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 18 | 4.34 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 19 | 4.34 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 9 | 4.34 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 6 | 4.34 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 6 | 4.34 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 16 | 4.34 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 16 | 4.34 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 18 | 4.34 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 6 | 4.34 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 16 | 4.34 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 16 | 4.34 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 16 | 4.34 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 7 | 4.34 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 7 | 4.34 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 7 | 4.34 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 5 | 4.34 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 5 | 4.34 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 5 | 4.34 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 17 | 4.34 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 17 | 4.34 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 17 | 4.34 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 17 | 4.34 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 17 | 4.34 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 17 | 4.34 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 16 | 4.34 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 17 | 4.34 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 17 | 4.34 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 17 | 4.34 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 8 | 4.34 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 8 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 10 | 4.34 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 10 | 4.34 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 10 | 4.34 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 10 | 4.34 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 18 | 4.34 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 18 | 4.34 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 4.34 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 16 | 4.34 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 16 | 4.34 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 5 | 4.34 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 15 | 4.34 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 15 | 4.34 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 4 | 4.34 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 4 | 4.34 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 4 | 4.34 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 4 | 4.34 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 9 | 4.34 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 9 | 4.34 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 4.34 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 4.34 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 17 | 4.34 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 17 | 4.34 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 8 | 4.34 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 8 | 4.34 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 12 | 4.34 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 12 | 4.34 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 12 | 4.34 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 12 | 4.34 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 8 | 4.34 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 4 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 5 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 5 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 5 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 5 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 5 | 4.34 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 5 | 4.34 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 7 | 4.34 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 13 | 4.34 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 13 | 4.34 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 13 | 4.34 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 13 | 4.34 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 13 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 13 | 4.34 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 18 | 4.34 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 18 | 4.34 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 1 | 4.34 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 1 | 4.34 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 1 | 4.34 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 16 | 4.34 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 6 | 4.34 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 6 | 4.34 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 20 | 4.34 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 20 | 4.34 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 20 | 4.34 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 4.34 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 4.34 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 4.34 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 13 | 4.34 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 16 | 4.34 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 16 | 4.34 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 16 | 4.34 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 16 | 4.34 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 16 | 4.34 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 16 | 4.34 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 13 | 4.34 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 5 | 4.34 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 6 | 4.34 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 6 | 4.34 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 7 | 4.34 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 7 | 4.34 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 7 | 4.34 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 1 | 4.34 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 1 | 4.34 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 16 | 4.34 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 16 | 4.34 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 16 | 4.34 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 16 | 4.34 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 16 | 4.34 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 16 | 4.34 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 3 | 4.34 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 15 | 4.34 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 11 | 4.34 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 11 | 4.34 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 9 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 9 | 4.34 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 9 | 4.34 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 9 | 4.34 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 9 | 4.34 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 9 | 4.34 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 12 | 4.34 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 9 | 4.34 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 9 | 4.34 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 11 | 4.34 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 11 | 4.34 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 11 | 4.34 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 11 | 4.34 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 11 | 4.34 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 11 | 4.34 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 16 | 4.34 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 19 | 4.34 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 19 | 4.34 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 15 | 4.34 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 15 | 4.34 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 1 | 4.34 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 2 | 4.34 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 2 | 4.34 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 11 | 4.34 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 11 | 4.34 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 5 | 4.34 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 5 | 4.34 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 5 | 4.34 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 9 | 4.34 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 11 | 4.34 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 12 | 4.34 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 12 | 4.34 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 12 | 4.34 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 8 | 4.34 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 8 | 4.34 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 8 | 4.34 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 12 | 4.34 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 12 | 4.34 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 12 | 4.34 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 3 | 4.34 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 9 | 4.34 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 9 | 4.34 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 14 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 3 | 4.34 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 13 | 4.34 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 15 | 4.34 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 19 | 4.34 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 6 | 4.34 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 19 | 4.34 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 19 | 4.34 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 4 | 4.34 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 10 | 4.34 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 4 | 4.34 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 5 | 4.34 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 16 | 4.34 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 12 | 4.34 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 1 | 4.34 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 12 | 4.34 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 12 | 4.34 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 12 | 4.34 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 4 | 4.34 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 4 | 4.34 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 19 | 4.34 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 19 | 4.34 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 9 | 4.34 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 17 | 4.34 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 17 | 4.34 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 17 | 4.34 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 8 | 4.34 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 8 | 4.34 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 8 | 4.34 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 4.34 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 20 | 4.34 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 9 | 4.34 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 5 | 4.34 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 15 | 4.34 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 13 | 4.34 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 10 | 4.34 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 1 | 4.34 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 8 | 4.34 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 2 | 4.34 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 11 | 4.34 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 11 | 4.34 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 11 | 4.34 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 6 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 5 | 4.34 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 3 | 4.34 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 3 | 4.34 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 3 | 4.34 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 14 | 4.34 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 14 | 4.34 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 14 | 4.34 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 6 | 4.34 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 6 | 4.34 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 6 | 4.34 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 8 | 4.34 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 8 | 4.34 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 8 | 4.34 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 7 | 4.34 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 7 | 4.34 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 15 | 4.34 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 15 | 4.34 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 15 | 4.34 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 15 | 4.34 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 12 | 4.34 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 12 | 4.34 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 12 | 4.34 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 12 | 4.34 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 2 | 4.34 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 2 | 4.34 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 6 | 4.34 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 7 | 4.34 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 4 | 4.34 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 12 | 4.34 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 12 | 4.34 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 10 | 4.34 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 10 | 4.34 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 10 | 4.34 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 15 | 4.34 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 2 | 4.34 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 2 | 4.34 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 18 | 4.34 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 18 | 4.34 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 16 | 4.34 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 11 | 4.34 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 10 | 4.34 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 6 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 6 | 4.34 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 1 | 4.34 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 4 | 4.34 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 18 | 4.34 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 18 | 4.34 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 7 | 4.34 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 7 | 4.34 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 4 | 4.34 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 4 | 4.34 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 4 | 4.34 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 4.34 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 4.34 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 4.34 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 13 | 4.34 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 7 | 4.34 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 7 | 4.34 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 7 | 4.34 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 11 | 4.34 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 16 | 4.34 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 16 | 4.34 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 16 | 4.34 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 16 | 4.34 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 16 | 4.34 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 16 | 4.34 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 5 | 4.34 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 5 | 4.34 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 5 | 4.34 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 8 | 4.34 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 13 | 4.34 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 13 | 4.34 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 13 | 4.34 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 12 | 4.34 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 12 | 4.34 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 12 | 4.34 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 18 | 4.34 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 18 | 4.34 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 18 | 4.34 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 16 | 4.34 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 7 | 4.34 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 7 | 4.34 |
| (1,662) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 7 | 4.34 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 12 | 4.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 12 | 4.34 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 12 | 4.34 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 10 | 4.34 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 14 | 4.34 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 19 | 4.34 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 19 | 4.34 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 19 | 4.34 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 19 | 4.34 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 19 | 4.34 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 19 | 4.34 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 1 | 4.34 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 9 | 4.33 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 2 | 4.33 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 11 | 4.33 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 13 | 4.33 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 13 | 4.33 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 13 | 4.33 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 4 | 4.33 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 4 | 4.33 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 13 | 4.33 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 13 | 4.33 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 13 | 4.33 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 13 | 4.33 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 13 | 4.33 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 13 | 4.33 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 15 | 4.33 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 15 | 4.33 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 15 | 4.33 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 15 | 4.33 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 15 | 4.33 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 15 | 4.33 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 16 | 4.33 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 16 | 4.33 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 9 | 4.33 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 9 | 4.33 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 20 | 4.33 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 20 | 4.33 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 9 | 4.33 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 9 | 4.33 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 9 | 4.33 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 9 | 4.33 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 10 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 10 | 4.33 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 2 | 4.33 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 2 | 4.33 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 15 | 4.33 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 15 | 4.33 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 7 | 4.33 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 7 | 4.33 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 11 | 4.33 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 11 | 4.33 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 19 | 4.33 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 19 | 4.33 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 1 | 4.33 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 1 | 4.33 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 11 | 4.33 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 11 | 4.33 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 7 | 4.33 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 7 | 4.33 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 7 | 4.33 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 7 | 4.33 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 7 | 4.33 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 7 | 4.33 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 1 | 4.33 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 1 | 4.33 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 1 | 4.33 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 1 | 4.33 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 1 | 4.33 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 1 | 4.33 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 6 | 4.33 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 6 | 4.33 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 3 | 4.33 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 3 | 4.33 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 16 | 4.33 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 16 | 4.33 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 9 | 4.33 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 9 | 4.33 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 7 | 4.33 |
| (1,9004) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 7 | 4.33 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 7 | 4.33 |
| (1,9004) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 7 | 4.33 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 5 | 4.33 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 5 | 4.33 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 5 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 5 | 4.33 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 4 | 4.33 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 4 | 4.33 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 17 | 4.33 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 17 | 4.33 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 2 | 4.33 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 2 | 4.33 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 9 | 4.33 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 9 | 4.33 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 14 | 4.33 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 14 | 4.33 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 12 | 4.33 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 12 | 4.33 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 16 | 4.33 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 16 | 4.33 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 10 | 4.33 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 10 | 4.33 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 13 | 4.33 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 13 | 4.33 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 17 | 4.33 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 17 | 4.33 |
| (1,8752) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 3 | 4.33 |
| (1,8752) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 3 | 4.33 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 20 | 4.33 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 20 | 4.33 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 17 | 4.33 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 17 | 4.33 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 15 | 4.33 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 15 | 4.33 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 1 | 4.33 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 1 | 4.33 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 3 | 4.33 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 3 | 4.33 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 3 | 4.33 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 3 | 4.33 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 3 | 4.33 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 3 | 4.33 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 3 | 4.33 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 3 | 4.33 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 5 | 4.33 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 8 | 4.33 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 9 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 9 | 4.33 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 9 | 4.33 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 19 | 4.33 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 19 | 4.33 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 19 | 4.33 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 19 | 4.33 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 19 | 4.33 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 19 | 4.33 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 19 | 4.33 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 19 | 4.33 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 19 | 4.33 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 1 | 4.33 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 1 | 4.33 |
| (1,8434) | 1:144:A:GLY:HA2 | 1:145:A:GLU:HA | 5 | 4.33 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 15 | 4.33 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 8 | 4.33 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 9 | 4.33 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 13 | 4.33 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 20 | 4.33 |
| (1,8411) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 4 | 4.33 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 11 | 4.33 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 10 | 4.33 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 10 | 4.33 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 10 | 4.33 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 8 | 4.33 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 8 | 4.33 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 8 | 4.33 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 6 | 4.33 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 6 | 4.33 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 18 | 4.33 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 18 | 4.33 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 5 | 4.33 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 14 | 4.33 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 14 | 4.33 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 7 | 4.33 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 14 | 4.33 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 11 | 4.33 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 11 | 4.33 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 11 | 4.33 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 12 | 4.33 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 20 | 4.33 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 20 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 20 | 4.33 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 20 | 4.33 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 20 | 4.33 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 20 | 4.33 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 15 | 4.33 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 20 | 4.33 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 20 | 4.33 |
| (1,8036) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 8 | 4.33 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 19 | 4.33 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 19 | 4.33 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 19 | 4.33 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 18 | 4.33 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 18 | 4.33 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 18 | 4.33 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 10 | 4.33 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 9 | 4.33 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 10 | 4.33 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 7 | 4.33 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 13 | 4.33 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 13 | 4.33 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 13 | 4.33 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 1 | 4.33 |
| (1,7898) | 1:67:A:SER:H | 1:69:A:ARG:H | 10 | 4.33 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 6 | 4.33 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 11 | 4.33 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 16 | 4.33 |
| (1,7838) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 4 | 4.33 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 16 | 4.33 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 16 | 4.33 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 16 | 4.33 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 8 | 4.33 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 8 | 4.33 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 8 | 4.33 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 20 | 4.33 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 20 | 4.33 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 20 | 4.33 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 8 | 4.33 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 18 | 4.33 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 11 | 4.33 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 2 | 4.33 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 16 | 4.33 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 16 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 18 | 4.33 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 18 | 4.33 |
| (1,7733) | 1:54:A:ARG:HD2 | 1:124:A:ALA:H | 3 | 4.33 |
| (1,7733) | 1:54:A:ARG:HD3 | 1:124:A:ALA:H | 3 | 4.33 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 11 | 4.33 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 7 | 4.33 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 7 | 4.33 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 20 | 4.33 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 9 | 4.33 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 15 | 4.33 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 16 | 4.33 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 17 | 4.33 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 17 | 4.33 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 17 | 4.33 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 15 | 4.33 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 15 | 4.33 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 15 | 4.33 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 3 | 4.33 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 9 | 4.33 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 12 | 4.33 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 15 | 4.33 |
| (1,7613) | 1:26:A:ASN:H | 1:33:A:GLN:H | 13 | 4.33 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 7 | 4.33 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 7 | 4.33 |
| (1,7554) | 1:21:A:ARG:H | 1:21:A:ARG:HD2 | 7 | 4.33 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 8 | 4.33 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 17 | 4.33 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 7 | 4.33 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 6 | 4.33 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 5 | 4.33 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 14 | 4.33 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 15 | 4.33 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 15 | 4.33 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 15 | 4.33 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 6 | 4.33 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 6 | 4.33 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 6 | 4.33 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 14 | 4.33 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 14 | 4.33 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 14 | 4.33 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 11 | 4.33 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 11 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 14 | 4.33 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 14 | 4.33 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 8 | 4.33 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 8 | 4.33 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 8 | 4.33 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 2 | 4.33 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 7 | 4.33 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 4 | 4.33 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 4 | 4.33 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 4 | 4.33 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 8 | 4.33 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 8 | 4.33 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 8 | 4.33 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 18 | 4.33 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 17 | 4.33 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 17 | 4.33 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 10 | 4.33 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 16 | 4.33 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 8 | 4.33 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 14 | 4.33 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 12 | 4.33 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 11 | 4.33 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 11 | 4.33 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 5 | 4.33 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 5 | 4.33 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 4.33 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 4.33 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 17 | 4.33 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 17 | 4.33 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 17 | 4.33 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 17 | 4.33 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 1 | 4.33 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 1 | 4.33 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 1 | 4.33 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 16 | 4.33 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 16 | 4.33 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 16 | 4.33 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 19 | 4.33 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 19 | 4.33 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 19 | 4.33 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 2 | 4.33 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 15 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 7 | 4.33 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 14 | 4.33 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 3 | 4.33 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 9 | 4.33 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 11 | 4.33 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 18 | 4.33 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 18 | 4.33 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 14 | 4.33 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 14 | 4.33 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 14 | 4.33 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 15 | 4.33 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 15 | 4.33 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 15 | 4.33 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 20 | 4.33 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 17 | 4.33 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 1 | 4.33 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 9 | 4.33 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 9 | 4.33 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 9 | 4.33 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 7 | 4.33 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 6 | 4.33 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 16 | 4.33 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 15 | 4.33 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 15 | 4.33 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 16 | 4.33 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 16 | 4.33 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 16 | 4.33 |
| (1,6062) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 10 | 4.33 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 4 | 4.33 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 4 | 4.33 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 12 | 4.33 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 7 | 4.33 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 11 | 4.33 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 2 | 4.33 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 2 | 4.33 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 2 | 4.33 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 3 | 4.33 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 6 | 4.33 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 3 | 4.33 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 3 | 4.33 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 3 | 4.33 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 18 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 18 | 4.33 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 18 | 4.33 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 18 | 4.33 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 18 | 4.33 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 18 | 4.33 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 7 | 4.33 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 1 | 4.33 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 3 | 4.33 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 6 | 4.33 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 9 | 4.33 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 9 | 4.33 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 9 | 4.33 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 9 | 4.33 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 9 | 4.33 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 9 | 4.33 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 9 | 4.33 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 9 | 4.33 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 9 | 4.33 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 8 | 4.33 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 8 | 4.33 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 8 | 4.33 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 7 | 4.33 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 8 | 4.33 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 2 | 4.33 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 14 | 4.33 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 15 | 4.33 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 8 | 4.33 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 8 | 4.33 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 8 | 4.33 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 18 | 4.33 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 8 | 4.33 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 5 | 4.33 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 18 | 4.33 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 18 | 4.33 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 18 | 4.33 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 18 | 4.33 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 18 | 4.33 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 18 | 4.33 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 3 | 4.33 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 3 | 4.33 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 3 | 4.33 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 12 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 14 | 4.33 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 14 | 4.33 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 13 | 4.33 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 10 | 4.33 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 10 | 4.33 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 10 | 4.33 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 5 | 4.33 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 5 | 4.33 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 5 | 4.33 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 10 | 4.33 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 10 | 4.33 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 10 | 4.33 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 10 | 4.33 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 10 | 4.33 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 10 | 4.33 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 10 | 4.33 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 10 | 4.33 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 10 | 4.33 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 9 | 4.33 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 9 | 4.33 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 9 | 4.33 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 13 | 4.33 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 11 | 4.33 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 2 | 4.33 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 3 | 4.33 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 8 | 4.33 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 5 | 4.33 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 5 | 4.33 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 16 | 4.33 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 4 | 4.33 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 4 | 4.33 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 9 | 4.33 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 9 | 4.33 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 2 | 4.33 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 2 | 4.33 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 2 | 4.33 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 17 | 4.33 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 17 | 4.33 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 17 | 4.33 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 8 | 4.33 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 8 | 4.33 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 13 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 13 | 4.33 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 13 | 4.33 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 13 | 4.33 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 13 | 4.33 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 13 | 4.33 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 15 | 4.33 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 15 | 4.33 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 15 | 4.33 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 15 | 4.33 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 15 | 4.33 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 15 | 4.33 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 3 | 4.33 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 12 | 4.33 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 12 | 4.33 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 12 | 4.33 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 12 | 4.33 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 12 | 4.33 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 12 | 4.33 |
| (1,4414) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 10 | 4.33 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 4 | 4.33 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 11 | 4.33 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 11 | 4.33 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 19 | 4.33 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 19 | 4.33 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 1 | 4.33 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 1 | 4.33 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 5 | 4.33 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 16 | 4.33 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 10 | 4.33 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 15 | 4.33 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 11 | 4.33 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 11 | 4.33 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 18 | 4.33 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 18 | 4.33 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 18 | 4.33 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 7 | 4.33 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 7 | 4.33 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 12 | 4.33 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 12 | 4.33 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 12 | 4.33 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 3 | 4.33 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 3 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 16 | 4.33 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 16 | 4.33 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 4 | 4.33 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 1 | 4.33 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 3 | 4.33 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 12 | 4.33 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 12 | 4.33 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 16 | 4.33 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 16 | 4.33 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 3 | 4.33 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 3 | 4.33 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 3 | 4.33 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 3 | 4.33 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 3 | 4.33 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 3 | 4.33 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 5 | 4.33 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 4 | 4.33 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 4 | 4.33 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 4 | 4.33 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 1 | 4.33 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 13 | 4.33 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 13 | 4.33 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 7 | 4.33 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 7 | 4.33 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 16 | 4.33 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 17 | 4.33 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 17 | 4.33 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 17 | 4.33 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 7 | 4.33 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 7 | 4.33 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 15 | 4.33 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 15 | 4.33 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 5 | 4.33 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 3 | 4.33 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 3 | 4.33 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 8 | 4.33 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 8 | 4.33 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 8 | 4.33 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 11 | 4.33 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 7 | 4.33 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 7 | 4.33 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 7 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 2 | 4.33 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 7 | 4.33 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 13 | 4.33 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 13 | 4.33 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 4 | 4.33 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 4 | 4.33 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 4 | 4.33 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 8 | 4.33 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 8 | 4.33 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 8 | 4.33 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 17 | 4.33 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 18 | 4.33 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 17 | 4.33 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 17 | 4.33 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 10 | 4.33 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 1 | 4.33 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 16 | 4.33 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 14 | 4.33 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 8 | 4.33 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 14 | 4.33 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 12 | 4.33 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 11 | 4.33 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 11 | 4.33 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 5 | 4.33 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 5 | 4.33 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 5 | 4.33 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 5 | 4.33 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 4.33 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 4.33 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 17 | 4.33 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 17 | 4.33 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 17 | 4.33 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 17 | 4.33 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 13 | 4.33 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 13 | 4.33 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 1 | 4.33 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 1 | 4.33 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 1 | 4.33 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 16 | 4.33 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 16 | 4.33 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 16 | 4.33 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 19 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 19 | 4.33 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 19 | 4.33 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 6 | 4.33 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 6 | 4.33 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 6 | 4.33 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 8 | 4.33 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 8 | 4.33 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 8 | 4.33 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 2 | 4.33 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 15 | 4.33 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 7 | 4.33 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 14 | 4.33 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 3 | 4.33 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 9 | 4.33 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 11 | 4.33 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 18 | 4.33 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 18 | 4.33 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 18 | 4.33 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 8 | 4.33 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 14 | 4.33 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 14 | 4.33 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 14 | 4.33 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 15 | 4.33 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 15 | 4.33 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 15 | 4.33 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 20 | 4.33 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 17 | 4.33 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 12 | 4.33 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 1 | 4.33 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 2 | 4.33 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 9 | 4.33 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 9 | 4.33 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 9 | 4.33 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 7 | 4.33 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 7 | 4.33 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 14 | 4.33 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 6 | 4.33 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 16 | 4.33 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 15 | 4.33 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 15 | 4.33 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 12 | 4.33 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 16 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 16 | 4.33 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 16 | 4.33 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 17 | 4.33 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 17 | 4.33 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 17 | 4.33 |
| (1,1624) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 10 | 4.33 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 4 | 4.33 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 4 | 4.33 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 5 | 4.33 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 12 | 4.33 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 12 | 4.33 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 7 | 4.33 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 11 | 4.33 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 2 | 4.33 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 2 | 4.33 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 2 | 4.33 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 3 | 4.33 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 6 | 4.33 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 14 | 4.33 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 14 | 4.33 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 3 | 4.33 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 3 | 4.33 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 3 | 4.33 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 6 | 4.33 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 18 | 4.33 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 18 | 4.33 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 18 | 4.33 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 18 | 4.33 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 18 | 4.33 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 18 | 4.33 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 6 | 4.33 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 6 | 4.33 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 5 | 4.33 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 7 | 4.33 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 1 | 4.33 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 7 | 4.33 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 7 | 4.33 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 7 | 4.33 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 3 | 4.33 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 6 | 4.33 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 19 | 4.33 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 16 | 4.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 12 | 4.33 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 15 | 4.33 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 10 | 4.32 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 13 | 4.32 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 18 | 4.32 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 20 | 4.32 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 3 | 4.32 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 3 | 4.32 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 12 | 4.32 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 12 | 4.32 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 19 | 4.32 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 19 | 4.32 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 6 | 4.32 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 6 | 4.32 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 6 | 4.32 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 6 | 4.32 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 6 | 4.32 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 6 | 4.32 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 7 | 4.32 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 7 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 12 | 4.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 12 | 4.32 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 7 | 4.32 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 7 | 4.32 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 7 | 4.32 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 7 | 4.32 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 7 | 4.32 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 7 | 4.32 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 10 | 4.32 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 10 | 4.32 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 3 | 4.32 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 3 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 11 | 4.32 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 11 | 4.32 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG2 | 17 | 4.32 |
| (1,9435) | 1:129:A:GLN:H | 1:130:A:MET:HG3 | 17 | 4.32 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 5 | 4.32 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 5 | 4.32 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 5 | 4.32 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 5 | 4.32 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 20 | 4.32 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 20 | 4.32 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 20 | 4.32 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 20 | 4.32 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 11 | 4.32 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 11 | 4.32 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 2 | 4.32 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 2 | 4.32 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 2 | 4.32 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 2 | 4.32 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 1 | 4.32 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 1 | 4.32 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 1 | 4.32 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 1 | 4.32 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 1 | 4.32 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 1 | 4.32 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 11 | 4.32 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 11 | 4.32 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 11 | 4.32 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 11 | 4.32 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 8 | 4.32 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 8 | 4.32 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 8 | 4.32 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 8 | 4.32 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 15 | 4.32 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 15 | 4.32 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 6 | 4.32 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 6 | 4.32 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 6 | 4.32 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 6 | 4.32 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 10 | 4.32 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 10 | 4.32 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 10 | 4.32 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 10 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 10 | 4.32 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 10 | 4.32 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 20 | 4.32 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 20 | 4.32 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 11 | 4.32 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 11 | 4.32 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 20 | 4.32 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 20 | 4.32 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 12 | 4.32 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 12 | 4.32 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 12 | 4.32 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 12 | 4.32 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 12 | 4.32 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 12 | 4.32 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 11 | 4.32 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 11 | 4.32 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 5 | 4.32 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 5 | 4.32 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 5 | 4.32 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 5 | 4.32 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 6 | 4.32 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 6 | 4.32 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 14 | 4.32 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 14 | 4.32 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 17 | 4.32 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 17 | 4.32 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 17 | 4.32 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 17 | 4.32 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 17 | 4.32 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 17 | 4.32 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 15 | 4.32 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 15 | 4.32 |
| (1,8792) | 1:56:A:ARG:HD2 | 1:162:A:THR:H | 5 | 4.32 |
| (1,8792) | 1:56:A:ARG:HD3 | 1:162:A:THR:H | 5 | 4.32 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 2 | 4.32 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 2 | 4.32 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 2 | 4.32 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 2 | 4.32 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 16 | 4.32 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 16 | 4.32 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 16 | 4.32 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 16 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 8 | 4.32 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 8 | 4.32 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 6 | 4.32 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 6 | 4.32 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 6 | 4.32 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 6 | 4.32 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 1 | 4.32 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 1 | 4.32 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 6 | 4.32 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 6 | 4.32 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 15 | 4.32 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 15 | 4.32 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 16 | 4.32 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 16 | 4.32 |
| (1,8518) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HB2 | 4 | 4.32 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 3 | 4.32 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 3 | 4.32 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 3 | 4.32 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 8 | 4.32 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 17 | 4.32 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 14 | 4.32 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 8 | 4.32 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 5 | 4.32 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 1 | 4.32 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 8 | 4.32 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 8 | 4.32 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 15 | 4.32 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 15 | 4.32 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 15 | 4.32 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 8 | 4.32 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 17 | 4.32 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 2 | 4.32 |
| (1,8320) | 1:130:A:MET:HA | 1:131:A:GLN:HB2 | 16 | 4.32 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 12 | 4.32 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 11 | 4.32 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 11 | 4.32 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 12 | 4.32 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 12 | 4.32 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 12 | 4.32 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 12 | 4.32 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 12 | 4.32 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 12 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 3 | 4.32 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 2 | 4.32 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 6 | 4.32 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 6 | 4.32 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 6 | 4.32 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 19 | 4.32 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 19 | 4.32 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 19 | 4.32 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 15 | 4.32 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 9 | 4.32 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 9 | 4.32 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 3 | 4.32 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 2 | 4.32 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 2 | 4.32 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 14 | 4.32 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 10 | 4.32 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 3 | 4.32 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 3 | 4.32 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 7 | 4.32 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 7 | 4.32 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 7 | 4.32 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 19 | 4.32 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 19 | 4.32 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 19 | 4.32 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 14 | 4.32 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 8 | 4.32 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 17 | 4.32 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 19 | 4.32 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 15 | 4.32 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 10 | 4.32 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 12 | 4.32 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 17 | 4.32 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 17 | 4.32 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 17 | 4.32 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 13 | 4.32 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 8 | 4.32 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 20 | 4.32 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 11 | 4.32 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 10 | 4.32 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 10 | 4.32 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 10 | 4.32 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 18 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 4 | 4.32 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 4 | 4.32 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 3 | 4.32 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 3 | 4.32 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 3 | 4.32 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 11 | 4.32 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 11 | 4.32 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 11 | 4.32 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 3 | 4.32 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 3 | 4.32 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 3 | 4.32 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 19 | 4.32 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 11 | 4.32 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 11 | 4.32 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 16 | 4.32 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 19 | 4.32 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 4 | 4.32 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 4 | 4.32 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 19 | 4.32 |
| (1,7437) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB3 | 5 | 4.32 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 3 | 4.32 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 2 | 4.32 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 2 | 4.32 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 2 | 4.32 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 6 | 4.32 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 6 | 4.32 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 6 | 4.32 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 6 | 4.32 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 6 | 4.32 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 6 | 4.32 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 13 | 4.32 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 13 | 4.32 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 19 | 4.32 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 19 | 4.32 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 5 | 4.32 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 5 | 4.32 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 5 | 4.32 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 11 | 4.32 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 11 | 4.32 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 10 | 4.32 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 17 | 4.32 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 8 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 8 | 4.32 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 4 | 4.32 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 4 | 4.32 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 16 | 4.32 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 20 | 4.32 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 9 | 4.32 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 9 | 4.32 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 8 | 4.32 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 8 | 4.32 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 8 | 4.32 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 9 | 4.32 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 9 | 4.32 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 2 | 4.32 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 16 | 4.32 |
| (1,6706) | 1:16:A:SER:H | 1:17:A:ARG:HA | 18 | 4.32 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 17 | 4.32 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 8 | 4.32 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 2 | 4.32 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 11 | 4.32 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 7 | 4.32 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 16 | 4.32 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 15 | 4.32 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 15 | 4.32 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 16 | 4.32 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 16 | 4.32 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 16 | 4.32 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 5 | 4.32 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 5 | 4.32 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 5 | 4.32 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 5 | 4.32 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 5 | 4.32 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 5 | 4.32 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 5 | 4.32 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 5 | 4.32 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 5 | 4.32 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 11 | 4.32 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 7 | 4.32 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 7 | 4.32 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 7 | 4.32 |
| (1,6282) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 4 | 4.32 |
| (1,6282) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 4 | 4.32 |
| (1,6282) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 4 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 5 | 4.32 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 9 | 4.32 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 12 | 4.32 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 12 | 4.32 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 17 | 4.32 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 17 | 4.32 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 17 | 4.32 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 8 | 4.32 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 8 | 4.32 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 8 | 4.32 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 14 | 4.32 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 8 | 4.32 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 8 | 4.32 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 13 | 4.32 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 18 | 4.32 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 17 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 14 | 4.32 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 14 | 4.32 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 8 | 4.32 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 16 | 4.32 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 10 | 4.32 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 10 | 4.32 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 10 | 4.32 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 9 | 4.32 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 4 | 4.32 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 14 | 4.32 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 14 | 4.32 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 14 | 4.32 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 14 | 4.32 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 6 | 4.32 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 6 | 4.32 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 6 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 16 | 4.32 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 16 | 4.32 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 16 | 4.32 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 19 | 4.32 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 7 | 4.32 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 18 | 4.32 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 7 | 4.32 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 7 | 4.32 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 7 | 4.32 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 7 | 4.32 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 7 | 4.32 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 7 | 4.32 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 4 | 4.32 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 4 | 4.32 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 4 | 4.32 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 1 | 4.32 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 10 | 4.32 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 10 | 4.32 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 10 | 4.32 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 17 | 4.32 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 3 | 4.32 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 11 | 4.32 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 1 | 4.32 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 2 | 4.32 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 2 | 4.32 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 2 | 4.32 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 4 | 4.32 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 20 | 4.32 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 7 | 4.32 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 5 | 4.32 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 19 | 4.32 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 19 | 4.32 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 1 | 4.32 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 1 | 4.32 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 5 | 4.32 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 12 | 4.32 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 12 | 4.32 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 12 | 4.32 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 15 | 4.32 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 7 | 4.32 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 13 | 4.32 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 13 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 13 | 4.32 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 5 | 4.32 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 11 | 4.32 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 11 | 4.32 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 11 | 4.32 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 9 | 4.32 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 9 | 4.32 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 9 | 4.32 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 4 | 4.32 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 10 | 4.32 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 10 | 4.32 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 10 | 4.32 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 10 | 4.32 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 10 | 4.32 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 10 | 4.32 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 8 | 4.32 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 8 | 4.32 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 8 | 4.32 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 13 | 4.32 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 13 | 4.32 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 13 | 4.32 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 14 | 4.32 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 4 | 4.32 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 20 | 4.32 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 20 | 4.32 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 18 | 4.32 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 18 | 4.32 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 3 | 4.32 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 3 | 4.32 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 6 | 4.32 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 6 | 4.32 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 6 | 4.32 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 6 | 4.32 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 6 | 4.32 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 6 | 4.32 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 2 | 4.32 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 2 | 4.32 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 2 | 4.32 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 7 | 4.32 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 7 | 4.32 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 7 | 4.32 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 7 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 7 | 4.32 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 7 | 4.32 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 5 | 4.32 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 5 | 4.32 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 5 | 4.32 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 5 | 4.32 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 1 | 4.32 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 1 | 4.32 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 1 | 4.32 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 1 | 4.32 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 1 | 4.32 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 1 | 4.32 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 1 | 4.32 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 1 | 4.32 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 1 | 4.32 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 11 | 4.32 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 11 | 4.32 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 11 | 4.32 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 11 | 4.32 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 15 | 4.32 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 15 | 4.32 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 12 | 4.32 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 12 | 4.32 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 12 | 4.32 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 12 | 4.32 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 12 | 4.32 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 12 | 4.32 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 10 | 4.32 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 10 | 4.32 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 10 | 4.32 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 10 | 4.32 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 10 | 4.32 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 10 | 4.32 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 1 | 4.32 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 1 | 4.32 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 1 | 4.32 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 11 | 4.32 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 11 | 4.32 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 11 | 4.32 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 12 | 4.32 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 12 | 4.32 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 12 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 12 | 4.32 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 12 | 4.32 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 12 | 4.32 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 12 | 4.32 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 12 | 4.32 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 12 | 4.32 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 12 | 4.32 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 12 | 4.32 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 12 | 4.32 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 12 | 4.32 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 3 | 4.32 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 3 | 4.32 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 3 | 4.32 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 3 | 4.32 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 3 | 4.32 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 3 | 4.32 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 16 | 4.32 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 19 | 4.32 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 19 | 4.32 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 14 | 4.32 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 14 | 4.32 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 17 | 4.32 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 17 | 4.32 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 17 | 4.32 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 17 | 4.32 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 17 | 4.32 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 17 | 4.32 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 11 | 4.32 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 11 | 4.32 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 11 | 4.32 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 11 | 4.32 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 11 | 4.32 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 11 | 4.32 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 6 | 4.32 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 6 | 4.32 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 6 | 4.32 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 6 | 4.32 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 11 | 4.32 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 11 | 4.32 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 11 | 4.32 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 4 | 4.32 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 6 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 18 | 4.32 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 18 | 4.32 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 1 | 4.32 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 1 | 4.32 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 9 | 4.32 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 9 | 4.32 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 9 | 4.32 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 9 | 4.32 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 9 | 4.32 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 9 | 4.32 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 9 | 4.32 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 16 | 4.32 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 16 | 4.32 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 17 | 4.32 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 5 | 4.32 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 5 | 4.32 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 5 | 4.32 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 8 | 4.32 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 11 | 4.32 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 11 | 4.32 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 10 | 4.32 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 17 | 4.32 |
| (1,3384) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 1 | 4.32 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 11 | 4.32 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 13 | 4.32 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 4.32 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 4.32 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 4.32 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 8 | 4.32 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 8 | 4.32 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 4 | 4.32 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 4 | 4.32 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 16 | 4.32 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 20 | 4.32 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 9 | 4.32 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 9 | 4.32 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 8 | 4.32 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 8 | 4.32 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 2 | 4.32 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 9 | 4.32 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 8 | 4.32 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 9 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 9 | 4.32 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 2 | 4.32 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 16 | 4.32 |
| (1,2612) | 1:16:A:SER:H | 1:17:A:ARG:HA | 18 | 4.32 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 17 | 4.32 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 8 | 4.32 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 15 | 4.32 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 17 | 4.32 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 2 | 4.32 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 11 | 4.32 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 7 | 4.32 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 16 | 4.32 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 14 | 4.32 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 18 | 4.32 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 4 | 4.32 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 7 | 4.32 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 16 | 4.32 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 16 | 4.32 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 16 | 4.32 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 5 | 4.32 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 5 | 4.32 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 5 | 4.32 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 5 | 4.32 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 5 | 4.32 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 5 | 4.32 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 5 | 4.32 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 5 | 4.32 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 5 | 4.32 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 11 | 4.32 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 7 | 4.32 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 7 | 4.32 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 7 | 4.32 |
| (1,1956) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 4 | 4.32 |
| (1,1956) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 4 | 4.32 |
| (1,1956) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 4 | 4.32 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 5 | 4.32 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 9 | 4.32 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 8 | 4.32 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 8 | 4.32 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 8 | 4.32 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 12 | 4.32 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 12 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 15 | 4.32 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 17 | 4.32 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 17 | 4.32 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 17 | 4.32 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 8 | 4.32 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 8 | 4.32 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 8 | 4.32 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 14 | 4.32 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 8 | 4.32 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 8 | 4.32 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 13 | 4.32 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 13 | 4.32 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 18 | 4.32 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 17 | 4.32 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 8 | 4.32 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 16 | 4.32 |
| (1,1028) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 16 | 4.32 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 10 | 4.32 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 10 | 4.32 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 10 | 4.32 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 13 | 4.32 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 10 | 4.32 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 1 | 4.32 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 12 | 4.32 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 11 | 4.32 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 14 | 4.32 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 9 | 4.32 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 4 | 4.32 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 8 | 4.32 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 14 | 4.32 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 14 | 4.32 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 14 | 4.32 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 14 | 4.32 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 6 | 4.32 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 6 | 4.32 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 6 | 4.32 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 16 | 4.32 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 16 | 4.32 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 16 | 4.32 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 19 | 4.32 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 2 | 4.32 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 7 | 4.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 18 | 4.32 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 8 | 4.32 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 8 | 4.32 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 8 | 4.32 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 8 | 4.32 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 8 | 4.32 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 8 | 4.32 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 7 | 4.32 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 7 | 4.32 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 7 | 4.32 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 7 | 4.32 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 7 | 4.32 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 7 | 4.32 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 14 | 4.32 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 16 | 4.32 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 9 | 4.32 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 9 | 4.32 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 9 | 4.32 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 3 | 4.32 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 9 | 4.31 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 16 | 4.31 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 13 | 4.31 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 13 | 4.31 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 1 | 4.31 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 8 | 4.31 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 8 | 4.31 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 5 | 4.31 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 2 | 4.31 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 2 | 4.31 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 14 | 4.31 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 4 | 4.31 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 4 | 4.31 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 20 | 4.31 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 20 | 4.31 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 4.31 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 4.31 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 4.31 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 4.31 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 4.31 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 4.31 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 18 | 4.31 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 18 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 18 | 4.31 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 18 | 4.31 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 18 | 4.31 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 18 | 4.31 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 3 | 4.31 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 3 | 4.31 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 14 | 4.31 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 14 | 4.31 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 7 | 4.31 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 7 | 4.31 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 10 | 4.31 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 10 | 4.31 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 10 | 4.31 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 10 | 4.31 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 10 | 4.31 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 10 | 4.31 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 19 | 4.31 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 19 | 4.31 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 6 | 4.31 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 6 | 4.31 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 13 | 4.31 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 13 | 4.31 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 13 | 4.31 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 13 | 4.31 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 13 | 4.31 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 13 | 4.31 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 13 | 4.31 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 13 | 4.31 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 3 | 4.31 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 3 | 4.31 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 3 | 4.31 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 3 | 4.31 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 3 | 4.31 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 3 | 4.31 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 14 | 4.31 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 14 | 4.31 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 1 | 4.31 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 1 | 4.31 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 8 | 4.31 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 8 | 4.31 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 8 | 4.31 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 8 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 8 | 4.31 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 8 | 4.31 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 15 | 4.31 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 15 | 4.31 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 1 | 4.31 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 1 | 4.31 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 16 | 4.31 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 16 | 4.31 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 16 | 4.31 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 16 | 4.31 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 8 | 4.31 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 8 | 4.31 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 7 | 4.31 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 7 | 4.31 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 12 | 4.31 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 12 | 4.31 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 3 | 4.31 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 3 | 4.31 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 4 | 4.31 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 4 | 4.31 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 11 | 4.31 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 11 | 4.31 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 11 | 4.31 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 11 | 4.31 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 1 | 4.31 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 1 | 4.31 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 4 | 4.31 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 4 | 4.31 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 15 | 4.31 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 15 | 4.31 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 17 | 4.31 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 17 | 4.31 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 13 | 4.31 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 13 | 4.31 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 13 | 4.31 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 13 | 4.31 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 13 | 4.31 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 13 | 4.31 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 6 | 4.31 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 6 | 4.31 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 6 | 4.31 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 6 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 6 | 4.31 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 6 | 4.31 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 15 | 4.31 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 15 | 4.31 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 14 | 4.31 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 14 | 4.31 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 14 | 4.31 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 14 | 4.31 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 18 | 4.31 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 18 | 4.31 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 16 | 4.31 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 16 | 4.31 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 12 | 4.31 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 12 | 4.31 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 17 | 4.31 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 17 | 4.31 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 1 | 4.31 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 1 | 4.31 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 12 | 4.31 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 12 | 4.31 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 18 | 4.31 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 18 | 4.31 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 8 | 4.31 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 16 | 4.31 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 17 | 4.31 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 3 | 4.31 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 20 | 4.31 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 7 | 4.31 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 12 | 4.31 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 12 | 4.31 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 3 | 4.31 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 4 | 4.31 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 19 | 4.31 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 5 | 4.31 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 5 | 4.31 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 5 | 4.31 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 9 | 4.31 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 8 | 4.31 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 8 | 4.31 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 8 | 4.31 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 16 | 4.31 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 16 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 17 | 4.31 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 17 | 4.31 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 14 | 4.31 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 18 | 4.31 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 10 | 4.31 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 5 | 4.31 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 16 | 4.31 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 16 | 4.31 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 16 | 4.31 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 4 | 4.31 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 13 | 4.31 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 19 | 4.31 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 19 | 4.31 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 19 | 4.31 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 18 | 4.31 |
| (1,8162) | 1:97:A:LYS:HG2 | 1:99:A:GLY:H | 8 | 4.31 |
| (1,8162) | 1:97:A:LYS:HG3 | 1:99:A:GLY:H | 8 | 4.31 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 5 | 4.31 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 5 | 4.31 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 5 | 4.31 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 15 | 4.31 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 18 | 4.31 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 18 | 4.31 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 18 | 4.31 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 16 | 4.31 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 3 | 4.31 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 2 | 4.31 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 2 | 4.31 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 14 | 4.31 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 6 | 4.31 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 19 | 4.31 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 12 | 4.31 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 17 | 4.31 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 18 | 4.31 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 1 | 4.31 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 1 | 4.31 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 1 | 4.31 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 1 | 4.31 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 1 | 4.31 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 1 | 4.31 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 1 | 4.31 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 1 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 1 | 4.31 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 13 | 4.31 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 19 | 4.31 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 19 | 4.31 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 19 | 4.31 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 9 | 4.31 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 9 | 4.31 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 3 | 4.31 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 5 | 4.31 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 8 | 4.31 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 8 | 4.31 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 8 | 4.31 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 10 | 4.31 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 10 | 4.31 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 18 | 4.31 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 4 | 4.31 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 9 | 4.31 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 11 | 4.31 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 6 | 4.31 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 9 | 4.31 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 20 | 4.31 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 20 | 4.31 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 6 | 4.31 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 6 | 4.31 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 5 | 4.31 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 19 | 4.31 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 10 | 4.31 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 10 | 4.31 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 10 | 4.31 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 17 | 4.31 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 2 | 4.31 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 6 | 4.31 |
| (1,7493) | 1:13:A:LYS:HE2 | 1:14:A:ARG:H | 11 | 4.31 |
| (1,7493) | 1:13:A:LYS:HE3 | 1:14:A:ARG:H | 11 | 4.31 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 3 | 4.31 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 3 | 4.31 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 1 | 4.31 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 1 | 4.31 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 2 | 4.31 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 2 | 4.31 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 2 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 3 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 3 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 3 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 8 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 8 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 8 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 9 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 9 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 9 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 15 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 15 | 4.31 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 15 | 4.31 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 12 | 4.31 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 12 | 4.31 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 12 | 4.31 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 4 | 4.31 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 8 | 4.31 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 8 | 4.31 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 8 | 4.31 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 8 | 4.31 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 17 | 4.31 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 20 | 4.31 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 15 | 4.31 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 14 | 4.31 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 14 | 4.31 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 14 | 4.31 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 11 | 4.31 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 11 | 4.31 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 11 | 4.31 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 10 | 4.31 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 10 | 4.31 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 9 | 4.31 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 9 | 4.31 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 3 | 4.31 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 3 | 4.31 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 3 | 4.31 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 6 | 4.31 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 6 | 4.31 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 1 | 4.31 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 20 | 4.31 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 10 | 4.31 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 11 | 4.31 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 11 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 11 | 4.31 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 9 | 4.31 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 6 | 4.31 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 5 | 4.31 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 12 | 4.31 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 12 | 4.31 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 6 | 4.31 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 6 | 4.31 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 6 | 4.31 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 16 | 4.31 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 10 | 4.31 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 5 | 4.31 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 10 | 4.31 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 10 | 4.31 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 10 | 4.31 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 13 | 4.31 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 5 | 4.31 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 16 | 4.31 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 16 | 4.31 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 16 | 4.31 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 12 | 4.31 |
| (1,6557) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 20 | 4.31 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 12 | 4.31 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 12 | 4.31 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 6 | 4.31 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 4 | 4.31 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 4 | 4.31 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 4 | 4.31 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 4 | 4.31 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 4 | 4.31 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 4 | 4.31 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 10 | 4.31 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 13 | 4.31 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 10 | 4.31 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 10 | 4.31 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 10 | 4.31 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 3 | 4.31 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 13 | 4.31 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 18 | 4.31 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 8 | 4.31 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 11 | 4.31 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 6 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 6 | 4.31 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 6 | 4.31 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 19 | 4.31 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 19 | 4.31 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 19 | 4.31 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 2 | 4.31 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 2 | 4.31 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 2 | 4.31 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 8 | 4.31 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 8 | 4.31 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 8 | 4.31 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 12 | 4.31 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 12 | 4.31 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 12 | 4.31 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 15 | 4.31 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 15 | 4.31 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 15 | 4.31 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 15 | 4.31 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 6 | 4.31 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 10 | 4.31 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 7 | 4.31 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 14 | 4.31 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 14 | 4.31 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 2 | 4.31 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 7 | 4.31 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 14 | 4.31 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 11 | 4.31 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 11 | 4.31 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 11 | 4.31 |
| (1,5638) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 3 | 4.31 |
| (1,5638) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 3 | 4.31 |
| (1,5638) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 3 | 4.31 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 8 | 4.31 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 18 | 4.31 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 13 | 4.31 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 20 | 4.31 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 20 | 4.31 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 20 | 4.31 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 13 | 4.31 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 1 | 4.31 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 1 | 4.31 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 1 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 11 | 4.31 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 11 | 4.31 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 11 | 4.31 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 9 | 4.31 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 9 | 4.31 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 9 | 4.31 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 8 | 4.31 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 8 | 4.31 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 8 | 4.31 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 18 | 4.31 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 18 | 4.31 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 18 | 4.31 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 13 | 4.31 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 13 | 4.31 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 13 | 4.31 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 14 | 4.31 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 11 | 4.31 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 11 | 4.31 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 18 | 4.31 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 18 | 4.31 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 17 | 4.31 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 7 | 4.31 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 13 | 4.31 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 20 | 4.31 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 2 | 4.31 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 2 | 4.31 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 4 | 4.31 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 12 | 4.31 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 20 | 4.31 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 20 | 4.31 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 7 | 4.31 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 7 | 4.31 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 7 | 4.31 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 14 | 4.31 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 14 | 4.31 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 14 | 4.31 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 4 | 4.31 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 4 | 4.31 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 4 | 4.31 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 3 | 4.31 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 3 | 4.31 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 3 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 6 | 4.31 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 6 | 4.31 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 6 | 4.31 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 17 | 4.31 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 10 | 4.31 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 10 | 4.31 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 5 | 4.31 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 4.31 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 4.31 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 4.31 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 4.31 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 4.31 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 4.31 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 6 | 4.31 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 6 | 4.31 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 6 | 4.31 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 3 | 4.31 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 3 | 4.31 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 3 | 4.31 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 3 | 4.31 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 3 | 4.31 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 3 | 4.31 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 3 | 4.31 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 3 | 4.31 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 18 | 4.31 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 18 | 4.31 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 10 | 4.31 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 10 | 4.31 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 10 | 4.31 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 10 | 4.31 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 10 | 4.31 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 10 | 4.31 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 11 | 4.31 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 11 | 4.31 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 11 | 4.31 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 11 | 4.31 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 8 | 4.31 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 13 | 4.31 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 13 | 4.31 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 13 | 4.31 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 13 | 4.31 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 13 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 13 | 4.31 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 20 | 4.31 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 16 | 4.31 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 16 | 4.31 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 1 | 4.31 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 1 | 4.31 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 16 | 4.31 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 16 | 4.31 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 16 | 4.31 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 3 | 4.31 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 3 | 4.31 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 3 | 4.31 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 10 | 4.31 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 12 | 4.31 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 6 | 4.31 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 6 | 4.31 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 8 | 4.31 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 8 | 4.31 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 8 | 4.31 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 8 | 4.31 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 8 | 4.31 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 8 | 4.31 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 15 | 4.31 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 15 | 4.31 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 16 | 4.31 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 16 | 4.31 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 16 | 4.31 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 16 | 4.31 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 17 | 4.31 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 10 | 4.31 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 15 | 4.31 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 15 | 4.31 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 17 | 4.31 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 17 | 4.31 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 13 | 4.31 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 13 | 4.31 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 13 | 4.31 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 13 | 4.31 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 13 | 4.31 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 13 | 4.31 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 1 | 4.31 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 10 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 10 | 4.31 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 18 | 4.31 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 18 | 4.31 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 4.31 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 4.31 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 16 | 4.31 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 16 | 4.31 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 4.31 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 4.31 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 4.31 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 4.31 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 4.31 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 10 | 4.31 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 13 | 4.31 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 18 | 4.31 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 18 | 4.31 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 13 | 4.31 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 13 | 4.31 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 13 | 4.31 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 8 | 4.31 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 8 | 4.31 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 8 | 4.31 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 17 | 4.31 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 20 | 4.31 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 15 | 4.31 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 10 | 4.31 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 14 | 4.31 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 14 | 4.31 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 14 | 4.31 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 2 | 4.31 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 11 | 4.31 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 11 | 4.31 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 11 | 4.31 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 10 | 4.31 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 10 | 4.31 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 9 | 4.31 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 9 | 4.31 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 3 | 4.31 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 3 | 4.31 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 3 | 4.31 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 18 | 4.31 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 6 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 6 | 4.31 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 1 | 4.31 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 9 | 4.31 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 9 | 4.31 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 9 | 4.31 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 20 | 4.31 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 10 | 4.31 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 11 | 4.31 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 11 | 4.31 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 11 | 4.31 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 9 | 4.31 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 6 | 4.31 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 5 | 4.31 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 12 | 4.31 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 12 | 4.31 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 6 | 4.31 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 6 | 4.31 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 6 | 4.31 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 16 | 4.31 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 17 | 4.31 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 17 | 4.31 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 17 | 4.31 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 6 | 4.31 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 15 | 4.31 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 15 | 4.31 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 15 | 4.31 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 10 | 4.31 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 5 | 4.31 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 10 | 4.31 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 10 | 4.31 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 10 | 4.31 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 13 | 4.31 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 5 | 4.31 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 16 | 4.31 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 16 | 4.31 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 16 | 4.31 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 12 | 4.31 |
| (1,2408) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 20 | 4.31 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 6 | 4.31 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 10 | 4.31 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 15 | 4.31 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 4 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 4 | 4.31 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 4 | 4.31 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 16 | 4.31 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 4 | 4.31 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 4 | 4.31 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 4 | 4.31 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 10 | 4.31 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 13 | 4.31 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 13 | 4.31 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 7 | 4.31 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 7 | 4.31 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 7 | 4.31 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 15 | 4.31 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 15 | 4.31 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 15 | 4.31 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 10 | 4.31 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 10 | 4.31 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 10 | 4.31 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 3 | 4.31 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 13 | 4.31 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 10 | 4.31 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 10 | 4.31 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 10 | 4.31 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 10 | 4.31 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 19 | 4.31 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 18 | 4.31 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 8 | 4.31 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 13 | 4.31 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 13 | 4.31 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 13 | 4.31 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 11 | 4.31 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 6 | 4.31 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 6 | 4.31 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 6 | 4.31 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 19 | 4.31 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 19 | 4.31 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 19 | 4.31 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 20 | 4.31 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 20 | 4.31 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 20 | 4.31 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 16 | 4.31 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 10 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 11 | 4.31 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 3 | 4.31 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 2 | 4.31 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 2 | 4.31 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 2 | 4.31 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 8 | 4.31 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 8 | 4.31 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 8 | 4.31 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 12 | 4.31 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 12 | 4.31 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 12 | 4.31 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 13 | 4.31 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 13 | 4.31 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 13 | 4.31 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 14 | 4.31 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 14 | 4.31 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 14 | 4.31 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 15 | 4.31 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 15 | 4.31 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 15 | 4.31 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 15 | 4.31 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 6 | 4.31 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 10 | 4.31 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 7 | 4.31 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 14 | 4.31 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 14 | 4.31 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 2 | 4.31 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 7 | 4.31 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 14 | 4.31 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 11 | 4.31 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 11 | 4.31 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 11 | 4.31 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 19 | 4.31 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 19 | 4.31 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 19 | 4.31 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 19 | 4.31 |
| (1,862) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 3 | 4.31 |
| (1,862) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 3 | 4.31 |
| (1,862) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 3 | 4.31 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 3 | 4.31 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 8 | 4.31 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 18 | 4.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 13 | 4.31 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 20 | 4.31 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 20 | 4.31 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 20 | 4.31 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 13 | 4.31 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 9 | 4.31 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 4 | 4.31 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 12 | 4.31 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 12 | 4.31 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 12 | 4.31 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 14 | 4.31 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 14 | 4.31 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 14 | 4.31 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 14 | 4.31 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 14 | 4.31 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 14 | 4.31 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 4 | 4.31 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 4 | 4.31 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 4 | 4.31 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 4 | 4.31 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 4 | 4.31 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 4 | 4.31 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 6 | 4.31 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 6 | 4.31 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 6 | 4.31 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 20 | 4.31 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 4 | 4.3 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 9 | 4.3 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 9 | 4.3 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 9 | 4.3 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 9 | 4.3 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 9 | 4.3 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 9 | 4.3 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 14 | 4.3 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 14 | 4.3 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 14 | 4.3 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 14 | 4.3 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 14 | 4.3 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 14 | 4.3 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 4 | 4.3 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 4 | 4.3 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 11 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 11 | 4.3 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 16 | 4.3 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 16 | 4.3 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 5 | 4.3 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 5 | 4.3 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 11 | 4.3 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 11 | 4.3 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 13 | 4.3 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 13 | 4.3 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 12 | 4.3 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 12 | 4.3 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 18 | 4.3 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 18 | 4.3 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 3 | 4.3 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 3 | 4.3 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 11 | 4.3 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 11 | 4.3 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 11 | 4.3 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 11 | 4.3 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 11 | 4.3 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 11 | 4.3 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 11 | 4.3 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 11 | 4.3 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 14 | 4.3 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 14 | 4.3 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 5 | 4.3 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 5 | 4.3 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 6 | 4.3 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 6 | 4.3 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 12 | 4.3 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 12 | 4.3 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 4 | 4.3 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 4 | 4.3 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 4 | 4.3 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 4 | 4.3 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 4 | 4.3 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 4 | 4.3 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 2 | 4.3 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 2 | 4.3 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 11 | 4.3 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 11 | 4.3 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 18 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 18 | 4.3 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 18 | 4.3 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 18 | 4.3 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 13 | 4.3 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 13 | 4.3 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 13 | 4.3 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 13 | 4.3 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 13 | 4.3 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 13 | 4.3 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 11 | 4.3 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 11 | 4.3 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 11 | 4.3 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 11 | 4.3 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 11 | 4.3 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 11 | 4.3 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 14 | 4.3 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 14 | 4.3 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 17 | 4.3 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 17 | 4.3 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 19 | 4.3 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 19 | 4.3 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 6 | 4.3 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 6 | 4.3 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 5 | 4.3 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 5 | 4.3 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 5 | 4.3 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 5 | 4.3 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 5 | 4.3 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 5 | 4.3 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 9 | 4.3 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 9 | 4.3 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 10 | 4.3 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 10 | 4.3 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 14 | 4.3 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 14 | 4.3 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 10 | 4.3 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 10 | 4.3 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 10 | 4.3 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 10 | 4.3 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 10 | 4.3 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 10 | 4.3 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 8 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 8 | 4.3 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 19 | 4.3 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 19 | 4.3 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 20 | 4.3 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 20 | 4.3 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 9 | 4.3 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 9 | 4.3 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 9 | 4.3 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 9 | 4.3 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 9 | 4.3 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 9 | 4.3 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 11 | 4.3 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 11 | 4.3 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 11 | 4.3 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 11 | 4.3 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 4 | 4.3 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 4 | 4.3 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 14 | 4.3 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 14 | 4.3 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 9 | 4.3 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 9 | 4.3 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 10 | 4.3 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 10 | 4.3 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 5 | 4.3 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 5 | 4.3 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 9 | 4.3 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 9 | 4.3 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 2 | 4.3 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 2 | 4.3 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 13 | 4.3 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 8 | 4.3 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 8 | 4.3 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 8 | 4.3 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 9 | 4.3 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 9 | 4.3 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 16 | 4.3 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 3 | 4.3 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 7 | 4.3 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 10 | 4.3 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 11 | 4.3 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 14 | 4.3 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 15 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 19 | 4.3 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 6 | 4.3 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 17 | 4.3 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 1 | 4.3 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 5 | 4.3 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 5 | 4.3 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 5 | 4.3 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 15 | 4.3 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 7 | 4.3 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 19 | 4.3 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 19 | 4.3 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 19 | 4.3 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 19 | 4.3 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 19 | 4.3 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 19 | 4.3 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD11 | 5 | 4.3 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD12 | 5 | 4.3 |
| (1,8016) | 1:83:A:GLU:HA | 1:156:A:ILE:HD13 | 5 | 4.3 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 18 | 4.3 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 18 | 4.3 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 18 | 4.3 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 5 | 4.3 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 5 | 4.3 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 5 | 4.3 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 10 | 4.3 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 9 | 4.3 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 9 | 4.3 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 8 | 4.3 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 2 | 4.3 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 2 | 4.3 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 2 | 4.3 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 8 | 4.3 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD21 | 20 | 4.3 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD22 | 20 | 4.3 |
| (1,7831) | 1:60:A:LEU:HG | 1:106:A:LEU:HD23 | 20 | 4.3 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 13 | 4.3 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 13 | 4.3 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 13 | 4.3 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 13 | 4.3 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 13 | 4.3 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 13 | 4.3 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 13 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 13 | 4.3 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 13 | 4.3 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 10 | 4.3 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 10 | 4.3 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 10 | 4.3 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 10 | 4.3 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 10 | 4.3 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 10 | 4.3 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 12 | 4.3 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 12 | 4.3 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 12 | 4.3 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 5 | 4.3 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 5 | 4.3 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 5 | 4.3 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 10 | 4.3 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 6 | 4.3 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 7 | 4.3 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 15 | 4.3 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 10 | 4.3 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 10 | 4.3 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 10 | 4.3 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 1 | 4.3 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 10 | 4.3 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 1 | 4.3 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 5 | 4.3 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 7 | 4.3 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 11 | 4.3 |
| (1,7689) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 14 | 4.3 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 2 | 4.3 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 13 | 4.3 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 16 | 4.3 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 17 | 4.3 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 1 | 4.3 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 1 | 4.3 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 1 | 4.3 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 3 | 4.3 |
| (1,7631) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 6 | 4.3 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 13 | 4.3 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 13 | 4.3 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 1 | 4.3 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 12 | 4.3 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 12 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 20 | 4.3 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 20 | 4.3 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 14 | 4.3 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 14 | 4.3 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 8 | 4.3 |
| (1,7519) | 1:14:A:ARG:HB3 | 1:23:A:TYR:H | 16 | 4.3 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 6 | 4.3 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 5 | 4.3 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 16 | 4.3 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 2 | 4.3 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 2 | 4.3 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 2 | 4.3 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 1 | 4.3 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 19 | 4.3 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 19 | 4.3 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 19 | 4.3 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 4 | 4.3 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 4 | 4.3 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 4 | 4.3 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 7 | 4.3 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 7 | 4.3 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 7 | 4.3 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 7 | 4.3 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 7 | 4.3 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 7 | 4.3 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 4 | 4.3 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 4 | 4.3 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 4 | 4.3 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 6 | 4.3 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 2 | 4.3 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 2 | 4.3 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 13 | 4.3 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 13 | 4.3 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 7 | 4.3 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 18 | 4.3 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 18 | 4.3 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 10 | 4.3 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 10 | 4.3 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 17 | 4.3 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 17 | 4.3 |
| (1,7098) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 4 | 4.3 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 8 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 10 | 4.3 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 11 | 4.3 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 4 | 4.3 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 4 | 4.3 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 11 | 4.3 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 5 | 4.3 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 3 | 4.3 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 19 | 4.3 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 9 | 4.3 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 9 | 4.3 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 9 | 4.3 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 9 | 4.3 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 18 | 4.3 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 18 | 4.3 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 18 | 4.3 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 8 | 4.3 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 8 | 4.3 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 19 | 4.3 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 18 | 4.3 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 14 | 4.3 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 7 | 4.3 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 7 | 4.3 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 7 | 4.3 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 11 | 4.3 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 7 | 4.3 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 7 | 4.3 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 7 | 4.3 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 7 | 4.3 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 7 | 4.3 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 7 | 4.3 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 7 | 4.3 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 7 | 4.3 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 7 | 4.3 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 3 | 4.3 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 3 | 4.3 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 3 | 4.3 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 12 | 4.3 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 9 | 4.3 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 9 | 4.3 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 9 | 4.3 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 2 | 4.3 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 2 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 2 | 4.3 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 2 | 4.3 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 2 | 4.3 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 2 | 4.3 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 2 | 4.3 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 2 | 4.3 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 2 | 4.3 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 9 | 4.3 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 9 | 4.3 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 9 | 4.3 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 2 | 4.3 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 2 | 4.3 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 2 | 4.3 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 9 | 4.3 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 16 | 4.3 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 16 | 4.3 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 16 | 4.3 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 19 | 4.3 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 19 | 4.3 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 2 | 4.3 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 2 | 4.3 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 2 | 4.3 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 10 | 4.3 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 10 | 4.3 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 10 | 4.3 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 10 | 4.3 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 10 | 4.3 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 10 | 4.3 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 16 | 4.3 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 15 | 4.3 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 15 | 4.3 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 15 | 4.3 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 2 | 4.3 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 2 | 4.3 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 2 | 4.3 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 2 | 4.3 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 4 | 4.3 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 4 | 4.3 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 4 | 4.3 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 13 | 4.3 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 13 | 4.3 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 7 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 7 | 4.3 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 7 | 4.3 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 7 | 4.3 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 7 | 4.3 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 7 | 4.3 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 1 | 4.3 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 4 | 4.3 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 15 | 4.3 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 15 | 4.3 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 10 | 4.3 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 13 | 4.3 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 13 | 4.3 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 13 | 4.3 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 15 | 4.3 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 15 | 4.3 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 15 | 4.3 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 15 | 4.3 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 15 | 4.3 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 15 | 4.3 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 11 | 4.3 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 11 | 4.3 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 1 | 4.3 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 1 | 4.3 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 1 | 4.3 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 19 | 4.3 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 20 | 4.3 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 1 | 4.3 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 1 | 4.3 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 1 | 4.3 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 12 | 4.3 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 12 | 4.3 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 12 | 4.3 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 13 | 4.3 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 13 | 4.3 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 13 | 4.3 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 9 | 4.3 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 8 | 4.3 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 8 | 4.3 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 8 | 4.3 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 12 | 4.3 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 12 | 4.3 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 12 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 1 | 4.3 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 1 | 4.3 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 1 | 4.3 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 6 | 4.3 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 8 | 4.3 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 8 | 4.3 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 8 | 4.3 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 8 | 4.3 |
| (1,5047) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 18 | 4.3 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 1 | 4.3 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 1 | 4.3 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 1 | 4.3 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 2 | 4.3 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 20 | 4.3 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 20 | 4.3 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 20 | 4.3 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 3 | 4.3 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 3 | 4.3 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 3 | 4.3 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 3 | 4.3 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 3 | 4.3 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 3 | 4.3 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 3 | 4.3 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 3 | 4.3 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 3 | 4.3 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 11 | 4.3 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 11 | 4.3 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 11 | 4.3 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 7 | 4.3 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 15 | 4.3 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 15 | 4.3 |
| (1,4740) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 15 | 4.3 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 6 | 4.3 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 6 | 4.3 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 6 | 4.3 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 18 | 4.3 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 18 | 4.3 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 18 | 4.3 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 10 | 4.3 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 9 | 4.3 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 1 | 4.3 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 1 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 10 | 4.3 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 10 | 4.3 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 2 | 4.3 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 14 | 4.3 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 14 | 4.3 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 14 | 4.3 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 14 | 4.3 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 14 | 4.3 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 14 | 4.3 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 5 | 4.3 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 4 | 4.3 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 4 | 4.3 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 14 | 4.3 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 11 | 4.3 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 11 | 4.3 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 16 | 4.3 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 16 | 4.3 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 9 | 4.3 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 9 | 4.3 |
| (1,4478) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 9 | 4.3 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 9 | 4.3 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 9 | 4.3 |
| (1,4478) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 9 | 4.3 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 17 | 4.3 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 17 | 4.3 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 17 | 4.3 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 17 | 4.3 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 17 | 4.3 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 17 | 4.3 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 6 | 4.3 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 6 | 4.3 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 6 | 4.3 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 6 | 4.3 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 15 | 4.3 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 11 | 4.3 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 11 | 4.3 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 11 | 4.3 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 11 | 4.3 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 1 | 4.3 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 2 | 4.3 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 4 | 4.3 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 4 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 4 | 4.3 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 4 | 4.3 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 4 | 4.3 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 4 | 4.3 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 2 | 4.3 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 2 | 4.3 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 11 | 4.3 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 11 | 4.3 |
| (1,4118) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 4.3 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 13 | 4.3 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 13 | 4.3 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 13 | 4.3 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 13 | 4.3 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 13 | 4.3 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 13 | 4.3 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 11 | 4.3 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 11 | 4.3 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 11 | 4.3 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 11 | 4.3 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 11 | 4.3 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 11 | 4.3 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 13 | 4.3 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 13 | 4.3 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 13 | 4.3 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 13 | 4.3 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 13 | 4.3 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 13 | 4.3 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 17 | 4.3 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 17 | 4.3 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 19 | 4.3 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 19 | 4.3 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 5 | 4.3 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 6 | 4.3 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 6 | 4.3 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 7 | 4.3 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 3 | 4.3 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 3 | 4.3 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 2 | 4.3 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 11 | 4.3 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 11 | 4.3 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 11 | 4.3 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 11 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 9 | 4.3 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 9 | 4.3 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 9 | 4.3 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 9 | 4.3 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 9 | 4.3 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 9 | 4.3 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 14 | 4.3 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 16 | 4.3 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 4 | 4.3 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 4 | 4.3 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 2 | 4.3 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 2 | 4.3 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 7 | 4.3 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 11 | 4.3 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 19 | 4.3 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 19 | 4.3 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 19 | 4.3 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 19 | 4.3 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 19 | 4.3 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 19 | 4.3 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 19 | 4.3 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 19 | 4.3 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 10 | 4.3 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 10 | 4.3 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 14 | 4.3 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 16 | 4.3 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 8 | 4.3 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 14 | 4.3 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 14 | 4.3 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 14 | 4.3 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 10 | 4.3 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 10 | 4.3 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 17 | 4.3 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 17 | 4.3 |
| (1,3180) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 4 | 4.3 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 8 | 4.3 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 10 | 4.3 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 11 | 4.3 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 4 | 4.3 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 4 | 4.3 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 11 | 4.3 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 11 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 5 | 4.3 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 3 | 4.3 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 19 | 4.3 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 9 | 4.3 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 9 | 4.3 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 9 | 4.3 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 9 | 4.3 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 18 | 4.3 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 18 | 4.3 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 18 | 4.3 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 9 | 4.3 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 9 | 4.3 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 2 | 4.3 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 2 | 4.3 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 6 | 4.3 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 6 | 4.3 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 6 | 4.3 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 6 | 4.3 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 6 | 4.3 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 6 | 4.3 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 8 | 4.3 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 4.3 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 19 | 4.3 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 18 | 4.3 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 19 | 4.3 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 19 | 4.3 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 19 | 4.3 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 19 | 4.3 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 19 | 4.3 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 19 | 4.3 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 9 | 4.3 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 14 | 4.3 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 7 | 4.3 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 7 | 4.3 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 7 | 4.3 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 17 | 4.3 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 11 | 4.3 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 15 | 4.3 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 15 | 4.3 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 15 | 4.3 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 7 | 4.3 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 7 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 7 | 4.3 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 7 | 4.3 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 7 | 4.3 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 7 | 4.3 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 7 | 4.3 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 7 | 4.3 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 7 | 4.3 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 7 | 4.3 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 7 | 4.3 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 7 | 4.3 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 3 | 4.3 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 3 | 4.3 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 3 | 4.3 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 12 | 4.3 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 9 | 4.3 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 9 | 4.3 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 9 | 4.3 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 9 | 4.3 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 9 | 4.3 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 9 | 4.3 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 10 | 4.3 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 10 | 4.3 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 10 | 4.3 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 3 | 4.3 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 2 | 4.3 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 2 | 4.3 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 2 | 4.3 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 2 | 4.3 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 2 | 4.3 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 2 | 4.3 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 2 | 4.3 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 2 | 4.3 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 2 | 4.3 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 9 | 4.3 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 9 | 4.3 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 9 | 4.3 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 2 | 4.3 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 2 | 4.3 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 2 | 4.3 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 10 | 4.3 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 10 | 4.3 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 10 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 6 | 4.3 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 6 | 4.3 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 6 | 4.3 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 9 | 4.3 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 16 | 4.3 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 16 | 4.3 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 16 | 4.3 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 19 | 4.3 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 19 | 4.3 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 2 | 4.3 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 2 | 4.3 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 2 | 4.3 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 10 | 4.3 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 10 | 4.3 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 10 | 4.3 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 10 | 4.3 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 10 | 4.3 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 10 | 4.3 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 16 | 4.3 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 15 | 4.3 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 15 | 4.3 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 15 | 4.3 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 2 | 4.3 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 2 | 4.3 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 2 | 4.3 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 2 | 4.3 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 4 | 4.3 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 4 | 4.3 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 4 | 4.3 |
| (1,1556) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 13 | 4.3 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 13 | 4.3 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 13 | 4.3 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 18 | 4.3 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 7 | 4.3 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 7 | 4.3 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 7 | 4.3 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 7 | 4.3 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 7 | 4.3 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 7 | 4.3 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 1 | 4.3 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 4 | 4.3 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 15 | 4.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 15 | 4.3 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 16 | 4.3 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 3 | 4.3 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 10 | 4.3 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 8 | 4.3 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 9 | 4.3 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 13 | 4.3 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 13 | 4.3 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 13 | 4.3 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 15 | 4.3 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 15 | 4.3 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 15 | 4.3 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 15 | 4.3 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 15 | 4.3 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 15 | 4.3 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 1 | 4.3 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 11 | 4.3 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 16 | 4.3 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 16 | 4.3 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 16 | 4.3 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 11 | 4.3 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 1 | 4.3 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 1 | 4.3 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 1 | 4.3 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 19 | 4.3 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 20 | 4.3 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 19 | 4.3 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 19 | 4.3 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 16 | 4.3 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 16 | 4.3 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 8 | 4.29 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 20 | 4.29 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 20 | 4.29 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 10 | 4.29 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 10 | 4.29 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 10 | 4.29 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 10 | 4.29 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 10 | 4.29 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 10 | 4.29 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 6 | 4.29 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 6 | 4.29 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 6 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 6 | 4.29 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 6 | 4.29 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 6 | 4.29 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 14 | 4.29 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 14 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 16 | 4.29 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 16 | 4.29 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 19 | 4.29 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 19 | 4.29 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 19 | 4.29 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 19 | 4.29 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 19 | 4.29 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 19 | 4.29 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 19 | 4.29 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 19 | 4.29 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 4 | 4.29 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 4 | 4.29 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 4 | 4.29 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 4 | 4.29 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 4 | 4.29 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 4 | 4.29 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 6 | 4.29 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 6 | 4.29 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 16 | 4.29 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 16 | 4.29 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 7 | 4.29 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 7 | 4.29 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 7 | 4.29 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 7 | 4.29 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 7 | 4.29 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 7 | 4.29 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 1 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 1 | 4.29 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 14 | 4.29 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 14 | 4.29 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 17 | 4.29 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 17 | 4.29 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 14 | 4.29 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 14 | 4.29 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 14 | 4.29 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 14 | 4.29 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 1 | 4.29 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 1 | 4.29 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 15 | 4.29 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 15 | 4.29 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 12 | 4.29 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 12 | 4.29 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 12 | 4.29 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 12 | 4.29 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 12 | 4.29 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 12 | 4.29 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 10 | 4.29 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 10 | 4.29 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 15 | 4.29 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 15 | 4.29 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 15 | 4.29 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 15 | 4.29 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 15 | 4.29 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 15 | 4.29 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 15 | 4.29 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 15 | 4.29 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 15 | 4.29 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 15 | 4.29 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 15 | 4.29 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 15 | 4.29 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 4 | 4.29 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 4 | 4.29 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 4 | 4.29 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 4 | 4.29 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 4 | 4.29 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 4 | 4.29 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 6 | 4.29 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 6 | 4.29 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 1 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 1 | 4.29 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 16 | 4.29 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 16 | 4.29 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 5 | 4.29 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 5 | 4.29 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 5 | 4.29 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 5 | 4.29 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 5 | 4.29 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 5 | 4.29 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 2 | 4.29 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 2 | 4.29 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 2 | 4.29 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 2 | 4.29 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 11 | 4.29 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 11 | 4.29 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 18 | 4.29 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 18 | 4.29 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 13 | 4.29 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 13 | 4.29 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 1 | 4.29 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 1 | 4.29 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 4.29 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 4.29 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 4.29 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 4.29 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 4.29 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 4.29 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 17 | 4.29 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 17 | 4.29 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD2 | 17 | 4.29 |
| (1,8740) | 1:53:A:ALA:H | 1:54:A:ARG:HD3 | 17 | 4.29 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 12 | 4.29 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 12 | 4.29 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 8 | 4.29 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 8 | 4.29 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 10 | 4.29 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 10 | 4.29 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 19 | 4.29 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 19 | 4.29 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 19 | 4.29 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 19 | 4.29 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 1 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 1 | 4.29 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 2 | 4.29 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 2 | 4.29 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 8 | 4.29 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 8 | 4.29 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 13 | 4.29 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 13 | 4.29 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 19 | 4.29 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 19 | 4.29 |
| (1,8514) | 1:29:A:THR:HG21 | 1:141:A:LEU:H | 4 | 4.29 |
| (1,8514) | 1:29:A:THR:HG22 | 1:141:A:LEU:H | 4 | 4.29 |
| (1,8514) | 1:29:A:THR:HG23 | 1:141:A:LEU:H | 4 | 4.29 |
| (1,8504) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 9 | 4.29 |
| (1,8504) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 9 | 4.29 |
| (1,8504) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 9 | 4.29 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 11 | 4.29 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 11 | 4.29 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 11 | 4.29 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 18 | 4.29 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 18 | 4.29 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 20 | 4.29 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 20 | 4.29 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 17 | 4.29 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 1 | 4.29 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 6 | 4.29 |
| (1,8417) | 1:142:A:ARG:HA | 1:143:A:THR:HA | 17 | 4.29 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 18 | 4.29 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 3 | 4.29 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 4 | 4.29 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 4 | 4.29 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 4 | 4.29 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 1 | 4.29 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 1 | 4.29 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 1 | 4.29 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 16 | 4.29 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 14 | 4.29 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 14 | 4.29 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 9 | 4.29 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 9 | 4.29 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 9 | 4.29 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 3 | 4.29 |
| (1,8241) | 1:115:A:SER:H | 1:117:A:LYS:H | 13 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 2 | 4.29 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 2 | 4.29 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 2 | 4.29 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 2 | 4.29 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 2 | 4.29 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 2 | 4.29 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 6 | 4.29 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 14 | 4.29 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 8 | 4.29 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 12 | 4.29 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 10 | 4.29 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 14 | 4.29 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 3 | 4.29 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 18 | 4.29 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 18 | 4.29 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 18 | 4.29 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 5 | 4.29 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 5 | 4.29 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 5 | 4.29 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 8 | 4.29 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 8 | 4.29 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 8 | 4.29 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 2 | 4.29 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 2 | 4.29 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 2 | 4.29 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 2 | 4.29 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 2 | 4.29 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 2 | 4.29 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 2 | 4.29 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 2 | 4.29 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 2 | 4.29 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 12 | 4.29 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 12 | 4.29 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 12 | 4.29 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 8 | 4.29 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 16 | 4.29 |
| (1,7902) | 1:67:A:SER:HA | 1:68:A:ARG:HA | 14 | 4.29 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 13 | 4.29 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 20 | 4.29 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 14 | 4.29 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 19 | 4.29 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 10 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 10 | 4.29 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 10 | 4.29 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 20 | 4.29 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 6 | 4.29 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 6 | 4.29 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 1 | 4.29 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 17 | 4.29 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 1 | 4.29 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 1 | 4.29 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 6 | 4.29 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 6 | 4.29 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 5 | 4.29 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 7 | 4.29 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 18 | 4.29 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 18 | 4.29 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 11 | 4.29 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 16 | 4.29 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 6 | 4.29 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 6 | 4.29 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 20 | 4.29 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 20 | 4.29 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 20 | 4.29 |
| (1,7428) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 15 | 4.29 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 9 | 4.29 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 9 | 4.29 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 9 | 4.29 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 10 | 4.29 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 10 | 4.29 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 10 | 4.29 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 1 | 4.29 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 20 | 4.29 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 20 | 4.29 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 20 | 4.29 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 19 | 4.29 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 19 | 4.29 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 19 | 4.29 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 1 | 4.29 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 1 | 4.29 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 1 | 4.29 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 9 | 4.29 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 9 | 4.29 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 19 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 16 | 4.29 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 16 | 4.29 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 4 | 4.29 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 4 | 4.29 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 4 | 4.29 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 18 | 4.29 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 20 | 4.29 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 17 | 4.29 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 17 | 4.29 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 17 | 4.29 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 17 | 4.29 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 17 | 4.29 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 17 | 4.29 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 9 | 4.29 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 2 | 4.29 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 2 | 4.29 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 2 | 4.29 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 16 | 4.29 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 17 | 4.29 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 6 | 4.29 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 11 | 4.29 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 14 | 4.29 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 19 | 4.29 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 13 | 4.29 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 10 | 4.29 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 10 | 4.29 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 7 | 4.29 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 7 | 4.29 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 8 | 4.29 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 8 | 4.29 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 13 | 4.29 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 13 | 4.29 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 10 | 4.29 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 15 | 4.29 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 18 | 4.29 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 18 | 4.29 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 18 | 4.29 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 20 | 4.29 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 20 | 4.29 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 20 | 4.29 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 20 | 4.29 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 20 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 20 | 4.29 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 20 | 4.29 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 20 | 4.29 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 20 | 4.29 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 15 | 4.29 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 17 | 4.29 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 19 | 4.29 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 16 | 4.29 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 20 | 4.29 |
| (1,6597) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 4 | 4.29 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 19 | 4.29 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 7 | 4.29 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 7 | 4.29 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 7 | 4.29 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 10 | 4.29 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 1 | 4.29 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 1 | 4.29 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 1 | 4.29 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 6 | 4.29 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 6 | 4.29 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 6 | 4.29 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 19 | 4.29 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 7 | 4.29 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 7 | 4.29 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 7 | 4.29 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 2 | 4.29 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 8 | 4.29 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 8 | 4.29 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 8 | 4.29 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 8 | 4.29 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 8 | 4.29 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 8 | 4.29 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 8 | 4.29 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 8 | 4.29 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 8 | 4.29 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 16 | 4.29 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 5 | 4.29 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 8 | 4.29 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 4 | 4.29 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 4 | 4.29 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 4 | 4.29 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 17 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 10 | 4.29 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 10 | 4.29 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 8 | 4.29 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 8 | 4.29 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 8 | 4.29 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 18 | 4.29 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 18 | 4.29 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 18 | 4.29 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 9 | 4.29 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 9 | 4.29 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 4 | 4.29 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 4 | 4.29 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 4 | 4.29 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 6 | 4.29 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 6 | 4.29 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 6 | 4.29 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 20 | 4.29 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 20 | 4.29 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 20 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 19 | 4.29 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 19 | 4.29 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 17 | 4.29 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 9 | 4.29 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 13 | 4.29 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 13 | 4.29 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 16 | 4.29 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 16 | 4.29 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 15 | 4.29 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 15 | 4.29 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 15 | 4.29 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 10 | 4.29 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 3 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 3 | 4.29 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 3 | 4.29 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 18 | 4.29 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 18 | 4.29 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 18 | 4.29 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 19 | 4.29 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 10 | 4.29 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 19 | 4.29 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 12 | 4.29 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 15 | 4.29 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 15 | 4.29 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 15 | 4.29 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 7 | 4.29 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 7 | 4.29 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 7 | 4.29 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 12 | 4.29 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 9 | 4.29 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 9 | 4.29 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 14 | 4.29 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 14 | 4.29 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 3 | 4.29 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 11 | 4.29 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 11 | 4.29 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 11 | 4.29 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 17 | 4.29 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 17 | 4.29 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 17 | 4.29 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 4 | 4.29 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 4 | 4.29 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 10 | 4.29 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 6 | 4.29 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 6 | 4.29 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 6 | 4.29 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 16 | 4.29 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 14 | 4.29 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 15 | 4.29 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 15 | 4.29 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 15 | 4.29 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 14 | 4.29 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 14 | 4.29 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 14 | 4.29 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 19 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 19 | 4.29 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 19 | 4.29 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 19 | 4.29 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 19 | 4.29 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 19 | 4.29 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 19 | 4.29 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 19 | 4.29 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 19 | 4.29 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 3 | 4.29 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 20 | 4.29 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 19 | 4.29 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 14 | 4.29 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 14 | 4.29 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 14 | 4.29 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 6 | 4.29 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 6 | 4.29 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 18 | 4.29 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 6 | 4.29 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 6 | 4.29 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 6 | 4.29 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 6 | 4.29 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 6 | 4.29 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 6 | 4.29 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 9 | 4.29 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 9 | 4.29 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 19 | 4.29 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 19 | 4.29 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 19 | 4.29 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 19 | 4.29 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 19 | 4.29 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 19 | 4.29 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 19 | 4.29 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 19 | 4.29 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 4 | 4.29 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 4 | 4.29 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 4 | 4.29 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 4 | 4.29 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 4 | 4.29 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 4 | 4.29 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 9 | 4.29 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 9 | 4.29 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 9 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 7 | 4.29 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 7 | 4.29 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 7 | 4.29 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 7 | 4.29 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 7 | 4.29 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 7 | 4.29 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 8 | 4.29 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 14 | 4.29 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 14 | 4.29 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 17 | 4.29 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 17 | 4.29 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 17 | 4.29 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 2 | 4.29 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 7 | 4.29 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 7 | 4.29 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 7 | 4.29 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 7 | 4.29 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 10 | 4.29 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 10 | 4.29 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 15 | 4.29 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 15 | 4.29 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 4.29 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 14 | 4.29 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 14 | 4.29 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 14 | 4.29 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 15 | 4.29 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 15 | 4.29 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 15 | 4.29 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 15 | 4.29 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 15 | 4.29 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 15 | 4.29 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 4 | 4.29 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 4 | 4.29 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 4 | 4.29 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 4 | 4.29 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 1 | 4.29 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 1 | 4.29 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 8 | 4.29 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 10 | 4.29 |
| (1,4034) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 11 | 4.29 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 7 | 4.29 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 7 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 11 | 4.29 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 5 | 4.29 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 5 | 4.29 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 5 | 4.29 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 5 | 4.29 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 5 | 4.29 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 5 | 4.29 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 4 | 4.29 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 6 | 4.29 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 6 | 4.29 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 7 | 4.29 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 7 | 4.29 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 4.29 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 4.29 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 4.29 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 4.29 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 4.29 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 4.29 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 11 | 4.29 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 11 | 4.29 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 11 | 4.29 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 7 | 4.29 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 7 | 4.29 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 13 | 4.29 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 2 | 4.29 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 12 | 4.29 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 2 | 4.29 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 2 | 4.29 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 2 | 4.29 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 2 | 4.29 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 1 | 4.29 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 1 | 4.29 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 17 | 4.29 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 4.29 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 17 | 4.29 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 16 | 4.29 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 19 | 4.29 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 19 | 4.29 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 1 | 4.29 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 4 | 4.29 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 4 | 4.29 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 4 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 18 | 4.29 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 20 | 4.29 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 17 | 4.29 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 17 | 4.29 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 17 | 4.29 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 17 | 4.29 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 17 | 4.29 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 17 | 4.29 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 9 | 4.29 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 2 | 4.29 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 2 | 4.29 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 2 | 4.29 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 6 | 4.29 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 6 | 4.29 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 6 | 4.29 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 2 | 4.29 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 2 | 4.29 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 2 | 4.29 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 16 | 4.29 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 17 | 4.29 |
| (1,3056) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 1 | 4.29 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 6 | 4.29 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 11 | 4.29 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 14 | 4.29 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 19 | 4.29 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 13 | 4.29 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 10 | 4.29 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 10 | 4.29 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 7 | 4.29 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 7 | 4.29 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 8 | 4.29 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 8 | 4.29 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 13 | 4.29 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 13 | 4.29 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 10 | 4.29 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 15 | 4.29 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 18 | 4.29 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 18 | 4.29 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 18 | 4.29 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 20 | 4.29 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 20 | 4.29 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 20 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 20 | 4.29 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 20 | 4.29 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 20 | 4.29 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 20 | 4.29 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 20 | 4.29 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 20 | 4.29 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 8 | 4.29 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 15 | 4.29 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 15 | 4.29 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 17 | 4.29 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 19 | 4.29 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 16 | 4.29 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 17 | 4.29 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 20 | 4.29 |
| (1,2454) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 4 | 4.29 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 19 | 4.29 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 7 | 4.29 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 7 | 4.29 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 7 | 4.29 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 16 | 4.29 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 10 | 4.29 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 2 | 4.29 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 19 | 4.29 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 9 | 4.29 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 1 | 4.29 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 1 | 4.29 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 1 | 4.29 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 6 | 4.29 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 6 | 4.29 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 6 | 4.29 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 19 | 4.29 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 7 | 4.29 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 7 | 4.29 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 7 | 4.29 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 17 | 4.29 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 17 | 4.29 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 17 | 4.29 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 2 | 4.29 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 8 | 4.29 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 8 | 4.29 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 8 | 4.29 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 8 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 8 | 4.29 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 8 | 4.29 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 8 | 4.29 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 8 | 4.29 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 8 | 4.29 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 8 | 4.29 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 8 | 4.29 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 16 | 4.29 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 5 | 4.29 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 8 | 4.29 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 4 | 4.29 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 4 | 4.29 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 4 | 4.29 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 15 | 4.29 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 17 | 4.29 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 4 | 4.29 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 10 | 4.29 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 10 | 4.29 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 8 | 4.29 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 8 | 4.29 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 8 | 4.29 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 18 | 4.29 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 18 | 4.29 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 18 | 4.29 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 9 | 4.29 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 9 | 4.29 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 4 | 4.29 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 4 | 4.29 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 4 | 4.29 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 6 | 4.29 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 6 | 4.29 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 6 | 4.29 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 20 | 4.29 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 20 | 4.29 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 20 | 4.29 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 16 | 4.29 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 16 | 4.29 |
| (1,1460) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 16 | 4.29 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 4 | 4.29 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 4 | 4.29 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 4 | 4.29 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 10 | 4.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 1 | 4.29 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 1 | 4.29 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 1 | 4.29 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 1 | 4.29 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 1 | 4.29 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 1 | 4.29 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 17 | 4.29 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 9 | 4.29 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 1 | 4.29 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 1 | 4.29 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 13 | 4.29 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 13 | 4.29 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 16 | 4.29 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 12 | 4.29 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 15 | 4.29 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 15 | 4.29 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 15 | 4.29 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 1 | 4.29 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 10 | 4.29 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 3 | 4.29 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 19 | 4.29 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 14 | 4.29 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 14 | 4.29 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 14 | 4.29 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 14 | 4.29 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 14 | 4.29 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 14 | 4.29 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 14 | 4.29 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 14 | 4.29 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 14 | 4.29 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 2 | 4.29 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 9 | 4.28 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 11 | 4.28 |
| (4,30) | 1:15:A:MET:CB | 1:81:A:THR:H | 1 | 4.28 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 20 | 4.28 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 20 | 4.28 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 8 | 4.28 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 8 | 4.28 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 4 | 4.28 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 4 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 18 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 18 | 4.28 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 18 | 4.28 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 7 | 4.28 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 7 | 4.28 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 7 | 4.28 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 7 | 4.28 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 7 | 4.28 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 7 | 4.28 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 6 | 4.28 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 6 | 4.28 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 17 | 4.28 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 17 | 4.28 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 1 | 4.28 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 1 | 4.28 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 14 | 4.28 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 14 | 4.28 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 15 | 4.28 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 15 | 4.28 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 6 | 4.28 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 6 | 4.28 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 15 | 4.28 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 15 | 4.28 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 17 | 4.28 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 17 | 4.28 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 10 | 4.28 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 10 | 4.28 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 19 | 4.28 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 19 | 4.28 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 11 | 4.28 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 11 | 4.28 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 4 | 4.28 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 4 | 4.28 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 3 | 4.28 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 3 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 7 | 4.28 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 7 | 4.28 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 7 | 4.28 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 7 | 4.28 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 7 | 4.28 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 7 | 4.28 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 7 | 4.28 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 7 | 4.28 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 7 | 4.28 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 7 | 4.28 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 7 | 4.28 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 7 | 4.28 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 10 | 4.28 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 10 | 4.28 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 4 | 4.28 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 4 | 4.28 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 17 | 4.28 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 17 | 4.28 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 20 | 4.28 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 20 | 4.28 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 6 | 4.28 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 6 | 4.28 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 6 | 4.28 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 6 | 4.28 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 11 | 4.28 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 11 | 4.28 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 1 | 4.28 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 1 | 4.28 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 1 | 4.28 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 1 | 4.28 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 12 | 4.28 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 12 | 4.28 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 5 | 4.28 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 5 | 4.28 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 14 | 4.28 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 14 | 4.28 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 14 | 4.28 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 14 | 4.28 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 12 | 4.28 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 12 | 4.28 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 12 | 4.28 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 12 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 5 | 4.28 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 5 | 4.28 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 8 | 4.28 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 8 | 4.28 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 15 | 4.28 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 15 | 4.28 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 7 | 4.28 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 13 | 4.28 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 20 | 4.28 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 20 | 4.28 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 20 | 4.28 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 5 | 4.28 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 5 | 4.28 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 1 | 4.28 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 12 | 4.28 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 9 | 4.28 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 16 | 4.28 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 16 | 4.28 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 16 | 4.28 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 11 | 4.28 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 15 | 4.28 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 15 | 4.28 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 15 | 4.28 |
| (1,8327) | 1:131:A:GLN:H | 1:133:A:PRO:HD2 | 14 | 4.28 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 5 | 4.28 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 11 | 4.28 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 1 | 4.28 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 1 | 4.28 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 1 | 4.28 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 1 | 4.28 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 1 | 4.28 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 1 | 4.28 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 9 | 4.28 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 4 | 4.28 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 4 | 4.28 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 4 | 4.28 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 20 | 4.28 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 17 | 4.28 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 17 | 4.28 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 17 | 4.28 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 14 | 4.28 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 14 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 14 | 4.28 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 14 | 4.28 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 14 | 4.28 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 14 | 4.28 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 14 | 4.28 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 14 | 4.28 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 14 | 4.28 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 13 | 4.28 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 11 | 4.28 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 11 | 4.28 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 14 | 4.28 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 14 | 4.28 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 19 | 4.28 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 19 | 4.28 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 19 | 4.28 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 4 | 4.28 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 16 | 4.28 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 16 | 4.28 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 16 | 4.28 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 3 | 4.28 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 2 | 4.28 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 1 | 4.28 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 3 | 4.28 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 8 | 4.28 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 11 | 4.28 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 3 | 4.28 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 3 | 4.28 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 3 | 4.28 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 12 | 4.28 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 1 | 4.28 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 16 | 4.28 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 16 | 4.28 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 16 | 4.28 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 14 | 4.28 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 14 | 4.28 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 14 | 4.28 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 14 | 4.28 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 14 | 4.28 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 14 | 4.28 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 14 | 4.28 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 14 | 4.28 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 14 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 12 | 4.28 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 5 | 4.28 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 5 | 4.28 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 5 | 4.28 |
| (1,7741) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 1 | 4.28 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 18 | 4.28 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 18 | 4.28 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 18 | 4.28 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 18 | 4.28 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 18 | 4.28 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 18 | 4.28 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 14 | 4.28 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 14 | 4.28 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 9 | 4.28 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 9 | 4.28 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 20 | 4.28 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 20 | 4.28 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 11 | 4.28 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 11 | 4.28 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 9 | 4.28 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 9 | 4.28 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 9 | 4.28 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 2 | 4.28 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 17 | 4.28 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 19 | 4.28 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 2 | 4.28 |
| (1,7595) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 19 | 4.28 |
| (1,7595) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 19 | 4.28 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 15 | 4.28 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 15 | 4.28 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 15 | 4.28 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 20 | 4.28 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 20 | 4.28 |
| (1,7456) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 18 | 4.28 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 11 | 4.28 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 11 | 4.28 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 11 | 4.28 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 8 | 4.28 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 10 | 4.28 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 10 | 4.28 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 10 | 4.28 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 16 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 17 | 4.28 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 17 | 4.28 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 13 | 4.28 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 13 | 4.28 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 13 | 4.28 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 10 | 4.28 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 5 | 4.28 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 5 | 4.28 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 5 | 4.28 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 5 | 4.28 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 5 | 4.28 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 5 | 4.28 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 8 | 4.28 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 8 | 4.28 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 8 | 4.28 |
| (1,7229) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 8 | 4.28 |
| (1,7229) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 8 | 4.28 |
| (1,7229) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 8 | 4.28 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 6 | 4.28 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 19 | 4.28 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 3 | 4.28 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 3 | 4.28 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 3 | 4.28 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 3 | 4.28 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 4 | 4.28 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 5 | 4.28 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 17 | 4.28 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 17 | 4.28 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 17 | 4.28 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 18 | 4.28 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 18 | 4.28 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 18 | 4.28 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 12 | 4.28 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 12 | 4.28 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 12 | 4.28 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 16 | 4.28 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 10 | 4.28 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 20 | 4.28 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 17 | 4.28 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 13 | 4.28 |
| (1,6874) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 15 | 4.28 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 20 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 20 | 4.28 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 20 | 4.28 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 6 | 4.28 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 1 | 4.28 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 14 | 4.28 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 7 | 4.28 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 7 | 4.28 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 7 | 4.28 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 1 | 4.28 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 1 | 4.28 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 11 | 4.28 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 11 | 4.28 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 11 | 4.28 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 11 | 4.28 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 7 | 4.28 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 18 | 4.28 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 18 | 4.28 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 18 | 4.28 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 20 | 4.28 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 20 | 4.28 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 20 | 4.28 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 14 | 4.28 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 10 | 4.28 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 10 | 4.28 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 10 | 4.28 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 3 | 4.28 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 5 | 4.28 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 5 | 4.28 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 5 | 4.28 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 19 | 4.28 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 19 | 4.28 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 19 | 4.28 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 19 | 4.28 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 19 | 4.28 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 19 | 4.28 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 6 | 4.28 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 6 | 4.28 |
| (1,6316) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 6 | 4.28 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 9 | 4.28 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 9 | 4.28 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 9 | 4.28 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 4 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 3 | 4.28 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 3 | 4.28 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 3 | 4.28 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 19 | 4.28 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 19 | 4.28 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 19 | 4.28 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 15 | 4.28 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 13 | 4.28 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 13 | 4.28 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 13 | 4.28 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 11 | 4.28 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 11 | 4.28 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 11 | 4.28 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 6 | 4.28 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 6 | 4.28 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 6 | 4.28 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 6 | 4.28 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 13 | 4.28 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 15 | 4.28 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 11 | 4.28 |
| (1,6179) | 1:142:A:ARG:H | 1:143:A:THR:H | 2 | 4.28 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 9 | 4.28 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 9 | 4.28 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 9 | 4.28 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 5 | 4.28 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 5 | 4.28 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 5 | 4.28 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 16 | 4.28 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 16 | 4.28 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 16 | 4.28 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 5 | 4.28 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 5 | 4.28 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 12 | 4.28 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 12 | 4.28 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 7 | 4.28 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 7 | 4.28 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 7 | 4.28 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 11 | 4.28 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 11 | 4.28 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 11 | 4.28 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 15 | 4.28 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 15 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 15 | 4.28 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 9 | 4.28 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 9 | 4.28 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 9 | 4.28 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 9 | 4.28 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 9 | 4.28 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 9 | 4.28 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 9 | 4.28 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 9 | 4.28 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 9 | 4.28 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 13 | 4.28 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 13 | 4.28 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 7 | 4.28 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 10 | 4.28 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 2 | 4.28 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 17 | 4.28 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 18 | 4.28 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 18 | 4.28 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 18 | 4.28 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 6 | 4.28 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 8 | 4.28 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 13 | 4.28 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 13 | 4.28 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 13 | 4.28 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 1 | 4.28 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 1 | 4.28 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 1 | 4.28 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 4 | 4.28 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 4 | 4.28 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 4 | 4.28 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 12 | 4.28 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 12 | 4.28 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 12 | 4.28 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 13 | 4.28 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 13 | 4.28 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 13 | 4.28 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 19 | 4.28 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 19 | 4.28 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 19 | 4.28 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 16 | 4.28 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 8 | 4.28 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 12 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 10 | 4.28 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 10 | 4.28 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 10 | 4.28 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 10 | 4.28 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 10 | 4.28 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 10 | 4.28 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 12 | 4.28 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 12 | 4.28 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 12 | 4.28 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 19 | 4.28 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 19 | 4.28 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 19 | 4.28 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 7 | 4.28 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 4 | 4.28 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 3 | 4.28 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 15 | 4.28 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 12 | 4.28 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 5 | 4.28 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 2 | 4.28 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 12 | 4.28 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 12 | 4.28 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 12 | 4.28 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 20 | 4.28 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 20 | 4.28 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 20 | 4.28 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 5 | 4.28 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 5 | 4.28 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 5 | 4.28 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 2 | 4.28 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 16 | 4.28 |
| (1,4972) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 16 | 4.28 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 14 | 4.28 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 15 | 4.28 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 3 | 4.28 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 3 | 4.28 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 3 | 4.28 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 3 | 4.28 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 3 | 4.28 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 3 | 4.28 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 19 | 4.28 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 15 | 4.28 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 17 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 17 | 4.28 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 17 | 4.28 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 17 | 4.28 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 8 | 4.28 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 3 | 4.28 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 3 | 4.28 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 1 | 4.28 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 4 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 3 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 3 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 3 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 3 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 3 | 4.28 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 3 | 4.28 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 7 | 4.28 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 7 | 4.28 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 7 | 4.28 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 7 | 4.28 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 7 | 4.28 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 7 | 4.28 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 6 | 4.28 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 6 | 4.28 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 17 | 4.28 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 17 | 4.28 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 1 | 4.28 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 1 | 4.28 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 5 | 4.28 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 5 | 4.28 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 15 | 4.28 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 15 | 4.28 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 15 | 4.28 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 15 | 4.28 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 18 | 4.28 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 18 | 4.28 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 18 | 4.28 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 11 | 4.28 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 11 | 4.28 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 2 | 4.28 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 2 | 4.28 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 1 | 4.28 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 7 | 4.28 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 7 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 7 | 4.28 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 3 | 4.28 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 3 | 4.28 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 5 | 4.28 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 9 | 4.28 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 7 | 4.28 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 7 | 4.28 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 7 | 4.28 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 7 | 4.28 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 7 | 4.28 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 7 | 4.28 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 10 | 4.28 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 10 | 4.28 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 20 | 4.28 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 8 | 4.28 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 1 | 4.28 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 10 | 4.28 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 10 | 4.28 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 11 | 4.28 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 11 | 4.28 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 2 | 4.28 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 12 | 4.28 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 12 | 4.28 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 12 | 4.28 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 13 | 4.28 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 13 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 9 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 9 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 9 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 9 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 9 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 9 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 20 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 20 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 20 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 20 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 20 | 4.28 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 20 | 4.28 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 13 | 4.28 |
| (1,3673) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 2 | 4.28 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 3 | 4.28 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 5 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 5 | 4.28 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 14 | 4.28 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 14 | 4.28 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 14 | 4.28 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 14 | 4.28 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 11 | 4.28 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 4 | 4.28 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 4 | 4.28 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 4 | 4.28 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 4 | 4.28 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 9 | 4.28 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 11 | 4.28 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 15 | 4.28 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 15 | 4.28 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 13 | 4.28 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 13 | 4.28 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 13 | 4.28 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 5 | 4.28 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 10 | 4.28 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 6 | 4.28 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 19 | 4.28 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 3 | 4.28 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 3 | 4.28 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 3 | 4.28 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 4.28 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 3 | 4.28 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 4 | 4.28 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 5 | 4.28 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 17 | 4.28 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 17 | 4.28 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 17 | 4.28 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 18 | 4.28 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 18 | 4.28 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 18 | 4.28 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 12 | 4.28 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 12 | 4.28 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 12 | 4.28 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 20 | 4.28 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 20 | 4.28 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 20 | 4.28 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 16 | 4.28 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 10 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 20 | 4.28 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 16 | 4.28 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 17 | 4.28 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 13 | 4.28 |
| (1,2868) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 15 | 4.28 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 20 | 4.28 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 20 | 4.28 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 20 | 4.28 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 6 | 4.28 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 1 | 4.28 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 9 | 4.28 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 7 | 4.28 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 7 | 4.28 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 7 | 4.28 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 1 | 4.28 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 1 | 4.28 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 11 | 4.28 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 11 | 4.28 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 11 | 4.28 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 11 | 4.28 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 7 | 4.28 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 4.28 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 18 | 4.28 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 18 | 4.28 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 18 | 4.28 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 6 | 4.28 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 10 | 4.28 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 20 | 4.28 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 20 | 4.28 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 20 | 4.28 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 13 | 4.28 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 14 | 4.28 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 10 | 4.28 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 10 | 4.28 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 10 | 4.28 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 18 | 4.28 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 18 | 4.28 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 18 | 4.28 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 9 | 4.28 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 3 | 4.28 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 5 | 4.28 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 5 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 5 | 4.28 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 19 | 4.28 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 19 | 4.28 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 19 | 4.28 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 19 | 4.28 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 19 | 4.28 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 19 | 4.28 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 6 | 4.28 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 6 | 4.28 |
| (1,1988) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 6 | 4.28 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 9 | 4.28 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 9 | 4.28 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 9 | 4.28 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 4 | 4.28 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 3 | 4.28 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 3 | 4.28 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 3 | 4.28 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 19 | 4.28 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 19 | 4.28 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 19 | 4.28 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 1 | 4.28 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 15 | 4.28 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 13 | 4.28 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 13 | 4.28 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 13 | 4.28 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 11 | 4.28 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 11 | 4.28 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 11 | 4.28 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 6 | 4.28 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 6 | 4.28 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 6 | 4.28 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 6 | 4.28 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 13 | 4.28 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 15 | 4.28 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 11 | 4.28 |
| (1,1784) | 1:142:A:ARG:H | 1:143:A:THR:H | 2 | 4.28 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 9 | 4.28 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 9 | 4.28 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 9 | 4.28 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 5 | 4.28 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 5 | 4.28 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 5 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 16 | 4.28 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 16 | 4.28 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 16 | 4.28 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 5 | 4.28 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 5 | 4.28 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 12 | 4.28 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 12 | 4.28 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 7 | 4.28 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 7 | 4.28 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 7 | 4.28 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 11 | 4.28 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 11 | 4.28 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 11 | 4.28 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 15 | 4.28 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 15 | 4.28 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 15 | 4.28 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 9 | 4.28 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 9 | 4.28 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 9 | 4.28 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 9 | 4.28 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 9 | 4.28 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 9 | 4.28 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 9 | 4.28 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 9 | 4.28 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 9 | 4.28 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 11 | 4.28 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 11 | 4.28 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 13 | 4.28 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 13 | 4.28 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 7 | 4.28 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 10 | 4.28 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 2 | 4.28 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 17 | 4.28 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 18 | 4.28 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 18 | 4.28 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 18 | 4.28 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 3 | 4.28 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 3 | 4.28 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 3 | 4.28 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 4 | 4.28 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 4 | 4.28 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 4 | 4.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 6 | 4.28 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 15 | 4.28 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 8 | 4.28 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 13 | 4.28 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 13 | 4.28 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 13 | 4.28 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 20 | 4.28 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 7 | 4.28 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 7 | 4.28 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 7 | 4.28 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 7 | 4.28 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 7 | 4.28 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 7 | 4.28 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 5 | 4.28 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 5 | 4.28 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 5 | 4.28 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 5 | 4.28 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 5 | 4.28 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 5 | 4.28 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 16 | 4.28 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 16 | 4.28 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 16 | 4.28 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 16 | 4.28 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 16 | 4.28 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 16 | 4.28 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 13 | 4.28 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 13 | 4.28 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 13 | 4.28 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 16 | 4.28 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 16 | 4.28 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 16 | 4.28 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 20 | 4.28 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 20 | 4.28 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 20 | 4.28 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 20 | 4.28 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 20 | 4.28 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 20 | 4.28 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 20 | 4.28 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 20 | 4.28 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 20 | 4.28 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 9 | 4.28 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 4 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 16 | 4.27 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 15 | 4.27 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 16 | 4.27 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 16 | 4.27 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 13 | 4.27 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 13 | 4.27 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 2 | 4.27 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 2 | 4.27 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 9 | 4.27 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 9 | 4.27 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 10 | 4.27 |
| (1,9447) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 10 | 4.27 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 10 | 4.27 |
| (1,9447) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 10 | 4.27 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 12 | 4.27 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 12 | 4.27 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 13 | 4.27 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 13 | 4.27 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 10 | 4.27 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 10 | 4.27 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 10 | 4.27 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 10 | 4.27 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 10 | 4.27 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 10 | 4.27 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 10 | 4.27 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 10 | 4.27 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 4 | 4.27 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 4 | 4.27 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 7 | 4.27 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 7 | 4.27 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 14 | 4.27 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 14 | 4.27 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 14 | 4.27 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 14 | 4.27 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 14 | 4.27 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 14 | 4.27 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 1 | 4.27 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 1 | 4.27 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 14 | 4.27 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 14 | 4.27 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 1 | 4.27 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 1 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 1 | 4.27 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 1 | 4.27 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 1 | 4.27 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 1 | 4.27 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 17 | 4.27 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 17 | 4.27 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 17 | 4.27 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 17 | 4.27 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 17 | 4.27 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 17 | 4.27 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 17 | 4.27 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 17 | 4.27 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 17 | 4.27 |
| (1,9194) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 17 | 4.27 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 17 | 4.27 |
| (1,9194) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 17 | 4.27 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 13 | 4.27 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 13 | 4.27 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 13 | 4.27 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 13 | 4.27 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 14 | 4.27 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 14 | 4.27 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 14 | 4.27 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 14 | 4.27 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 2 | 4.27 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 2 | 4.27 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 12 | 4.27 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 12 | 4.27 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 12 | 4.27 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 12 | 4.27 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 17 | 4.27 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 17 | 4.27 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 10 | 4.27 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 10 | 4.27 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 10 | 4.27 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 10 | 4.27 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 10 | 4.27 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 10 | 4.27 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 17 | 4.27 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 17 | 4.27 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 16 | 4.27 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 16 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 13 | 4.27 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 13 | 4.27 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 6 | 4.27 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 6 | 4.27 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 6 | 4.27 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 6 | 4.27 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 6 | 4.27 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 6 | 4.27 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 3 | 4.27 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 3 | 4.27 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 18 | 4.27 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 18 | 4.27 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 18 | 4.27 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 18 | 4.27 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 4 | 4.27 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 4 | 4.27 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 4 | 4.27 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 4 | 4.27 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 4 | 4.27 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 4 | 4.27 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 12 | 4.27 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 12 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 5 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 5 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 5 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 5 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 5 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 5 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 13 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 13 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 13 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 13 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 13 | 4.27 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 13 | 4.27 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 12 | 4.27 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 12 | 4.27 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 18 | 4.27 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 18 | 4.27 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 18 | 4.27 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 18 | 4.27 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 18 | 4.27 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 18 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 7 | 4.27 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 7 | 4.27 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 10 | 4.27 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 10 | 4.27 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 10 | 4.27 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 10 | 4.27 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 17 | 4.27 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 17 | 4.27 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 15 | 4.27 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 15 | 4.27 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 15 | 4.27 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 15 | 4.27 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 9 | 4.27 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 9 | 4.27 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 4 | 4.27 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 4 | 4.27 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 14 | 4.27 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 14 | 4.27 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 10 | 4.27 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 10 | 4.27 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 17 | 4.27 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 17 | 4.27 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 17 | 4.27 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 16 | 4.27 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 20 | 4.27 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 20 | 4.27 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 20 | 4.27 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 20 | 4.27 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 20 | 4.27 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 20 | 4.27 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 6 | 4.27 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 3 | 4.27 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 3 | 4.27 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 3 | 4.27 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 16 | 4.27 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 16 | 4.27 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 16 | 4.27 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 2 | 4.27 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 9 | 4.27 |
| (1,8379) | 1:137:A:ALA:HB1 | 1:147:A:SER:HA | 9 | 4.27 |
| (1,8379) | 1:137:A:ALA:HB2 | 1:147:A:SER:HA | 9 | 4.27 |
| (1,8379) | 1:137:A:ALA:HB3 | 1:147:A:SER:HA | 9 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 6 | 4.27 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 6 | 4.27 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 6 | 4.27 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 10 | 4.27 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 10 | 4.27 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 10 | 4.27 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 10 | 4.27 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 10 | 4.27 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 10 | 4.27 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 2 | 4.27 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 2 | 4.27 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 14 | 4.27 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 18 | 4.27 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 10 | 4.27 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 17 | 4.27 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 12 | 4.27 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 13 | 4.27 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 11 | 4.27 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 1 | 4.27 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 6 | 4.27 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 6 | 4.27 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 9 | 4.27 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 6 | 4.27 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 6 | 4.27 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 6 | 4.27 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 10 | 4.27 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 10 | 4.27 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 10 | 4.27 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 9 | 4.27 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 16 | 4.27 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 16 | 4.27 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 1 | 4.27 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 4 | 4.27 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 4 | 4.27 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 4 | 4.27 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 13 | 4.27 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 16 | 4.27 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 3 | 4.27 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 3 | 4.27 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 15 | 4.27 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 15 | 4.27 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 15 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7789) | 1:58:A:SER:H | 1:59:A:HIS:H | 4 | 4.27 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 7 | 4.27 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 17 | 4.27 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 17 | 4.27 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 6 | 4.27 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 3 | 4.27 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 3 | 4.27 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 3 | 4.27 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 3 | 4.27 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 14 | 4.27 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 15 | 4.27 |
| (1,7674) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD3 | 9 | 4.27 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 4 | 4.27 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 4 | 4.27 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 4 | 4.27 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 4 | 4.27 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 8 | 4.27 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 5 | 4.27 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 5 | 4.27 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 5 | 4.27 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 10 | 4.27 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 10 | 4.27 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 10 | 4.27 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 8 | 4.27 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 1 | 4.27 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 1 | 4.27 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 1 | 4.27 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 8 | 4.27 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 2 | 4.27 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 2 | 4.27 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 10 | 4.27 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 12 | 4.27 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 12 | 4.27 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 19 | 4.27 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 19 | 4.27 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 18 | 4.27 |
| (1,7496) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 7 | 4.27 |
| (1,7496) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 7 | 4.27 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 5 | 4.27 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 13 | 4.27 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 13 | 4.27 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 12 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 6 | 4.27 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 6 | 4.27 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 6 | 4.27 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 6 | 4.27 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 6 | 4.27 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 6 | 4.27 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 2 | 4.27 |
| (1,7309) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 2 | 4.27 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 12 | 4.27 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 6 | 4.27 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 9 | 4.27 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 1 | 4.27 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 1 | 4.27 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 1 | 4.27 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 14 | 4.27 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 12 | 4.27 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 12 | 4.27 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 6 | 4.27 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 2 | 4.27 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 5 | 4.27 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 5 | 4.27 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 5 | 4.27 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 11 | 4.27 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 11 | 4.27 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 11 | 4.27 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 8 | 4.27 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 4 | 4.27 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 4 | 4.27 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 4 | 4.27 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 18 | 4.27 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 2 | 4.27 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 2 | 4.27 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 5 | 4.27 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 4 | 4.27 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 20 | 4.27 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 1 | 4.27 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 7 | 4.27 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 11 | 4.27 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 5 | 4.27 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 5 | 4.27 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 5 | 4.27 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 4 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 4 | 4.27 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 4 | 4.27 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 4 | 4.27 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 4 | 4.27 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 4 | 4.27 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 10 | 4.27 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 10 | 4.27 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 5 | 4.27 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 5 | 4.27 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 2 | 4.27 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 12 | 4.27 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 12 | 4.27 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 12 | 4.27 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 14 | 4.27 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 8 | 4.27 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 8 | 4.27 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 8 | 4.27 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 8 | 4.27 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 8 | 4.27 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 8 | 4.27 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 8 | 4.27 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 8 | 4.27 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 8 | 4.27 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 2 | 4.27 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 12 | 4.27 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 18 | 4.27 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 15 | 4.27 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 18 | 4.27 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 17 | 4.27 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 6 | 4.27 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 11 | 4.27 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 4 | 4.27 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 15 | 4.27 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 3 | 4.27 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 8 | 4.27 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 8 | 4.27 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 8 | 4.27 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 11 | 4.27 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 11 | 4.27 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 11 | 4.27 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 11 | 4.27 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 11 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 11 | 4.27 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 1 | 4.27 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 1 | 4.27 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 1 | 4.27 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 14 | 4.27 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 14 | 4.27 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 14 | 4.27 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 20 | 4.27 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 20 | 4.27 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 20 | 4.27 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 12 | 4.27 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 12 | 4.27 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 12 | 4.27 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 5 | 4.27 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 9 | 4.27 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 9 | 4.27 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 9 | 4.27 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 10 | 4.27 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 17 | 4.27 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 7 | 4.27 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 7 | 4.27 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 9 | 4.27 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 9 | 4.27 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 9 | 4.27 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 4 | 4.27 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 9 | 4.27 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 9 | 4.27 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 9 | 4.27 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 1 | 4.27 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 1 | 4.27 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 1 | 4.27 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 16 | 4.27 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 20 | 4.27 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 17 | 4.27 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 17 | 4.27 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 17 | 4.27 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 18 | 4.27 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 10 | 4.27 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 10 | 4.27 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 10 | 4.27 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 20 | 4.27 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 20 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 20 | 4.27 |
| (1,5510) | 1:96:A:ILE:H | 1:101:A:GLU:H | 4 | 4.27 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 8 | 4.27 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 8 | 4.27 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 8 | 4.27 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 6 | 4.27 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 16 | 4.27 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 16 | 4.27 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 16 | 4.27 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 16 | 4.27 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 16 | 4.27 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 16 | 4.27 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 19 | 4.27 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 19 | 4.27 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 11 | 4.27 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 11 | 4.27 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 11 | 4.27 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 1 | 4.27 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 13 | 4.27 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 9 | 4.27 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 9 | 4.27 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 9 | 4.27 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 10 | 4.27 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 4 | 4.27 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 4 | 4.27 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 4 | 4.27 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 14 | 4.27 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 14 | 4.27 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 14 | 4.27 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 19 | 4.27 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 4.27 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 12 | 4.27 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 7 | 4.27 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 7 | 4.27 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 7 | 4.27 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 10 | 4.27 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 10 | 4.27 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 10 | 4.27 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 2 | 4.27 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 3 | 4.27 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 19 | 4.27 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 19 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 19 | 4.27 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 10 | 4.27 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 10 | 4.27 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 10 | 4.27 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 8 | 4.27 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 8 | 4.27 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 8 | 4.27 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 16 | 4.27 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 16 | 4.27 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 16 | 4.27 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 18 | 4.27 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 18 | 4.27 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 18 | 4.27 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 8 | 4.27 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 9 | 4.27 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 8 | 4.27 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 8 | 4.27 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 16 | 4.27 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 16 | 4.27 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 15 | 4.27 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 15 | 4.27 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 15 | 4.27 |
| (1,4590) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 3 | 4.27 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 18 | 4.27 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 18 | 4.27 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 18 | 4.27 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 19 | 4.27 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 19 | 4.27 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 19 | 4.27 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 19 | 4.27 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 19 | 4.27 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 19 | 4.27 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 19 | 4.27 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 19 | 4.27 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 1 | 4.27 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 1 | 4.27 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 1 | 4.27 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 1 | 4.27 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 9 | 4.27 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 9 | 4.27 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 10 | 4.27 |
| (1,4434) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 10 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 10 | 4.27 |
| (1,4434) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 10 | 4.27 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 11 | 4.27 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 12 | 4.27 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 12 | 4.27 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 10 | 4.27 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 10 | 4.27 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 10 | 4.27 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 10 | 4.27 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 10 | 4.27 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 10 | 4.27 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 11 | 4.27 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 14 | 4.27 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 14 | 4.27 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 14 | 4.27 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 14 | 4.27 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 14 | 4.27 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 14 | 4.27 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 14 | 4.27 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 14 | 4.27 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 3 | 4.27 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 3 | 4.27 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 1 | 4.27 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 1 | 4.27 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 1 | 4.27 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 1 | 4.27 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 17 | 4.27 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 17 | 4.27 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 11 | 4.27 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 11 | 4.27 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 11 | 4.27 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 13 | 4.27 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 13 | 4.27 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 13 | 4.27 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 7 | 4.27 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 9 | 4.27 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 10 | 4.27 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 2 | 4.27 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 2 | 4.27 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 13 | 4.27 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 13 | 4.27 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 12 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 12 | 4.27 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 17 | 4.27 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 17 | 4.27 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 10 | 4.27 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 10 | 4.27 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 10 | 4.27 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 10 | 4.27 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 10 | 4.27 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 10 | 4.27 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 20 | 4.27 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 16 | 4.27 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 16 | 4.27 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 3 | 4.27 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 4 | 4.27 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 4 | 4.27 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 4 | 4.27 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 4 | 4.27 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 4 | 4.27 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 4 | 4.27 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 7 | 4.27 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 7 | 4.27 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 7 | 4.27 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 7 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 5 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 5 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 5 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 5 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 5 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 5 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 13 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 13 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 13 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 13 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 13 | 4.27 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 13 | 4.27 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 20 | 4.27 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 20 | 4.27 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 20 | 4.27 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 3 | 4.27 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 10 | 4.27 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 11 | 4.27 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 7 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 7 | 4.27 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 7 | 4.27 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 7 | 4.27 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 7 | 4.27 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 7 | 4.27 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 20 | 4.27 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 4.27 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 10 | 4.27 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 10 | 4.27 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 10 | 4.27 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 10 | 4.27 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 15 | 4.27 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 15 | 4.27 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 15 | 4.27 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 15 | 4.27 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 20 | 4.27 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 20 | 4.27 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 20 | 4.27 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 4 | 4.27 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 4 | 4.27 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 4 | 4.27 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 14 | 4.27 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 14 | 4.27 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 6 | 4.27 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 9 | 4.27 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 9 | 4.27 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 1 | 4.27 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 1 | 4.27 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 1 | 4.27 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 9 | 4.27 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 9 | 4.27 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 9 | 4.27 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 14 | 4.27 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 12 | 4.27 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 12 | 4.27 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 6 | 4.27 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 2 | 4.27 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 5 | 4.27 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 5 | 4.27 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 5 | 4.27 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 11 | 4.27 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 11 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 11 | 4.27 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 14 | 4.27 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 8 | 4.27 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 4 | 4.27 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 4 | 4.27 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 4 | 4.27 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 1 | 4.27 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 1 | 4.27 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 1 | 4.27 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 19 | 4.27 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 19 | 4.27 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 19 | 4.27 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 5 | 4.27 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 5 | 4.27 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 18 | 4.27 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 2 | 4.27 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 2 | 4.27 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 5 | 4.27 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 4 | 4.27 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 20 | 4.27 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 1 | 4.27 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 7 | 4.27 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 11 | 4.27 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 5 | 4.27 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 5 | 4.27 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 5 | 4.27 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 4 | 4.27 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 4 | 4.27 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 4 | 4.27 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 4 | 4.27 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 4 | 4.27 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 4 | 4.27 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 10 | 4.27 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 10 | 4.27 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 9 | 4.27 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 9 | 4.27 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 9 | 4.27 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 9 | 4.27 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 9 | 4.27 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 9 | 4.27 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 5 | 4.27 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 5 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 2 | 4.27 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 12 | 4.27 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 12 | 4.27 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 12 | 4.27 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 13 | 4.27 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 13 | 4.27 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 13 | 4.27 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 14 | 4.27 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 8 | 4.27 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 8 | 4.27 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 8 | 4.27 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 2 | 4.27 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 2 | 4.27 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 2 | 4.27 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 2 | 4.27 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 12 | 4.27 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 3 | 4.27 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 18 | 4.27 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 15 | 4.27 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 17 | 4.27 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 6 | 4.27 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 12 | 4.27 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 20 | 4.27 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 11 | 4.27 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 4 | 4.27 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 15 | 4.27 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 3 | 4.27 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 8 | 4.27 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 8 | 4.27 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 8 | 4.27 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 11 | 4.27 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 11 | 4.27 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 11 | 4.27 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 11 | 4.27 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 11 | 4.27 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 11 | 4.27 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 12 | 4.27 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 12 | 4.27 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 12 | 4.27 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 18 | 4.27 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 18 | 4.27 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 18 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 1 | 4.27 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 1 | 4.27 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 1 | 4.27 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 14 | 4.27 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 14 | 4.27 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 14 | 4.27 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 20 | 4.27 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 20 | 4.27 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 20 | 4.27 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 3 | 4.27 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 3 | 4.27 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 12 | 4.27 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 12 | 4.27 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 12 | 4.27 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 5 | 4.27 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 9 | 4.27 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 9 | 4.27 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 9 | 4.27 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 10 | 4.27 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 17 | 4.27 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 7 | 4.27 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 7 | 4.27 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 9 | 4.27 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 9 | 4.27 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 9 | 4.27 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 4 | 4.27 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 14 | 4.27 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 14 | 4.27 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 14 | 4.27 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 9 | 4.27 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 9 | 4.27 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 9 | 4.27 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 1 | 4.27 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 1 | 4.27 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 1 | 4.27 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 12 | 4.27 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 16 | 4.27 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 20 | 4.27 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 4.27 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 4 | 4.27 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 17 | 4.27 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 17 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 17 | 4.27 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 19 | 4.27 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 10 | 4.27 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 10 | 4.27 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 10 | 4.27 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 4 | 4.27 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 4 | 4.27 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 4 | 4.27 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 17 | 4.27 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 18 | 4.27 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 16 | 4.27 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 16 | 4.27 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 16 | 4.27 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 15 | 4.27 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 15 | 4.27 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 15 | 4.27 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 1 | 4.27 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 1 | 4.27 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 1 | 4.27 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 10 | 4.27 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 10 | 4.27 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 10 | 4.27 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 20 | 4.27 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 20 | 4.27 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 20 | 4.27 |
| (1,660) | 1:96:A:ILE:H | 1:101:A:GLU:H | 4 | 4.27 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 4.27 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 16 | 4.27 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 2 | 4.27 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 10 | 4.27 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 8 | 4.27 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 8 | 4.27 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 8 | 4.27 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 6 | 4.27 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 16 | 4.27 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 16 | 4.27 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 16 | 4.27 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 16 | 4.27 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 16 | 4.27 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 16 | 4.27 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 7 | 4.27 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 7 | 4.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 7 | 4.27 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 5 | 4.27 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 9 | 4.27 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 9 | 4.27 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 9 | 4.27 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 7 | 4.26 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 18 | 4.26 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 8 | 4.26 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 5 | 4.26 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 17 | 4.26 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 17 | 4.26 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 5 | 4.26 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 5 | 4.26 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 19 | 4.26 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 19 | 4.26 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 3 | 4.26 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 3 | 4.26 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 3 | 4.26 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 3 | 4.26 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 4 | 4.26 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 4 | 4.26 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 12 | 4.26 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 12 | 4.26 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 18 | 4.26 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 18 | 4.26 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 14 | 4.26 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 14 | 4.26 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 13 | 4.26 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 13 | 4.26 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 8 | 4.26 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 8 | 4.26 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 8 | 4.26 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 8 | 4.26 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 8 | 4.26 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 8 | 4.26 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 19 | 4.26 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 19 | 4.26 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 7 | 4.26 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 7 | 4.26 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 12 | 4.26 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 12 | 4.26 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 6 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 6 | 4.26 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 11 | 4.26 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 11 | 4.26 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 14 | 4.26 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 14 | 4.26 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 14 | 4.26 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 14 | 4.26 |
| (1,9190) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 13 | 4.26 |
| (1,9190) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 13 | 4.26 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 10 | 4.26 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 10 | 4.26 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 13 | 4.26 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 13 | 4.26 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 4 | 4.26 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 4 | 4.26 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 19 | 4.26 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 19 | 4.26 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 4.26 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 20 | 4.26 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 10 | 4.26 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 10 | 4.26 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 15 | 4.26 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 15 | 4.26 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 16 | 4.26 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 16 | 4.26 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 14 | 4.26 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 14 | 4.26 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 14 | 4.26 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 14 | 4.26 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 14 | 4.26 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 14 | 4.26 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 19 | 4.26 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 19 | 4.26 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 15 | 4.26 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 15 | 4.26 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 15 | 4.26 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 15 | 4.26 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 15 | 4.26 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 15 | 4.26 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 12 | 4.26 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 12 | 4.26 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 12 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 12 | 4.26 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 11 | 4.26 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 11 | 4.26 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 3 | 4.26 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 3 | 4.26 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 3 | 4.26 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 3 | 4.26 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 18 | 4.26 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 18 | 4.26 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 18 | 4.26 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 18 | 4.26 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 9 | 4.26 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 9 | 4.26 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 13 | 4.26 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 13 | 4.26 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 18 | 4.26 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 18 | 4.26 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 10 | 4.26 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 1 | 4.26 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 15 | 4.26 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 15 | 4.26 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 5 | 4.26 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 12 | 4.26 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 18 | 4.26 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 18 | 4.26 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 18 | 4.26 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 10 | 4.26 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 10 | 4.26 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 10 | 4.26 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 15 | 4.26 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 14 | 4.26 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 18 | 4.26 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 18 | 4.26 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 16 | 4.26 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 16 | 4.26 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 16 | 4.26 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 5 | 4.26 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 5 | 4.26 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 5 | 4.26 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 7 | 4.26 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 7 | 4.26 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 7 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 16 | 4.26 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 16 | 4.26 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 16 | 4.26 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 15 | 4.26 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 10 | 4.26 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 17 | 4.26 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 5 | 4.26 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE1 | 18 | 4.26 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE2 | 18 | 4.26 |
| (1,8139) | 1:96:A:ILE:HA | 1:146:A:MET:HE3 | 18 | 4.26 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 18 | 4.26 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 5 | 4.26 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 5 | 4.26 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 5 | 4.26 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 5 | 4.26 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 5 | 4.26 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 5 | 4.26 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 5 | 4.26 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 5 | 4.26 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 5 | 4.26 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 15 | 4.26 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 16 | 4.26 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 14 | 4.26 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 14 | 4.26 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 14 | 4.26 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 2 | 4.26 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 15 | 4.26 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 7 | 4.26 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 4 | 4.26 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 9 | 4.26 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 3 | 4.26 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 11 | 4.26 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 1 | 4.26 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 1 | 4.26 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 1 | 4.26 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 15 | 4.26 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 15 | 4.26 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 15 | 4.26 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 15 | 4.26 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 15 | 4.26 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 15 | 4.26 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 4 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 4 | 4.26 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 4 | 4.26 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 5 | 4.26 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 5 | 4.26 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 5 | 4.26 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 20 | 4.26 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 20 | 4.26 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 20 | 4.26 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 10 | 4.26 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 7 | 4.26 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 18 | 4.26 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 5 | 4.26 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 5 | 4.26 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 20 | 4.26 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 11 | 4.26 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 7 | 4.26 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 17 | 4.26 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 17 | 4.26 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 2 | 4.26 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 2 | 4.26 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 3 | 4.26 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 5 | 4.26 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 8 | 4.26 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 8 | 4.26 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 8 | 4.26 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 8 | 4.26 |
| (1,7404) | 1:5:A:GLU:H | 1:13:A:LYS:H | 13 | 4.26 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 4 | 4.26 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 4 | 4.26 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 4 | 4.26 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 16 | 4.26 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 16 | 4.26 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 16 | 4.26 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 16 | 4.26 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 16 | 4.26 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 9 | 4.26 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 9 | 4.26 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 9 | 4.26 |
| (1,7242) | 1:28:A:ILE:H | 1:29:A:THR:HA | 3 | 4.26 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 6 | 4.26 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 4.26 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 12 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 7 | 4.26 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 7 | 4.26 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 7 | 4.26 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 9 | 4.26 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 9 | 4.26 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 1 | 4.26 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 5 | 4.26 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 5 | 4.26 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 5 | 4.26 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 5 | 4.26 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 8 | 4.26 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 14 | 4.26 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 13 | 4.26 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 13 | 4.26 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 13 | 4.26 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 3 | 4.26 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 3 | 4.26 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 3 | 4.26 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 3 | 4.26 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 11 | 4.26 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 11 | 4.26 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 11 | 4.26 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 6 | 4.26 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 10 | 4.26 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 14 | 4.26 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 14 | 4.26 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 14 | 4.26 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 1 | 4.26 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 18 | 4.26 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 18 | 4.26 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 18 | 4.26 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 5 | 4.26 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 5 | 4.26 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 5 | 4.26 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 5 | 4.26 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 7 | 4.26 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 8 | 4.26 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 5 | 4.26 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 5 | 4.26 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 5 | 4.26 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 10 | 4.26 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 10 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 10 | 4.26 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 10 | 4.26 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 10 | 4.26 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 10 | 4.26 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 10 | 4.26 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 10 | 4.26 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 10 | 4.26 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 5 | 4.26 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 5 | 4.26 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 5 | 4.26 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 5 | 4.26 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 5 | 4.26 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 5 | 4.26 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 5 | 4.26 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 5 | 4.26 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 5 | 4.26 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 11 | 4.26 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 11 | 4.26 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 9 | 4.26 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 9 | 4.26 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 9 | 4.26 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 12 | 4.26 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 12 | 4.26 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 12 | 4.26 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 20 | 4.26 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 3 | 4.26 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 3 | 4.26 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 3 | 4.26 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 7 | 4.26 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 7 | 4.26 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 7 | 4.26 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 5 | 4.26 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 5 | 4.26 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 5 | 4.26 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 5 | 4.26 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 16 | 4.26 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 16 | 4.26 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 16 | 4.26 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 16 | 4.26 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 16 | 4.26 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 16 | 4.26 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 16 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 16 | 4.26 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 16 | 4.26 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 13 | 4.26 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 13 | 4.26 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 13 | 4.26 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 16 | 4.26 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 16 | 4.26 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 16 | 4.26 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 5 | 4.26 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 11 | 4.26 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 11 | 4.26 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 11 | 4.26 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 19 | 4.26 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 5 | 4.26 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 3 | 4.26 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 17 | 4.26 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 14 | 4.26 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 14 | 4.26 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 14 | 4.26 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 2 | 4.26 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 2 | 4.26 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 2 | 4.26 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 15 | 4.26 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 15 | 4.26 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 15 | 4.26 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 1 | 4.26 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 1 | 4.26 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 1 | 4.26 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 3 | 4.26 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 14 | 4.26 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 4 | 4.26 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 8 | 4.26 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 13 | 4.26 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 14 | 4.26 |
| (1,5437) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 14 | 4.26 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 14 | 4.26 |
| (1,5437) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 14 | 4.26 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 14 | 4.26 |
| (1,5437) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 14 | 4.26 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 15 | 4.26 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 15 | 4.26 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 15 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 2 | 4.26 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 2 | 4.26 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 2 | 4.26 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 16 | 4.26 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 16 | 4.26 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 16 | 4.26 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 4 | 4.26 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 4 | 4.26 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 4 | 4.26 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 9 | 4.26 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 9 | 4.26 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 9 | 4.26 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 2 | 4.26 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 17 | 4.26 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 6 | 4.26 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 6 | 4.26 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 6 | 4.26 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 11 | 4.26 |
| (1,5019) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 20 | 4.26 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 11 | 4.26 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 6 | 4.26 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 20 | 4.26 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 1 | 4.26 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 1 | 4.26 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 1 | 4.26 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 1 | 4.26 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 1 | 4.26 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 1 | 4.26 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 8 | 4.26 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 8 | 4.26 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 8 | 4.26 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 12 | 4.26 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 12 | 4.26 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 12 | 4.26 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 7 | 4.26 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 15 | 4.26 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 19 | 4.26 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 19 | 4.26 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 4.26 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 4.26 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 4.26 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 19 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 19 | 4.26 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 19 | 4.26 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 7 | 4.26 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 13 | 4.26 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 13 | 4.26 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 8 | 4.26 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 8 | 4.26 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 8 | 4.26 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 8 | 4.26 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 8 | 4.26 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 8 | 4.26 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 7 | 4.26 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 17 | 4.26 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 4 | 4.26 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 4 | 4.26 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 10 | 4.26 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 17 | 4.26 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 14 | 4.26 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 14 | 4.26 |
| (1,4174) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 13 | 4.26 |
| (1,4174) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 13 | 4.26 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 13 | 4.26 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 8 | 4.26 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 8 | 4.26 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 8 | 4.26 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 10 | 4.26 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 10 | 4.26 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 13 | 4.26 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 13 | 4.26 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 17 | 4.26 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 17 | 4.26 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 17 | 4.26 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 17 | 4.26 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 1 | 4.26 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 1 | 4.26 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 1 | 4.26 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 19 | 4.26 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 3 | 4.26 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 19 | 4.26 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 19 | 4.26 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 4.26 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 20 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 18 | 4.26 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 18 | 4.26 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 15 | 4.26 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 10 | 4.26 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 10 | 4.26 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 10 | 4.26 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 14 | 4.26 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 14 | 4.26 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 14 | 4.26 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 14 | 4.26 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 14 | 4.26 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 14 | 4.26 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 17 | 4.26 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 14 | 4.26 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 19 | 4.26 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 19 | 4.26 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 16 | 4.26 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 9 | 4.26 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 15 | 4.26 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 15 | 4.26 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 15 | 4.26 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 15 | 4.26 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 15 | 4.26 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 15 | 4.26 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 19 | 4.26 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 19 | 4.26 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 13 | 4.26 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 13 | 4.26 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 13 | 4.26 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 13 | 4.26 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 13 | 4.26 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 13 | 4.26 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 4 | 4.26 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 4 | 4.26 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 4 | 4.26 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 1 | 4.26 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 1 | 4.26 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 1 | 4.26 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 15 | 4.26 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 15 | 4.26 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 15 | 4.26 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 11 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 19 | 4.26 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 11 | 4.26 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 11 | 4.26 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 18 | 4.26 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 18 | 4.26 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 9 | 4.26 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 9 | 4.26 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 13 | 4.26 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 13 | 4.26 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 4.26 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 4.26 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 4.26 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 14 | 4.26 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 1 | 4.26 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 11 | 4.26 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 10 | 4.26 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 4.26 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 4.26 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 4.26 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 9 | 4.26 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 9 | 4.26 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 9 | 4.26 |
| (1,3440) | 1:28:A:ILE:H | 1:29:A:THR:HA | 3 | 4.26 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 6 | 4.26 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 4.26 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 12 | 4.26 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 7 | 4.26 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 7 | 4.26 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 7 | 4.26 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 9 | 4.26 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 9 | 4.26 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 1 | 4.26 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 5 | 4.26 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 5 | 4.26 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 5 | 4.26 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 5 | 4.26 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 1 | 4.26 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 18 | 4.26 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 8 | 4.26 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 14 | 4.26 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 13 | 4.26 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 13 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 13 | 4.26 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 12 | 4.26 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 12 | 4.26 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 3 | 4.26 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 3 | 4.26 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 3 | 4.26 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 3 | 4.26 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 8 | 4.26 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 8 | 4.26 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 11 | 4.26 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 11 | 4.26 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 11 | 4.26 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 6 | 4.26 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 14 | 4.26 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 14 | 4.26 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 14 | 4.26 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 10 | 4.26 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 14 | 4.26 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 14 | 4.26 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 14 | 4.26 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 11 | 4.26 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 15 | 4.26 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 13 | 4.26 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 1 | 4.26 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 18 | 4.26 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 18 | 4.26 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 18 | 4.26 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 9 | 4.26 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 5 | 4.26 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 5 | 4.26 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 5 | 4.26 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 5 | 4.26 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 7 | 4.26 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 8 | 4.26 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 5 | 4.26 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 5 | 4.26 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 5 | 4.26 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 9 | 4.26 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 3 | 4.26 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 3 | 4.26 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 10 | 4.26 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 10 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 10 | 4.26 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 10 | 4.26 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 10 | 4.26 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 10 | 4.26 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 10 | 4.26 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 10 | 4.26 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 10 | 4.26 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 19 | 4.26 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 5 | 4.26 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 5 | 4.26 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 5 | 4.26 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 5 | 4.26 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 5 | 4.26 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 5 | 4.26 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 5 | 4.26 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 5 | 4.26 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 5 | 4.26 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 6 | 4.26 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 6 | 4.26 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 6 | 4.26 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 11 | 4.26 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 11 | 4.26 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 9 | 4.26 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 9 | 4.26 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 9 | 4.26 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 4 | 4.26 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 4 | 4.26 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 4 | 4.26 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 12 | 4.26 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 12 | 4.26 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 12 | 4.26 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 20 | 4.26 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 8 | 4.26 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 8 | 4.26 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 3 | 4.26 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 3 | 4.26 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 3 | 4.26 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 4 | 4.26 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 15 | 4.26 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 4 | 4.26 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 18 | 4.26 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 7 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 7 | 4.26 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 7 | 4.26 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 5 | 4.26 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 5 | 4.26 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 5 | 4.26 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 5 | 4.26 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 16 | 4.26 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 16 | 4.26 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 16 | 4.26 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 16 | 4.26 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 16 | 4.26 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 16 | 4.26 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 16 | 4.26 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 16 | 4.26 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 16 | 4.26 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 13 | 4.26 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 13 | 4.26 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 13 | 4.26 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 10 | 4.26 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 17 | 4.26 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 16 | 4.26 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 16 | 4.26 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 16 | 4.26 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 5 | 4.26 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 11 | 4.26 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 11 | 4.26 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 11 | 4.26 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 19 | 4.26 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 5 | 4.26 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 3 | 4.26 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 17 | 4.26 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 14 | 4.26 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 14 | 4.26 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 14 | 4.26 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 2 | 4.26 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 2 | 4.26 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 2 | 4.26 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 15 | 4.26 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 15 | 4.26 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 15 | 4.26 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 15 | 4.26 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 19 | 4.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 19 | 4.26 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 19 | 4.26 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 19 | 4.26 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 19 | 4.26 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 19 | 4.26 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 12 | 4.26 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 12 | 4.26 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 12 | 4.26 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 2 | 4.26 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 2 | 4.26 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 1 | 4.26 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 1 | 4.26 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 1 | 4.26 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 3 | 4.26 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 14 | 4.26 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 4 | 4.26 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 8 | 4.26 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 13 | 4.26 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 14 | 4.26 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 14 | 4.26 |
| (1,528) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 14 | 4.26 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 14 | 4.26 |
| (1,528) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 14 | 4.26 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 14 | 4.26 |
| (1,528) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 14 | 4.26 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 5 | 4.26 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 18 | 4.26 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 3 | 4.25 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 6 | 4.25 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 6 | 4.25 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 6 | 4.25 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 6 | 4.25 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 6 | 4.25 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 6 | 4.25 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 4.25 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 4.25 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 19 | 4.25 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 19 | 4.25 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 17 | 4.25 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 17 | 4.25 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 4.25 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 11 | 4.25 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 11 | 4.25 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 2 | 4.25 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 2 | 4.25 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 9 | 4.25 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 9 | 4.25 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 17 | 4.25 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 17 | 4.25 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 13 | 4.25 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 13 | 4.25 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 19 | 4.25 |
| (1,9314) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 19 | 4.25 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 13 | 4.25 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 13 | 4.25 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 8 | 4.25 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 8 | 4.25 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 16 | 4.25 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 16 | 4.25 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 18 | 4.25 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 18 | 4.25 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 10 | 4.25 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 10 | 4.25 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 10 | 4.25 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 10 | 4.25 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 10 | 4.25 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 10 | 4.25 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 16 | 4.25 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 16 | 4.25 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 16 | 4.25 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 16 | 4.25 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 16 | 4.25 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 16 | 4.25 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 10 | 4.25 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 10 | 4.25 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 19 | 4.25 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 19 | 4.25 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 19 | 4.25 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 19 | 4.25 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 19 | 4.25 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 19 | 4.25 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 16 | 4.25 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 16 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 18 | 4.25 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 18 | 4.25 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 18 | 4.25 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 18 | 4.25 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 3 | 4.25 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 3 | 4.25 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 17 | 4.25 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 17 | 4.25 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB2 | 12 | 4.25 |
| (1,8998) | 1:76:A:GLU:HA | 1:77:A:LYS:HB3 | 12 | 4.25 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 9 | 4.25 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 9 | 4.25 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 18 | 4.25 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 18 | 4.25 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 5 | 4.25 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 5 | 4.25 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 17 | 4.25 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 17 | 4.25 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 14 | 4.25 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 14 | 4.25 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 14 | 4.25 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 14 | 4.25 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 5 | 4.25 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 5 | 4.25 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 9 | 4.25 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 9 | 4.25 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 12 | 4.25 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 12 | 4.25 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 20 | 4.25 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 20 | 4.25 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 6 | 4.25 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 6 | 4.25 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 9 | 4.25 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 9 | 4.25 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 12 | 4.25 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 12 | 4.25 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 1 | 4.25 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 1 | 4.25 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 1 | 4.25 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 1 | 4.25 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 13 | 4.25 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 13 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 16 | 4.25 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 16 | 4.25 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 4 | 4.25 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 4 | 4.25 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 4 | 4.25 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 4 | 4.25 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 4 | 4.25 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 4 | 4.25 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 5 | 4.25 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 5 | 4.25 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 5 | 4.25 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 5 | 4.25 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 5 | 4.25 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 5 | 4.25 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 4 | 4.25 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 4 | 4.25 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 4 | 4.25 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 4 | 4.25 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 20 | 4.25 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 20 | 4.25 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 12 | 4.25 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 12 | 4.25 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 4 | 4.25 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 4 | 4.25 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 2 | 4.25 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 2 | 4.25 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 15 | 4.25 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 15 | 4.25 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 17 | 4.25 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 2 | 4.25 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 2 | 4.25 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 2 | 4.25 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 2 | 4.25 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 2 | 4.25 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 2 | 4.25 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 2 | 4.25 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 2 | 4.25 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 2 | 4.25 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 6 | 4.25 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 7 | 4.25 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 6 | 4.25 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 6 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 13 | 4.25 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 13 | 4.25 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 13 | 4.25 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 12 | 4.25 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 12 | 4.25 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 12 | 4.25 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 18 | 4.25 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 18 | 4.25 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 18 | 4.25 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 13 | 4.25 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 13 | 4.25 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 13 | 4.25 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 9 | 4.25 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 9 | 4.25 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 8 | 4.25 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 19 | 4.25 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 17 | 4.25 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 11 | 4.25 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 11 | 4.25 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 4 | 4.25 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 6 | 4.25 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 2 | 4.25 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 18 | 4.25 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 20 | 4.25 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 16 | 4.25 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 11 | 4.25 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 11 | 4.25 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 11 | 4.25 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 18 | 4.25 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 18 | 4.25 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 18 | 4.25 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 6 | 4.25 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 8 | 4.25 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 8 | 4.25 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 19 | 4.25 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 19 | 4.25 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 8 | 4.25 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 13 | 4.25 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 6 | 4.25 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 6 | 4.25 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 6 | 4.25 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 6 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 6 | 4.25 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 6 | 4.25 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 6 | 4.25 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 6 | 4.25 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 6 | 4.25 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 10 | 4.25 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 10 | 4.25 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 10 | 4.25 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 2 | 4.25 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 2 | 4.25 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 2 | 4.25 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 3 | 4.25 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 3 | 4.25 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 3 | 4.25 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 14 | 4.25 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 14 | 4.25 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 14 | 4.25 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 5 | 4.25 |
| (1,7986) | 1:78:A:ILE:H | 1:80:A:ARG:H | 12 | 4.25 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 19 | 4.25 |
| (1,7968) | 1:77:A:LYS:HE2 | 1:78:A:ILE:H | 5 | 4.25 |
| (1,7968) | 1:77:A:LYS:HE3 | 1:78:A:ILE:H | 5 | 4.25 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 18 | 4.25 |
| (1,7938) | 1:72:A:SER:HA | 1:74:A:ARG:H | 19 | 4.25 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 4 | 4.25 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 18 | 4.25 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 14 | 4.25 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 14 | 4.25 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 1 | 4.25 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 16 | 4.25 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 16 | 4.25 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 16 | 4.25 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 16 | 4.25 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 11 | 4.25 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 11 | 4.25 |
| (1,7868) | 1:62:A:VAL:H | 1:157:A:HIS:H | 8 | 4.25 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 2 | 4.25 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 2 | 4.25 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 2 | 4.25 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 9 | 4.25 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 16 | 4.25 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 16 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 16 | 4.25 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 3 | 4.25 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 2 | 4.25 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 2 | 4.25 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 2 | 4.25 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 14 | 4.25 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 14 | 4.25 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 14 | 4.25 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 14 | 4.25 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 8 | 4.25 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 8 | 4.25 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 5 | 4.25 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 3 | 4.25 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 6 | 4.25 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 16 | 4.25 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 16 | 4.25 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 16 | 4.25 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 13 | 4.25 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 13 | 4.25 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 13 | 4.25 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 8 | 4.25 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 13 | 4.25 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 19 | 4.25 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 1 | 4.25 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 15 | 4.25 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 12 | 4.25 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 17 | 4.25 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 17 | 4.25 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 17 | 4.25 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 5 | 4.25 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 5 | 4.25 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 5 | 4.25 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 7 | 4.25 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 7 | 4.25 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 14 | 4.25 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 1 | 4.25 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 1 | 4.25 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 1 | 4.25 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 7 | 4.25 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 7 | 4.25 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 7 | 4.25 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 2 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 2 | 4.25 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 2 | 4.25 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 8 | 4.25 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 1 | 4.25 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 20 | 4.25 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 2 | 4.25 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 2 | 4.25 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 2 | 4.25 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 9 | 4.25 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 9 | 4.25 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 9 | 4.25 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 8 | 4.25 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 8 | 4.25 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 8 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 3 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 3 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 7 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 7 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 10 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 10 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 11 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 11 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 13 | 4.25 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 13 | 4.25 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 20 | 4.25 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 8 | 4.25 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 19 | 4.25 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 7 | 4.25 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 7 | 4.25 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 7 | 4.25 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 4 | 4.25 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 4 | 4.25 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 4 | 4.25 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 9 | 4.25 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 13 | 4.25 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 6 | 4.25 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 6 | 4.25 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 4 | 4.25 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 2 | 4.25 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 5 | 4.25 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 8 | 4.25 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 10 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 14 | 4.25 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 14 | 4.25 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 14 | 4.25 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 4 | 4.25 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 4 | 4.25 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 4 | 4.25 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 8 | 4.25 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 8 | 4.25 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 8 | 4.25 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 13 | 4.25 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 13 | 4.25 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 13 | 4.25 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 15 | 4.25 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 15 | 4.25 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 15 | 4.25 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 16 | 4.25 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 16 | 4.25 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 16 | 4.25 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 14 | 4.25 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 14 | 4.25 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 14 | 4.25 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 4 | 4.25 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 19 | 4.25 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 19 | 4.25 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 19 | 4.25 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 19 | 4.25 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 19 | 4.25 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 19 | 4.25 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 2 | 4.25 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 19 | 4.25 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 1 | 4.25 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 12 | 4.25 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 12 | 4.25 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 12 | 4.25 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 11 | 4.25 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 11 | 4.25 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 11 | 4.25 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 14 | 4.25 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 14 | 4.25 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 14 | 4.25 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 5 | 4.25 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 8 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 9 | 4.25 |
| (1,5759) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 9 | 4.25 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 9 | 4.25 |
| (1,5759) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 9 | 4.25 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 9 | 4.25 |
| (1,5759) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 9 | 4.25 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 17 | 4.25 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 4.25 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 17 | 4.25 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 17 | 4.25 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 17 | 4.25 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 17 | 4.25 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 17 | 4.25 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 17 | 4.25 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 17 | 4.25 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 6 | 4.25 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 6 | 4.25 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 6 | 4.25 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 19 | 4.25 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 16 | 4.25 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 16 | 4.25 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 16 | 4.25 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 3 | 4.25 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 19 | 4.25 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 19 | 4.25 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 19 | 4.25 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 10 | 4.25 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 10 | 4.25 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 10 | 4.25 |
| (1,5359) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 17 | 4.25 |
| (1,5359) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 17 | 4.25 |
| (1,5359) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 17 | 4.25 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 2 | 4.25 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 1 | 4.25 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 1 | 4.25 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 1 | 4.25 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 4 | 4.25 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 4 | 4.25 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 4 | 4.25 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 18 | 4.25 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 18 | 4.25 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 18 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 2 | 4.25 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 6 | 4.25 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 9 | 4.25 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 6 | 4.25 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 6 | 4.25 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 6 | 4.25 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 20 | 4.25 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 14 | 4.25 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 12 | 4.25 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 3 | 4.25 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 3 | 4.25 |
| (1,5030) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 3 | 4.25 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 7 | 4.25 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 6 | 4.25 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 6 | 4.25 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 6 | 4.25 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 3 | 4.25 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 3 | 4.25 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 3 | 4.25 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 20 | 4.25 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 6 | 4.25 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 6 | 4.25 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 6 | 4.25 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 6 | 4.25 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 6 | 4.25 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 6 | 4.25 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 8 | 4.25 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 8 | 4.25 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 8 | 4.25 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 13 | 4.25 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 13 | 4.25 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 13 | 4.25 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 13 | 4.25 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 13 | 4.25 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 13 | 4.25 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 13 | 4.25 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 13 | 4.25 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 13 | 4.25 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 11 | 4.25 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 7 | 4.25 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 7 | 4.25 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 2 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 6 | 4.25 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 6 | 4.25 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 6 | 4.25 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 6 | 4.25 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 6 | 4.25 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 6 | 4.25 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 8 | 4.25 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 15 | 4.25 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 13 | 4.25 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 13 | 4.25 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 13 | 4.25 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 4.25 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 4.25 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 17 | 4.25 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 3 | 4.25 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 3 | 4.25 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 17 | 4.25 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 17 | 4.25 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 17 | 4.25 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 17 | 4.25 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 10 | 4.25 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 10 | 4.25 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 10 | 4.25 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 10 | 4.25 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 4.25 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 4.25 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 19 | 4.25 |
| (1,4304) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 19 | 4.25 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 8 | 4.25 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 8 | 4.25 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 6 | 4.25 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 4 | 4.25 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 4 | 4.25 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 4 | 4.25 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 10 | 4.25 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 10 | 4.25 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 10 | 4.25 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 10 | 4.25 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 10 | 4.25 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 10 | 4.25 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 16 | 4.25 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 16 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 16 | 4.25 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 16 | 4.25 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 16 | 4.25 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 16 | 4.25 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 10 | 4.25 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 19 | 4.25 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 19 | 4.25 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 19 | 4.25 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 19 | 4.25 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 19 | 4.25 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 19 | 4.25 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 7 | 4.25 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 14 | 4.25 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 18 | 4.25 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 18 | 4.25 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 19 | 4.25 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 19 | 4.25 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 17 | 4.25 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 17 | 4.25 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 11 | 4.25 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 11 | 4.25 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 11 | 4.25 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 18 | 4.25 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 18 | 4.25 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 6 | 4.25 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 6 | 4.25 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 16 | 4.25 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 8 | 4.25 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 1 | 4.25 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 12 | 4.25 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 12 | 4.25 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 12 | 4.25 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 12 | 4.25 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 1 | 4.25 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 1 | 4.25 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 1 | 4.25 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 1 | 4.25 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 13 | 4.25 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 13 | 4.25 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 16 | 4.25 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 16 | 4.25 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 4 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 4 | 4.25 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 4 | 4.25 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 4 | 4.25 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 4 | 4.25 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 4 | 4.25 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 8 | 4.25 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 15 | 4.25 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 3 | 4.25 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 1 | 4.25 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 11 | 4.25 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 11 | 4.25 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 20 | 4.25 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 2 | 4.25 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 2 | 4.25 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 2 | 4.25 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 9 | 4.25 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 9 | 4.25 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 9 | 4.25 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 8 | 4.25 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 8 | 4.25 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 8 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 3 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 3 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 7 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 7 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 10 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 10 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 11 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 11 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 13 | 4.25 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 13 | 4.25 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 20 | 4.25 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 8 | 4.25 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 19 | 4.25 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 18 | 4.25 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 18 | 4.25 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 18 | 4.25 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 18 | 4.25 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 18 | 4.25 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 18 | 4.25 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 4 | 4.25 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 4 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 4 | 4.25 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 9 | 4.25 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 16 | 4.25 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 16 | 4.25 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 16 | 4.25 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 13 | 4.25 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 6 | 4.25 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 6 | 4.25 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 6 | 4.25 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 6 | 4.25 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 6 | 4.25 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 7 | 4.25 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 16 | 4.25 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 4 | 4.25 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 2 | 4.25 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 5 | 4.25 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 8 | 4.25 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 10 | 4.25 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 14 | 4.25 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 14 | 4.25 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 14 | 4.25 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 2 | 4.25 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 11 | 4.25 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 4 | 4.25 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 4 | 4.25 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 4 | 4.25 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 8 | 4.25 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 8 | 4.25 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 8 | 4.25 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 13 | 4.25 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 13 | 4.25 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 13 | 4.25 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 15 | 4.25 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 15 | 4.25 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 15 | 4.25 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 16 | 4.25 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 16 | 4.25 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 16 | 4.25 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 14 | 4.25 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 14 | 4.25 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 14 | 4.25 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 4 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 16 | 4.25 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 13 | 4.25 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 13 | 4.25 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 13 | 4.25 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 2 | 4.25 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 2 | 4.25 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 19 | 4.25 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 19 | 4.25 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 19 | 4.25 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 19 | 4.25 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 19 | 4.25 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 19 | 4.25 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 2 | 4.25 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 19 | 4.25 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 1 | 4.25 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 12 | 4.25 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 12 | 4.25 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 12 | 4.25 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 11 | 4.25 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 11 | 4.25 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 11 | 4.25 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 1 | 4.25 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 1 | 4.25 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 1 | 4.25 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 5 | 4.25 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 9 | 4.25 |
| (1,1094) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 9 | 4.25 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 9 | 4.25 |
| (1,1094) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 9 | 4.25 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 9 | 4.25 |
| (1,1094) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 9 | 4.25 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 11 | 4.25 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 11 | 4.25 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 11 | 4.25 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 17 | 4.25 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 5 | 4.25 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 4.25 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 17 | 4.25 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 17 | 4.25 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 17 | 4.25 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 17 | 4.25 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 17 | 4.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 17 | 4.25 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 17 | 4.25 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 6 | 4.25 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 6 | 4.25 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 6 | 4.25 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 18 | 4.25 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 19 | 4.25 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 18 | 4.25 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 18 | 4.25 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 18 | 4.25 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 16 | 4.25 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 16 | 4.25 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 16 | 4.25 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 3 | 4.25 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 19 | 4.25 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 19 | 4.25 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 19 | 4.25 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 5 | 4.25 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 15 | 4.25 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 15 | 4.25 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 15 | 4.25 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 15 | 4.25 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 15 | 4.25 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 15 | 4.25 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 14 | 4.25 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 14 | 4.25 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 14 | 4.25 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 14 | 4.25 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 14 | 4.25 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 14 | 4.25 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 6 | 4.25 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 2 | 4.24 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 8 | 4.24 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 2 | 4.24 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 1 | 4.24 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 1 | 4.24 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 1 | 4.24 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 1 | 4.24 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 1 | 4.24 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 1 | 4.24 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 15 | 4.24 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 15 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 17 | 4.24 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 17 | 4.24 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 19 | 4.24 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 19 | 4.24 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 6 | 4.24 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 6 | 4.24 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 6 | 4.24 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 6 | 4.24 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 6 | 4.24 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 6 | 4.24 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG2 | 18 | 4.24 |
| (1,9426) | 1:128:A:GLY:H | 1:129:A:GLN:HG3 | 18 | 4.24 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 4 | 4.24 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 4 | 4.24 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 5 | 4.24 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 5 | 4.24 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 10 | 4.24 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 10 | 4.24 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 5 | 4.24 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 5 | 4.24 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 9 | 4.24 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 9 | 4.24 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 9 | 4.24 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 9 | 4.24 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 7 | 4.24 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 7 | 4.24 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 1 | 4.24 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 1 | 4.24 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 5 | 4.24 |
| (1,9166) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 5 | 4.24 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 8 | 4.24 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 8 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 18 | 4.24 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 18 | 4.24 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 17 | 4.24 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 17 | 4.24 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 14 | 4.24 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 14 | 4.24 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 14 | 4.24 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 14 | 4.24 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 14 | 4.24 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 14 | 4.24 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 7 | 4.24 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 7 | 4.24 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 19 | 4.24 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 19 | 4.24 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 15 | 4.24 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 15 | 4.24 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 6 | 4.24 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 6 | 4.24 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 6 | 4.24 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 6 | 4.24 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 6 | 4.24 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 6 | 4.24 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 6 | 4.24 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 6 | 4.24 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 5 | 4.24 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 5 | 4.24 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 5 | 4.24 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 5 | 4.24 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 5 | 4.24 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 5 | 4.24 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 10 | 4.24 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 10 | 4.24 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 10 | 4.24 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 10 | 4.24 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 10 | 4.24 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 10 | 4.24 |
| (1,8830) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 2 | 4.24 |
| (1,8830) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 2 | 4.24 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 18 | 4.24 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 18 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 7 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 7 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 7 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 7 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 7 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 7 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 15 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 15 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 15 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 15 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 15 | 4.24 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 15 | 4.24 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 5 | 4.24 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 5 | 4.24 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 8 | 4.24 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 8 | 4.24 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD2 | 17 | 4.24 |
| (1,8759) | 1:55:A:VAL:HG21 | 1:56:A:ARG:HD3 | 17 | 4.24 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD2 | 17 | 4.24 |
| (1,8759) | 1:55:A:VAL:HG22 | 1:56:A:ARG:HD3 | 17 | 4.24 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD2 | 17 | 4.24 |
| (1,8759) | 1:55:A:VAL:HG23 | 1:56:A:ARG:HD3 | 17 | 4.24 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 7 | 4.24 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 7 | 4.24 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 12 | 4.24 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 12 | 4.24 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 7 | 4.24 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 7 | 4.24 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 2 | 4.24 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 2 | 4.24 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 2 | 4.24 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 2 | 4.24 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 2 | 4.24 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 2 | 4.24 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 13 | 4.24 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 13 | 4.24 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 12 | 4.24 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 12 | 4.24 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 12 | 4.24 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 12 | 4.24 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 1 | 4.24 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 1 | 4.24 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 1 | 4.24 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 1 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 1 | 4.24 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 1 | 4.24 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 20 | 4.24 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 16 | 4.24 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 16 | 4.24 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 16 | 4.24 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 16 | 4.24 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 16 | 4.24 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 16 | 4.24 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 16 | 4.24 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 16 | 4.24 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 16 | 4.24 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 9 | 4.24 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 9 | 4.24 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 9 | 4.24 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 15 | 4.24 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 5 | 4.24 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 16 | 4.24 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 1 | 4.24 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 1 | 4.24 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 1 | 4.24 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 1 | 4.24 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 1 | 4.24 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 1 | 4.24 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 11 | 4.24 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 11 | 4.24 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 11 | 4.24 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 13 | 4.24 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 13 | 4.24 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 13 | 4.24 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 18 | 4.24 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 18 | 4.24 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 18 | 4.24 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 17 | 4.24 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 6 | 4.24 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 11 | 4.24 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 11 | 4.24 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 11 | 4.24 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 17 | 4.24 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 12 | 4.24 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD1 | 11 | 4.24 |
| (1,8061) | 1:89:A:ILE:H | 1:92:A:TYR:HD2 | 11 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 17 | 4.24 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 17 | 4.24 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 17 | 4.24 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 17 | 4.24 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 10 | 4.24 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 12 | 4.24 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 11 | 4.24 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 11 | 4.24 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 11 | 4.24 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 7 | 4.24 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 12 | 4.24 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 11 | 4.24 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 19 | 4.24 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 11 | 4.24 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 19 | 4.24 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 6 | 4.24 |
| (1,7757) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 2 | 4.24 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 4 | 4.24 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 4 | 4.24 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 4 | 4.24 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 4 | 4.24 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 13 | 4.24 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 20 | 4.24 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 14 | 4.24 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 8 | 4.24 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 4 | 4.24 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 10 | 4.24 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 10 | 4.24 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 2 | 4.24 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 15 | 4.24 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 9 | 4.24 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 16 | 4.24 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 16 | 4.24 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 16 | 4.24 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 16 | 4.24 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 16 | 4.24 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 12 | 4.24 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 17 | 4.24 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 17 | 4.24 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 17 | 4.24 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 2 | 4.24 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 2 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 2 | 4.24 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 13 | 4.24 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 13 | 4.24 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 16 | 4.24 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 16 | 4.24 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 16 | 4.24 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 9 | 4.24 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 18 | 4.24 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 8 | 4.24 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 9 | 4.24 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 7 | 4.24 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 7 | 4.24 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 4 | 4.24 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 5 | 4.24 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 5 | 4.24 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 13 | 4.24 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 15 | 4.24 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 8 | 4.24 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 8 | 4.24 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 8 | 4.24 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 14 | 4.24 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 14 | 4.24 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 14 | 4.24 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 16 | 4.24 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 16 | 4.24 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 16 | 4.24 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 16 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 1 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 7 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 7 | 4.24 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 7 | 4.24 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 4 | 4.24 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 19 | 4.24 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 15 | 4.24 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 15 | 4.24 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 15 | 4.24 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 15 | 4.24 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 15 | 4.24 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 15 | 4.24 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 10 | 4.24 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 5 | 4.24 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 1 | 4.24 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 16 | 4.24 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 14 | 4.24 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 9 | 4.24 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 7 | 4.24 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 7 | 4.24 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 7 | 4.24 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 20 | 4.24 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 10 | 4.24 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 10 | 4.24 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 10 | 4.24 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 10 | 4.24 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 10 | 4.24 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 10 | 4.24 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 6 | 4.24 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 6 | 4.24 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 6 | 4.24 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 6 | 4.24 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 6 | 4.24 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 6 | 4.24 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 6 | 4.24 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 6 | 4.24 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 6 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 9 | 4.24 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 1 | 4.24 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 3 | 4.24 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 11 | 4.24 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 11 | 4.24 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 10 | 4.24 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 10 | 4.24 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 10 | 4.24 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 10 | 4.24 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 10 | 4.24 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 10 | 4.24 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 14 | 4.24 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 14 | 4.24 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 14 | 4.24 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 12 | 4.24 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 11 | 4.24 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 11 | 4.24 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 11 | 4.24 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 11 | 4.24 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 11 | 4.24 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 11 | 4.24 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 11 | 4.24 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 16 | 4.24 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 16 | 4.24 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 16 | 4.24 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 14 | 4.24 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 2 | 4.24 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 20 | 4.24 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 20 | 4.24 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 20 | 4.24 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 16 | 4.24 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 4 | 4.24 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 9 | 4.24 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 16 | 4.24 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 17 | 4.24 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 1 | 4.24 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 14 | 4.24 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 11 | 4.24 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 10 | 4.24 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 10 | 4.24 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 10 | 4.24 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 16 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 16 | 4.24 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 16 | 4.24 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 13 | 4.24 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 5 | 4.24 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 1 | 4.24 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 6 | 4.24 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 8 | 4.24 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 8 | 4.24 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 11 | 4.24 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 11 | 4.24 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 11 | 4.24 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 8 | 4.24 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 8 | 4.24 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 8 | 4.24 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 17 | 4.24 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 17 | 4.24 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 17 | 4.24 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 17 | 4.24 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 17 | 4.24 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 17 | 4.24 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 17 | 4.24 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 17 | 4.24 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 17 | 4.24 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 20 | 4.24 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 20 | 4.24 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 20 | 4.24 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 11 | 4.24 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 11 | 4.24 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 11 | 4.24 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 12 | 4.24 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 16 | 4.24 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 5 | 4.24 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 5 | 4.24 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 5 | 4.24 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 6 | 4.24 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 6 | 4.24 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 6 | 4.24 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 15 | 4.24 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 15 | 4.24 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 15 | 4.24 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 15 | 4.24 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 15 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 15 | 4.24 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 15 | 4.24 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 15 | 4.24 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 15 | 4.24 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 20 | 4.24 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 20 | 4.24 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 20 | 4.24 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 10 | 4.24 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 14 | 4.24 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 4 | 4.24 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 4 | 4.24 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 4 | 4.24 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 14 | 4.24 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 14 | 4.24 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 14 | 4.24 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 7 | 4.24 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 16 | 4.24 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 20 | 4.24 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 3 | 4.24 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 8 | 4.24 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 8 | 4.24 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 8 | 4.24 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 14 | 4.24 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 14 | 4.24 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 6 | 4.24 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 6 | 4.24 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 6 | 4.24 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 6 | 4.24 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 6 | 4.24 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 6 | 4.24 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 4 | 4.24 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 4 | 4.24 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 12 | 4.24 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 12 | 4.24 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 12 | 4.24 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 5 | 4.24 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 5 | 4.24 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 3 | 4.24 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 13 | 4.24 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 1 | 4.24 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 1 | 4.24 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 9 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 3 | 4.24 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 12 | 4.24 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 12 | 4.24 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 12 | 4.24 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 5 | 4.24 |
| (1,4136) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 5 | 4.24 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 16 | 4.24 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 16 | 4.24 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 16 | 4.24 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 8 | 4.24 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 8 | 4.24 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 18 | 4.24 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 18 | 4.24 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 1 | 4.24 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 5 | 4.24 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 19 | 4.24 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 19 | 4.24 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 11 | 4.24 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 11 | 4.24 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 11 | 4.24 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 11 | 4.24 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 11 | 4.24 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 11 | 4.24 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 15 | 4.24 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 15 | 4.24 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 11 | 4.24 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 6 | 4.24 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 6 | 4.24 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 6 | 4.24 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 6 | 4.24 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 6 | 4.24 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 6 | 4.24 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 6 | 4.24 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 6 | 4.24 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 5 | 4.24 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 5 | 4.24 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 5 | 4.24 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 5 | 4.24 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 5 | 4.24 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 5 | 4.24 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 10 | 4.24 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 10 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 10 | 4.24 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 10 | 4.24 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 10 | 4.24 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 10 | 4.24 |
| (1,3794) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 2 | 4.24 |
| (1,3794) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 2 | 4.24 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 18 | 4.24 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 18 | 4.24 |
| (1,3774) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 19 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 7 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 7 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 7 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 7 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 7 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 7 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 15 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 15 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 15 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 15 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 15 | 4.24 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 15 | 4.24 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 5 | 4.24 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 5 | 4.24 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 10 | 4.24 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 4.24 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 20 | 4.24 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 8 | 4.24 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 8 | 4.24 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 17 | 4.24 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 17 | 4.24 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 6 | 4.24 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 6 | 4.24 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 2 | 4.24 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 7 | 4.24 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 7 | 4.24 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 2 | 4.24 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 2 | 4.24 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 2 | 4.24 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 2 | 4.24 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 2 | 4.24 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 2 | 4.24 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 12 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 12 | 4.24 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 12 | 4.24 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 12 | 4.24 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 12 | 4.24 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 18 | 4.24 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 2 | 4.24 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 2 | 4.24 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 2 | 4.24 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 13 | 4.24 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 13 | 4.24 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 16 | 4.24 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 16 | 4.24 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 16 | 4.24 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 9 | 4.24 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 18 | 4.24 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 4.24 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 4.24 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 4.24 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 8 | 4.24 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 9 | 4.24 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 9 | 4.24 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 7 | 4.24 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 7 | 4.24 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 16 | 4.24 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 16 | 4.24 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 16 | 4.24 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 7 | 4.24 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 7 | 4.24 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 7 | 4.24 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 12 | 4.24 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 4 | 4.24 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 5 | 4.24 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 5 | 4.24 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 5 | 4.24 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 13 | 4.24 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 15 | 4.24 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 8 | 4.24 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 8 | 4.24 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 8 | 4.24 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 14 | 4.24 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 14 | 4.24 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 14 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 16 | 4.24 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 16 | 4.24 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 16 | 4.24 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 16 | 4.24 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 20 | 4.24 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 20 | 4.24 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 9 | 4.24 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 9 | 4.24 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 4 | 4.24 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 19 | 4.24 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 10 | 4.24 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 5 | 4.24 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 1 | 4.24 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 1 | 4.24 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 16 | 4.24 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 14 | 4.24 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 8 | 4.24 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 9 | 4.24 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 18 | 4.24 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 7 | 4.24 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 7 | 4.24 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 7 | 4.24 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 20 | 4.24 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 3 | 4.24 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 3 | 4.24 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 3 | 4.24 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 16 | 4.24 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 16 | 4.24 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 16 | 4.24 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 10 | 4.24 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 10 | 4.24 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 10 | 4.24 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 4.24 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 20 | 4.24 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 10 | 4.24 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 10 | 4.24 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 10 | 4.24 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 6 | 4.24 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 6 | 4.24 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 6 | 4.24 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 6 | 4.24 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 6 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 6 | 4.24 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 6 | 4.24 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 6 | 4.24 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 6 | 4.24 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 6 | 4.24 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 9 | 4.24 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 1 | 4.24 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 3 | 4.24 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 18 | 4.24 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 18 | 4.24 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 18 | 4.24 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 2 | 4.24 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 1 | 4.24 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 11 | 4.24 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 11 | 4.24 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 10 | 4.24 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 10 | 4.24 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 10 | 4.24 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 10 | 4.24 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 10 | 4.24 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 10 | 4.24 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 14 | 4.24 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 14 | 4.24 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 14 | 4.24 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 12 | 4.24 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 11 | 4.24 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 11 | 4.24 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 11 | 4.24 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 11 | 4.24 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 11 | 4.24 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 11 | 4.24 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 11 | 4.24 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 16 | 4.24 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 16 | 4.24 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 16 | 4.24 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 14 | 4.24 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 2 | 4.24 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 7 | 4.24 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 7 | 4.24 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 7 | 4.24 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 20 | 4.24 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 20 | 4.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 20 | 4.24 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 20 | 4.24 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 13 | 4.24 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 14 | 4.24 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 16 | 4.24 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 4 | 4.24 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 9 | 4.24 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 10 | 4.24 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 15 | 4.24 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 16 | 4.24 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 6 | 4.24 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 17 | 4.24 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 1 | 4.24 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 14 | 4.24 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 9 | 4.24 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 14 | 4.24 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 14 | 4.24 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 14 | 4.24 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 4 | 4.23 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 17 | 4.23 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 12 | 4.23 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 6 | 4.23 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 6 | 4.23 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 15 | 4.23 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 15 | 4.23 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 15 | 4.23 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 15 | 4.23 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 15 | 4.23 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 15 | 4.23 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 17 | 4.23 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 17 | 4.23 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 15 | 4.23 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 15 | 4.23 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 15 | 4.23 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 15 | 4.23 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 7 | 4.23 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 7 | 4.23 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 7 | 4.23 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 7 | 4.23 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 7 | 4.23 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 7 | 4.23 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 9 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 9 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 3 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 6 | 4.23 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 6 | 4.23 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 12 | 4.23 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 12 | 4.23 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 12 | 4.23 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 12 | 4.23 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 12 | 4.23 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 12 | 4.23 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 3 | 4.23 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 3 | 4.23 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 5 | 4.23 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 5 | 4.23 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 8 | 4.23 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 8 | 4.23 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 20 | 4.23 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 20 | 4.23 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 2 | 4.23 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 2 | 4.23 |
| (1,9349) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 13 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9349) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 13 | 4.23 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 20 | 4.23 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 20 | 4.23 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 20 | 4.23 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 20 | 4.23 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 20 | 4.23 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 20 | 4.23 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 9 | 4.23 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 9 | 4.23 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB2 | 19 | 4.23 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB2 | 19 | 4.23 |
| (1,9295) | 1:104:A:GLU:HB2 | 1:105:A:SER:HB3 | 19 | 4.23 |
| (1,9295) | 1:104:A:GLU:HB3 | 1:105:A:SER:HB3 | 19 | 4.23 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 6 | 4.23 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 6 | 4.23 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 6 | 4.23 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 6 | 4.23 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 2 | 4.23 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 2 | 4.23 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 5 | 4.23 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 5 | 4.23 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 16 | 4.23 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 16 | 4.23 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 11 | 4.23 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 11 | 4.23 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 11 | 4.23 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 11 | 4.23 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 1 | 4.23 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 1 | 4.23 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 11 | 4.23 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 11 | 4.23 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 15 | 4.23 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 15 | 4.23 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 7 | 4.23 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 7 | 4.23 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 18 | 4.23 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 18 | 4.23 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 18 | 4.23 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 18 | 4.23 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 18 | 4.23 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 18 | 4.23 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 16 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 16 | 4.23 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 16 | 4.23 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 16 | 4.23 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 16 | 4.23 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 16 | 4.23 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 4 | 4.23 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 4 | 4.23 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 15 | 4.23 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 15 | 4.23 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 16 | 4.23 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 16 | 4.23 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 2 | 4.23 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 2 | 4.23 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 6 | 4.23 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 6 | 4.23 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 4 | 4.23 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 4 | 4.23 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 4 | 4.23 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 4 | 4.23 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 5 | 4.23 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 5 | 4.23 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 9 | 4.23 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 9 | 4.23 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 11 | 4.23 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 11 | 4.23 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 11 | 4.23 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 11 | 4.23 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 14 | 4.23 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 14 | 4.23 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 14 | 4.23 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 14 | 4.23 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 19 | 4.23 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 19 | 4.23 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 19 | 4.23 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 19 | 4.23 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 19 | 4.23 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 19 | 4.23 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 3 | 4.23 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 3 | 4.23 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 3 | 4.23 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 3 | 4.23 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 3 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 3 | 4.23 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 20 | 4.23 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 20 | 4.23 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 20 | 4.23 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 20 | 4.23 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 13 | 4.23 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 13 | 4.23 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 13 | 4.23 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 13 | 4.23 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 13 | 4.23 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 13 | 4.23 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 2 | 4.23 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 2 | 4.23 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 14 | 4.23 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 14 | 4.23 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 14 | 4.23 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 14 | 4.23 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 14 | 4.23 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 14 | 4.23 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 4 | 4.23 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 4 | 4.23 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 13 | 4.23 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 13 | 4.23 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 13 | 4.23 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 13 | 4.23 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 15 | 4.23 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 15 | 4.23 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 17 | 4.23 |
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 17 | 4.23 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 13 | 4.23 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 13 | 4.23 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 13 | 4.23 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 13 | 4.23 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 13 | 4.23 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 13 | 4.23 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 4 | 4.23 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 4 | 4.23 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 16 | 4.23 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 16 | 4.23 |
| (1,8512) | 1:162:A:THR:H | 1:163:A:GLU:HA | 17 | 4.23 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 4 | 4.23 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 4 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 4 | 4.23 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 14 | 4.23 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 14 | 4.23 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 14 | 4.23 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 14 | 4.23 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 14 | 4.23 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 14 | 4.23 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 14 | 4.23 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 14 | 4.23 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 14 | 4.23 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 19 | 4.23 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 15 | 4.23 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 15 | 4.23 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 15 | 4.23 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 1 | 4.23 |
| (1,8401) | 1:141:A:LEU:HA | 1:145:A:GLU:HB3 | 19 | 4.23 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 2 | 4.23 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 15 | 4.23 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 20 | 4.23 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 20 | 4.23 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 20 | 4.23 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 6 | 4.23 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 6 | 4.23 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 7 | 4.23 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 10 | 4.23 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 19 | 4.23 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 3 | 4.23 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 3 | 4.23 |
| (1,8262) | 1:119:A:ARG:H | 1:121:A:ASP:H | 10 | 4.23 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 10 | 4.23 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 9 | 4.23 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 9 | 4.23 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 19 | 4.23 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 11 | 4.23 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 11 | 4.23 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 11 | 4.23 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 11 | 4.23 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 11 | 4.23 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 11 | 4.23 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 11 | 4.23 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 11 | 4.23 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 11 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 2 | 4.23 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 2 | 4.23 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 2 | 4.23 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 4 | 4.23 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 4 | 4.23 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 4 | 4.23 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 8 | 4.23 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 12 | 4.23 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 12 | 4.23 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 12 | 4.23 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 17 | 4.23 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 15 | 4.23 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 12 | 4.23 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 5 | 4.23 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 5 | 4.23 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 5 | 4.23 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 12 | 4.23 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 12 | 4.23 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 19 | 4.23 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 6 | 4.23 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 6 | 4.23 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 4 | 4.23 |
| (1,7830) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HA | 1 | 4.23 |
| (1,7830) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HA | 1 | 4.23 |
| (1,7830) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HA | 1 | 4.23 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 12 | 4.23 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 12 | 4.23 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 12 | 4.23 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 15 | 4.23 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 15 | 4.23 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 15 | 4.23 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 15 | 4.23 |
| (1,7762) | 1:56:A:ARG:H | 1:57:A:CYS:H | 20 | 4.23 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 9 | 4.23 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 9 | 4.23 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 9 | 4.23 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 9 | 4.23 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 9 | 4.23 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 9 | 4.23 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 9 | 4.23 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 9 | 4.23 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 9 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 4 | 4.23 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 4 | 4.23 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 4 | 4.23 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 4 | 4.23 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 4 | 4.23 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 4 | 4.23 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 1 | 4.23 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 14 | 4.23 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 17 | 4.23 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 12 | 4.23 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 12 | 4.23 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 12 | 4.23 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 12 | 4.23 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 3 | 4.23 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 1 | 4.23 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 7 | 4.23 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 7 | 4.23 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 7 | 4.23 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 6 | 4.23 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 15 | 4.23 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 3 | 4.23 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 3 | 4.23 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 11 | 4.23 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 7 | 4.23 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 7 | 4.23 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 20 | 4.23 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 4 | 4.23 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 5 | 4.23 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 5 | 4.23 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 5 | 4.23 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 8 | 4.23 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 8 | 4.23 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 8 | 4.23 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 17 | 4.23 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 17 | 4.23 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 17 | 4.23 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 6 | 4.23 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 6 | 4.23 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 6 | 4.23 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 14 | 4.23 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 14 | 4.23 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 14 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 4 | 4.23 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 4 | 4.23 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 3 | 4.23 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 19 | 4.23 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 11 | 4.23 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 13 | 4.23 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 13 | 4.23 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 13 | 4.23 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 6 | 4.23 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 12 | 4.23 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 12 | 4.23 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 17 | 4.23 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 17 | 4.23 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 17 | 4.23 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 13 | 4.23 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 10 | 4.23 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 10 | 4.23 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 10 | 4.23 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 4 | 4.23 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 4 | 4.23 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 5 | 4.23 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 5 | 4.23 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 17 | 4.23 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 4 | 4.23 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 17 | 4.23 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 17 | 4.23 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 16 | 4.23 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 16 | 4.23 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 7 | 4.23 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 11 | 4.23 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 14 | 4.23 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 7 | 4.23 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 4 | 4.23 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 7 | 4.23 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 19 | 4.23 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 19 | 4.23 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 19 | 4.23 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 19 | 4.23 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 19 | 4.23 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 19 | 4.23 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 1 | 4.23 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 1 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 16 | 4.23 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 16 | 4.23 |
| (1,6773) | 1:23:A:TYR:H | 1:24:A:TYR:H | 4 | 4.23 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 20 | 4.23 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 20 | 4.23 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 20 | 4.23 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 14 | 4.23 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 17 | 4.23 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 18 | 4.23 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 18 | 4.23 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 18 | 4.23 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 18 | 4.23 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 18 | 4.23 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 18 | 4.23 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 13 | 4.23 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 13 | 4.23 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 11 | 4.23 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 6 | 4.23 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 11 | 4.23 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 11 | 4.23 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 11 | 4.23 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 17 | 4.23 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 13 | 4.23 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 13 | 4.23 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 13 | 4.23 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 15 | 4.23 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 15 | 4.23 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 15 | 4.23 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 3 | 4.23 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 3 | 4.23 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 3 | 4.23 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 5 | 4.23 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 9 | 4.23 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 9 | 4.23 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 9 | 4.23 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 9 | 4.23 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 3 | 4.23 |
| (1,6215) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 7 | 4.23 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 7 | 4.23 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 11 | 4.23 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 10 | 4.23 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 10 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 10 | 4.23 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 3 | 4.23 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 4 | 4.23 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 4 | 4.23 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 4 | 4.23 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 2 | 4.23 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 2 | 4.23 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 2 | 4.23 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 2 | 4.23 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 2 | 4.23 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 2 | 4.23 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 18 | 4.23 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 18 | 4.23 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 2 | 4.23 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 1 | 4.23 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 6 | 4.23 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 10 | 4.23 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 10 | 4.23 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 10 | 4.23 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 12 | 4.23 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 12 | 4.23 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 12 | 4.23 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 11 | 4.23 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 11 | 4.23 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 11 | 4.23 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 11 | 4.23 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 11 | 4.23 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 11 | 4.23 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 20 | 4.23 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 10 | 4.23 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 10 | 4.23 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 10 | 4.23 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 11 | 4.23 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 13 | 4.23 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 1 | 4.23 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 1 | 4.23 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 1 | 4.23 |
| (1,5545) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 4 | 4.23 |
| (1,5545) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 4 | 4.23 |
| (1,5545) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 4 | 4.23 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 11 | 4.23 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 2 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 2 | 4.23 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 9 | 4.23 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 9 | 4.23 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 10 | 4.23 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 4 | 4.23 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 2 | 4.23 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 2 | 4.23 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 2 | 4.23 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 3 | 4.23 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 3 | 4.23 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 3 | 4.23 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 10 | 4.23 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 18 | 4.23 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 14 | 4.23 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 7 | 4.23 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 7 | 4.23 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 7 | 4.23 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 15 | 4.23 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 9 | 4.23 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 11 | 4.23 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 11 | 4.23 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 11 | 4.23 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 6 | 4.23 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 5 | 4.23 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 20 | 4.23 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 20 | 4.23 |
| (1,4922) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 20 | 4.23 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 6 | 4.23 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 6 | 4.23 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 18 | 4.23 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 18 | 4.23 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 18 | 4.23 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 19 | 4.23 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 19 | 4.23 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 19 | 4.23 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 10 | 4.23 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 16 | 4.23 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 16 | 4.23 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 16 | 4.23 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 19 | 4.23 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 19 | 4.23 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 19 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 3 | 4.23 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 3 | 4.23 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 3 | 4.23 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 18 | 4.23 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 18 | 4.23 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 17 | 4.23 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 5 | 4.23 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 5 | 4.23 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 5 | 4.23 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 12 | 4.23 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 12 | 4.23 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 1 | 4.23 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 2 | 4.23 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 2 | 4.23 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 2 | 4.23 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 9 | 4.23 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 9 | 4.23 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 4.23 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 2 | 4.23 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 2 | 4.23 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 2 | 4.23 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 13 | 4.23 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 13 | 4.23 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 13 | 4.23 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 13 | 4.23 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 13 | 4.23 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 13 | 4.23 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 11 | 4.23 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 11 | 4.23 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 11 | 4.23 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 11 | 4.23 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 15 | 4.23 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 5 | 4.23 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 16 | 4.23 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 16 | 4.23 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 16 | 4.23 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 16 | 4.23 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 16 | 4.23 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 16 | 4.23 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 6 | 4.23 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 6 | 4.23 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 2 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 15 | 4.23 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 4 | 4.23 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 4 | 4.23 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 15 | 4.23 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 15 | 4.23 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 18 | 4.23 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 18 | 4.23 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 18 | 4.23 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 16 | 4.23 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 16 | 4.23 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 16 | 4.23 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 8 | 4.23 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 9 | 4.23 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 16 | 4.23 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 14 | 4.23 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 16 | 4.23 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 16 | 4.23 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 6 | 4.23 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 6 | 4.23 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 5 | 4.23 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 5 | 4.23 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 17 | 4.23 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 9 | 4.23 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 9 | 4.23 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 9 | 4.23 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 9 | 4.23 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 6 | 4.23 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 6 | 4.23 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 6 | 4.23 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 6 | 4.23 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 6 | 4.23 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 6 | 4.23 |
| (1,3898) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 14 | 4.23 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 11 | 4.23 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 11 | 4.23 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 19 | 4.23 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 19 | 4.23 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 19 | 4.23 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 19 | 4.23 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 19 | 4.23 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 19 | 4.23 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 19 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 19 | 4.23 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 3 | 4.23 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 3 | 4.23 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 3 | 4.23 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 3 | 4.23 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 3 | 4.23 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 3 | 4.23 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 4 | 4.23 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 2 | 4.23 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 2 | 4.23 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 14 | 4.23 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 14 | 4.23 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 14 | 4.23 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 14 | 4.23 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 14 | 4.23 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 14 | 4.23 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 4 | 4.23 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 4 | 4.23 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 4.23 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 4.23 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 13 | 4.23 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 13 | 4.23 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 13 | 4.23 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 13 | 4.23 |
| (1,3707) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 9 | 4.23 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 3 | 4.23 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 3 | 4.23 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 3 | 4.23 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 3 | 4.23 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 7 | 4.23 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 7 | 4.23 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 7 | 4.23 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 7 | 4.23 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 4 | 4.23 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 4 | 4.23 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 19 | 4.23 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 13 | 4.23 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 13 | 4.23 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 13 | 4.23 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 6 | 4.23 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 10 | 4.23 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 12 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 12 | 4.23 |
| (1,3386) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 19 | 4.23 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 17 | 4.23 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 17 | 4.23 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 17 | 4.23 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 13 | 4.23 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 10 | 4.23 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 10 | 4.23 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 10 | 4.23 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 4 | 4.23 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 4 | 4.23 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 5 | 4.23 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 5 | 4.23 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 17 | 4.23 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 4 | 4.23 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 3 | 4.23 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 13 | 4.23 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 17 | 4.23 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 19 | 4.23 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 17 | 4.23 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 17 | 4.23 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 16 | 4.23 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 16 | 4.23 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 7 | 4.23 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 11 | 4.23 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 14 | 4.23 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 7 | 4.23 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 7 | 4.23 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 4 | 4.23 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 7 | 4.23 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 4 | 4.23 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 7 | 4.23 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 19 | 4.23 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 19 | 4.23 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 19 | 4.23 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 19 | 4.23 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 19 | 4.23 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 19 | 4.23 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 1 | 4.23 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 1 | 4.23 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 16 | 4.23 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 16 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 10 | 4.23 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 10 | 4.23 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 10 | 4.23 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 10 | 4.23 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 10 | 4.23 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 10 | 4.23 |
| (1,2728) | 1:23:A:TYR:H | 1:24:A:TYR:H | 4 | 4.23 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 20 | 4.23 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 20 | 4.23 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 20 | 4.23 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 7 | 4.23 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 14 | 4.23 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 17 | 4.23 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 18 | 4.23 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 18 | 4.23 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 18 | 4.23 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 18 | 4.23 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 18 | 4.23 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 18 | 4.23 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 6 | 4.23 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 6 | 4.23 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 6 | 4.23 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 6 | 4.23 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 6 | 4.23 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 6 | 4.23 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 5 | 4.23 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 5 | 4.23 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 5 | 4.23 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 4 | 4.23 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 4 | 4.23 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 4 | 4.23 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 13 | 4.23 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 13 | 4.23 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 6 | 4.23 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 1 | 4.23 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 11 | 4.23 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 6 | 4.23 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 11 | 4.23 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 11 | 4.23 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 11 | 4.23 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 17 | 4.23 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 17 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 13 | 4.23 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 13 | 4.23 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 13 | 4.23 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 15 | 4.23 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 15 | 4.23 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 15 | 4.23 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 3 | 4.23 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 3 | 4.23 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 3 | 4.23 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 5 | 4.23 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 15 | 4.23 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 15 | 4.23 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 15 | 4.23 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 2 | 4.23 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 2 | 4.23 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 2 | 4.23 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 4 | 4.23 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 4 | 4.23 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 4 | 4.23 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 9 | 4.23 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 9 | 4.23 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 9 | 4.23 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 9 | 4.23 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 3 | 4.23 |
| (1,1844) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 7 | 4.23 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 7 | 4.23 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 6 | 4.23 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 11 | 4.23 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 10 | 4.23 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 10 | 4.23 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 10 | 4.23 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 3 | 4.23 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 3 | 4.23 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 3 | 4.23 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 3 | 4.23 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 2 | 4.23 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 2 | 4.23 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 2 | 4.23 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 2 | 4.23 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 2 | 4.23 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 2 | 4.23 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 18 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 18 | 4.23 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 6 | 4.23 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 11 | 4.23 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 19 | 4.23 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 2 | 4.23 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 1 | 4.23 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 6 | 4.23 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 3 | 4.23 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 6 | 4.23 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 10 | 4.23 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 10 | 4.23 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 10 | 4.23 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 12 | 4.23 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 12 | 4.23 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 12 | 4.23 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 11 | 4.23 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 11 | 4.23 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 11 | 4.23 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 11 | 4.23 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 11 | 4.23 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 11 | 4.23 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 12 | 4.23 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 20 | 4.23 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 6 | 4.23 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 10 | 4.23 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 10 | 4.23 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 10 | 4.23 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 11 | 4.23 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 13 | 4.23 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 3 | 4.23 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 3 | 4.23 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 3 | 4.23 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 1 | 4.23 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 1 | 4.23 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 1 | 4.23 |
| (1,706) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 4 | 4.23 |
| (1,706) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 4 | 4.23 |
| (1,706) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 4 | 4.23 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 11 | 4.23 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 1 | 4.23 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 1 | 4.23 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 2 | 4.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 2 | 4.23 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 9 | 4.23 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 9 | 4.23 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 10 | 4.23 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 7 | 4.23 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 13 | 4.23 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 13 | 4.23 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 13 | 4.23 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 13 | 4.23 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 13 | 4.23 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 13 | 4.23 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 13 | 4.23 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 13 | 4.23 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 13 | 4.23 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 5 | 4.23 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 5 | 4.23 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 3 | 4.23 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 2 | 4.22 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 5 | 4.22 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 19 | 4.22 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 19 | 4.22 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 19 | 4.22 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 19 | 4.22 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 19 | 4.22 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 19 | 4.22 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 12 | 4.22 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 12 | 4.22 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 10 | 4.22 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 10 | 4.22 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 9 | 4.22 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG21 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG22 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG23 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG21 | 9 | 4.22 |
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG22 | 9 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9490) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG23 | 9 | 4.22 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 7 | 4.22 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 7 | 4.22 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 7 | 4.22 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 7 | 4.22 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 15 | 4.22 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 15 | 4.22 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 12 | 4.22 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 12 | 4.22 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 15 | 4.22 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 15 | 4.22 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 15 | 4.22 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 15 | 4.22 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 2 | 4.22 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 2 | 4.22 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 2 | 4.22 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 2 | 4.22 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 13 | 4.22 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 13 | 4.22 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 13 | 4.22 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 13 | 4.22 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 13 | 4.22 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 13 | 4.22 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 18 | 4.22 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 18 | 4.22 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 1 | 4.22 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 1 | 4.22 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 1 | 4.22 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 1 | 4.22 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 4 | 4.22 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 4 | 4.22 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 3 | 4.22 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 3 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 3 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 3 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 4 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 4 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 15 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 15 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 17 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 17 | 4.22 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 20 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 20 | 4.22 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 19 | 4.22 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 19 | 4.22 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 14 | 4.22 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 14 | 4.22 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 16 | 4.22 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 16 | 4.22 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 16 | 4.22 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 16 | 4.22 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 16 | 4.22 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 16 | 4.22 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 18 | 4.22 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 18 | 4.22 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 14 | 4.22 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 14 | 4.22 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 16 | 4.22 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 16 | 4.22 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 16 | 4.22 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 16 | 4.22 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 16 | 4.22 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 16 | 4.22 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 10 | 4.22 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 10 | 4.22 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 13 | 4.22 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 13 | 4.22 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 14 | 4.22 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 14 | 4.22 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 3 | 4.22 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 3 | 4.22 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 3 | 4.22 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 3 | 4.22 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 3 | 4.22 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 3 | 4.22 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 20 | 4.22 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 20 | 4.22 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 9 | 4.22 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 9 | 4.22 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 9 | 4.22 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 9 | 4.22 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 9 | 4.22 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 9 | 4.22 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 20 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 20 | 4.22 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 20 | 4.22 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 20 | 4.22 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 20 | 4.22 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 20 | 4.22 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 19 | 4.22 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 19 | 4.22 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 16 | 4.22 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 16 | 4.22 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 18 | 4.22 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 18 | 4.22 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 18 | 4.22 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 18 | 4.22 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 18 | 4.22 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 18 | 4.22 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 16 | 4.22 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 16 | 4.22 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 16 | 4.22 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 16 | 4.22 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 15 | 4.22 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 15 | 4.22 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 8 | 4.22 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 8 | 4.22 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 16 | 4.22 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 16 | 4.22 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 4 | 4.22 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 4 | 4.22 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 10 | 4.22 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 7 | 4.22 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 7 | 4.22 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 19 | 4.22 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 16 | 4.22 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 13 | 4.22 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 13 | 4.22 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 13 | 4.22 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD1 | 15 | 4.22 |
| (1,8378) | 1:137:A:ALA:H | 1:139:A:PHE:HD2 | 15 | 4.22 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 10 | 4.22 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 13 | 4.22 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 13 | 4.22 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 15 | 4.22 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 5 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 5 | 4.22 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 4 | 4.22 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 4 | 4.22 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 4 | 4.22 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 5 | 4.22 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 5 | 4.22 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 4 | 4.22 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 20 | 4.22 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 20 | 4.22 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 20 | 4.22 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 5 | 4.22 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 18 | 4.22 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 2 | 4.22 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 2 | 4.22 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 2 | 4.22 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 4 | 4.22 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 19 | 4.22 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 9 | 4.22 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 6 | 4.22 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 18 | 4.22 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 18 | 4.22 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 18 | 4.22 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 11 | 4.22 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 11 | 4.22 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 11 | 4.22 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 13 | 4.22 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 13 | 4.22 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 13 | 4.22 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 13 | 4.22 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 13 | 4.22 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 13 | 4.22 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 5 | 4.22 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 1 | 4.22 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 1 | 4.22 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 1 | 4.22 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 1 | 4.22 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 1 | 4.22 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 1 | 4.22 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 1 | 4.22 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 1 | 4.22 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 1 | 4.22 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 18 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 18 | 4.22 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 18 | 4.22 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 18 | 4.22 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 18 | 4.22 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 18 | 4.22 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 18 | 4.22 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 18 | 4.22 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 18 | 4.22 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 6 | 4.22 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 6 | 4.22 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 6 | 4.22 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 6 | 4.22 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 6 | 4.22 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 6 | 4.22 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 6 | 4.22 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 6 | 4.22 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 6 | 4.22 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 6 | 4.22 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 17 | 4.22 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 7 | 4.22 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 4 | 4.22 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 19 | 4.22 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 19 | 4.22 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 19 | 4.22 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 16 | 4.22 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 16 | 4.22 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 3 | 4.22 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 15 | 4.22 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 15 | 4.22 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 12 | 4.22 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 12 | 4.22 |
| (1,7661) | 1:33:A:GLN:HE21 | 1:38:A:SER:H | 6 | 4.22 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 15 | 4.22 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 18 | 4.22 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 12 | 4.22 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 3 | 4.22 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 3 | 4.22 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 20 | 4.22 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 15 | 4.22 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 3 | 4.22 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 3 | 4.22 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 10 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 10 | 4.22 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 10 | 4.22 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 14 | 4.22 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 6 | 4.22 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 9 | 4.22 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 9 | 4.22 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 17 | 4.22 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 17 | 4.22 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 17 | 4.22 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 19 | 4.22 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 19 | 4.22 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 19 | 4.22 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 11 | 4.22 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 5 | 4.22 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 5 | 4.22 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 11 | 4.22 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 5 | 4.22 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 7 | 4.22 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 17 | 4.22 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 16 | 4.22 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 7 | 4.22 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 17 | 4.22 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 6 | 4.22 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 6 | 4.22 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 6 | 4.22 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 12 | 4.22 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 12 | 4.22 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 16 | 4.22 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 7 | 4.22 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 1 | 4.22 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 1 | 4.22 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 1 | 4.22 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 4 | 4.22 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 4 | 4.22 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 4 | 4.22 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 19 | 4.22 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 19 | 4.22 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 19 | 4.22 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 18 | 4.22 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 16 | 4.22 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 20 | 4.22 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 12 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 17 | 4.22 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 20 | 4.22 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 11 | 4.22 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 20 | 4.22 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 5 | 4.22 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 5 | 4.22 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 5 | 4.22 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 17 | 4.22 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 17 | 4.22 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 17 | 4.22 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 6 | 4.22 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 14 | 4.22 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 14 | 4.22 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 14 | 4.22 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 6 | 4.22 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 8 | 4.22 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 10 | 4.22 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 10 | 4.22 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 10 | 4.22 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 4 | 4.22 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 4 | 4.22 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 13 | 4.22 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 13 | 4.22 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 13 | 4.22 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 12 | 4.22 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 12 | 4.22 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 12 | 4.22 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 9 | 4.22 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 9 | 4.22 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 9 | 4.22 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 15 | 4.22 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 2 | 4.22 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 4 | 4.22 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 6 | 4.22 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 6 | 4.22 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 6 | 4.22 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 20 | 4.22 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 13 | 4.22 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 10 | 4.22 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 10 | 4.22 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 2 | 4.22 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 2 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 2 | 4.22 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 2 | 4.22 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 2 | 4.22 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 2 | 4.22 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 10 | 4.22 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 9 | 4.22 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 9 | 4.22 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 9 | 4.22 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 11 | 4.22 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 19 | 4.22 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 18 | 4.22 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 19 | 4.22 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 9 | 4.22 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 9 | 4.22 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 9 | 4.22 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 9 | 4.22 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 9 | 4.22 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 9 | 4.22 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 9 | 4.22 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 9 | 4.22 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 9 | 4.22 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 9 | 4.22 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 17 | 4.22 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 17 | 4.22 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 17 | 4.22 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 4 | 4.22 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 4 | 4.22 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 14 | 4.22 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 17 | 4.22 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 17 | 4.22 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 17 | 4.22 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 8 | 4.22 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 8 | 4.22 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 8 | 4.22 |
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 17 | 4.22 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 4 | 4.22 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 4 | 4.22 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 6 | 4.22 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 6 | 4.22 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 8 | 4.22 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 8 | 4.22 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 13 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 13 | 4.22 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 13 | 4.22 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 13 | 4.22 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 13 | 4.22 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 13 | 4.22 |
| (1,4838) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 17 | 4.22 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 5 | 4.22 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 5 | 4.22 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 5 | 4.22 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 5 | 4.22 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 5 | 4.22 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 5 | 4.22 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 5 | 4.22 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 5 | 4.22 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 5 | 4.22 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 17 | 4.22 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 17 | 4.22 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 17 | 4.22 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 2 | 4.22 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 2 | 4.22 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 2 | 4.22 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 2 | 4.22 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 2 | 4.22 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 2 | 4.22 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 15 | 4.22 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 15 | 4.22 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 15 | 4.22 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 15 | 4.22 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 15 | 4.22 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 15 | 4.22 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 16 | 4.22 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 6 | 4.22 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 2 | 4.22 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 2 | 4.22 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 2 | 4.22 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 2 | 4.22 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 17 | 4.22 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 4.22 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 4.22 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 4.22 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 4.22 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 4.22 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 18 | 4.22 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 18 | 4.22 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 6 | 4.22 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 2 | 4.22 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 13 | 4.22 |
| (1,4230) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 9 | 4.22 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 19 | 4.22 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 19 | 4.22 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 15 | 4.22 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 18 | 4.22 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 18 | 4.22 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 1 | 4.22 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 8 | 4.22 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 11 | 4.22 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 15 | 4.22 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 4.22 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 16 | 4.22 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 16 | 4.22 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 16 | 4.22 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 16 | 4.22 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 16 | 4.22 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 16 | 4.22 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 13 | 4.22 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 13 | 4.22 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 16 | 4.22 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 7 | 4.22 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 11 | 4.22 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 11 | 4.22 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 14 | 4.22 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 13 | 4.22 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 14 | 4.22 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 14 | 4.22 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 17 | 4.22 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 17 | 4.22 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 17 | 4.22 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 14 | 4.22 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 4.22 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 14 | 4.22 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 14 | 4.22 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 14 | 4.22 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 9 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 9 | 4.22 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 15 | 4.22 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 15 | 4.22 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 15 | 4.22 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 19 | 4.22 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 19 | 4.22 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 1 | 4.22 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 16 | 4.22 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 16 | 4.22 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 3 | 4.22 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 17 | 4.22 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 17 | 4.22 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 17 | 4.22 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 14 | 4.22 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 13 | 4.22 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 13 | 4.22 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 18 | 4.22 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 18 | 4.22 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 18 | 4.22 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 18 | 4.22 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 4 | 4.22 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 4 | 4.22 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 12 | 4.22 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 12 | 4.22 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 4.22 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 4.22 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 3 | 4.22 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 3 | 4.22 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 16 | 4.22 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 16 | 4.22 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 16 | 4.22 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 16 | 4.22 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 1 | 4.22 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 1 | 4.22 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 4 | 4.22 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 7 | 4.22 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 11 | 4.22 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 5 | 4.22 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 7 | 4.22 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 14 | 4.22 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 17 | 4.22 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 16 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 7 | 4.22 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 17 | 4.22 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 6 | 4.22 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 6 | 4.22 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 6 | 4.22 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 10 | 4.22 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 2 | 4.22 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 8 | 4.22 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 12 | 4.22 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 12 | 4.22 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 16 | 4.22 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 8 | 4.22 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 8 | 4.22 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 10 | 4.22 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 7 | 4.22 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 1 | 4.22 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 1 | 4.22 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 1 | 4.22 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 4 | 4.22 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 4 | 4.22 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 4 | 4.22 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 19 | 4.22 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 19 | 4.22 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 19 | 4.22 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 18 | 4.22 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 16 | 4.22 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 12 | 4.22 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 12 | 4.22 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 12 | 4.22 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 12 | 4.22 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 12 | 4.22 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 12 | 4.22 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 14 | 4.22 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 14 | 4.22 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 20 | 4.22 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 19 | 4.22 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 12 | 4.22 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 20 | 4.22 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 7 | 4.22 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 17 | 4.22 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 20 | 4.22 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 11 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 18 | 4.22 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 14 | 4.22 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 20 | 4.22 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 5 | 4.22 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 6 | 4.22 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 12 | 4.22 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 17 | 4.22 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 5 | 4.22 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 5 | 4.22 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 5 | 4.22 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 17 | 4.22 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 17 | 4.22 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 17 | 4.22 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 3 | 4.22 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 10 | 4.22 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 12 | 4.22 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 12 | 4.22 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 12 | 4.22 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 3 | 4.22 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 19 | 4.22 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 19 | 4.22 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 19 | 4.22 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 6 | 4.22 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 8 | 4.22 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 8 | 4.22 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 8 | 4.22 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 1 | 4.22 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 1 | 4.22 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 14 | 4.22 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 14 | 4.22 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 14 | 4.22 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 6 | 4.22 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 13 | 4.22 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 8 | 4.22 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 13 | 4.22 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 20 | 4.22 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 20 | 4.22 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 20 | 4.22 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 10 | 4.22 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 10 | 4.22 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 10 | 4.22 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 4 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 4 | 4.22 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 13 | 4.22 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 13 | 4.22 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 13 | 4.22 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 13 | 4.22 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 13 | 4.22 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 13 | 4.22 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 12 | 4.22 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 12 | 4.22 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 12 | 4.22 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 9 | 4.22 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 9 | 4.22 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 9 | 4.22 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 15 | 4.22 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 17 | 4.22 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 17 | 4.22 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 17 | 4.22 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 2 | 4.22 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 4 | 4.22 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 11 | 4.22 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 14 | 4.22 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 6 | 4.22 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 6 | 4.22 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 6 | 4.22 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 20 | 4.22 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 11 | 4.22 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 1 | 4.22 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 3 | 4.22 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 10 | 4.22 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 17 | 4.22 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 17 | 4.22 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 17 | 4.22 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 17 | 4.22 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 13 | 4.22 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 10 | 4.22 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 10 | 4.22 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 2 | 4.22 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 2 | 4.22 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 2 | 4.22 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 2 | 4.22 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 2 | 4.22 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 2 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 10 | 4.22 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 9 | 4.22 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 9 | 4.22 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 9 | 4.22 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 11 | 4.22 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 11 | 4.22 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 19 | 4.22 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 18 | 4.22 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 6 | 4.22 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 19 | 4.22 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 9 | 4.22 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 9 | 4.22 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 9 | 4.22 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 9 | 4.22 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 9 | 4.22 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 9 | 4.22 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 9 | 4.22 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 1 | 4.22 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 1 | 4.22 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 1 | 4.22 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 13 | 4.22 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 13 | 4.22 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 13 | 4.22 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 17 | 4.22 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 9 | 4.22 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 9 | 4.22 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 9 | 4.22 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 17 | 4.22 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 17 | 4.22 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 17 | 4.22 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 19 | 4.22 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 9 | 4.22 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 9 | 4.22 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 9 | 4.22 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 9 | 4.22 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 9 | 4.22 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 9 | 4.22 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 20 | 4.22 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 14 | 4.22 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 6 | 4.22 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 6 | 4.22 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 2 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 2 | 4.22 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 2 | 4.22 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 12 | 4.22 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 12 | 4.22 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 12 | 4.22 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 6 | 4.22 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 5 | 4.21 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 12 | 4.21 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 5 | 4.21 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 5 | 4.21 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 5 | 4.21 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 5 | 4.21 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 5 | 4.21 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 5 | 4.21 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 4 | 4.21 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 4 | 4.21 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 3 | 4.21 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 3 | 4.21 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 4 | 4.21 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 4 | 4.21 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 11 | 4.21 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 11 | 4.21 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 11 | 4.21 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 11 | 4.21 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 1 | 4.21 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 1 | 4.21 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 2 | 4.21 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 2 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 19 | 4.21 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 19 | 4.21 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 5 | 4.21 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 5 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 6 | 4.21 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 6 | 4.21 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 1 | 4.21 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 1 | 4.21 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 10 | 4.21 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 10 | 4.21 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 17 | 4.21 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 17 | 4.21 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 17 | 4.21 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 17 | 4.21 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 17 | 4.21 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 17 | 4.21 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 3 | 4.21 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 3 | 4.21 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 9 | 4.21 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 9 | 4.21 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 18 | 4.21 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 18 | 4.21 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 16 | 4.21 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 16 | 4.21 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 10 | 4.21 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 10 | 4.21 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 12 | 4.21 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 12 | 4.21 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 18 | 4.21 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 18 | 4.21 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 1 | 4.21 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 1 | 4.21 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 1 | 4.21 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 1 | 4.21 |
| (1,9085) | 1:84:A:GLU:HB2 | 1:86:A:LEU:H | 18 | 4.21 |
| (1,9085) | 1:84:A:GLU:HB3 | 1:86:A:LEU:H | 18 | 4.21 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 11 | 4.21 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 11 | 4.21 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 3 | 4.21 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 3 | 4.21 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 3 | 4.21 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 3 | 4.21 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 3 | 4.21 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 3 | 4.21 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 19 | 4.21 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 19 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 19 | 4.21 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 19 | 4.21 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 19 | 4.21 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 19 | 4.21 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 9 | 4.21 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 9 | 4.21 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 12 | 4.21 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 12 | 4.21 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 11 | 4.21 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 11 | 4.21 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 1 | 4.21 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 1 | 4.21 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 1 | 4.21 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 1 | 4.21 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 16 | 4.21 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 16 | 4.21 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 16 | 4.21 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 16 | 4.21 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 16 | 4.21 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 16 | 4.21 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 3 | 4.21 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 3 | 4.21 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 2 | 4.21 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 2 | 4.21 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 3 | 4.21 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 3 | 4.21 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 13 | 4.21 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 13 | 4.21 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 13 | 4.21 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 13 | 4.21 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 9 | 4.21 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 9 | 4.21 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 10 | 4.21 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 10 | 4.21 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 16 | 4.21 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 16 | 4.21 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 16 | 4.21 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 16 | 4.21 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 11 | 4.21 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 11 | 4.21 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 9 | 4.21 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 9 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 8 | 4.21 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 8 | 4.21 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 8 | 4.21 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 8 | 4.21 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 8 | 4.21 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 8 | 4.21 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 2 | 4.21 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 2 | 4.21 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 2 | 4.21 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 2 | 4.21 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 2 | 4.21 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 2 | 4.21 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 9 | 4.21 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 9 | 4.21 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 9 | 4.21 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 9 | 4.21 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 4.21 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 4.21 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 5 | 4.21 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 5 | 4.21 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 8 | 4.21 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 8 | 4.21 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 8 | 4.21 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 8 | 4.21 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 8 | 4.21 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 8 | 4.21 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 6 | 4.21 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 6 | 4.21 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 13 | 4.21 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 13 | 4.21 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 17 | 4.21 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 17 | 4.21 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 11 | 4.21 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 1 | 4.21 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 3 | 4.21 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 3 | 4.21 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 14 | 4.21 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 4 | 4.21 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 15 | 4.21 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 15 | 4.21 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 15 | 4.21 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 14 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 14 | 4.21 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 18 | 4.21 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 12 | 4.21 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 12 | 4.21 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 14 | 4.21 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 5 | 4.21 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 8 | 4.21 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 11 | 4.21 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 16 | 4.21 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 16 | 4.21 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 16 | 4.21 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 16 | 4.21 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 16 | 4.21 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 16 | 4.21 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 9 | 4.21 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 11 | 4.21 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 20 | 4.21 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 20 | 4.21 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 20 | 4.21 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 20 | 4.21 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 13 | 4.21 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 13 | 4.21 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 13 | 4.21 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 6 | 4.21 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 6 | 4.21 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 6 | 4.21 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 6 | 4.21 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 14 | 4.21 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 12 | 4.21 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 14 | 4.21 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 15 | 4.21 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 15 | 4.21 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 15 | 4.21 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 17 | 4.21 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 14 | 4.21 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 14 | 4.21 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 14 | 4.21 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 16 | 4.21 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 16 | 4.21 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 16 | 4.21 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 10 | 4.21 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 10 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 10 | 4.21 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 5 | 4.21 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 18 | 4.21 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 18 | 4.21 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 18 | 4.21 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 3 | 4.21 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 3 | 4.21 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 3 | 4.21 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 3 | 4.21 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 3 | 4.21 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 3 | 4.21 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 3 | 4.21 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 3 | 4.21 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 3 | 4.21 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 3 | 4.21 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 20 | 4.21 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 20 | 4.21 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 15 | 4.21 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 15 | 4.21 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 17 | 4.21 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 18 | 4.21 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 18 | 4.21 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 18 | 4.21 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 18 | 4.21 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 20 | 4.21 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 20 | 4.21 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 20 | 4.21 |
| (1,7645) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 19 | 4.21 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 19 | 4.21 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 19 | 4.21 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 19 | 4.21 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 12 | 4.21 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 12 | 4.21 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 12 | 4.21 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 15 | 4.21 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 7 | 4.21 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 7 | 4.21 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 12 | 4.21 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 12 | 4.21 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 17 | 4.21 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 17 | 4.21 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 17 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 12 | 4.21 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 12 | 4.21 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 18 | 4.21 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 18 | 4.21 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 4.21 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 4.21 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 7 | 4.21 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 7 | 4.21 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 16 | 4.21 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 17 | 4.21 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 17 | 4.21 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 8 | 4.21 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 8 | 4.21 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 8 | 4.21 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 8 | 4.21 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 8 | 4.21 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 8 | 4.21 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 11 | 4.21 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 13 | 4.21 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 10 | 4.21 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 11 | 4.21 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 4 | 4.21 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 4 | 4.21 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 4 | 4.21 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 4 | 4.21 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 9 | 4.21 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 2 | 4.21 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 13 | 4.21 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 13 | 4.21 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 13 | 4.21 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 15 | 4.21 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 15 | 4.21 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 15 | 4.21 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 13 | 4.21 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 13 | 4.21 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 13 | 4.21 |
| (1,7078) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 3 | 4.21 |
| (1,7078) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 3 | 4.21 |
| (1,7078) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 3 | 4.21 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 12 | 4.21 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 12 | 4.21 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 20 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 1 | 4.21 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 1 | 4.21 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 10 | 4.21 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 4 | 4.21 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 7 | 4.21 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 7 | 4.21 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 7 | 4.21 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 7 | 4.21 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 7 | 4.21 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 7 | 4.21 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 9 | 4.21 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 9 | 4.21 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 9 | 4.21 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 15 | 4.21 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 15 | 4.21 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 15 | 4.21 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 4 | 4.21 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 2 | 4.21 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 2 | 4.21 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 7 | 4.21 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 1 | 4.21 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 5 | 4.21 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 5 | 4.21 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 5 | 4.21 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 3 | 4.21 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 3 | 4.21 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 3 | 4.21 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 6 | 4.21 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 6 | 4.21 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 6 | 4.21 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 17 | 4.21 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 9 | 4.21 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 20 | 4.21 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 20 | 4.21 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 15 | 4.21 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 5 | 4.21 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 15 | 4.21 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 2 | 4.21 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 2 | 4.21 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 2 | 4.21 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 11 | 4.21 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 11 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 3 | 4.21 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 3 | 4.21 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 3 | 4.21 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 10 | 4.21 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 17 | 4.21 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 17 | 4.21 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 5 | 4.21 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 5 | 4.21 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 5 | 4.21 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 4.21 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 8 | 4.21 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 1 | 4.21 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 13 | 4.21 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 7 | 4.21 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 7 | 4.21 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 7 | 4.21 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 19 | 4.21 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 18 | 4.21 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 18 | 4.21 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 18 | 4.21 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 15 | 4.21 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 3 | 4.21 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 3 | 4.21 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 3 | 4.21 |
| (1,5725) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 13 | 4.21 |
| (1,5725) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 13 | 4.21 |
| (1,5725) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 13 | 4.21 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 6 | 4.21 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 20 | 4.21 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 20 | 4.21 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 20 | 4.21 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 20 | 4.21 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 20 | 4.21 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 20 | 4.21 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 7 | 4.21 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 14 | 4.21 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 18 | 4.21 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 4 | 4.21 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 4 | 4.21 |
| (1,5344) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 4 | 4.21 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 18 | 4.21 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 2 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 7 | 4.21 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 7 | 4.21 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 7 | 4.21 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 15 | 4.21 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 15 | 4.21 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 15 | 4.21 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 10 | 4.21 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 1 | 4.21 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 17 | 4.21 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 17 | 4.21 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 17 | 4.21 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 3 | 4.21 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 18 | 4.21 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 18 | 4.21 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 18 | 4.21 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 2 | 4.21 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 13 | 4.21 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 19 | 4.21 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 18 | 4.21 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 1 | 4.21 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 1 | 4.21 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 1 | 4.21 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 1 | 4.21 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 1 | 4.21 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 1 | 4.21 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 1 | 4.21 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 1 | 4.21 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 1 | 4.21 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 1 | 4.21 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 5 | 4.21 |
| (1,4733) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 18 | 4.21 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 20 | 4.21 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 20 | 4.21 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 20 | 4.21 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 2 | 4.21 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 2 | 4.21 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 17 | 4.21 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 17 | 4.21 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 2 | 4.21 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 5 | 4.21 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 5 | 4.21 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 5 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 5 | 4.21 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 5 | 4.21 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 5 | 4.21 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 4 | 4.21 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 4 | 4.21 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 18 | 4.21 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 18 | 4.21 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 18 | 4.21 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 7 | 4.21 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 7 | 4.21 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 7 | 4.21 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 3 | 4.21 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 3 | 4.21 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 4 | 4.21 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 4 | 4.21 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 4.21 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 4.21 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 4.21 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 4.21 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 4.21 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 4.21 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 10 | 4.21 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 5 | 4.21 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 5 | 4.21 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 6 | 4.21 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 6 | 4.21 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 3 | 4.21 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 3 | 4.21 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 9 | 4.21 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 9 | 4.21 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 18 | 4.21 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 18 | 4.21 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 12 | 4.21 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 10 | 4.21 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 10 | 4.21 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 18 | 4.21 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 11 | 4.21 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 11 | 4.21 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 11 | 4.21 |
| (1,4117) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 4.21 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 4 | 4.21 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 11 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 11 | 4.21 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 3 | 4.21 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 3 | 4.21 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 3 | 4.21 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 3 | 4.21 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 3 | 4.21 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 3 | 4.21 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 19 | 4.21 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 19 | 4.21 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 19 | 4.21 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 19 | 4.21 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 19 | 4.21 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 19 | 4.21 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 2 | 4.21 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 11 | 4.21 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 11 | 4.21 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 15 | 4.21 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 4.21 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 9 | 4.21 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 9 | 4.21 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 9 | 4.21 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 14 | 4.21 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 14 | 4.21 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 1 | 4.21 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 1 | 4.21 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 1 | 4.21 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 1 | 4.21 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 16 | 4.21 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 16 | 4.21 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 16 | 4.21 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 16 | 4.21 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 16 | 4.21 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 16 | 4.21 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 10 | 4.21 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 10 | 4.21 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 10 | 4.21 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 10 | 4.21 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 10 | 4.21 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 10 | 4.21 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 9 | 4.21 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 9 | 4.21 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 2 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 2 | 4.21 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 2 | 4.21 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 2 | 4.21 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 16 | 4.21 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 16 | 4.21 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 16 | 4.21 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 16 | 4.21 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 10 | 4.21 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 10 | 4.21 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 10 | 4.21 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 10 | 4.21 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 10 | 4.21 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 8 | 4.21 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 8 | 4.21 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 8 | 4.21 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 8 | 4.21 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 8 | 4.21 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 8 | 4.21 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 11 | 4.21 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 11 | 4.21 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 11 | 4.21 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 4.21 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 4.21 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 6 | 4.21 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 6 | 4.21 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 13 | 4.21 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 13 | 4.21 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 9 | 4.21 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 20 | 4.21 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 2 | 4.21 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 13 | 4.21 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 13 | 4.21 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 13 | 4.21 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 15 | 4.21 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 15 | 4.21 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 15 | 4.21 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 13 | 4.21 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 13 | 4.21 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 13 | 4.21 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 9 | 4.21 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 9 | 4.21 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 9 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3146) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 3 | 4.21 |
| (1,3146) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 3 | 4.21 |
| (1,3146) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 3 | 4.21 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 12 | 4.21 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 12 | 4.21 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 15 | 4.21 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 20 | 4.21 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 1 | 4.21 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 1 | 4.21 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 4 | 4.21 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 6 | 4.21 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 9 | 4.21 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 10 | 4.21 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 10 | 4.21 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 4 | 4.21 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 7 | 4.21 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 7 | 4.21 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 7 | 4.21 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 7 | 4.21 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 7 | 4.21 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 7 | 4.21 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 9 | 4.21 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 9 | 4.21 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 9 | 4.21 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 15 | 4.21 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 15 | 4.21 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 15 | 4.21 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 15 | 4.21 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 5 | 4.21 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 14 | 4.21 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 18 | 4.21 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 4 | 4.21 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 2 | 4.21 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 2 | 4.21 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 7 | 4.21 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 15 | 4.21 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 15 | 4.21 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 15 | 4.21 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 3 | 4.21 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 3 | 4.21 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 3 | 4.21 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 1 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 5 | 4.21 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 5 | 4.21 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 5 | 4.21 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 19 | 4.21 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 14 | 4.21 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 6 | 4.21 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 3 | 4.21 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 3 | 4.21 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 3 | 4.21 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 6 | 4.21 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 6 | 4.21 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 6 | 4.21 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 17 | 4.21 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 9 | 4.21 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 3 | 4.21 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 20 | 4.21 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 20 | 4.21 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 15 | 4.21 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 5 | 4.21 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 15 | 4.21 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 2 | 4.21 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 2 | 4.21 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 2 | 4.21 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 11 | 4.21 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 11 | 4.21 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 3 | 4.21 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 3 | 4.21 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 3 | 4.21 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 10 | 4.21 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 17 | 4.21 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 17 | 4.21 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 5 | 4.21 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 5 | 4.21 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 5 | 4.21 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 4.21 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 8 | 4.21 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 1 | 4.21 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 15 | 4.21 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 17 | 4.21 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 13 | 4.21 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 19 | 4.21 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 13 | 4.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 18 | 4.21 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 18 | 4.21 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 18 | 4.21 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 15 | 4.21 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 18 | 4.21 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 3 | 4.21 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 3 | 4.21 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 3 | 4.21 |
| (1,1010) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 13 | 4.21 |
| (1,1010) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 13 | 4.21 |
| (1,1010) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 13 | 4.21 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 6 | 4.21 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 13 | 4.21 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 14 | 4.21 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 14 | 4.21 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 14 | 4.21 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 19 | 4.21 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 20 | 4.21 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 20 | 4.21 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 20 | 4.21 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 20 | 4.21 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 20 | 4.21 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 20 | 4.21 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 17 | 4.21 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 7 | 4.21 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 12 | 4.21 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 14 | 4.21 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 6 | 4.21 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 6 | 4.21 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 6 | 4.21 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 7 | 4.21 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 2 | 4.2 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 13 | 4.2 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 11 | 4.2 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 13 | 4.2 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 11 | 4.2 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 11 | 4.2 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 8 | 4.2 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 8 | 4.2 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 8 | 4.2 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 8 | 4.2 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 8 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 8 | 4.2 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 10 | 4.2 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 10 | 4.2 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 14 | 4.2 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 14 | 4.2 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 18 | 4.2 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 18 | 4.2 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 1 | 4.2 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 1 | 4.2 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 1 | 4.2 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 1 | 4.2 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 1 | 4.2 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 1 | 4.2 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 10 | 4.2 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 10 | 4.2 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 15 | 4.2 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 15 | 4.2 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 16 | 4.2 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 16 | 4.2 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 18 | 4.2 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 18 | 4.2 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 8 | 4.2 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 8 | 4.2 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 8 | 4.2 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 8 | 4.2 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 6 | 4.2 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 6 | 4.2 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 12 | 4.2 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 12 | 4.2 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 13 | 4.2 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 13 | 4.2 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 19 | 4.2 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 19 | 4.2 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 19 | 4.2 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 19 | 4.2 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 19 | 4.2 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 19 | 4.2 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 19 | 4.2 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 19 | 4.2 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 19 | 4.2 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 19 | 4.2 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 3 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 3 | 4.2 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 3 | 4.2 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 3 | 4.2 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 8 | 4.2 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 8 | 4.2 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 8 | 4.2 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 8 | 4.2 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 3 | 4.2 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 3 | 4.2 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 6 | 4.2 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 6 | 4.2 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 17 | 4.2 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 17 | 4.2 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 17 | 4.2 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 17 | 4.2 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 17 | 4.2 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 17 | 4.2 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 11 | 4.2 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 11 | 4.2 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 11 | 4.2 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 11 | 4.2 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 18 | 4.2 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 18 | 4.2 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 10 | 4.2 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 10 | 4.2 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 10 | 4.2 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 10 | 4.2 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 10 | 4.2 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 10 | 4.2 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 16 | 4.2 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 16 | 4.2 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 14 | 4.2 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 14 | 4.2 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 20 | 4.2 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 20 | 4.2 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 17 | 4.2 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 17 | 4.2 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 4 | 4.2 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 4 | 4.2 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 4 | 4.2 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 4 | 4.2 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 4 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 4 | 4.2 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 10 | 4.2 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 10 | 4.2 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 2 | 4.2 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 2 | 4.2 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 1 | 4.2 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 1 | 4.2 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 1 | 4.2 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 1 | 4.2 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 1 | 4.2 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 1 | 4.2 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 17 | 4.2 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 17 | 4.2 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 4 | 4.2 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 4 | 4.2 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 4 | 4.2 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 4 | 4.2 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 4 | 4.2 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 4 | 4.2 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 6 | 4.2 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 6 | 4.2 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 10 | 4.2 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 10 | 4.2 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 14 | 4.2 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 14 | 4.2 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 10 | 4.2 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 10 | 4.2 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 1 | 4.2 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 1 | 4.2 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 1 | 4.2 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 1 | 4.2 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 4 | 4.2 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 4 | 4.2 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 4 | 4.2 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 4 | 4.2 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 17 | 4.2 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 17 | 4.2 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 17 | 4.2 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 17 | 4.2 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 17 | 4.2 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 17 | 4.2 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 18 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 18 | 4.2 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 18 | 4.2 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 18 | 4.2 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 1 | 4.2 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 1 | 4.2 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 18 | 4.2 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 18 | 4.2 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 9 | 4.2 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 9 | 4.2 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 16 | 4.2 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 16 | 4.2 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 8 | 4.2 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 8 | 4.2 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 8 | 4.2 |
| (1,8398) | 1:141:A:LEU:H | 1:142:A:ARG:H | 13 | 4.2 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 7 | 4.2 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 7 | 4.2 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 7 | 4.2 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 20 | 4.2 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 20 | 4.2 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 20 | 4.2 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 20 | 4.2 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 20 | 4.2 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 20 | 4.2 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 15 | 4.2 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 15 | 4.2 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 15 | 4.2 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 15 | 4.2 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 15 | 4.2 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 15 | 4.2 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB1 | 19 | 4.2 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB2 | 19 | 4.2 |
| (1,8362) | 1:136:A:ASP:H | 1:137:A:ALA:HB3 | 19 | 4.2 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 19 | 4.2 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 1 | 4.2 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 1 | 4.2 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 1 | 4.2 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 11 | 4.2 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 11 | 4.2 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 1 | 4.2 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 1 | 4.2 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 1 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 9 | 4.2 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 11 | 4.2 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 10 | 4.2 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 17 | 4.2 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 17 | 4.2 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 17 | 4.2 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 17 | 4.2 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 17 | 4.2 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 17 | 4.2 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 4 | 4.2 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 2 | 4.2 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 2 | 4.2 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 2 | 4.2 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 2 | 4.2 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 2 | 4.2 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 2 | 4.2 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 2 | 4.2 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 2 | 4.2 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 2 | 4.2 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 2 | 4.2 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 2 | 4.2 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 2 | 4.2 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 9 | 4.2 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 9 | 4.2 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 3 | 4.2 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 4 | 4.2 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 9 | 4.2 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 18 | 4.2 |
| (1,7899) | 1:67:A:SER:HA | 1:68:A:ARG:HD2 | 4 | 4.2 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 6 | 4.2 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 6 | 4.2 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 2 | 4.2 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 2 | 4.2 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 2 | 4.2 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 9 | 4.2 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 9 | 4.2 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 9 | 4.2 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 9 | 4.2 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 9 | 4.2 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 9 | 4.2 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 9 | 4.2 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 9 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 9 | 4.2 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 16 | 4.2 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 16 | 4.2 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 16 | 4.2 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 12 | 4.2 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 16 | 4.2 |
| (1,7693) | 1:43:A:SER:HA | 1:45:A:GLY:H | 4 | 4.2 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 11 | 4.2 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 17 | 4.2 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 3 | 4.2 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 19 | 4.2 |
| (1,7643) | 1:28:A:ILE:H | 1:31:A:ALA:H | 15 | 4.2 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 4 | 4.2 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 13 | 4.2 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 12 | 4.2 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 12 | 4.2 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 5 | 4.2 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 15 | 4.2 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 15 | 4.2 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 15 | 4.2 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 20 | 4.2 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 20 | 4.2 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 10 | 4.2 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 10 | 4.2 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 17 | 4.2 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 2 | 4.2 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 1 | 4.2 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 11 | 4.2 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 2 | 4.2 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 3 | 4.2 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 13 | 4.2 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 13 | 4.2 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 13 | 4.2 |
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 18 | 4.2 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 13 | 4.2 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 13 | 4.2 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 13 | 4.2 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 18 | 4.2 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 17 | 4.2 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 17 | 4.2 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 17 | 4.2 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 6 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 6 | 4.2 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 6 | 4.2 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 5 | 4.2 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 5 | 4.2 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 5 | 4.2 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 5 | 4.2 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 5 | 4.2 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 5 | 4.2 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 3 | 4.2 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 12 | 4.2 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 11 | 4.2 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 13 | 4.2 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 13 | 4.2 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 13 | 4.2 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 17 | 4.2 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 5 | 4.2 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 12 | 4.2 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 12 | 4.2 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 12 | 4.2 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 6 | 4.2 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 2 | 4.2 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 7 | 4.2 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 7 | 4.2 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 7 | 4.2 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 17 | 4.2 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 17 | 4.2 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 17 | 4.2 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 13 | 4.2 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 13 | 4.2 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 2 | 4.2 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 13 | 4.2 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 13 | 4.2 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 1 | 4.2 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 9 | 4.2 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 14 | 4.2 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 9 | 4.2 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 4 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 2 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 2 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 2 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 2 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 2 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 2 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 6 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 6 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 6 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 6 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 6 | 4.2 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 6 | 4.2 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 19 | 4.2 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 5 | 4.2 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 15 | 4.2 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 15 | 4.2 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 15 | 4.2 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 7 | 4.2 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 12 | 4.2 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 18 | 4.2 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 18 | 4.2 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 18 | 4.2 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 3 | 4.2 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 6 | 4.2 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 14 | 4.2 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 14 | 4.2 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 14 | 4.2 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 4 | 4.2 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 14 | 4.2 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 12 | 4.2 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 12 | 4.2 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 12 | 4.2 |
| (1,6389) | 1:147:A:SER:H | 1:158:A:ILE:HA | 18 | 4.2 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 13 | 4.2 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 13 | 4.2 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 13 | 4.2 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 13 | 4.2 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 13 | 4.2 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 13 | 4.2 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 14 | 4.2 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 14 | 4.2 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 14 | 4.2 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 3 | 4.2 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 3 | 4.2 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 3 | 4.2 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 9 | 4.2 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 9 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 9 | 4.2 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 20 | 4.2 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 13 | 4.2 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 13 | 4.2 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 13 | 4.2 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 13 | 4.2 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 13 | 4.2 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 13 | 4.2 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 13 | 4.2 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 13 | 4.2 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 13 | 4.2 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 4 | 4.2 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 4 | 4.2 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 4 | 4.2 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 4 | 4.2 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 17 | 4.2 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 17 | 4.2 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 17 | 4.2 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 17 | 4.2 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 8 | 4.2 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 17 | 4.2 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 17 | 4.2 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 16 | 4.2 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 10 | 4.2 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 1 | 4.2 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 1 | 4.2 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 1 | 4.2 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 12 | 4.2 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 10 | 4.2 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 10 | 4.2 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 19 | 4.2 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 19 | 4.2 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 19 | 4.2 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 2 | 4.2 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 15 | 4.2 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 15 | 4.2 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 15 | 4.2 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 15 | 4.2 |
| (1,5752) | 1:108:A:SER:H | 1:110:A:PHE:H | 10 | 4.2 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 2 | 4.2 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 10 | 4.2 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 10 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 10 | 4.2 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 1 | 4.2 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 1 | 4.2 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 1 | 4.2 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 19 | 4.2 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 19 | 4.2 |
| (1,5705) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 19 | 4.2 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 10 | 4.2 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 1 | 4.2 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 1 | 4.2 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 1 | 4.2 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 12 | 4.2 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 12 | 4.2 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 12 | 4.2 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 6 | 4.2 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 20 | 4.2 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 20 | 4.2 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 20 | 4.2 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 15 | 4.2 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 7 | 4.2 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 20 | 4.2 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 11 | 4.2 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 10 | 4.2 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 16 | 4.2 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 20 | 4.2 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 20 | 4.2 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 20 | 4.2 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 20 | 4.2 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 6 | 4.2 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 10 | 4.2 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 7 | 4.2 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 6 | 4.2 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 19 | 4.2 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 19 | 4.2 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 19 | 4.2 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 3 | 4.2 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 13 | 4.2 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 9 | 4.2 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 9 | 4.2 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 12 | 4.2 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 3 | 4.2 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 13 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 13 | 4.2 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 13 | 4.2 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 16 | 4.2 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 3 | 4.2 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 3 | 4.2 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 3 | 4.2 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 11 | 4.2 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 17 | 4.2 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 17 | 4.2 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 17 | 4.2 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 6 | 4.2 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 9 | 4.2 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 3 | 4.2 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 3 | 4.2 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 3 | 4.2 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 3 | 4.2 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 3 | 4.2 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 3 | 4.2 |
| (1,4657) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 20 | 4.2 |
| (1,4657) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 20 | 4.2 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 5 | 4.2 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 5 | 4.2 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 16 | 4.2 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 16 | 4.2 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 1 | 4.2 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 1 | 4.2 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 1 | 4.2 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 1 | 4.2 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 1 | 4.2 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 1 | 4.2 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 3 | 4.2 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 3 | 4.2 |
| (1,4518) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 6 | 4.2 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 8 | 4.2 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 8 | 4.2 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 8 | 4.2 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 8 | 4.2 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 8 | 4.2 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 8 | 4.2 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 18 | 4.2 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 18 | 4.2 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 1 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 1 | 4.2 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 1 | 4.2 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 1 | 4.2 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 1 | 4.2 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 1 | 4.2 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 10 | 4.2 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 10 | 4.2 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 15 | 4.2 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 15 | 4.2 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 10 | 4.2 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 16 | 4.2 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 16 | 4.2 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 18 | 4.2 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 18 | 4.2 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 6 | 4.2 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 8 | 4.2 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 8 | 4.2 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 8 | 4.2 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 8 | 4.2 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 6 | 4.2 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 6 | 4.2 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 7 | 4.2 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 7 | 4.2 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 7 | 4.2 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 7 | 4.2 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 7 | 4.2 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 7 | 4.2 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 4 | 4.2 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 4 | 4.2 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 19 | 4.2 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 19 | 4.2 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 19 | 4.2 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 19 | 4.2 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 19 | 4.2 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 19 | 4.2 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 18 | 4.2 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 19 | 4.2 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 19 | 4.2 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 19 | 4.2 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 19 | 4.2 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 4 | 4.2 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 4 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 4 | 4.2 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 4 | 4.2 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 7 | 4.2 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 7 | 4.2 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 7 | 4.2 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 17 | 4.2 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 17 | 4.2 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 17 | 4.2 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 17 | 4.2 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 17 | 4.2 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 17 | 4.2 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 6 | 4.2 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 18 | 4.2 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 7 | 4.2 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 6 | 4.2 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 6 | 4.2 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 6 | 4.2 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 5 | 4.2 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 5 | 4.2 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 5 | 4.2 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 10 | 4.2 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 10 | 4.2 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 10 | 4.2 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 10 | 4.2 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 10 | 4.2 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 10 | 4.2 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 16 | 4.2 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 16 | 4.2 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 15 | 4.2 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 15 | 4.2 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 15 | 4.2 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 14 | 4.2 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 14 | 4.2 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 4 | 4.2 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 2 | 4.2 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 18 | 4.2 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 13 | 4.2 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 10 | 4.2 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 10 | 4.2 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 17 | 4.2 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 4.2 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 4.2 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 17 | 4.2 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 17 | 4.2 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 4 | 4.2 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 4 | 4.2 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 4 | 4.2 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 4 | 4.2 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 4 | 4.2 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 4 | 4.2 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 18 | 4.2 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 18 | 4.2 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 8 | 4.2 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 10 | 4.2 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 10 | 4.2 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 7 | 4.2 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 17 | 4.2 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 17 | 4.2 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 1 | 4.2 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 1 | 4.2 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 1 | 4.2 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 1 | 4.2 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 4 | 4.2 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 4 | 4.2 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 4 | 4.2 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 4 | 4.2 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 16 | 4.2 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 17 | 4.2 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 17 | 4.2 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 17 | 4.2 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 17 | 4.2 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 17 | 4.2 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 17 | 4.2 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 18 | 4.2 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 18 | 4.2 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 16 | 4.2 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 9 | 4.2 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 10 | 4.2 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 7 | 4.2 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 7 | 4.2 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 7 | 4.2 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 11 | 4.2 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 13 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 13 | 4.2 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 13 | 4.2 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 15 | 4.2 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 15 | 4.2 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 15 | 4.2 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 17 | 4.2 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 5 | 4.2 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 12 | 4.2 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 12 | 4.2 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 12 | 4.2 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 12 | 4.2 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 7 | 4.2 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 11 | 4.2 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 16 | 4.2 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 6 | 4.2 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 2 | 4.2 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 7 | 4.2 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 7 | 4.2 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 7 | 4.2 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 17 | 4.2 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 17 | 4.2 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 17 | 4.2 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 13 | 4.2 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 13 | 4.2 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 2 | 4.2 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 3 | 4.2 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 3 | 4.2 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 13 | 4.2 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 13 | 4.2 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 1 | 4.2 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 9 | 4.2 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 14 | 4.2 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 1 | 4.2 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 7 | 4.2 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 9 | 4.2 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 6 | 4.2 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 6 | 4.2 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 6 | 4.2 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 4 | 4.2 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 14 | 4.2 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 14 | 4.2 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 14 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 5 | 4.2 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 5 | 4.2 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 5 | 4.2 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 19 | 4.2 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 5 | 4.2 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 15 | 4.2 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 15 | 4.2 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 15 | 4.2 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 7 | 4.2 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 12 | 4.2 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 18 | 4.2 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 18 | 4.2 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 18 | 4.2 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 3 | 4.2 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 6 | 4.2 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 14 | 4.2 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 18 | 4.2 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 14 | 4.2 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 14 | 4.2 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 14 | 4.2 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 4 | 4.2 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 14 | 4.2 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 14 | 4.2 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 14 | 4.2 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 8 | 4.2 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 8 | 4.2 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 8 | 4.2 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 4 | 4.2 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 14 | 4.2 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 12 | 4.2 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 12 | 4.2 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 12 | 4.2 |
| (1,2092) | 1:147:A:SER:H | 1:158:A:ILE:HA | 18 | 4.2 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 11 | 4.2 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 11 | 4.2 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 11 | 4.2 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 13 | 4.2 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 13 | 4.2 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 13 | 4.2 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 13 | 4.2 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 13 | 4.2 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 13 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 14 | 4.2 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 14 | 4.2 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 14 | 4.2 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 5 | 4.2 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 5 | 4.2 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 5 | 4.2 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 9 | 4.2 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 9 | 4.2 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 9 | 4.2 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 20 | 4.2 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 13 | 4.2 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 13 | 4.2 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 13 | 4.2 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 13 | 4.2 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 13 | 4.2 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 13 | 4.2 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 13 | 4.2 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 13 | 4.2 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 13 | 4.2 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 4 | 4.2 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 4 | 4.2 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 4 | 4.2 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 4 | 4.2 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 17 | 4.2 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 17 | 4.2 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 17 | 4.2 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 17 | 4.2 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 8 | 4.2 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 7 | 4.2 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 14 | 4.2 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 14 | 4.2 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 14 | 4.2 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 17 | 4.2 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 17 | 4.2 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 16 | 4.2 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 10 | 4.2 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 1 | 4.2 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 1 | 4.2 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 1 | 4.2 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 12 | 4.2 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 10 | 4.2 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 10 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 20 | 4.2 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 8 | 4.2 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 19 | 4.2 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 19 | 4.2 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 19 | 4.2 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 2 | 4.2 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 15 | 4.2 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 15 | 4.2 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 15 | 4.2 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 15 | 4.2 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 4 | 4.2 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 4 | 4.2 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 5 | 4.2 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 5 | 4.2 |
| (1,1082) | 1:108:A:SER:H | 1:110:A:PHE:H | 10 | 4.2 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 2 | 4.2 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 5 | 4.2 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 11 | 4.2 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 10 | 4.2 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 10 | 4.2 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 10 | 4.2 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 1 | 4.2 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 1 | 4.2 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 1 | 4.2 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 19 | 4.2 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 19 | 4.2 |
| (1,984) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 19 | 4.2 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 10 | 4.2 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 3 | 4.2 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 3 | 4.2 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 3 | 4.2 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 3 | 4.2 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 3 | 4.2 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 3 | 4.2 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 1 | 4.2 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 1 | 4.2 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 1 | 4.2 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 12 | 4.2 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 12 | 4.2 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 12 | 4.2 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 12 | 4.2 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 6 | 4.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 4.2 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 17 | 4.2 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 9 | 4.2 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 9 | 4.2 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 9 | 4.2 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 9 | 4.2 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 9 | 4.2 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 9 | 4.2 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 4 | 4.2 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 4 | 4.2 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 4 | 4.2 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 9 | 4.2 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 5 | 4.19 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 7 | 4.19 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 1 | 4.19 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 1 | 4.19 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 1 | 4.19 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 1 | 4.19 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 1 | 4.19 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 1 | 4.19 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 15 | 4.19 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 15 | 4.19 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 10 | 4.19 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 10 | 4.19 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 20 | 4.19 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 20 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 6 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 6 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 6 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 6 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 6 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 6 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 13 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 13 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 13 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 13 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 13 | 4.19 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 13 | 4.19 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 9 | 4.19 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 9 | 4.19 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 13 | 4.19 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 13 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 9 | 4.19 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 9 | 4.19 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 19 | 4.19 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 19 | 4.19 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 4.19 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 4.19 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 5 | 4.19 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 5 | 4.19 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 5 | 4.19 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 5 | 4.19 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 14 | 4.19 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 14 | 4.19 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 14 | 4.19 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 14 | 4.19 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 2 | 4.19 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 2 | 4.19 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 8 | 4.19 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 8 | 4.19 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 4.19 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 4.19 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 6 | 4.19 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 6 | 4.19 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 16 | 4.19 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 16 | 4.19 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 18 | 4.19 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 18 | 4.19 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 2 | 4.19 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 2 | 4.19 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 5 | 4.19 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 5 | 4.19 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 13 | 4.19 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 13 | 4.19 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD21 | 18 | 4.19 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD22 | 18 | 4.19 |
| (1,9070) | 1:83:A:GLU:HB2 | 1:86:A:LEU:HD23 | 18 | 4.19 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD21 | 18 | 4.19 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD22 | 18 | 4.19 |
| (1,9070) | 1:83:A:GLU:HB3 | 1:86:A:LEU:HD23 | 18 | 4.19 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB2 | 16 | 4.19 |
| (1,9056) | 1:82:A:LYS:H | 1:84:A:GLU:HB3 | 16 | 4.19 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 4 | 4.19 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 4 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 11 | 4.19 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 11 | 4.19 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 11 | 4.19 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 11 | 4.19 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 11 | 4.19 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 11 | 4.19 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 16 | 4.19 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 16 | 4.19 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 12 | 4.19 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 12 | 4.19 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 10 | 4.19 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 10 | 4.19 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 10 | 4.19 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 10 | 4.19 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 10 | 4.19 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 10 | 4.19 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 10 | 4.19 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 10 | 4.19 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 10 | 4.19 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 10 | 4.19 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 9 | 4.19 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 9 | 4.19 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 18 | 4.19 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 18 | 4.19 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 5 | 4.19 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 5 | 4.19 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 1 | 4.19 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 1 | 4.19 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 2 | 4.19 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 2 | 4.19 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 2 | 4.19 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 2 | 4.19 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 7 | 4.19 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 7 | 4.19 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 9 | 4.19 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 9 | 4.19 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 2 | 4.19 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 2 | 4.19 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 16 | 4.19 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 16 | 4.19 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 16 | 4.19 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 16 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 17 | 4.19 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 17 | 4.19 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 7 | 4.19 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 7 | 4.19 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 7 | 4.19 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 7 | 4.19 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 5 | 4.19 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 5 | 4.19 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 17 | 4.19 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 17 | 4.19 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 3 | 4.19 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 3 | 4.19 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 3 | 4.19 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 3 | 4.19 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 3 | 4.19 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 3 | 4.19 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 5 | 4.19 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 5 | 4.19 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 5 | 4.19 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 3 | 4.19 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 3 | 4.19 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 3 | 4.19 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 17 | 4.19 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 7 | 4.19 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 12 | 4.19 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 9 | 4.19 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 7 | 4.19 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 16 | 4.19 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 16 | 4.19 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 16 | 4.19 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 16 | 4.19 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 16 | 4.19 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 16 | 4.19 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 16 | 4.19 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 16 | 4.19 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 16 | 4.19 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 11 | 4.19 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 11 | 4.19 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 18 | 4.19 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 18 | 4.19 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 18 | 4.19 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 18 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 18 | 4.19 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 18 | 4.19 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 18 | 4.19 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 18 | 4.19 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 18 | 4.19 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 15 | 4.19 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 15 | 4.19 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 15 | 4.19 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 6 | 4.19 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 7 | 4.19 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 7 | 4.19 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 17 | 4.19 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 19 | 4.19 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 8 | 4.19 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 8 | 4.19 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 8 | 4.19 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 8 | 4.19 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 8 | 4.19 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 8 | 4.19 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 8 | 4.19 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 8 | 4.19 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 8 | 4.19 |
| (1,7969) | 1:77:A:LYS:H | 1:78:A:ILE:HB | 19 | 4.19 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 16 | 4.19 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 11 | 4.19 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 7 | 4.19 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 7 | 4.19 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 4 | 4.19 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 4 | 4.19 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 14 | 4.19 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 2 | 4.19 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 2 | 4.19 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 2 | 4.19 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 2 | 4.19 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 2 | 4.19 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 2 | 4.19 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 3 | 4.19 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 3 | 4.19 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 3 | 4.19 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 7 | 4.19 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 4 | 4.19 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 20 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 12 | 4.19 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 18 | 4.19 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 18 | 4.19 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 18 | 4.19 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 15 | 4.19 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 10 | 4.19 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 10 | 4.19 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 16 | 4.19 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 16 | 4.19 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 13 | 4.19 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 13 | 4.19 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 13 | 4.19 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 8 | 4.19 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 8 | 4.19 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 17 | 4.19 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 2 | 4.19 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 1 | 4.19 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 19 | 4.19 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 2 | 4.19 |
| (1,7430) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 13 | 4.19 |
| (1,7430) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 13 | 4.19 |
| (1,7430) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 13 | 4.19 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 2 | 4.19 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 16 | 4.19 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 16 | 4.19 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 16 | 4.19 |
| (1,7127) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 19 | 4.19 |
| (1,7127) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 19 | 4.19 |
| (1,7127) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 19 | 4.19 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 8 | 4.19 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 5 | 4.19 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 18 | 4.19 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 18 | 4.19 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 18 | 4.19 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 8 | 4.19 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 4 | 4.19 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 14 | 4.19 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 14 | 4.19 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 14 | 4.19 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 14 | 4.19 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 11 | 4.19 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 8 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 8 | 4.19 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 2 | 4.19 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 5 | 4.19 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 5 | 4.19 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 17 | 4.19 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 17 | 4.19 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 5 | 4.19 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 5 | 4.19 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 5 | 4.19 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 18 | 4.19 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 11 | 4.19 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 1 | 4.19 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 1 | 4.19 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 1 | 4.19 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 16 | 4.19 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 3 | 4.19 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 9 | 4.19 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 9 | 4.19 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 9 | 4.19 |
| (1,6444) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 14 | 4.19 |
| (1,6444) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 14 | 4.19 |
| (1,6444) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 14 | 4.19 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 6 | 4.19 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 6 | 4.19 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 6 | 4.19 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 6 | 4.19 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 6 | 4.19 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 6 | 4.19 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 5 | 4.19 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 19 | 4.19 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 12 | 4.19 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 12 | 4.19 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 12 | 4.19 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 1 | 4.19 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 2 | 4.19 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 2 | 4.19 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 8 | 4.19 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 17 | 4.19 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 16 | 4.19 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 16 | 4.19 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 16 | 4.19 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 10 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 10 | 4.19 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 10 | 4.19 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 1 | 4.19 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 1 | 4.19 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 9 | 4.19 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 9 | 4.19 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 9 | 4.19 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 1 | 4.19 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 1 | 4.19 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 8 | 4.19 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 8 | 4.19 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 8 | 4.19 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 9 | 4.19 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 9 | 4.19 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 9 | 4.19 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 8 | 4.19 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 2 | 4.19 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 2 | 4.19 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 2 | 4.19 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 19 | 4.19 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 1 | 4.19 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 6 | 4.19 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 18 | 4.19 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 2 | 4.19 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 2 | 4.19 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 2 | 4.19 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 12 | 4.19 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 12 | 4.19 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 12 | 4.19 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 17 | 4.19 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 17 | 4.19 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 17 | 4.19 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 1 | 4.19 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 1 | 4.19 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 1 | 4.19 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 18 | 4.19 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 18 | 4.19 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 18 | 4.19 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 12 | 4.19 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 16 | 4.19 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 3 | 4.19 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 15 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 20 | 4.19 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 20 | 4.19 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 20 | 4.19 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 13 | 4.19 |
| (1,4952) | 1:67:A:SER:HA | 1:69:A:ARG:H | 10 | 4.19 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 12 | 4.19 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 12 | 4.19 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 12 | 4.19 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 12 | 4.19 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 12 | 4.19 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 12 | 4.19 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 2 | 4.19 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 2 | 4.19 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 2 | 4.19 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 8 | 4.19 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 13 | 4.19 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 13 | 4.19 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 13 | 4.19 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 15 | 4.19 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 10 | 4.19 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 15 | 4.19 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 1 | 4.19 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 1 | 4.19 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 1 | 4.19 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 1 | 4.19 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 18 | 4.19 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 15 | 4.19 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 15 | 4.19 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 15 | 4.19 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 12 | 4.19 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 14 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 6 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 6 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 6 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 6 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 6 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 6 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 13 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 13 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 13 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 13 | 4.19 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 13 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 13 | 4.19 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 18 | 4.19 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 18 | 4.19 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 18 | 4.19 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 18 | 4.19 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 4.19 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 9 | 4.19 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 16 | 4.19 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 16 | 4.19 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 19 | 4.19 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 9 | 4.19 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 9 | 4.19 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 19 | 4.19 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 19 | 4.19 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 4.19 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 4.19 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 14 | 4.19 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 14 | 4.19 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 14 | 4.19 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 14 | 4.19 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 12 | 4.19 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 12 | 4.19 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 12 | 4.19 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 7 | 4.19 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 4.19 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 4.19 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 19 | 4.19 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 6 | 4.19 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 6 | 4.19 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 1 | 4.19 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 1 | 4.19 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 1 | 4.19 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 6 | 4.19 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 5 | 4.19 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 5 | 4.19 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 5 | 4.19 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 5 | 4.19 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 3 | 4.19 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 3 | 4.19 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 3 | 4.19 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 13 | 4.19 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 13 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 13 | 4.19 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 13 | 4.19 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 13 | 4.19 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 13 | 4.19 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 13 | 4.19 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 13 | 4.19 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 4 | 4.19 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 4 | 4.19 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 11 | 4.19 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 11 | 4.19 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 11 | 4.19 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 11 | 4.19 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 11 | 4.19 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 11 | 4.19 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 16 | 4.19 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 16 | 4.19 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 10 | 4.19 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 10 | 4.19 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 10 | 4.19 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 10 | 4.19 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 10 | 4.19 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 10 | 4.19 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 10 | 4.19 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 10 | 4.19 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 10 | 4.19 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 10 | 4.19 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 17 | 4.19 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 17 | 4.19 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 17 | 4.19 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 17 | 4.19 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 17 | 4.19 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 17 | 4.19 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 5 | 4.19 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 5 | 4.19 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 4 | 4.19 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 6 | 4.19 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 6 | 4.19 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 6 | 4.19 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 6 | 4.19 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 7 | 4.19 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 7 | 4.19 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 1 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 2 | 4.19 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 2 | 4.19 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 2 | 4.19 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 2 | 4.19 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 2 | 4.19 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 2 | 4.19 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 7 | 4.19 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 7 | 4.19 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 13 | 4.19 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 13 | 4.19 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 13 | 4.19 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 13 | 4.19 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 3 | 4.19 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 7 | 4.19 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 7 | 4.19 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 5 | 4.19 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 5 | 4.19 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 17 | 4.19 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 17 | 4.19 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 15 | 4.19 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 10 | 4.19 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 10 | 4.19 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 10 | 4.19 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 16 | 4.19 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 16 | 4.19 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 16 | 4.19 |
| (1,3224) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 19 | 4.19 |
| (1,3224) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 19 | 4.19 |
| (1,3224) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 19 | 4.19 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 10 | 4.19 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 5 | 4.19 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 8 | 4.19 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 5 | 4.19 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 18 | 4.19 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 18 | 4.19 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 18 | 4.19 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 8 | 4.19 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 14 | 4.19 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 4 | 4.19 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 14 | 4.19 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 20 | 4.19 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 14 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 14 | 4.19 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 14 | 4.19 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 7 | 4.19 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 11 | 4.19 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 8 | 4.19 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 8 | 4.19 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 20 | 4.19 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 20 | 4.19 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 2 | 4.19 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 5 | 4.19 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 5 | 4.19 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 17 | 4.19 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 17 | 4.19 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 5 | 4.19 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 5 | 4.19 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 5 | 4.19 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 7 | 4.19 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 7 | 4.19 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 7 | 4.19 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 18 | 4.19 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 10 | 4.19 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 2 | 4.19 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 8 | 4.19 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 11 | 4.19 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 4 | 4.19 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 1 | 4.19 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 1 | 4.19 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 1 | 4.19 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 20 | 4.19 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 16 | 4.19 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 3 | 4.19 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 14 | 4.19 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 9 | 4.19 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 9 | 4.19 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 9 | 4.19 |
| (1,2176) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 14 | 4.19 |
| (1,2176) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 14 | 4.19 |
| (1,2176) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 14 | 4.19 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 6 | 4.19 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 6 | 4.19 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 6 | 4.19 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 6 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 6 | 4.19 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 6 | 4.19 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 4 | 4.19 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 12 | 4.19 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 12 | 4.19 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 12 | 4.19 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 12 | 4.19 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 12 | 4.19 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 12 | 4.19 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 12 | 4.19 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 12 | 4.19 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 12 | 4.19 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 5 | 4.19 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 19 | 4.19 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 12 | 4.19 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 12 | 4.19 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 12 | 4.19 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 1 | 4.19 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 19 | 4.19 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 19 | 4.19 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 19 | 4.19 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 2 | 4.19 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 2 | 4.19 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 8 | 4.19 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 17 | 4.19 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 16 | 4.19 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 16 | 4.19 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 4.19 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 16 | 4.19 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 5 | 4.19 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 5 | 4.19 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 5 | 4.19 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 5 | 4.19 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 5 | 4.19 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 5 | 4.19 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 1 | 4.19 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 1 | 4.19 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 1 | 4.19 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 10 | 4.19 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 10 | 4.19 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 10 | 4.19 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 1 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 1 | 4.19 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 9 | 4.19 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 9 | 4.19 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 9 | 4.19 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 4.19 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 4.19 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 4.19 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 1 | 4.19 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 1 | 4.19 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 9 | 4.19 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 4 | 4.19 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 16 | 4.19 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 8 | 4.19 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 8 | 4.19 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 8 | 4.19 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 9 | 4.19 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 9 | 4.19 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 9 | 4.19 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 8 | 4.19 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 15 | 4.19 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 2 | 4.19 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 2 | 4.19 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 2 | 4.19 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 19 | 4.19 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 1 | 4.19 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 10 | 4.19 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 20 | 4.19 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 20 | 4.19 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 20 | 4.19 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 20 | 4.19 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 20 | 4.19 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 20 | 4.19 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 10 | 4.19 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 10 | 4.19 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 15 | 4.19 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 15 | 4.19 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 6 | 4.19 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 18 | 4.19 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 2 | 4.19 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 2 | 4.19 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 2 | 4.19 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 12 | 4.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 12 | 4.19 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 12 | 4.19 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 2 | 4.19 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 8 | 4.19 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 4.19 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 14 | 4.19 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 14 | 4.19 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 14 | 4.19 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 14 | 4.19 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 14 | 4.19 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 14 | 4.19 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 14 | 4.19 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 14 | 4.19 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 14 | 4.19 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 14 | 4.19 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 14 | 4.19 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 14 | 4.19 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 13 | 4.19 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 10 | 4.18 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 7 | 4.18 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 7 | 4.18 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 6 | 4.18 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 6 | 4.18 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 9 | 4.18 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 9 | 4.18 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 14 | 4.18 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 14 | 4.18 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 7 | 4.18 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 7 | 4.18 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 8 | 4.18 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 8 | 4.18 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 10 | 4.18 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 10 | 4.18 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 10 | 4.18 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 10 | 4.18 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 10 | 4.18 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 10 | 4.18 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 6 | 4.18 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 6 | 4.18 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 20 | 4.18 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 20 | 4.18 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 13 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 13 | 4.18 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 2 | 4.18 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 2 | 4.18 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 2 | 4.18 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 2 | 4.18 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 2 | 4.18 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 2 | 4.18 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 18 | 4.18 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 18 | 4.18 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 9 | 4.18 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 9 | 4.18 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 8 | 4.18 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 8 | 4.18 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 8 | 4.18 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 8 | 4.18 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 19 | 4.18 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 19 | 4.18 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 13 | 4.18 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 13 | 4.18 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 18 | 4.18 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 18 | 4.18 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 5 | 4.18 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 5 | 4.18 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 10 | 4.18 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 10 | 4.18 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 18 | 4.18 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 18 | 4.18 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 18 | 4.18 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 18 | 4.18 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 18 | 4.18 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 18 | 4.18 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 18 | 4.18 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 18 | 4.18 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 13 | 4.18 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 13 | 4.18 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 5 | 4.18 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 5 | 4.18 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 5 | 4.18 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 5 | 4.18 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 17 | 4.18 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 17 | 4.18 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 17 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 17 | 4.18 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 1 | 4.18 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 1 | 4.18 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 10 | 4.18 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 10 | 4.18 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 16 | 4.18 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 16 | 4.18 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 18 | 4.18 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 18 | 4.18 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 11 | 4.18 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 11 | 4.18 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 11 | 4.18 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 11 | 4.18 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 11 | 4.18 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 11 | 4.18 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 11 | 4.18 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 11 | 4.18 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 11 | 4.18 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 1 | 4.18 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 1 | 4.18 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 1 | 4.18 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 8 | 4.18 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 8 | 4.18 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 8 | 4.18 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 10 | 4.18 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 16 | 4.18 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 2 | 4.18 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 2 | 4.18 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 2 | 4.18 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 2 | 4.18 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 2 | 4.18 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 2 | 4.18 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 8 | 4.18 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 8 | 4.18 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 13 | 4.18 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 13 | 4.18 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 20 | 4.18 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 20 | 4.18 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 20 | 4.18 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 17 | 4.18 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 17 | 4.18 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 17 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 20 | 4.18 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 11 | 4.18 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 19 | 4.18 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 19 | 4.18 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 5 | 4.18 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 2 | 4.18 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 2 | 4.18 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 20 | 4.18 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 20 | 4.18 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 20 | 4.18 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 12 | 4.18 |
| (1,8165) | 1:98:A:SER:HA | 1:100:A:GLU:H | 1 | 4.18 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 5 | 4.18 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 5 | 4.18 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 5 | 4.18 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 12 | 4.18 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 7 | 4.18 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 7 | 4.18 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 15 | 4.18 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 15 | 4.18 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 15 | 4.18 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 15 | 4.18 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 14 | 4.18 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 18 | 4.18 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 7 | 4.18 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 7 | 4.18 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 1 | 4.18 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 9 | 4.18 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 2 | 4.18 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 1 | 4.18 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 1 | 4.18 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 8 | 4.18 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 8 | 4.18 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 2 | 4.18 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 16 | 4.18 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 16 | 4.18 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 16 | 4.18 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 6 | 4.18 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 6 | 4.18 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 6 | 4.18 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 10 | 4.18 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 12 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 11 | 4.18 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 11 | 4.18 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 11 | 4.18 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 11 | 4.18 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 11 | 4.18 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 11 | 4.18 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 20 | 4.18 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 8 | 4.18 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 9 | 4.18 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 8 | 4.18 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 10 | 4.18 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 19 | 4.18 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 19 | 4.18 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 19 | 4.18 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 17 | 4.18 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 17 | 4.18 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 17 | 4.18 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 17 | 4.18 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 17 | 4.18 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 17 | 4.18 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 17 | 4.18 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 17 | 4.18 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 17 | 4.18 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 12 | 4.18 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 9 | 4.18 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 9 | 4.18 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 8 | 4.18 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 8 | 4.18 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 5 | 4.18 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 5 | 4.18 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 7 | 4.18 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 7 | 4.18 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 7 | 4.18 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 9 | 4.18 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 9 | 4.18 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 9 | 4.18 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 15 | 4.18 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 10 | 4.18 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 10 | 4.18 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 10 | 4.18 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 20 | 4.18 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 20 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 20 | 4.18 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 20 | 4.18 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 20 | 4.18 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 20 | 4.18 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 12 | 4.18 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 12 | 4.18 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 12 | 4.18 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 6 | 4.18 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 9 | 4.18 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 20 | 4.18 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 20 | 4.18 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 20 | 4.18 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 20 | 4.18 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 20 | 4.18 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 20 | 4.18 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 20 | 4.18 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 20 | 4.18 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 20 | 4.18 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 20 | 4.18 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 20 | 4.18 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 20 | 4.18 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 12 | 4.18 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 12 | 4.18 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 12 | 4.18 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 14 | 4.18 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 14 | 4.18 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 14 | 4.18 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 2 | 4.18 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 6 | 4.18 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 6 | 4.18 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 6 | 4.18 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 11 | 4.18 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 11 | 4.18 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 11 | 4.18 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 8 | 4.18 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 8 | 4.18 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 17 | 4.18 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 17 | 4.18 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 14 | 4.18 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 19 | 4.18 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 19 | 4.18 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 19 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 11 | 4.18 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 14 | 4.18 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 14 | 4.18 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 14 | 4.18 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 14 | 4.18 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 14 | 4.18 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 14 | 4.18 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 14 | 4.18 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 14 | 4.18 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 14 | 4.18 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 11 | 4.18 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 9 | 4.18 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 17 | 4.18 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 19 | 4.18 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 16 | 4.18 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 10 | 4.18 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 10 | 4.18 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 10 | 4.18 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 5 | 4.18 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 2 | 4.18 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 2 | 4.18 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 2 | 4.18 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 7 | 4.18 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 7 | 4.18 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 7 | 4.18 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 4 | 4.18 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 4 | 4.18 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 4 | 4.18 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 2 | 4.18 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 2 | 4.18 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 2 | 4.18 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 11 | 4.18 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 11 | 4.18 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 11 | 4.18 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 11 | 4.18 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 11 | 4.18 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 11 | 4.18 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 11 | 4.18 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 11 | 4.18 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 11 | 4.18 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 1 | 4.18 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 2 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 2 | 4.18 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 2 | 4.18 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 3 | 4.18 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 3 | 4.18 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 3 | 4.18 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 18 | 4.18 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 18 | 4.18 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 18 | 4.18 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 3 | 4.18 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 3 | 4.18 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 3 | 4.18 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 6 | 4.18 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 6 | 4.18 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 6 | 4.18 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 6 | 4.18 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 6 | 4.18 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 6 | 4.18 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 6 | 4.18 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 6 | 4.18 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 6 | 4.18 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 3 | 4.18 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 3 | 4.18 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 5 | 4.18 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 16 | 4.18 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 10 | 4.18 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 7 | 4.18 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 7 | 4.18 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 7 | 4.18 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 15 | 4.18 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 3 | 4.18 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 7 | 4.18 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 7 | 4.18 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 7 | 4.18 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 8 | 4.18 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 10 | 4.18 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 3 | 4.18 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 8 | 4.18 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 11 | 4.18 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 14 | 4.18 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 6 | 4.18 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 6 | 4.18 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 6 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 6 | 4.18 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 6 | 4.18 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 6 | 4.18 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 16 | 4.18 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 16 | 4.18 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 16 | 4.18 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 16 | 4.18 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 16 | 4.18 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 16 | 4.18 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 7 | 4.18 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 6 | 4.18 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 6 | 4.18 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 6 | 4.18 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 16 | 4.18 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 13 | 4.18 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 20 | 4.18 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 1 | 4.18 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 1 | 4.18 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 1 | 4.18 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 8 | 4.18 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 19 | 4.18 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 11 | 4.18 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 11 | 4.18 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 11 | 4.18 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 1 | 4.18 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 1 | 4.18 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 1 | 4.18 |
| (1,4804) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 10 | 4.18 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 3 | 4.18 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 3 | 4.18 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 3 | 4.18 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 6 | 4.18 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 6 | 4.18 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 6 | 4.18 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 11 | 4.18 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 18 | 4.18 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 9 | 4.18 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 9 | 4.18 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 9 | 4.18 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 7 | 4.18 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 7 | 4.18 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 7 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 12 | 4.18 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 12 | 4.18 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 12 | 4.18 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 4 | 4.18 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 4 | 4.18 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 4 | 4.18 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 2 | 4.18 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 2 | 4.18 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 10 | 4.18 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 6 | 4.18 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 6 | 4.18 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 1 | 4.18 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 1 | 4.18 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 1 | 4.18 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 13 | 4.18 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 13 | 4.18 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 12 | 4.18 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 12 | 4.18 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 12 | 4.18 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 12 | 4.18 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 12 | 4.18 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 12 | 4.18 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 14 | 4.18 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 14 | 4.18 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 11 | 4.18 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 11 | 4.18 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 11 | 4.18 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 11 | 4.18 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 10 | 4.18 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 10 | 4.18 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 10 | 4.18 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 10 | 4.18 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 10 | 4.18 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 10 | 4.18 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 6 | 4.18 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 6 | 4.18 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 4.18 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 4.18 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 4.18 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 4.18 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 4.18 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 4.18 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 4.18 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 4.18 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 16 | 4.18 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 9 | 4.18 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 18 | 4.18 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 12 | 4.18 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 12 | 4.18 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 12 | 4.18 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 13 | 4.18 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 13 | 4.18 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 13 | 4.18 |
| (1,4060) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 14 | 4.18 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 9 | 4.18 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 9 | 4.18 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 4.18 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 8 | 4.18 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 8 | 4.18 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 18 | 4.18 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 18 | 4.18 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 18 | 4.18 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 18 | 4.18 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 18 | 4.18 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 9 | 4.18 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 9 | 4.18 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 9 | 4.18 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 10 | 4.18 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 10 | 4.18 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 18 | 4.18 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 18 | 4.18 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 18 | 4.18 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 18 | 4.18 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 18 | 4.18 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 18 | 4.18 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 3 | 4.18 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 3 | 4.18 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 8 | 4.18 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 8 | 4.18 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 14 | 4.18 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 14 | 4.18 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 14 | 4.18 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 17 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 4.18 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 17 | 4.18 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 17 | 4.18 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 4.18 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 17 | 4.18 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 14 | 4.18 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 14 | 4.18 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 14 | 4.18 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 13 | 4.18 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 13 | 4.18 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 16 | 4.18 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 16 | 4.18 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 18 | 4.18 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 18 | 4.18 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 20 | 4.18 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 20 | 4.18 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 20 | 4.18 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 20 | 4.18 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 20 | 4.18 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 20 | 4.18 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 20 | 4.18 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 20 | 4.18 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 20 | 4.18 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 11 | 4.18 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 15 | 4.18 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 15 | 4.18 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 15 | 4.18 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 6 | 4.18 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 6 | 4.18 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 6 | 4.18 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 20 | 4.18 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 20 | 4.18 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 20 | 4.18 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 12 | 4.18 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 12 | 4.18 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 12 | 4.18 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 14 | 4.18 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 14 | 4.18 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 14 | 4.18 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 2 | 4.18 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 6 | 4.18 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 6 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 6 | 4.18 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 13 | 4.18 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 11 | 4.18 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 11 | 4.18 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 11 | 4.18 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 19 | 4.18 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 13 | 4.18 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 8 | 4.18 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 8 | 4.18 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 17 | 4.18 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 17 | 4.18 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 14 | 4.18 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 19 | 4.18 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 19 | 4.18 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 19 | 4.18 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 11 | 4.18 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 14 | 4.18 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 14 | 4.18 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 14 | 4.18 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 14 | 4.18 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 14 | 4.18 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 14 | 4.18 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 14 | 4.18 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 14 | 4.18 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 14 | 4.18 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 11 | 4.18 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 11 | 4.18 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 11 | 4.18 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 11 | 4.18 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 9 | 4.18 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 17 | 4.18 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 19 | 4.18 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 16 | 4.18 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 10 | 4.18 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 10 | 4.18 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 10 | 4.18 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 8 | 4.18 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 4 | 4.18 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 5 | 4.18 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 2 | 4.18 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 2 | 4.18 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 2 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 7 | 4.18 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 7 | 4.18 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 7 | 4.18 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 4 | 4.18 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 4 | 4.18 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 4 | 4.18 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 2 | 4.18 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 14 | 4.18 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 2 | 4.18 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 2 | 4.18 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 2 | 4.18 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 11 | 4.18 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 11 | 4.18 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 11 | 4.18 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 11 | 4.18 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 11 | 4.18 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 11 | 4.18 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 11 | 4.18 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 11 | 4.18 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 11 | 4.18 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 1 | 4.18 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 2 | 4.18 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 2 | 4.18 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 2 | 4.18 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 3 | 4.18 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 3 | 4.18 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 3 | 4.18 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 18 | 4.18 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 18 | 4.18 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 18 | 4.18 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 16 | 4.18 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 16 | 4.18 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 16 | 4.18 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 3 | 4.18 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 3 | 4.18 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 3 | 4.18 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 14 | 4.18 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 14 | 4.18 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 14 | 4.18 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 3 | 4.18 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 12 | 4.18 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 12 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 12 | 4.18 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 6 | 4.18 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 6 | 4.18 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 6 | 4.18 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 6 | 4.18 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 6 | 4.18 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 6 | 4.18 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 6 | 4.18 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 6 | 4.18 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 6 | 4.18 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 6 | 4.18 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 6 | 4.18 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 6 | 4.18 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 6 | 4.18 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 3 | 4.18 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 3 | 4.18 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 10 | 4.18 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 5 | 4.18 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 1 | 4.18 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 16 | 4.18 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 10 | 4.18 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 12 | 4.18 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 7 | 4.18 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 7 | 4.18 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 7 | 4.18 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 15 | 4.18 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 3 | 4.18 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 4.18 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 13 | 4.18 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 7 | 4.18 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 7 | 4.18 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 7 | 4.18 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 8 | 4.18 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 10 | 4.18 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 3 | 4.18 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 8 | 4.18 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 11 | 4.18 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 13 | 4.18 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 14 | 4.18 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 6 | 4.18 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 6 | 4.18 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 6 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 6 | 4.18 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 6 | 4.18 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 6 | 4.18 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 6 | 4.18 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 6 | 4.18 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 6 | 4.18 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 16 | 4.18 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 16 | 4.18 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 16 | 4.18 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 16 | 4.18 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 16 | 4.18 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 16 | 4.18 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 4 | 4.18 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 4 | 4.18 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 4 | 4.18 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 4 | 4.18 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 4 | 4.18 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 4 | 4.18 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 4 | 4.18 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 1 | 4.18 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 1 | 4.18 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 1 | 4.18 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 12 | 4.18 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 17 | 4.18 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 8 | 4.17 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 7 | 4.17 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 7 | 4.17 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 14 | 4.17 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 19 | 4.17 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 19 | 4.17 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 8 | 4.17 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 8 | 4.17 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 19 | 4.17 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 19 | 4.17 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 18 | 4.17 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 18 | 4.17 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 3 | 4.17 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 3 | 4.17 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 3 | 4.17 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 3 | 4.17 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 3 | 4.17 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 3 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 2 | 4.17 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 2 | 4.17 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 2 | 4.17 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 2 | 4.17 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 5 | 4.17 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 5 | 4.17 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 17 | 4.17 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 17 | 4.17 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB2 | 16 | 4.17 |
| (1,9503) | 1:135:A:GLU:H | 1:136:A:ASP:HB3 | 16 | 4.17 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 2 | 4.17 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 2 | 4.17 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB2 | 18 | 4.17 |
| (1,9449) | 1:130:A:MET:H | 1:134:A:PHE:HB3 | 18 | 4.17 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 8 | 4.17 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 8 | 4.17 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 8 | 4.17 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 8 | 4.17 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 9 | 4.17 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 9 | 4.17 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 9 | 4.17 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 9 | 4.17 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 1 | 4.17 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 1 | 4.17 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 17 | 4.17 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 17 | 4.17 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 17 | 4.17 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 17 | 4.17 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 13 | 4.17 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 13 | 4.17 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 4.17 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 4.17 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 6 | 4.17 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 6 | 4.17 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 6 | 4.17 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 6 | 4.17 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 16 | 4.17 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 16 | 4.17 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 19 | 4.17 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 19 | 4.17 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 4.17 |
| (1,9155) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 9 | 4.17 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 9 | 4.17 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 8 | 4.17 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 8 | 4.17 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 14 | 4.17 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 14 | 4.17 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 7 | 4.17 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 7 | 4.17 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 7 | 4.17 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 7 | 4.17 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 7 | 4.17 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 7 | 4.17 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 2 | 4.17 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 2 | 4.17 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 2 | 4.17 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 2 | 4.17 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 2 | 4.17 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 2 | 4.17 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 16 | 4.17 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 16 | 4.17 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 15 | 4.17 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 15 | 4.17 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 11 | 4.17 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 11 | 4.17 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 2 | 4.17 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 2 | 4.17 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 13 | 4.17 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 13 | 4.17 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 19 | 4.17 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 19 | 4.17 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 19 | 4.17 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 19 | 4.17 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 19 | 4.17 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 19 | 4.17 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 19 | 4.17 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 19 | 4.17 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 7 | 4.17 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 7 | 4.17 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 9 | 4.17 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 9 | 4.17 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 3 | 4.17 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 3 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 15 | 4.17 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 15 | 4.17 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB2 | 6 | 4.17 |
| (1,8644) | 1:29:A:THR:H | 1:30:A:ASN:HB3 | 6 | 4.17 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 4 | 4.17 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 4 | 4.17 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 4 | 4.17 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 4 | 4.17 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 7 | 4.17 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 7 | 4.17 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 9 | 4.17 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 9 | 4.17 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 4 | 4.17 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 4 | 4.17 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 9 | 4.17 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 9 | 4.17 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 9 | 4.17 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 9 | 4.17 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 1 | 4.17 |
| (1,8545) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 1 | 4.17 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 6 | 4.17 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 6 | 4.17 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 6 | 4.17 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 3 | 4.17 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 3 | 4.17 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 3 | 4.17 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 7 | 4.17 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 7 | 4.17 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 7 | 4.17 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 11 | 4.17 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 11 | 4.17 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 11 | 4.17 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 17 | 4.17 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 17 | 4.17 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 6 | 4.17 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 6 | 4.17 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 9 | 4.17 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 9 | 4.17 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 9 | 4.17 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 16 | 4.17 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 10 | 4.17 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 10 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 15 | 4.17 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 6 | 4.17 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 15 | 4.17 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 10 | 4.17 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 1 | 4.17 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 11 | 4.17 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 5 | 4.17 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 6 | 4.17 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 6 | 4.17 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 6 | 4.17 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 6 | 4.17 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 6 | 4.17 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 6 | 4.17 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 6 | 4.17 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 6 | 4.17 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 6 | 4.17 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 2 | 4.17 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 2 | 4.17 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 2 | 4.17 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 3 | 4.17 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 3 | 4.17 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 3 | 4.17 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 3 | 4.17 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 3 | 4.17 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 3 | 4.17 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 3 | 4.17 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 3 | 4.17 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 3 | 4.17 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 2 | 4.17 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 19 | 4.17 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 8 | 4.17 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 19 | 4.17 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 17 | 4.17 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 17 | 4.17 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 17 | 4.17 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 2 | 4.17 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 2 | 4.17 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 9 | 4.17 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 5 | 4.17 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 13 | 4.17 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 13 | 4.17 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 13 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 13 | 4.17 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 13 | 4.17 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 13 | 4.17 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 13 | 4.17 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 13 | 4.17 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 13 | 4.17 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 7 | 4.17 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 7 | 4.17 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 7 | 4.17 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 7 | 4.17 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 7 | 4.17 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 7 | 4.17 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 7 | 4.17 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 7 | 4.17 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 7 | 4.17 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 4 | 4.17 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 4 | 4.17 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 4 | 4.17 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 4 | 4.17 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 4 | 4.17 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 4 | 4.17 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 4 | 4.17 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 4 | 4.17 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 4 | 4.17 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB2 | 2 | 4.17 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB2 | 2 | 4.17 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB2 | 2 | 4.17 |
| (1,7812) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HB3 | 2 | 4.17 |
| (1,7812) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HB3 | 2 | 4.17 |
| (1,7812) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HB3 | 2 | 4.17 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 16 | 4.17 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 14 | 4.17 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 13 | 4.17 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 13 | 4.17 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 13 | 4.17 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 18 | 4.17 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 3 | 4.17 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 6 | 4.17 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 6 | 4.17 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 6 | 4.17 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 12 | 4.17 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 12 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 12 | 4.17 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 14 | 4.17 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 14 | 4.17 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 14 | 4.17 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 20 | 4.17 |
| (1,7649) | 1:29:A:THR:HA | 1:31:A:ALA:H | 7 | 4.17 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 2 | 4.17 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 2 | 4.17 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 2 | 4.17 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 2 | 4.17 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 15 | 4.17 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 14 | 4.17 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 8 | 4.17 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 11 | 4.17 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 11 | 4.17 |
| (1,7484) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 11 | 4.17 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 13 | 4.17 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 13 | 4.17 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 13 | 4.17 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 13 | 4.17 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 13 | 4.17 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 13 | 4.17 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 6 | 4.17 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 4 | 4.17 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 4 | 4.17 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 19 | 4.17 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 7 | 4.17 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 16 | 4.17 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 16 | 4.17 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 19 | 4.17 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 19 | 4.17 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 4 | 4.17 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 10 | 4.17 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 12 | 4.17 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 15 | 4.17 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 2 | 4.17 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 16 | 4.17 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 16 | 4.17 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 1 | 4.17 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 1 | 4.17 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 1 | 4.17 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 15 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 15 | 4.17 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 18 | 4.17 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 18 | 4.17 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 2 | 4.17 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 2 | 4.17 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 2 | 4.17 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 11 | 4.17 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 11 | 4.17 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 11 | 4.17 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 20 | 4.17 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 14 | 4.17 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 14 | 4.17 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 7 | 4.17 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 7 | 4.17 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 2 | 4.17 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 2 | 4.17 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 2 | 4.17 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 2 | 4.17 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 2 | 4.17 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 2 | 4.17 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 2 | 4.17 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 2 | 4.17 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 2 | 4.17 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 2 | 4.17 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 2 | 4.17 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 2 | 4.17 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 2 | 4.17 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 8 | 4.17 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 8 | 4.17 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 20 | 4.17 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 20 | 4.17 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 3 | 4.17 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 12 | 4.17 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 20 | 4.17 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 6 | 4.17 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 6 | 4.17 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 6 | 4.17 |
| (1,6478) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 19 | 4.17 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 3 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 1 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 1 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 1 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 10 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 10 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 10 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 11 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 11 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 11 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 17 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 17 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 17 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 19 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 19 | 4.17 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 19 | 4.17 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 19 | 4.17 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 18 | 4.17 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 18 | 4.17 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 18 | 4.17 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 12 | 4.17 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 14 | 4.17 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 18 | 4.17 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 18 | 4.17 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 18 | 4.17 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 13 | 4.17 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 13 | 4.17 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 2 | 4.17 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 2 | 4.17 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 2 | 4.17 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 7 | 4.17 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 4.17 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 1 | 4.17 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 1 | 4.17 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 1 | 4.17 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 1 | 4.17 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 8 | 4.17 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 8 | 4.17 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 8 | 4.17 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 12 | 4.17 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 12 | 4.17 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 17 | 4.17 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 2 | 4.17 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 4.17 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 10 | 4.17 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 1 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 10 | 4.17 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 7 | 4.17 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 7 | 4.17 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 7 | 4.17 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 7 | 4.17 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 7 | 4.17 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 7 | 4.17 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 7 | 4.17 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 7 | 4.17 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 7 | 4.17 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 8 | 4.17 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 8 | 4.17 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 8 | 4.17 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 13 | 4.17 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 1 | 4.17 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 10 | 4.17 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 19 | 4.17 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 8 | 4.17 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 8 | 4.17 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 8 | 4.17 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 18 | 4.17 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 15 | 4.17 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 1 | 4.17 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 15 | 4.17 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 4 | 4.17 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 14 | 4.17 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 4 | 4.17 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 1 | 4.17 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 1 | 4.17 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 1 | 4.17 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 11 | 4.17 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 11 | 4.17 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 11 | 4.17 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 5 | 4.17 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 5 | 4.17 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 5 | 4.17 |
| (1,5069) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 8 | 4.17 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 7 | 4.17 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 16 | 4.17 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 16 | 4.17 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 12 | 4.17 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 12 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 16 | 4.17 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 19 | 4.17 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 19 | 4.17 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 19 | 4.17 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 6 | 4.17 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 6 | 4.17 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 6 | 4.17 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 6 | 4.17 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 6 | 4.17 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 6 | 4.17 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 6 | 4.17 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 6 | 4.17 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 6 | 4.17 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 3 | 4.17 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 3 | 4.17 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 3 | 4.17 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 6 | 4.17 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 6 | 4.17 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 6 | 4.17 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 14 | 4.17 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 14 | 4.17 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 14 | 4.17 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 15 | 4.17 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 15 | 4.17 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 15 | 4.17 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 18 | 4.17 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 2 | 4.17 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 3 | 4.17 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 7 | 4.17 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 7 | 4.17 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 17 | 4.17 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 17 | 4.17 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 17 | 4.17 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 14 | 4.17 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 14 | 4.17 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 14 | 4.17 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 14 | 4.17 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 2 | 4.17 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 2 | 4.17 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 5 | 4.17 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 4 | 4.17 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 13 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 13 | 4.17 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 4.17 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 4.17 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 6 | 4.17 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 6 | 4.17 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 6 | 4.17 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 6 | 4.17 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 9 | 4.17 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 9 | 4.17 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 17 | 4.17 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 17 | 4.17 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 11 | 4.17 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 14 | 4.17 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 14 | 4.17 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 14 | 4.17 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 4.17 |
| (1,4120) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 4.17 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 13 | 4.17 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 13 | 4.17 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 13 | 4.17 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 13 | 4.17 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 13 | 4.17 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 13 | 4.17 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 14 | 4.17 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 14 | 4.17 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 7 | 4.17 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 7 | 4.17 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 7 | 4.17 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 7 | 4.17 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 7 | 4.17 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 7 | 4.17 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 4 | 4.17 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 1 | 4.17 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 4 | 4.17 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 2 | 4.17 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 2 | 4.17 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 2 | 4.17 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 2 | 4.17 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 2 | 4.17 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 2 | 4.17 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 18 | 4.17 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 18 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 18 | 4.17 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 18 | 4.17 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 18 | 4.17 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 18 | 4.17 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 2 | 4.17 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 2 | 4.17 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 2 | 4.17 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 2 | 4.17 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 2 | 4.17 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 2 | 4.17 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 9 | 4.17 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 9 | 4.17 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 9 | 4.17 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 11 | 4.17 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 11 | 4.17 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 1 | 4.17 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 19 | 4.17 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 19 | 4.17 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 7 | 4.17 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 7 | 4.17 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 9 | 4.17 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 9 | 4.17 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 5 | 4.17 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 3 | 4.17 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 3 | 4.17 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 3 | 4.17 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 12 | 4.17 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 12 | 4.17 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 12 | 4.17 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 12 | 4.17 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 15 | 4.17 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 15 | 4.17 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 8 | 4.17 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 4.17 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 4.17 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 7 | 4.17 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 7 | 4.17 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 17 | 4.17 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 17 | 4.17 |
| (1,3510) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 14 | 4.17 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 9 | 4.17 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 9 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 9 | 4.17 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 9 | 4.17 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 9 | 4.17 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 9 | 4.17 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 19 | 4.17 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 7 | 4.17 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 16 | 4.17 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 16 | 4.17 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 19 | 4.17 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 19 | 4.17 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 4 | 4.17 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 10 | 4.17 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 12 | 4.17 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 15 | 4.17 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 2 | 4.17 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 16 | 4.17 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 16 | 4.17 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 1 | 4.17 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 1 | 4.17 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 1 | 4.17 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 18 | 4.17 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 15 | 4.17 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 15 | 4.17 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 18 | 4.17 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 18 | 4.17 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 2 | 4.17 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 2 | 4.17 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 2 | 4.17 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 11 | 4.17 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 11 | 4.17 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 11 | 4.17 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 20 | 4.17 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 14 | 4.17 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 14 | 4.17 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 7 | 4.17 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 7 | 4.17 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 2 | 4.17 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 2 | 4.17 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 2 | 4.17 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 2 | 4.17 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 2 | 4.17 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 2 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 2 | 4.17 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 2 | 4.17 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 2 | 4.17 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 2 | 4.17 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 2 | 4.17 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 2 | 4.17 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 2 | 4.17 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 8 | 4.17 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 8 | 4.17 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 20 | 4.17 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 20 | 4.17 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 19 | 4.17 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 3 | 4.17 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 12 | 4.17 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 20 | 4.17 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 6 | 4.17 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 6 | 4.17 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 6 | 4.17 |
| (1,2260) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 19 | 4.17 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 19 | 4.17 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 3 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 1 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 1 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 1 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 10 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 10 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 10 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 11 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 11 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 11 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 17 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 17 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 17 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 19 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 19 | 4.17 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 19 | 4.17 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 19 | 4.17 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 14 | 4.17 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 14 | 4.17 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 14 | 4.17 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 18 | 4.17 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 18 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 18 | 4.17 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 20 | 4.17 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 20 | 4.17 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 20 | 4.17 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 18 | 4.17 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 18 | 4.17 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 18 | 4.17 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 11 | 4.17 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 12 | 4.17 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 14 | 4.17 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 18 | 4.17 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 18 | 4.17 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 18 | 4.17 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 4.17 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 4.17 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 4.17 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 13 | 4.17 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 13 | 4.17 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 2 | 4.17 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 2 | 4.17 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 2 | 4.17 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 7 | 4.17 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 4.17 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 1 | 4.17 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 1 | 4.17 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 1 | 4.17 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 1 | 4.17 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 8 | 4.17 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 8 | 4.17 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 8 | 4.17 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 12 | 4.17 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 12 | 4.17 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 2 | 4.17 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 5 | 4.17 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 18 | 4.17 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 16 | 4.17 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 16 | 4.17 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 16 | 4.17 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 16 | 4.17 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 12 | 4.17 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 12 | 4.17 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 3 | 4.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 3 | 4.17 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 3 | 4.17 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 17 | 4.17 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 8 | 4.17 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 7 | 4.17 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 2 | 4.17 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 4.17 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 18 | 4.17 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 18 | 4.17 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 10 | 4.17 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 18 | 4.17 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 18 | 4.17 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 18 | 4.17 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 18 | 4.17 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 18 | 4.17 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 18 | 4.17 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 6 | 4.17 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 16 | 4.16 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 16 | 4.16 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 16 | 4.16 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 16 | 4.16 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 16 | 4.16 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 16 | 4.16 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 1 | 4.16 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 1 | 4.16 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 16 | 4.16 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 16 | 4.16 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 16 | 4.16 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 16 | 4.16 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 19 | 4.16 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 19 | 4.16 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 9 | 4.16 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 9 | 4.16 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 9 | 4.16 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 9 | 4.16 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 3 | 4.16 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 3 | 4.16 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 4 | 4.16 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 4 | 4.16 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 10 | 4.16 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 10 | 4.16 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 10 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 10 | 4.16 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 10 | 4.16 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 10 | 4.16 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 4 | 4.16 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 4 | 4.16 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 9 | 4.16 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 9 | 4.16 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 9 | 4.16 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 9 | 4.16 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 9 | 4.16 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 9 | 4.16 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 18 | 4.16 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 18 | 4.16 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 11 | 4.16 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 11 | 4.16 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 11 | 4.16 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 11 | 4.16 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 13 | 4.16 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 13 | 4.16 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 16 | 4.16 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 16 | 4.16 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 1 | 4.16 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 1 | 4.16 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 1 | 4.16 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 1 | 4.16 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 1 | 4.16 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 1 | 4.16 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 5 | 4.16 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 5 | 4.16 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 15 | 4.16 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 15 | 4.16 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 2 | 4.16 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 2 | 4.16 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 2 | 4.16 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 2 | 4.16 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 1 | 4.16 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 1 | 4.16 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 8 | 4.16 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 8 | 4.16 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 8 | 4.16 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 8 | 4.16 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 8 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 8 | 4.16 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 4 | 4.16 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 4 | 4.16 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 5 | 4.16 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 5 | 4.16 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 3 | 4.16 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 3 | 4.16 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 4 | 4.16 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 4 | 4.16 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 4 | 4.16 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 4 | 4.16 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 13 | 4.16 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 13 | 4.16 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 3 | 4.16 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 3 | 4.16 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 3 | 4.16 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 3 | 4.16 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 3 | 4.16 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 3 | 4.16 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 7 | 4.16 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 7 | 4.16 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 9 | 4.16 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 9 | 4.16 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 6 | 4.16 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 6 | 4.16 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 18 | 4.16 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 18 | 4.16 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 18 | 4.16 |
| (1,8653) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 18 | 4.16 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 8 | 4.16 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 8 | 4.16 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 8 | 4.16 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 8 | 4.16 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 14 | 4.16 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 14 | 4.16 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 1 | 4.16 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 1 | 4.16 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 6 | 4.16 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 6 | 4.16 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 13 | 4.16 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 13 | 4.16 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 13 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 12 | 4.16 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 13 | 4.16 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 13 | 4.16 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 13 | 4.16 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 14 | 4.16 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 16 | 4.16 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 16 | 4.16 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 8 | 4.16 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 15 | 4.16 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 15 | 4.16 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 15 | 4.16 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 9 | 4.16 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 9 | 4.16 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 9 | 4.16 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 12 | 4.16 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 12 | 4.16 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 12 | 4.16 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 16 | 4.16 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 16 | 4.16 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 16 | 4.16 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 19 | 4.16 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 9 | 4.16 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 9 | 4.16 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 6 | 4.16 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 20 | 4.16 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 20 | 4.16 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 18 | 4.16 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 18 | 4.16 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 8 | 4.16 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 9 | 4.16 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 9 | 4.16 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 9 | 4.16 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 17 | 4.16 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 17 | 4.16 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 17 | 4.16 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 3 | 4.16 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 15 | 4.16 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 1 | 4.16 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 1 | 4.16 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 1 | 4.16 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 18 | 4.16 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 13 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 13 | 4.16 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 10 | 4.16 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 10 | 4.16 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 1 | 4.16 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 12 | 4.16 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 16 | 4.16 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 16 | 4.16 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 16 | 4.16 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 16 | 4.16 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 16 | 4.16 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 16 | 4.16 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 16 | 4.16 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 16 | 4.16 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 16 | 4.16 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 20 | 4.16 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 2 | 4.16 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 2 | 4.16 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 2 | 4.16 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 17 | 4.16 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 11 | 4.16 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 11 | 4.16 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 19 | 4.16 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 19 | 4.16 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 19 | 4.16 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 19 | 4.16 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 2 | 4.16 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 7 | 4.16 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 18 | 4.16 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 2 | 4.16 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 12 | 4.16 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 4 | 4.16 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 19 | 4.16 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 19 | 4.16 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 19 | 4.16 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 19 | 4.16 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 19 | 4.16 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 19 | 4.16 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 19 | 4.16 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 19 | 4.16 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 19 | 4.16 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 5 | 4.16 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 5 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 5 | 4.16 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 12 | 4.16 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 12 | 4.16 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 2 | 4.16 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 2 | 4.16 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 4 | 4.16 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 14 | 4.16 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 18 | 4.16 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 18 | 4.16 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 4 | 4.16 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 6 | 4.16 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 6 | 4.16 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 15 | 4.16 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 10 | 4.16 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 10 | 4.16 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 10 | 4.16 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 6 | 4.16 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 6 | 4.16 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 6 | 4.16 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 16 | 4.16 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 16 | 4.16 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 2 | 4.16 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 2 | 4.16 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 2 | 4.16 |
| (1,7389) | 1:2:A:ALA:HB1 | 1:3:A:ASP:HA | 11 | 4.16 |
| (1,7389) | 1:2:A:ALA:HB2 | 1:3:A:ASP:HA | 11 | 4.16 |
| (1,7389) | 1:2:A:ALA:HB3 | 1:3:A:ASP:HA | 11 | 4.16 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 2 | 4.16 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 2 | 4.16 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 2 | 4.16 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 8 | 4.16 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 8 | 4.16 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 8 | 4.16 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 10 | 4.16 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 10 | 4.16 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 2 | 4.16 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 7 | 4.16 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 11 | 4.16 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 11 | 4.16 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 5 | 4.16 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 5 | 4.16 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 5 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 9 | 4.16 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 1 | 4.16 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 5 | 4.16 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 5 | 4.16 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 11 | 4.16 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 14 | 4.16 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 14 | 4.16 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 14 | 4.16 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 9 | 4.16 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 20 | 4.16 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 8 | 4.16 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 9 | 4.16 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 2 | 4.16 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 16 | 4.16 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 15 | 4.16 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 6 | 4.16 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 6 | 4.16 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 6 | 4.16 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 19 | 4.16 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 19 | 4.16 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 19 | 4.16 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 6 | 4.16 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 6 | 4.16 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 6 | 4.16 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 7 | 4.16 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 7 | 4.16 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 7 | 4.16 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 16 | 4.16 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 16 | 4.16 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 16 | 4.16 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 12 | 4.16 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 12 | 4.16 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 12 | 4.16 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 20 | 4.16 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 20 | 4.16 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 20 | 4.16 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 14 | 4.16 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 14 | 4.16 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 14 | 4.16 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 1 | 4.16 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 1 | 4.16 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 19 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 19 | 4.16 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 19 | 4.16 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 7 | 4.16 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 3 | 4.16 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 3 | 4.16 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 3 | 4.16 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 7 | 4.16 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 7 | 4.16 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 7 | 4.16 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 17 | 4.16 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 17 | 4.16 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 17 | 4.16 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 2 | 4.16 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 17 | 4.16 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 17 | 4.16 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 7 | 4.16 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 11 | 4.16 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 9 | 4.16 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 1 | 4.16 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 7 | 4.16 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 14 | 4.16 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 14 | 4.16 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 14 | 4.16 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 18 | 4.16 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 18 | 4.16 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 18 | 4.16 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 9 | 4.16 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 9 | 4.16 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 9 | 4.16 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 17 | 4.16 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 3 | 4.16 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 9 | 4.16 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 6 | 4.16 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 15 | 4.16 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 6 | 4.16 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 5 | 4.16 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 5 | 4.16 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 5 | 4.16 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 11 | 4.16 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 11 | 4.16 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 11 | 4.16 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 18 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 18 | 4.16 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 18 | 4.16 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 13 | 4.16 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 13 | 4.16 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 13 | 4.16 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 5 | 4.16 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 15 | 4.16 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 19 | 4.16 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 6 | 4.16 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 19 | 4.16 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 10 | 4.16 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 10 | 4.16 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 10 | 4.16 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 4 | 4.16 |
| (1,5324) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 8 | 4.16 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 18 | 4.16 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 18 | 4.16 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 18 | 4.16 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 19 | 4.16 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 19 | 4.16 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 19 | 4.16 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 16 | 4.16 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 1 | 4.16 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 1 | 4.16 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 1 | 4.16 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 4 | 4.16 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 19 | 4.16 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 19 | 4.16 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 19 | 4.16 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 20 | 4.16 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 20 | 4.16 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 18 | 4.16 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 18 | 4.16 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 18 | 4.16 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 8 | 4.16 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 8 | 4.16 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 8 | 4.16 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 14 | 4.16 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 14 | 4.16 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 3 | 4.16 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 3 | 4.16 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 3 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 19 | 4.16 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 17 | 4.16 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 17 | 4.16 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 17 | 4.16 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 14 | 4.16 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 14 | 4.16 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 14 | 4.16 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 6 | 4.16 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 7 | 4.16 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 7 | 4.16 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 7 | 4.16 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 20 | 4.16 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 20 | 4.16 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 20 | 4.16 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 10 | 4.16 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 10 | 4.16 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 10 | 4.16 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 3 | 4.16 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 3 | 4.16 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 4 | 4.16 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 14 | 4.16 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 14 | 4.16 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 14 | 4.16 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 5 | 4.16 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 5 | 4.16 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 5 | 4.16 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 5 | 4.16 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 5 | 4.16 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 5 | 4.16 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 1 | 4.16 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 1 | 4.16 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 13 | 4.16 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 13 | 4.16 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 13 | 4.16 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 17 | 4.16 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 17 | 4.16 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 17 | 4.16 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 9 | 4.16 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 9 | 4.16 |
| (1,4426) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 9 | 4.16 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 9 | 4.16 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 9 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 12 | 4.16 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 4 | 4.16 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 4 | 4.16 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 9 | 4.16 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 9 | 4.16 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 9 | 4.16 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 9 | 4.16 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 9 | 4.16 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 9 | 4.16 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 5 | 4.16 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 5 | 4.16 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 5 | 4.16 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 5 | 4.16 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 11 | 4.16 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 11 | 4.16 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 11 | 4.16 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 11 | 4.16 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 13 | 4.16 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 13 | 4.16 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 17 | 4.16 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 13 | 4.16 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 15 | 4.16 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 15 | 4.16 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 16 | 4.16 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 16 | 4.16 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 18 | 4.16 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 18 | 4.16 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 18 | 4.16 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 13 | 4.16 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 13 | 4.16 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 13 | 4.16 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 13 | 4.16 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 14 | 4.16 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 2 | 4.16 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 2 | 4.16 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 2 | 4.16 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 9 | 4.16 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 9 | 4.16 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 9 | 4.16 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 9 | 4.16 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 9 | 4.16 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 9 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 7 | 4.16 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 7 | 4.16 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 7 | 4.16 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 14 | 4.16 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 14 | 4.16 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 14 | 4.16 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 11 | 4.16 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 2 | 4.16 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 2 | 4.16 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 1 | 4.16 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 1 | 4.16 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 3 | 4.16 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 1 | 4.16 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 1 | 4.16 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 1 | 4.16 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 4 | 4.16 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 4 | 4.16 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 5 | 4.16 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 5 | 4.16 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 14 | 4.16 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 14 | 4.16 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 3 | 4.16 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 1 | 4.16 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 6 | 4.16 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 16 | 4.16 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 2 | 4.16 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 1 | 4.16 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 1 | 4.16 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 1 | 4.16 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 17 | 4.16 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 9 | 4.16 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 9 | 4.16 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 19 | 4.16 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 19 | 4.16 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 5 | 4.16 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 8 | 4.16 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 8 | 4.16 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 8 | 4.16 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 8 | 4.16 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 8 | 4.16 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 8 | 4.16 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 6 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 6 | 4.16 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 18 | 4.16 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 18 | 4.16 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 18 | 4.16 |
| (1,3626) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 18 | 4.16 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 13 | 4.16 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 13 | 4.16 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 8 | 4.16 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 8 | 4.16 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 8 | 4.16 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 8 | 4.16 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 13 | 4.16 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 13 | 4.16 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 7 | 4.16 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 6 | 4.16 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 6 | 4.16 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 3 | 4.16 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 2 | 4.16 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 8 | 4.16 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 7 | 4.16 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 11 | 4.16 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 11 | 4.16 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 5 | 4.16 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 5 | 4.16 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 5 | 4.16 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 9 | 4.16 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 1 | 4.16 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 16 | 4.16 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 5 | 4.16 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 5 | 4.16 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 11 | 4.16 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 14 | 4.16 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 14 | 4.16 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 14 | 4.16 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 9 | 4.16 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 6 | 4.16 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 20 | 4.16 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 8 | 4.16 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 9 | 4.16 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 2 | 4.16 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 7 | 4.16 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 7 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 7 | 4.16 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 16 | 4.16 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 9 | 4.16 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 10 | 4.16 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 15 | 4.16 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 6 | 4.16 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 6 | 4.16 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 6 | 4.16 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 19 | 4.16 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 19 | 4.16 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 19 | 4.16 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 6 | 4.16 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 6 | 4.16 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 6 | 4.16 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 7 | 4.16 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 7 | 4.16 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 7 | 4.16 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 16 | 4.16 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 16 | 4.16 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 16 | 4.16 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 12 | 4.16 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 12 | 4.16 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 12 | 4.16 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 20 | 4.16 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 20 | 4.16 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 20 | 4.16 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 14 | 4.16 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 14 | 4.16 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 14 | 4.16 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 1 | 4.16 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 1 | 4.16 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 17 | 4.16 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 17 | 4.16 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 17 | 4.16 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 3 | 4.16 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 3 | 4.16 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 3 | 4.16 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 19 | 4.16 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 19 | 4.16 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 19 | 4.16 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 7 | 4.16 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 3 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 3 | 4.16 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 3 | 4.16 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 7 | 4.16 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 7 | 4.16 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 7 | 4.16 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 17 | 4.16 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 17 | 4.16 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 17 | 4.16 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 2 | 4.16 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 17 | 4.16 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 17 | 4.16 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 5 | 4.16 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 5 | 4.16 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 5 | 4.16 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 16 | 4.16 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 7 | 4.16 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 11 | 4.16 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 9 | 4.16 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 1 | 4.16 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 7 | 4.16 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 2 | 4.16 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 2 | 4.16 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 2 | 4.16 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 14 | 4.16 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 14 | 4.16 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 14 | 4.16 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 5 | 4.16 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 5 | 4.16 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 18 | 4.16 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 18 | 4.16 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 18 | 4.16 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 9 | 4.16 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 9 | 4.16 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 9 | 4.16 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 17 | 4.16 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 5 | 4.16 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 5 | 4.16 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 5 | 4.16 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 20 | 4.16 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 3 | 4.16 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 11 | 4.16 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 14 | 4.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 3 | 4.16 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 9 | 4.16 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 6 | 4.16 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 15 | 4.16 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 19 | 4.16 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 19 | 4.16 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 6 | 4.16 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 5 | 4.16 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 5 | 4.16 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 5 | 4.16 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 11 | 4.16 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 11 | 4.16 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 11 | 4.16 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 18 | 4.16 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 18 | 4.16 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 18 | 4.16 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 13 | 4.16 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 13 | 4.16 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 13 | 4.16 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 8 | 4.16 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 5 | 4.16 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 15 | 4.16 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 19 | 4.16 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 4 | 4.16 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 4 | 4.16 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 4 | 4.16 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 7 | 4.16 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 17 | 4.16 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 19 | 4.16 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 6 | 4.15 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 13 | 4.15 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 3 | 4.15 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 19 | 4.15 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 15 | 4.15 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 15 | 4.15 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 15 | 4.15 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 15 | 4.15 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 15 | 4.15 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 15 | 4.15 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 6 | 4.15 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 6 | 4.15 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 6 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 6 | 4.15 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 6 | 4.15 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 6 | 4.15 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 14 | 4.15 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 14 | 4.15 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 4 | 4.15 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 4 | 4.15 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 4.15 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 4.15 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 14 | 4.15 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 14 | 4.15 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 14 | 4.15 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 14 | 4.15 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 14 | 4.15 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 14 | 4.15 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 1 | 4.15 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 1 | 4.15 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 18 | 4.15 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 18 | 4.15 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 2 | 4.15 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 2 | 4.15 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 3 | 4.15 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 3 | 4.15 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 7 | 4.15 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 7 | 4.15 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 11 | 4.15 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 11 | 4.15 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 11 | 4.15 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 11 | 4.15 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 11 | 4.15 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 11 | 4.15 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 16 | 4.15 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 16 | 4.15 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 17 | 4.15 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 17 | 4.15 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 17 | 4.15 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 17 | 4.15 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 15 | 4.15 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 15 | 4.15 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 15 | 4.15 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 15 | 4.15 |
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 3 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9241) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 3 | 4.15 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 3 | 4.15 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 3 | 4.15 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 3 | 4.15 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 3 | 4.15 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 3 | 4.15 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 3 | 4.15 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 10 | 4.15 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 10 | 4.15 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 10 | 4.15 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 10 | 4.15 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 10 | 4.15 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 10 | 4.15 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 3 | 4.15 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 3 | 4.15 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 18 | 4.15 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 18 | 4.15 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 1 | 4.15 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 1 | 4.15 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 20 | 4.15 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 20 | 4.15 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 2 | 4.15 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 2 | 4.15 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 2 | 4.15 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 2 | 4.15 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 2 | 4.15 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 2 | 4.15 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 14 | 4.15 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 14 | 4.15 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 18 | 4.15 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 18 | 4.15 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 18 | 4.15 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 18 | 4.15 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 17 | 4.15 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 17 | 4.15 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 17 | 4.15 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 17 | 4.15 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 19 | 4.15 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 19 | 4.15 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 7 | 4.15 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 7 | 4.15 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 7 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 7 | 4.15 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 7 | 4.15 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 7 | 4.15 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 17 | 4.15 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 17 | 4.15 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 17 | 4.15 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 17 | 4.15 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 18 | 4.15 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 18 | 4.15 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 17 | 4.15 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 17 | 4.15 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 11 | 4.15 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 11 | 4.15 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 11 | 4.15 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 11 | 4.15 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 11 | 4.15 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 11 | 4.15 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 13 | 4.15 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 13 | 4.15 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 1 | 4.15 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 1 | 4.15 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 13 | 4.15 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 13 | 4.15 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 19 | 4.15 |
| (1,8801) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 19 | 4.15 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 19 | 4.15 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 19 | 4.15 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 10 | 4.15 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 10 | 4.15 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 20 | 4.15 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 20 | 4.15 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 20 | 4.15 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 20 | 4.15 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 20 | 4.15 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 20 | 4.15 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 9 | 4.15 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 9 | 4.15 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 16 | 4.15 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 16 | 4.15 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 12 | 4.15 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 12 | 4.15 |
| (1,8592) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HA | 4 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8592) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HA | 4 | 4.15 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 4 | 4.15 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 4 | 4.15 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 4 | 4.15 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 4 | 4.15 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 4 | 4.15 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 4 | 4.15 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 14 | 4.15 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 14 | 4.15 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 9 | 4.15 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 9 | 4.15 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 2 | 4.15 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 2 | 4.15 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 5 | 4.15 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 5 | 4.15 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 7 | 4.15 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 7 | 4.15 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 7 | 4.15 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 18 | 4.15 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 18 | 4.15 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 18 | 4.15 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 3 | 4.15 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 3 | 4.15 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 3 | 4.15 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 5 | 4.15 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 5 | 4.15 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 9 | 4.15 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 9 | 4.15 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 14 | 4.15 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 14 | 4.15 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 14 | 4.15 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 14 | 4.15 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 14 | 4.15 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 14 | 4.15 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 7 | 4.15 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 17 | 4.15 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 7 | 4.15 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 7 | 4.15 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 9 | 4.15 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 15 | 4.15 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 16 | 4.15 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 18 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 18 | 4.15 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 18 | 4.15 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 18 | 4.15 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 4 | 4.15 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 18 | 4.15 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 6 | 4.15 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 6 | 4.15 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 12 | 4.15 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 8 | 4.15 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 8 | 4.15 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 8 | 4.15 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 3 | 4.15 |
| (1,7994) | 1:81:A:THR:H | 1:83:A:GLU:H | 5 | 4.15 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 6 | 4.15 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 7 | 4.15 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 5 | 4.15 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 14 | 4.15 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 14 | 4.15 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 14 | 4.15 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 17 | 4.15 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 17 | 4.15 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 17 | 4.15 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 17 | 4.15 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 17 | 4.15 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 17 | 4.15 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 17 | 4.15 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 17 | 4.15 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 17 | 4.15 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 1 | 4.15 |
| (1,7768) | 1:56:A:ARG:H | 1:162:A:THR:H | 2 | 4.15 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 11 | 4.15 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 11 | 4.15 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 19 | 4.15 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 19 | 4.15 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 1 | 4.15 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 10 | 4.15 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 14 | 4.15 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 11 | 4.15 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 6 | 4.15 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 15 | 4.15 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 17 | 4.15 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 17 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 17 | 4.15 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 10 | 4.15 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 10 | 4.15 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 9 | 4.15 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 5 | 4.15 |
| (1,7419) | 1:7:A:LEU:HD21 | 1:11:A:TRP:HB3 | 2 | 4.15 |
| (1,7419) | 1:7:A:LEU:HD22 | 1:11:A:TRP:HB3 | 2 | 4.15 |
| (1,7419) | 1:7:A:LEU:HD23 | 1:11:A:TRP:HB3 | 2 | 4.15 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 9 | 4.15 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 9 | 4.15 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 9 | 4.15 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 20 | 4.15 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 5 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 3 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 3 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 3 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 5 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 5 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 5 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 10 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 10 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 10 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 14 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 14 | 4.15 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 14 | 4.15 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 7 | 4.15 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 7 | 4.15 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 7 | 4.15 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 2 | 4.15 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 2 | 4.15 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 2 | 4.15 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 9 | 4.15 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 9 | 4.15 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 9 | 4.15 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 9 | 4.15 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 9 | 4.15 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 9 | 4.15 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 9 | 4.15 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 9 | 4.15 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 9 | 4.15 |
| (1,7256) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 9 | 4.15 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 16 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 16 | 4.15 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 11 | 4.15 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 11 | 4.15 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 11 | 4.15 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 12 | 4.15 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 2 | 4.15 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 2 | 4.15 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 2 | 4.15 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 2 | 4.15 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 13 | 4.15 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 6 | 4.15 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 6 | 4.15 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 6 | 4.15 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 9 | 4.15 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 13 | 4.15 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 4 | 4.15 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 4 | 4.15 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 4 | 4.15 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 6 | 4.15 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 11 | 4.15 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 11 | 4.15 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 10 | 4.15 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 10 | 4.15 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 19 | 4.15 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 17 | 4.15 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 2 | 4.15 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 2 | 4.15 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 2 | 4.15 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 8 | 4.15 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 8 | 4.15 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 8 | 4.15 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 11 | 4.15 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 2 | 4.15 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 2 | 4.15 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 2 | 4.15 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 6 | 4.15 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 5 | 4.15 |
| (1,6519) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 11 | 4.15 |
| (1,6476) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 19 | 4.15 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 16 | 4.15 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 16 | 4.15 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 16 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 6 | 4.15 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 6 | 4.15 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 6 | 4.15 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 11 | 4.15 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 11 | 4.15 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 11 | 4.15 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 19 | 4.15 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 7 | 4.15 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 7 | 4.15 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 7 | 4.15 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 10 | 4.15 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 10 | 4.15 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 10 | 4.15 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 12 | 4.15 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 1 | 4.15 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 10 | 4.15 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 15 | 4.15 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 15 | 4.15 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 17 | 4.15 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 17 | 4.15 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 20 | 4.15 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 20 | 4.15 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 20 | 4.15 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 19 | 4.15 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 15 | 4.15 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 18 | 4.15 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 19 | 4.15 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 19 | 4.15 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 19 | 4.15 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 19 | 4.15 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 10 | 4.15 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 10 | 4.15 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 10 | 4.15 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 15 | 4.15 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 15 | 4.15 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 15 | 4.15 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 16 | 4.15 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 16 | 4.15 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 16 | 4.15 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 13 | 4.15 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 17 | 4.15 |
| (1,5744) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 8 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 1 | 4.15 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 1 | 4.15 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 1 | 4.15 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 15 | 4.15 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 17 | 4.15 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 10 | 4.15 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 10 | 4.15 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 10 | 4.15 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 10 | 4.15 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 10 | 4.15 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 10 | 4.15 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 19 | 4.15 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 8 | 4.15 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 8 | 4.15 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 8 | 4.15 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 5 | 4.15 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 10 | 4.15 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 17 | 4.15 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 17 | 4.15 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 17 | 4.15 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 19 | 4.15 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 19 | 4.15 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 19 | 4.15 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 11 | 4.15 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 11 | 4.15 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 11 | 4.15 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 6 | 4.15 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 8 | 4.15 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 8 | 4.15 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 8 | 4.15 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 8 | 4.15 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 8 | 4.15 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 8 | 4.15 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 8 | 4.15 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 8 | 4.15 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 8 | 4.15 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 12 | 4.15 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 12 | 4.15 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 12 | 4.15 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 11 | 4.15 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 11 | 4.15 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 11 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 19 | 4.15 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 2 | 4.15 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 13 | 4.15 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 15 | 4.15 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 15 | 4.15 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 15 | 4.15 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 15 | 4.15 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 19 | 4.15 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 19 | 4.15 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 19 | 4.15 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 1 | 4.15 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 11 | 4.15 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 15 | 4.15 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 15 | 4.15 |
| (1,4892) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 15 | 4.15 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 18 | 4.15 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 18 | 4.15 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 18 | 4.15 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 18 | 4.15 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 18 | 4.15 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 18 | 4.15 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 18 | 4.15 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 18 | 4.15 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 18 | 4.15 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 12 | 4.15 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 12 | 4.15 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 12 | 4.15 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 8 | 4.15 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 8 | 4.15 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 8 | 4.15 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 8 | 4.15 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 8 | 4.15 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 8 | 4.15 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 8 | 4.15 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 8 | 4.15 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 8 | 4.15 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 4 | 4.15 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 11 | 4.15 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 11 | 4.15 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 19 | 4.15 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 19 | 4.15 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 8 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 8 | 4.15 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 8 | 4.15 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 8 | 4.15 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 15 | 4.15 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 15 | 4.15 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 15 | 4.15 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 15 | 4.15 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 15 | 4.15 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 15 | 4.15 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 6 | 4.15 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 6 | 4.15 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 6 | 4.15 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 6 | 4.15 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 6 | 4.15 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 6 | 4.15 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 9 | 4.15 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 9 | 4.15 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 9 | 4.15 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 5 | 4.15 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 17 | 4.15 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 17 | 4.15 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 17 | 4.15 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 4 | 4.15 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 4 | 4.15 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 4.15 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 4.15 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 14 | 4.15 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 14 | 4.15 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 14 | 4.15 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 14 | 4.15 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 14 | 4.15 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 14 | 4.15 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 1 | 4.15 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 1 | 4.15 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 4 | 4.15 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 7 | 4.15 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 7 | 4.15 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 16 | 4.15 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 16 | 4.15 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 6 | 4.15 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 19 | 4.15 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 17 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 17 | 4.15 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 17 | 4.15 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 17 | 4.15 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 7 | 4.15 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 7 | 4.15 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 3 | 4.15 |
| (1,4226) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 3 | 4.15 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 10 | 4.15 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 10 | 4.15 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 10 | 4.15 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 10 | 4.15 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 10 | 4.15 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 10 | 4.15 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 1 | 4.15 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 6 | 4.15 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 6 | 4.15 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 6 | 4.15 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 12 | 4.15 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 14 | 4.15 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 14 | 4.15 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 19 | 4.15 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 19 | 4.15 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 5 | 4.15 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 18 | 4.15 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 18 | 4.15 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 1 | 4.15 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 9 | 4.15 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 17 | 4.15 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 17 | 4.15 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 15 | 4.15 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 15 | 4.15 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 15 | 4.15 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 5 | 4.15 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 5 | 4.15 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 5 | 4.15 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 12 | 4.15 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 12 | 4.15 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 12 | 4.15 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 11 | 4.15 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 11 | 4.15 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 11 | 4.15 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 11 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 11 | 4.15 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 11 | 4.15 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 13 | 4.15 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 13 | 4.15 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 13 | 4.15 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 13 | 4.15 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 19 | 4.15 |
| (1,3772) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 19 | 4.15 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 10 | 4.15 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 10 | 4.15 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 20 | 4.15 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 20 | 4.15 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 20 | 4.15 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 20 | 4.15 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 20 | 4.15 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 20 | 4.15 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 13 | 4.15 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 18 | 4.15 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 16 | 4.15 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 16 | 4.15 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 13 | 4.15 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 4.15 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 13 | 4.15 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 3 | 4.15 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 10 | 4.15 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 10 | 4.15 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 14 | 4.15 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 14 | 4.15 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 2 | 4.15 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 8 | 4.15 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 8 | 4.15 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 8 | 4.15 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 8 | 4.15 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 8 | 4.15 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 8 | 4.15 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 2 | 4.15 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 2 | 4.15 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 5 | 4.15 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 5 | 4.15 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 2 | 4.15 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 2 | 4.15 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 2 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 9 | 4.15 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 9 | 4.15 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 9 | 4.15 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 9 | 4.15 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 9 | 4.15 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 9 | 4.15 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 9 | 4.15 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 9 | 4.15 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 9 | 4.15 |
| (1,3466) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 9 | 4.15 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 1 | 4.15 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 10 | 4.15 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 10 | 4.15 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 10 | 4.15 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 5 | 4.15 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 6 | 4.15 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 16 | 4.15 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 16 | 4.15 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 11 | 4.15 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 11 | 4.15 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 11 | 4.15 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 11 | 4.15 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 11 | 4.15 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 11 | 4.15 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 12 | 4.15 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 2 | 4.15 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 2 | 4.15 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 2 | 4.15 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 2 | 4.15 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 20 | 4.15 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 13 | 4.15 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 3 | 4.15 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 20 | 4.15 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 6 | 4.15 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 6 | 4.15 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 6 | 4.15 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 9 | 4.15 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 13 | 4.15 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 4 | 4.15 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 4 | 4.15 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 4 | 4.15 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 6 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 11 | 4.15 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 11 | 4.15 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 9 | 4.15 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 9 | 4.15 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 17 | 4.15 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 17 | 4.15 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 10 | 4.15 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 10 | 4.15 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 16 | 4.15 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 16 | 4.15 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 19 | 4.15 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 17 | 4.15 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 2 | 4.15 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 2 | 4.15 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 2 | 4.15 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 8 | 4.15 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 8 | 4.15 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 8 | 4.15 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 15 | 4.15 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 15 | 4.15 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 15 | 4.15 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 11 | 4.15 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 2 | 4.15 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 2 | 4.15 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 2 | 4.15 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 6 | 4.15 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 5 | 4.15 |
| (1,2362) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 11 | 4.15 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 9 | 4.15 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 16 | 4.15 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 6 | 4.15 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 10 | 4.15 |
| (1,2256) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 19 | 4.15 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 4 | 4.15 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 16 | 4.15 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 16 | 4.15 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 16 | 4.15 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 6 | 4.15 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 6 | 4.15 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 6 | 4.15 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 11 | 4.15 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 11 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 11 | 4.15 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 2 | 4.15 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 19 | 4.15 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 7 | 4.15 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 7 | 4.15 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 7 | 4.15 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 10 | 4.15 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 10 | 4.15 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 10 | 4.15 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 12 | 4.15 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 4 | 4.15 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 1 | 4.15 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 10 | 4.15 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 15 | 4.15 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 15 | 4.15 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 17 | 4.15 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 17 | 4.15 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 20 | 4.15 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 20 | 4.15 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 20 | 4.15 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 4 | 4.15 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 11 | 4.15 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 19 | 4.15 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 15 | 4.15 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 18 | 4.15 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 19 | 4.15 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 19 | 4.15 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 19 | 4.15 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 19 | 4.15 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 10 | 4.15 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 10 | 4.15 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 10 | 4.15 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 15 | 4.15 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 15 | 4.15 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 15 | 4.15 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 16 | 4.15 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 16 | 4.15 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 16 | 4.15 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 3 | 4.15 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 3 | 4.15 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 6 | 4.15 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 13 | 4.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 17 | 4.15 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 16 | 4.15 |
| (1,1046) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 8 | 4.15 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 7 | 4.15 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 1 | 4.15 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 1 | 4.15 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 1 | 4.15 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 15 | 4.15 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 17 | 4.15 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 10 | 4.15 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 10 | 4.15 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 10 | 4.15 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 10 | 4.15 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 10 | 4.15 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 10 | 4.15 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 18 | 4.15 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 18 | 4.15 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 18 | 4.15 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 18 | 4.15 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 8 | 4.15 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 8 | 4.15 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 8 | 4.15 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 8 | 4.15 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 8 | 4.15 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 8 | 4.15 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 8 | 4.15 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 14 | 4.15 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 3 | 4.15 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 10 | 4.15 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 19 | 4.15 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 8 | 4.15 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 8 | 4.15 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 8 | 4.15 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 1 | 4.15 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 4 | 4.15 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 3 | 4.14 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 6 | 4.14 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 7 | 4.14 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 12 | 4.14 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 9 | 4.14 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 11 | 4.14 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 11 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 17 | 4.14 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 17 | 4.14 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 9 | 4.14 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 9 | 4.14 |
| (1,9573) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 18 | 4.14 |
| (1,9573) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 18 | 4.14 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 17 | 4.14 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 17 | 4.14 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 17 | 4.14 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 17 | 4.14 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 17 | 4.14 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 17 | 4.14 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 6 | 4.14 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 6 | 4.14 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 6 | 4.14 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 6 | 4.14 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 6 | 4.14 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 6 | 4.14 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 11 | 4.14 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 11 | 4.14 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 17 | 4.14 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 17 | 4.14 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG12 | 7 | 4.14 |
| (1,9508) | 1:137:A:ALA:H | 1:159:A:ILE:HG13 | 7 | 4.14 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 12 | 4.14 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 12 | 4.14 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 9 | 4.14 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 9 | 4.14 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 14 | 4.14 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 14 | 4.14 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 15 | 4.14 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 15 | 4.14 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 12 | 4.14 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 12 | 4.14 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 1 | 4.14 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 1 | 4.14 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 1 | 4.14 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 1 | 4.14 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 14 | 4.14 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 14 | 4.14 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 16 | 4.14 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 16 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 8 | 4.14 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 8 | 4.14 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 8 | 4.14 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 8 | 4.14 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 8 | 4.14 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 8 | 4.14 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 17 | 4.14 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 17 | 4.14 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 17 | 4.14 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 17 | 4.14 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 15 | 4.14 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 15 | 4.14 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 12 | 4.14 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 12 | 4.14 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 18 | 4.14 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 18 | 4.14 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 9 | 4.14 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 9 | 4.14 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 9 | 4.14 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 9 | 4.14 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 11 | 4.14 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 11 | 4.14 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 2 | 4.14 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 2 | 4.14 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 2 | 4.14 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 2 | 4.14 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 14 | 4.14 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 14 | 4.14 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 10 | 4.14 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 10 | 4.14 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 10 | 4.14 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 10 | 4.14 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 10 | 4.14 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 10 | 4.14 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 13 | 4.14 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 13 | 4.14 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 13 | 4.14 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 13 | 4.14 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 13 | 4.14 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 13 | 4.14 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 16 | 4.14 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 16 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 17 | 4.14 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 17 | 4.14 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 18 | 4.14 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 18 | 4.14 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 10 | 4.14 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 10 | 4.14 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 3 | 4.14 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 3 | 4.14 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 3 | 4.14 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 3 | 4.14 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 18 | 4.14 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 18 | 4.14 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 1 | 4.14 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 1 | 4.14 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 1 | 4.14 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 1 | 4.14 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 1 | 4.14 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 1 | 4.14 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 16 | 4.14 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 16 | 4.14 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 16 | 4.14 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 16 | 4.14 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 16 | 4.14 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 16 | 4.14 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 8 | 4.14 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 8 | 4.14 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 15 | 4.14 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 15 | 4.14 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 3 | 4.14 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 3 | 4.14 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 16 | 4.14 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 16 | 4.14 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 15 | 4.14 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 15 | 4.14 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 15 | 4.14 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 15 | 4.14 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 18 | 4.14 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 18 | 4.14 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 18 | 4.14 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 18 | 4.14 |
| (1,8538) | 1:3:A:ASP:HB2 | 1:6:A:LYS:H | 18 | 4.14 |
| (1,8538) | 1:3:A:ASP:HB3 | 1:6:A:LYS:H | 18 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 17 | 4.14 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 11 | 4.14 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 11 | 4.14 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 11 | 4.14 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 18 | 4.14 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 18 | 4.14 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 18 | 4.14 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 8 | 4.14 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 8 | 4.14 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 20 | 4.14 |
| (1,8451) | 1:147:A:SER:H | 1:148:A:GLY:H | 4 | 4.14 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 13 | 4.14 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 13 | 4.14 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 13 | 4.14 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 4 | 4.14 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 4 | 4.14 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 4 | 4.14 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 20 | 4.14 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 20 | 4.14 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 13 | 4.14 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 13 | 4.14 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 13 | 4.14 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 13 | 4.14 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 13 | 4.14 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 17 | 4.14 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 14 | 4.14 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 14 | 4.14 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 14 | 4.14 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 19 | 4.14 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 19 | 4.14 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 14 | 4.14 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 14 | 4.14 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 14 | 4.14 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 12 | 4.14 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 2 | 4.14 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 5 | 4.14 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 14 | 4.14 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 9 | 4.14 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 9 | 4.14 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 9 | 4.14 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 6 | 4.14 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 6 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 6 | 4.14 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 3 | 4.14 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 3 | 4.14 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 3 | 4.14 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 1 | 4.14 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 9 | 4.14 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 9 | 4.14 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 9 | 4.14 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 9 | 4.14 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 9 | 4.14 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 9 | 4.14 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 9 | 4.14 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 9 | 4.14 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 9 | 4.14 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 14 | 4.14 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 17 | 4.14 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 17 | 4.14 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 17 | 4.14 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 1 | 4.14 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 1 | 4.14 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 1 | 4.14 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 4 | 4.14 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 16 | 4.14 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 2 | 4.14 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 13 | 4.14 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 13 | 4.14 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 13 | 4.14 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 14 | 4.14 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 4 | 4.14 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 4 | 4.14 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 9 | 4.14 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 9 | 4.14 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 9 | 4.14 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 9 | 4.14 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 17 | 4.14 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 20 | 4.14 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 6 | 4.14 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 6 | 4.14 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 12 | 4.14 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 13 | 4.14 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 3 | 4.14 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 3 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 3 | 4.14 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 3 | 4.14 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 3 | 4.14 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 3 | 4.14 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 3 | 4.14 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 3 | 4.14 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 3 | 4.14 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 13 | 4.14 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 4 | 4.14 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 4 | 4.14 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 2 | 4.14 |
| (1,7477) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 2 | 4.14 |
| (1,7472) | 1:12:A:GLU:H | 1:27:A:HIS:H | 17 | 4.14 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 3 | 4.14 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 20 | 4.14 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 3 | 4.14 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 3 | 4.14 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 3 | 4.14 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 3 | 4.14 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 3 | 4.14 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 3 | 4.14 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 1 | 4.14 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 1 | 4.14 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 20 | 4.14 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 2 | 4.14 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 2 | 4.14 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 2 | 4.14 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 18 | 4.14 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 18 | 4.14 |
| (1,7194) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 18 | 4.14 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 7 | 4.14 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 8 | 4.14 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 8 | 4.14 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 8 | 4.14 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 20 | 4.14 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 20 | 4.14 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 20 | 4.14 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 9 | 4.14 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 2 | 4.14 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 10 | 4.14 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 5 | 4.14 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 5 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 5 | 4.14 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 2 | 4.14 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 10 | 4.14 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 10 | 4.14 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 10 | 4.14 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 10 | 4.14 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 7 | 4.14 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 13 | 4.14 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 4 | 4.14 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 13 | 4.14 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 14 | 4.14 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 14 | 4.14 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 14 | 4.14 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 14 | 4.14 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 14 | 4.14 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 14 | 4.14 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 9 | 4.14 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 12 | 4.14 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 12 | 4.14 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 12 | 4.14 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 5 | 4.14 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 12 | 4.14 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 15 | 4.14 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 15 | 4.14 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 15 | 4.14 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 15 | 4.14 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 15 | 4.14 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 15 | 4.14 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 15 | 4.14 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 15 | 4.14 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 15 | 4.14 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 9 | 4.14 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 2 | 4.14 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 2 | 4.14 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 2 | 4.14 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 9 | 4.14 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 9 | 4.14 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 9 | 4.14 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 19 | 4.14 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 19 | 4.14 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 19 | 4.14 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 16 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 16 | 4.14 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 16 | 4.14 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 16 | 4.14 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 2 | 4.14 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 2 | 4.14 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 2 | 4.14 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 7 | 4.14 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 1 | 4.14 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 1 | 4.14 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 1 | 4.14 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 10 | 4.14 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 10 | 4.14 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 18 | 4.14 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 18 | 4.14 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 18 | 4.14 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 13 | 4.14 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 13 | 4.14 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 13 | 4.14 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 13 | 4.14 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 13 | 4.14 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 13 | 4.14 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 3 | 4.14 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 3 | 4.14 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 3 | 4.14 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 8 | 4.14 |
| (1,5628) | 1:102:A:ASP:H | 1:103:A:PHE:H | 3 | 4.14 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 4 | 4.14 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 12 | 4.14 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 12 | 4.14 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 20 | 4.14 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 10 | 4.14 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 18 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 12 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 12 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 12 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 12 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 12 | 4.14 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 12 | 4.14 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 16 | 4.14 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 8 | 4.14 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 16 | 4.14 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 16 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 16 | 4.14 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 16 | 4.14 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 16 | 4.14 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 16 | 4.14 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 16 | 4.14 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 16 | 4.14 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 16 | 4.14 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 14 | 4.14 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 14 | 4.14 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 14 | 4.14 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 17 | 4.14 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 17 | 4.14 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 17 | 4.14 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 2 | 4.14 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 15 | 4.14 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 20 | 4.14 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 5 | 4.14 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 5 | 4.14 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 5 | 4.14 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 11 | 4.14 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 14 | 4.14 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 20 | 4.14 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 7 | 4.14 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 5 | 4.14 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 5 | 4.14 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 5 | 4.14 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 1 | 4.14 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 1 | 4.14 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 1 | 4.14 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 18 | 4.14 |
| (1,4985) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 9 | 4.14 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 20 | 4.14 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 6 | 4.14 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 6 | 4.14 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 6 | 4.14 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 6 | 4.14 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 6 | 4.14 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 6 | 4.14 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 6 | 4.14 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 6 | 4.14 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 6 | 4.14 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 12 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 12 | 4.14 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 12 | 4.14 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 1 | 4.14 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 9 | 4.14 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 9 | 4.14 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 9 | 4.14 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 3 | 4.14 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 11 | 4.14 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 15 | 4.14 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 15 | 4.14 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 15 | 4.14 |
| (1,4568) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 18 | 4.14 |
| (1,4568) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 18 | 4.14 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 7 | 4.14 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 7 | 4.14 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 7 | 4.14 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 19 | 4.14 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 17 | 4.14 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 17 | 4.14 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 17 | 4.14 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 17 | 4.14 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 17 | 4.14 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 17 | 4.14 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 6 | 4.14 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 6 | 4.14 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 6 | 4.14 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 6 | 4.14 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 6 | 4.14 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 6 | 4.14 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 6 | 4.14 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 6 | 4.14 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 6 | 4.14 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 6 | 4.14 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 6 | 4.14 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 6 | 4.14 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 1 | 4.14 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 1 | 4.14 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 1 | 4.14 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 5 | 4.14 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 5 | 4.14 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 5 | 4.14 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 5 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 4.14 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 1 | 4.14 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 1 | 4.14 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 1 | 4.14 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 1 | 4.14 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 7 | 4.14 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 14 | 4.14 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 14 | 4.14 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 1 | 4.14 |
| (1,4286) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 4.14 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 14 | 4.14 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 1 | 4.14 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 1 | 4.14 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 1 | 4.14 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 1 | 4.14 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 1 | 4.14 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 1 | 4.14 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 18 | 4.14 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 9 | 4.14 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 9 | 4.14 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 9 | 4.14 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 9 | 4.14 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 9 | 4.14 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 9 | 4.14 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 19 | 4.14 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 19 | 4.14 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 19 | 4.14 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 19 | 4.14 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 19 | 4.14 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 19 | 4.14 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 10 | 4.14 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 10 | 4.14 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 10 | 4.14 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 10 | 4.14 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 10 | 4.14 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 10 | 4.14 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 16 | 4.14 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 16 | 4.14 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 17 | 4.14 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 17 | 4.14 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 18 | 4.14 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 18 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 4.14 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 10 | 4.14 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 10 | 4.14 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 10 | 4.14 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 10 | 4.14 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 3 | 4.14 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 3 | 4.14 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 3 | 4.14 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 3 | 4.14 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 2 | 4.14 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 2 | 4.14 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 2 | 4.14 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 1 | 4.14 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 1 | 4.14 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 1 | 4.14 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 1 | 4.14 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 1 | 4.14 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 1 | 4.14 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 9 | 4.14 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 9 | 4.14 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 9 | 4.14 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 16 | 4.14 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 16 | 4.14 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 16 | 4.14 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 16 | 4.14 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 16 | 4.14 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 16 | 4.14 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 2 | 4.14 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 2 | 4.14 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 2 | 4.14 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 2 | 4.14 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 2 | 4.14 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 2 | 4.14 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 8 | 4.14 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 8 | 4.14 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 17 | 4.14 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 17 | 4.14 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 17 | 4.14 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 17 | 4.14 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 10 | 4.14 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 10 | 4.14 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 10 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3671) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 2 | 4.14 |
| (1,3671) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 2 | 4.14 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 10 | 4.14 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 7 | 4.14 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 7 | 4.14 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 7 | 4.14 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 7 | 4.14 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 12 | 4.14 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 12 | 4.14 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 12 | 4.14 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 12 | 4.14 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 12 | 4.14 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 12 | 4.14 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 9 | 4.14 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 9 | 4.14 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 17 | 4.14 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 4 | 4.14 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 2 | 4.14 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 2 | 4.14 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 2 | 4.14 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 18 | 4.14 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 18 | 4.14 |
| (1,3352) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 18 | 4.14 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 7 | 4.14 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 8 | 4.14 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 8 | 4.14 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 8 | 4.14 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 4.14 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 19 | 4.14 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 20 | 4.14 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 20 | 4.14 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 20 | 4.14 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 9 | 4.14 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 13 | 4.14 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 13 | 4.14 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 13 | 4.14 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 6 | 4.14 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 1 | 4.14 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 2 | 4.14 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 10 | 4.14 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 5 | 4.14 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 5 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 5 | 4.14 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 2 | 4.14 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 11 | 4.14 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 11 | 4.14 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 1 | 4.14 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 1 | 4.14 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 8 | 4.14 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 8 | 4.14 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 10 | 4.14 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 10 | 4.14 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 10 | 4.14 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 10 | 4.14 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 7 | 4.14 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 4 | 4.14 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 4 | 4.14 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 13 | 4.14 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 14 | 4.14 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 4 | 4.14 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 19 | 4.14 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 13 | 4.14 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 9 | 4.14 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 7 | 4.14 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 7 | 4.14 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 7 | 4.14 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 2 | 4.14 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 10 | 4.14 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 12 | 4.14 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 12 | 4.14 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 12 | 4.14 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 5 | 4.14 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 5 | 4.14 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 12 | 4.14 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 9 | 4.14 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 15 | 4.14 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 15 | 4.14 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 15 | 4.14 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 15 | 4.14 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 15 | 4.14 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 15 | 4.14 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 15 | 4.14 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 15 | 4.14 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 15 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 9 | 4.14 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 14 | 4.14 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 9 | 4.14 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 9 | 4.14 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 9 | 4.14 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 12 | 4.14 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 12 | 4.14 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 16 | 4.14 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 16 | 4.14 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 19 | 4.14 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 19 | 4.14 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 19 | 4.14 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 9 | 4.14 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 18 | 4.14 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 18 | 4.14 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 18 | 4.14 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 16 | 4.14 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 16 | 4.14 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 16 | 4.14 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 16 | 4.14 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 2 | 4.14 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 2 | 4.14 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 2 | 4.14 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 7 | 4.14 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 1 | 4.14 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 1 | 4.14 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 1 | 4.14 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 10 | 4.14 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 10 | 4.14 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 8 | 4.14 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 8 | 4.14 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 8 | 4.14 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 18 | 4.14 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 18 | 4.14 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 18 | 4.14 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 5 | 4.14 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 13 | 4.14 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 13 | 4.14 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 13 | 4.14 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 13 | 4.14 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 13 | 4.14 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 13 | 4.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 3 | 4.14 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 3 | 4.14 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 3 | 4.14 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 8 | 4.14 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 9 | 4.14 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 9 | 4.14 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 17 | 4.14 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 9 | 4.14 |
| (1,838) | 1:102:A:ASP:H | 1:103:A:PHE:H | 3 | 4.14 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 4 | 4.14 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 2 | 4.14 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 12 | 4.14 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 12 | 4.14 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 6 | 4.14 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 6 | 4.14 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 6 | 4.14 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 11 | 4.14 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 20 | 4.14 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 10 | 4.14 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 15 | 4.14 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 18 | 4.14 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 12 | 4.14 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 12 | 4.14 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 12 | 4.14 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 12 | 4.14 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 12 | 4.14 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 12 | 4.14 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 3 | 4.14 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 8 | 4.14 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 10 | 4.14 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 10 | 4.14 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 10 | 4.14 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 16 | 4.13 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 20 | 4.13 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 7 | 4.13 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 2 | 4.13 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 2 | 4.13 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 2 | 4.13 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 2 | 4.13 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 2 | 4.13 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 2 | 4.13 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 15 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 15 | 4.13 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 3 | 4.13 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 3 | 4.13 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 10 | 4.13 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 10 | 4.13 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 10 | 4.13 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 10 | 4.13 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 7 | 4.13 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 7 | 4.13 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 16 | 4.13 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 16 | 4.13 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 17 | 4.13 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 17 | 4.13 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 19 | 4.13 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 19 | 4.13 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 8 | 4.13 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 8 | 4.13 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 17 | 4.13 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 17 | 4.13 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 14 | 4.13 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 14 | 4.13 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 15 | 4.13 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 15 | 4.13 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 7 | 4.13 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 7 | 4.13 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 1 | 4.13 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 1 | 4.13 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 20 | 4.13 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 20 | 4.13 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 7 | 4.13 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 7 | 4.13 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 17 | 4.13 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 17 | 4.13 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 17 | 4.13 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 17 | 4.13 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 17 | 4.13 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 17 | 4.13 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 5 | 4.13 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 5 | 4.13 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 8 | 4.13 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 8 | 4.13 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 20 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 20 | 4.13 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 5 | 4.13 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 5 | 4.13 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 6 | 4.13 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 6 | 4.13 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 19 | 4.13 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 19 | 4.13 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 17 | 4.13 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 17 | 4.13 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 17 | 4.13 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 17 | 4.13 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 17 | 4.13 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 17 | 4.13 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 18 | 4.13 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 18 | 4.13 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 17 | 4.13 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 17 | 4.13 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 20 | 4.13 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 20 | 4.13 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 15 | 4.13 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 15 | 4.13 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 1 | 4.13 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 1 | 4.13 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 1 | 4.13 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 1 | 4.13 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 1 | 4.13 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 1 | 4.13 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 13 | 4.13 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 13 | 4.13 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 13 | 4.13 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 13 | 4.13 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 13 | 4.13 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 13 | 4.13 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 12 | 4.13 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 12 | 4.13 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 4 | 4.13 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 4 | 4.13 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 5 | 4.13 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 5 | 4.13 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 5 | 4.13 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 5 | 4.13 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 2 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 2 | 4.13 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 13 | 4.13 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 13 | 4.13 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 1 | 4.13 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 1 | 4.13 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 18 | 4.13 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 18 | 4.13 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 10 | 4.13 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 10 | 4.13 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 10 | 4.13 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 10 | 4.13 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 10 | 4.13 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 10 | 4.13 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 14 | 4.13 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 14 | 4.13 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 9 | 4.13 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 9 | 4.13 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 9 | 4.13 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 9 | 4.13 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 9 | 4.13 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 9 | 4.13 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 14 | 4.13 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 14 | 4.13 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 13 | 4.13 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 13 | 4.13 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 9 | 4.13 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 12 | 4.13 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 12 | 4.13 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 12 | 4.13 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 12 | 4.13 |
| (1,8364) | 1:136:A:ASP:HB2 | 1:138:A:SER:H | 16 | 4.13 |
| (1,8364) | 1:136:A:ASP:HB3 | 1:138:A:SER:H | 16 | 4.13 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 16 | 4.13 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 16 | 4.13 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 17 | 4.13 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 15 | 4.13 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 15 | 4.13 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 19 | 4.13 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 9 | 4.13 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 9 | 4.13 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 7 | 4.13 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 3 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 19 | 4.13 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 18 | 4.13 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 1 | 4.13 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 5 | 4.13 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 2 | 4.13 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 2 | 4.13 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 2 | 4.13 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 2 | 4.13 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 2 | 4.13 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 2 | 4.13 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 2 | 4.13 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 2 | 4.13 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 2 | 4.13 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 8 | 4.13 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 8 | 4.13 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 8 | 4.13 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 16 | 4.13 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 7 | 4.13 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 7 | 4.13 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 7 | 4.13 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 19 | 4.13 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 20 | 4.13 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 20 | 4.13 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 20 | 4.13 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 11 | 4.13 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 11 | 4.13 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 11 | 4.13 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 11 | 4.13 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 11 | 4.13 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 11 | 4.13 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 11 | 4.13 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 11 | 4.13 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 11 | 4.13 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 16 | 4.13 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 20 | 4.13 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 7 | 4.13 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 15 | 4.13 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 7 | 4.13 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 7 | 4.13 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 7 | 4.13 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 7 | 4.13 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 13 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 5 | 4.13 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 10 | 4.13 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 15 | 4.13 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 7 | 4.13 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 16 | 4.13 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 4 | 4.13 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 15 | 4.13 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 15 | 4.13 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 15 | 4.13 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 4 | 4.13 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 14 | 4.13 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 14 | 4.13 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 9 | 4.13 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 18 | 4.13 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 18 | 4.13 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 18 | 4.13 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 19 | 4.13 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 19 | 4.13 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 19 | 4.13 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 13 | 4.13 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 13 | 4.13 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 13 | 4.13 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 1 | 4.13 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 1 | 4.13 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 10 | 4.13 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 10 | 4.13 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 14 | 4.13 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 1 | 4.13 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 1 | 4.13 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 1 | 4.13 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 2 | 4.13 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 2 | 4.13 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 2 | 4.13 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 19 | 4.13 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 3 | 4.13 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 2 | 4.13 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 3 | 4.13 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 16 | 4.13 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 20 | 4.13 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 8 | 4.13 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 1 | 4.13 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 1 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 1 | 4.13 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 18 | 4.13 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 15 | 4.13 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 15 | 4.13 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 8 | 4.13 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 12 | 4.13 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 11 | 4.13 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 6 | 4.13 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 1 | 4.13 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 1 | 4.13 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 1 | 4.13 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 9 | 4.13 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 18 | 4.13 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 2 | 4.13 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 5 | 4.13 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 5 | 4.13 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 5 | 4.13 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 16 | 4.13 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 16 | 4.13 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 16 | 4.13 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 17 | 4.13 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 17 | 4.13 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 17 | 4.13 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 17 | 4.13 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 17 | 4.13 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 17 | 4.13 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 17 | 4.13 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 17 | 4.13 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 17 | 4.13 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 18 | 4.13 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 18 | 4.13 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 18 | 4.13 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 2 | 4.13 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 2 | 4.13 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 2 | 4.13 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 12 | 4.13 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 12 | 4.13 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 12 | 4.13 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 20 | 4.13 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 20 | 4.13 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 20 | 4.13 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 14 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 14 | 4.13 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 20 | 4.13 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 20 | 4.13 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 11 | 4.13 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 11 | 4.13 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 10 | 4.13 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 14 | 4.13 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 3 | 4.13 |
| (1,5920) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 3 | 4.13 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 3 | 4.13 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 3 | 4.13 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 3 | 4.13 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 12 | 4.13 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 12 | 4.13 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 12 | 4.13 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 9 | 4.13 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 9 | 4.13 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 17 | 4.13 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 17 | 4.13 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 1 | 4.13 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 12 | 4.13 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 16 | 4.13 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 16 | 4.13 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 16 | 4.13 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 18 | 4.13 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 18 | 4.13 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 18 | 4.13 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 7 | 4.13 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 12 | 4.13 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 1 | 4.13 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 1 | 4.13 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 1 | 4.13 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 1 | 4.13 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 1 | 4.13 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 1 | 4.13 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 19 | 4.13 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 19 | 4.13 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 19 | 4.13 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 5 | 4.13 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 5 | 4.13 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 5 | 4.13 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 11 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 11 | 4.13 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 11 | 4.13 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 11 | 4.13 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 11 | 4.13 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 11 | 4.13 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 6 | 4.13 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 1 | 4.13 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 1 | 4.13 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 1 | 4.13 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 4 | 4.13 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 4 | 4.13 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 4 | 4.13 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 18 | 4.13 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 1 | 4.13 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 1 | 4.13 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 1 | 4.13 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 1 | 4.13 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 1 | 4.13 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 1 | 4.13 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 7 | 4.13 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 7 | 4.13 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 7 | 4.13 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 8 | 4.13 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 7 | 4.13 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 7 | 4.13 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 7 | 4.13 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 8 | 4.13 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 9 | 4.13 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 17 | 4.13 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 17 | 4.13 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 15 | 4.13 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 15 | 4.13 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 18 | 4.13 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 18 | 4.13 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 7 | 4.13 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 7 | 4.13 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 7 | 4.13 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 13 | 4.13 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 13 | 4.13 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 13 | 4.13 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 2 | 4.13 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 2 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 2 | 4.13 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 15 | 4.13 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 15 | 4.13 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 15 | 4.13 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 5 | 4.13 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 13 | 4.13 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 14 | 4.13 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 12 | 4.13 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 12 | 4.13 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 12 | 4.13 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 2 | 4.13 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 2 | 4.13 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 2 | 4.13 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 2 | 4.13 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 2 | 4.13 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 2 | 4.13 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 3 | 4.13 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 3 | 4.13 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 4.13 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 4.13 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 13 | 4.13 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 10 | 4.13 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 10 | 4.13 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 16 | 4.13 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 16 | 4.13 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 17 | 4.13 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 17 | 4.13 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 19 | 4.13 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 19 | 4.13 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 1 | 4.13 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 1 | 4.13 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 1 | 4.13 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 1 | 4.13 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 1 | 4.13 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 1 | 4.13 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 1 | 4.13 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 8 | 4.13 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 8 | 4.13 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 17 | 4.13 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 17 | 4.13 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 14 | 4.13 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 14 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 15 | 4.13 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 15 | 4.13 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 6 | 4.13 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 11 | 4.13 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 1 | 4.13 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 1 | 4.13 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 2 | 4.13 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 2 | 4.13 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 2 | 4.13 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 10 | 4.13 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 4.13 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 10 | 4.13 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 3 | 4.13 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 19 | 4.13 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 5 | 4.13 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 5 | 4.13 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 3 | 4.13 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 19 | 4.13 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 6 | 4.13 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 6 | 4.13 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 6 | 4.13 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 19 | 4.13 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 19 | 4.13 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 12 | 4.13 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 12 | 4.13 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 4 | 4.13 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 7 | 4.13 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 7 | 4.13 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 7 | 4.13 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 8 | 4.13 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 8 | 4.13 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 8 | 4.13 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 17 | 4.13 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 17 | 4.13 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 17 | 4.13 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 19 | 4.13 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 19 | 4.13 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 19 | 4.13 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 19 | 4.13 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 19 | 4.13 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 19 | 4.13 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 17 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 16 | 4.13 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 16 | 4.13 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 16 | 4.13 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 16 | 4.13 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 16 | 4.13 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 16 | 4.13 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 1 | 4.13 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 1 | 4.13 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 1 | 4.13 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 1 | 4.13 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 1 | 4.13 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 1 | 4.13 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 12 | 4.13 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 12 | 4.13 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 2 | 4.13 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 2 | 4.13 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 13 | 4.13 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 13 | 4.13 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 9 | 4.13 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 16 | 4.13 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 3 | 4.13 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 3 | 4.13 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 6 | 4.13 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 6 | 4.13 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 6 | 4.13 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 6 | 4.13 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 13 | 4.13 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 13 | 4.13 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 13 | 4.13 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 13 | 4.13 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 18 | 4.13 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 18 | 4.13 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 10 | 4.13 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 10 | 4.13 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 10 | 4.13 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 10 | 4.13 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 10 | 4.13 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 10 | 4.13 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 14 | 4.13 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 14 | 4.13 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 14 | 4.13 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 14 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 1 | 4.13 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 1 | 4.13 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 1 | 4.13 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 1 | 4.13 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 1 | 4.13 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 1 | 4.13 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 5 | 4.13 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 19 | 4.13 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 19 | 4.13 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 13 | 4.13 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 13 | 4.13 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 13 | 4.13 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 1 | 4.13 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 1 | 4.13 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 10 | 4.13 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 10 | 4.13 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 14 | 4.13 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 2 | 4.13 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 1 | 4.13 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 1 | 4.13 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 1 | 4.13 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 2 | 4.13 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 2 | 4.13 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 2 | 4.13 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 19 | 4.13 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 3 | 4.13 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 2 | 4.13 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 3 | 4.13 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 16 | 4.13 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 20 | 4.13 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 8 | 4.13 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 1 | 4.13 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 1 | 4.13 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 1 | 4.13 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 18 | 4.13 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 15 | 4.13 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 15 | 4.13 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 8 | 4.13 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 8 | 4.13 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 8 | 4.13 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 8 | 4.13 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 8 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 8 | 4.13 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 8 | 4.13 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 12 | 4.13 |
| (1,2388) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 5 | 4.13 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 11 | 4.13 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 6 | 4.13 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 1 | 4.13 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 1 | 4.13 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 1 | 4.13 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 17 | 4.13 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 9 | 4.13 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 18 | 4.13 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 2 | 4.13 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 16 | 4.13 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 16 | 4.13 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 16 | 4.13 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 5 | 4.13 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 5 | 4.13 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 5 | 4.13 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 4 | 4.13 |
| (1,2028) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 4 | 4.13 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 19 | 4.13 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 19 | 4.13 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 19 | 4.13 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 16 | 4.13 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 16 | 4.13 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 16 | 4.13 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 3 | 4.13 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 12 | 4.13 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 17 | 4.13 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 17 | 4.13 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 17 | 4.13 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 17 | 4.13 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 17 | 4.13 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 17 | 4.13 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 17 | 4.13 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 17 | 4.13 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 17 | 4.13 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 18 | 4.13 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 18 | 4.13 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 18 | 4.13 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 2 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 2 | 4.13 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 2 | 4.13 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 12 | 4.13 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 12 | 4.13 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 12 | 4.13 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 20 | 4.13 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 20 | 4.13 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 20 | 4.13 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 2 | 4.13 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 2 | 4.13 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 5 | 4.13 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 5 | 4.13 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 10 | 4.13 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 10 | 4.13 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 10 | 4.13 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 14 | 4.13 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 14 | 4.13 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 20 | 4.13 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 20 | 4.13 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 11 | 4.13 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 11 | 4.13 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 10 | 4.13 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 15 | 4.13 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 14 | 4.13 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 19 | 4.13 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 3 | 4.13 |
| (1,1340) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 3 | 4.13 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 3 | 4.13 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 3 | 4.13 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 3 | 4.13 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 12 | 4.13 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 12 | 4.13 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 12 | 4.13 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 9 | 4.13 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 9 | 4.13 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 17 | 4.13 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 17 | 4.13 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 7 | 4.13 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 7 | 4.13 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 5 | 4.13 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 5 | 4.13 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 5 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 10 | 4.13 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 10 | 4.13 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 10 | 4.13 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 9 | 4.13 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 1 | 4.13 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 1 | 4.13 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 12 | 4.13 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 16 | 4.13 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 16 | 4.13 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 16 | 4.13 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 4 | 4.13 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 4 | 4.13 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 4 | 4.13 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 18 | 4.13 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 18 | 4.13 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 18 | 4.13 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 7 | 4.13 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 12 | 4.13 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 1 | 4.13 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 1 | 4.13 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 1 | 4.13 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 1 | 4.13 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 1 | 4.13 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 1 | 4.13 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 19 | 4.13 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 19 | 4.13 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 19 | 4.13 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 6 | 4.13 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 11 | 4.13 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 17 | 4.13 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 17 | 4.13 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 4 | 4.13 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 5 | 4.13 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 17 | 4.13 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 17 | 4.13 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 17 | 4.13 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 10 | 4.13 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 10 | 4.13 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 10 | 4.13 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 5 | 4.13 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 5 | 4.13 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 5 | 4.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 11 | 4.13 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 11 | 4.13 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 11 | 4.13 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 11 | 4.13 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 11 | 4.13 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 11 | 4.13 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 11 | 4.13 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 11 | 4.13 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 11 | 4.13 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 11 | 4.13 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 11 | 4.13 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 11 | 4.13 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 13 | 4.13 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 13 | 4.13 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 13 | 4.13 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 13 | 4.13 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 13 | 4.13 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 13 | 4.13 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 6 | 4.13 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 6 | 4.13 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 6 | 4.13 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 4 | 4.13 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 9 | 4.13 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 2 | 4.13 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 2 | 4.13 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 2 | 4.13 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 4 | 4.12 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 7 | 4.12 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 4 | 4.12 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 4 | 4.12 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 15 | 4.12 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 15 | 4.12 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 18 | 4.12 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 18 | 4.12 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 2 | 4.12 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 2 | 4.12 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 2 | 4.12 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 2 | 4.12 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 2 | 4.12 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 2 | 4.12 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 18 | 4.12 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 18 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 18 | 4.12 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 18 | 4.12 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 18 | 4.12 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 18 | 4.12 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 10 | 4.12 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 10 | 4.12 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 19 | 4.12 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 19 | 4.12 |
| (1,9504) | 1:135:A:GLU:HG2 | 1:137:A:ALA:H | 1 | 4.12 |
| (1,9504) | 1:135:A:GLU:HG3 | 1:137:A:ALA:H | 1 | 4.12 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 16 | 4.12 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 16 | 4.12 |
| (1,9448) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 16 | 4.12 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 16 | 4.12 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 16 | 4.12 |
| (1,9448) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 16 | 4.12 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 4 | 4.12 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 4 | 4.12 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 4 | 4.12 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 4 | 4.12 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 4 | 4.12 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 4 | 4.12 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 15 | 4.12 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 15 | 4.12 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 17 | 4.12 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 17 | 4.12 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 4 | 4.12 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 4 | 4.12 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 8 | 4.12 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 8 | 4.12 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 11 | 4.12 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 11 | 4.12 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB2 | 16 | 4.12 |
| (1,9411) | 1:126:A:SER:HA | 1:127:A:ARG:HB3 | 16 | 4.12 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 16 | 4.12 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 16 | 4.12 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 16 | 4.12 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 16 | 4.12 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 16 | 4.12 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 16 | 4.12 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 17 | 4.12 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 17 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 19 | 4.12 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 19 | 4.12 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 9 | 4.12 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 9 | 4.12 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 16 | 4.12 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 16 | 4.12 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 16 | 4.12 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 16 | 4.12 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 20 | 4.12 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 20 | 4.12 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 9 | 4.12 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 9 | 4.12 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 9 | 4.12 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 9 | 4.12 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 9 | 4.12 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 9 | 4.12 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 7 | 4.12 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 7 | 4.12 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 7 | 4.12 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 7 | 4.12 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 3 | 4.12 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 3 | 4.12 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 3 | 4.12 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 3 | 4.12 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 3 | 4.12 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 3 | 4.12 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 10 | 4.12 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 10 | 4.12 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 2 | 4.12 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 2 | 4.12 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 4 | 4.12 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 4 | 4.12 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 5 | 4.12 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 5 | 4.12 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 9 | 4.12 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 9 | 4.12 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 6 | 4.12 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 6 | 4.12 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 17 | 4.12 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 17 | 4.12 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 17 | 4.12 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 17 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 17 | 4.12 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 17 | 4.12 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 18 | 4.12 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 18 | 4.12 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 4.12 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 4.12 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 6 | 4.12 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 6 | 4.12 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 6 | 4.12 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 6 | 4.12 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 6 | 4.12 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 6 | 4.12 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 10 | 4.12 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 10 | 4.12 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 9 | 4.12 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 9 | 4.12 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 7 | 4.12 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 7 | 4.12 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 7 | 4.12 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 7 | 4.12 |
| (1,8535) | 1:3:A:ASP:HB2 | 1:4:A:GLU:HA | 17 | 4.12 |
| (1,8535) | 1:3:A:ASP:HB3 | 1:4:A:GLU:HA | 17 | 4.12 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 2 | 4.12 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 2 | 4.12 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 3 | 4.12 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 5 | 4.12 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 5 | 4.12 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 5 | 4.12 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 5 | 4.12 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 5 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 5 | 4.12 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 5 | 4.12 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 5 | 4.12 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 5 | 4.12 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 5 | 4.12 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 5 | 4.12 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 5 | 4.12 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 12 | 4.12 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 12 | 4.12 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 12 | 4.12 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 17 | 4.12 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 17 | 4.12 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 17 | 4.12 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 19 | 4.12 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 19 | 4.12 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 19 | 4.12 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 3 | 4.12 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 3 | 4.12 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 1 | 4.12 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 11 | 4.12 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 4 | 4.12 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 2 | 4.12 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 5 | 4.12 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 5 | 4.12 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 5 | 4.12 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 10 | 4.12 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 17 | 4.12 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 19 | 4.12 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 19 | 4.12 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 19 | 4.12 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 19 | 4.12 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 15 | 4.12 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 15 | 4.12 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 15 | 4.12 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 12 | 4.12 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 12 | 4.12 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 12 | 4.12 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG21 | 13 | 4.12 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG22 | 13 | 4.12 |
| (1,7731) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HG23 | 13 | 4.12 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG21 | 13 | 4.12 |
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG22 | 13 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7731) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HG23 | 13 | 4.12 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 13 | 4.12 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 13 | 4.12 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 16 | 4.12 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 16 | 4.12 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 19 | 4.12 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 19 | 4.12 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 6 | 4.12 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 13 | 4.12 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 19 | 4.12 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 1 | 4.12 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 6 | 4.12 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 20 | 4.12 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 7 | 4.12 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 5 | 4.12 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 2 | 4.12 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 12 | 4.12 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 6 | 4.12 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 17 | 4.12 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 9 | 4.12 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 14 | 4.12 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 20 | 4.12 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 20 | 4.12 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 20 | 4.12 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 5 | 4.12 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 5 | 4.12 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 14 | 4.12 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 14 | 4.12 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 19 | 4.12 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 19 | 4.12 |
| (1,7334) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 14 | 4.12 |
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 2 | 4.12 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 11 | 4.12 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 20 | 4.12 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 20 | 4.12 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 20 | 4.12 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 20 | 4.12 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 5 | 4.12 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 5 | 4.12 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 5 | 4.12 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 1 | 4.12 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 1 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 16 | 4.12 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 2 | 4.12 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 15 | 4.12 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 15 | 4.12 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 15 | 4.12 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 15 | 4.12 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 15 | 4.12 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 14 | 4.12 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 14 | 4.12 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 6 | 4.12 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 6 | 4.12 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 10 | 4.12 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 10 | 4.12 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 16 | 4.12 |
| (1,6712) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 20 | 4.12 |
| (1,6700) | 1:16:A:SER:H | 1:21:A:ARG:H | 8 | 4.12 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 15 | 4.12 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 15 | 4.12 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 15 | 4.12 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 11 | 4.12 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 11 | 4.12 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 11 | 4.12 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 11 | 4.12 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 18 | 4.12 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 18 | 4.12 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 18 | 4.12 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 5 | 4.12 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 3 | 4.12 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 6 | 4.12 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 6 | 4.12 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 6 | 4.12 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 18 | 4.12 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 18 | 4.12 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 18 | 4.12 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 16 | 4.12 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 16 | 4.12 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 16 | 4.12 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 16 | 4.12 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 16 | 4.12 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 16 | 4.12 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 15 | 4.12 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 15 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 15 | 4.12 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 6 | 4.12 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 9 | 4.12 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 9 | 4.12 |
| (1,6201) | 1:143:A:THR:H | 1:144:A:GLY:H | 5 | 4.12 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 6 | 4.12 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 6 | 4.12 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 13 | 4.12 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 13 | 4.12 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 13 | 4.12 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 13 | 4.12 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 13 | 4.12 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 13 | 4.12 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 9 | 4.12 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 9 | 4.12 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 9 | 4.12 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 13 | 4.12 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 13 | 4.12 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 13 | 4.12 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 20 | 4.12 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 20 | 4.12 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 20 | 4.12 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 17 | 4.12 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 11 | 4.12 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 11 | 4.12 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 11 | 4.12 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 11 | 4.12 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 11 | 4.12 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 11 | 4.12 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 11 | 4.12 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 11 | 4.12 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 11 | 4.12 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 8 | 4.12 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 9 | 4.12 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 19 | 4.12 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 19 | 4.12 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 19 | 4.12 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 17 | 4.12 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 17 | 4.12 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 17 | 4.12 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 12 | 4.12 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 6 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 12 | 4.12 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 9 | 4.12 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 9 | 4.12 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 9 | 4.12 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 11 | 4.12 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 5 | 4.12 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 5 | 4.12 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 5 | 4.12 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 17 | 4.12 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 17 | 4.12 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 20 | 4.12 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 15 | 4.12 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 7 | 4.12 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 8 | 4.12 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 12 | 4.12 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 12 | 4.12 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 12 | 4.12 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 8 | 4.12 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 8 | 4.12 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 8 | 4.12 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 6 | 4.12 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 16 | 4.12 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 14 | 4.12 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 14 | 4.12 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 14 | 4.12 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 4 | 4.12 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 19 | 4.12 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 19 | 4.12 |
| (1,5417) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 19 | 4.12 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 4 | 4.12 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 11 | 4.12 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 18 | 4.12 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 18 | 4.12 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 18 | 4.12 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 1 | 4.12 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 1 | 4.12 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 1 | 4.12 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 2 | 4.12 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 2 | 4.12 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 2 | 4.12 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 13 | 4.12 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 13 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 13 | 4.12 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 17 | 4.12 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 17 | 4.12 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 17 | 4.12 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 8 | 4.12 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 8 | 4.12 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 8 | 4.12 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 16 | 4.12 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 9 | 4.12 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 6 | 4.12 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 12 | 4.12 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 1 | 4.12 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 1 | 4.12 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 1 | 4.12 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 10 | 4.12 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 14 | 4.12 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 7 | 4.12 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 7 | 4.12 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 20 | 4.12 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 20 | 4.12 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 20 | 4.12 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 10 | 4.12 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 10 | 4.12 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 10 | 4.12 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 16 | 4.12 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 5 | 4.12 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 5 | 4.12 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 5 | 4.12 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 16 | 4.12 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 16 | 4.12 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 16 | 4.12 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 19 | 4.12 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 19 | 4.12 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 11 | 4.12 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 11 | 4.12 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 11 | 4.12 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 11 | 4.12 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 7 | 4.12 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 7 | 4.12 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 11 | 4.12 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 11 | 4.12 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 2 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 2 | 4.12 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 2 | 4.12 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 2 | 4.12 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 2 | 4.12 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 2 | 4.12 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 10 | 4.12 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 10 | 4.12 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 10 | 4.12 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 10 | 4.12 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 10 | 4.12 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 10 | 4.12 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 18 | 4.12 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 18 | 4.12 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 18 | 4.12 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 18 | 4.12 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 18 | 4.12 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 18 | 4.12 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 8 | 4.12 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 8 | 4.12 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 16 | 4.12 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 16 | 4.12 |
| (1,4438) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 16 | 4.12 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 16 | 4.12 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 16 | 4.12 |
| (1,4438) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 16 | 4.12 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 4 | 4.12 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 4 | 4.12 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 4 | 4.12 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 4 | 4.12 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 4 | 4.12 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 4 | 4.12 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 17 | 4.12 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 17 | 4.12 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 4 | 4.12 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 4 | 4.12 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 8 | 4.12 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 8 | 4.12 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 11 | 4.12 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 11 | 4.12 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 6 | 4.12 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 4.12 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 4.12 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 9 | 4.12 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 18 | 4.12 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 2 | 4.12 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 2 | 4.12 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 2 | 4.12 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 2 | 4.12 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 2 | 4.12 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 2 | 4.12 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 19 | 4.12 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 19 | 4.12 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 19 | 4.12 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 12 | 4.12 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 2 | 4.12 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 1 | 4.12 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 1 | 4.12 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 1 | 4.12 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 9 | 4.12 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 9 | 4.12 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 9 | 4.12 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 9 | 4.12 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 9 | 4.12 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 9 | 4.12 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 3 | 4.12 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 3 | 4.12 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 3 | 4.12 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 3 | 4.12 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 3 | 4.12 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 3 | 4.12 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 16 | 4.12 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 5 | 4.12 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 5 | 4.12 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 5 | 4.12 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 5 | 4.12 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 9 | 4.12 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 9 | 4.12 |
| (1,3920) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 19 | 4.12 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 11 | 4.12 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 4.12 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 4.12 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 4.12 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 11 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 11 | 4.12 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 11 | 4.12 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 15 | 4.12 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 15 | 4.12 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 15 | 4.12 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 15 | 4.12 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 15 | 4.12 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 15 | 4.12 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 13 | 4.12 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 6 | 4.12 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 6 | 4.12 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 17 | 4.12 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 17 | 4.12 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 17 | 4.12 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 17 | 4.12 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 17 | 4.12 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 17 | 4.12 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 15 | 4.12 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 18 | 4.12 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 18 | 4.12 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 18 | 4.12 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 9 | 4.12 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 9 | 4.12 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 1 | 4.12 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 2 | 4.12 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 2 | 4.12 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 12 | 4.12 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 12 | 4.12 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 12 | 4.12 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 5 | 4.12 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 5 | 4.12 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 5 | 4.12 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 4.12 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 8 | 4.12 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 5 | 4.12 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 3 | 4.12 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 3 | 4.12 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 1 | 4.12 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 1 | 4.12 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 16 | 4.12 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 9 | 4.12 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 2 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 15 | 4.12 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 15 | 4.12 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 15 | 4.12 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 15 | 4.12 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 15 | 4.12 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 1 | 4.12 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 1 | 4.12 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 1 | 4.12 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 14 | 4.12 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 14 | 4.12 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 1 | 4.12 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 1 | 4.12 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 13 | 4.12 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 13 | 4.12 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 7 | 4.12 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 7 | 4.12 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 2 | 4.12 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 2 | 4.12 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 2 | 4.12 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 2 | 4.12 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 2 | 4.12 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 2 | 4.12 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 6 | 4.12 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 6 | 4.12 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 10 | 4.12 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 10 | 4.12 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 11 | 4.12 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 11 | 4.12 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 15 | 4.12 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 15 | 4.12 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 16 | 4.12 |
| (1,2624) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 20 | 4.12 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 4 | 4.12 |
| (1,2606) | 1:16:A:SER:H | 1:21:A:ARG:H | 8 | 4.12 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 15 | 4.12 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 15 | 4.12 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 15 | 4.12 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 20 | 4.12 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 11 | 4.12 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 11 | 4.12 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 11 | 4.12 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 11 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 18 | 4.12 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 18 | 4.12 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 18 | 4.12 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 5 | 4.12 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 12 | 4.12 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 15 | 4.12 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 15 | 4.12 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 15 | 4.12 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 14 | 4.12 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 14 | 4.12 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 14 | 4.12 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 14 | 4.12 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 14 | 4.12 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 14 | 4.12 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 14 | 4.12 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 14 | 4.12 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 14 | 4.12 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 1 | 4.12 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 2 | 4.12 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 3 | 4.12 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 15 | 4.12 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 15 | 4.12 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 15 | 4.12 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 6 | 4.12 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 6 | 4.12 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 6 | 4.12 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 18 | 4.12 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 18 | 4.12 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 18 | 4.12 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 16 | 4.12 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 16 | 4.12 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 16 | 4.12 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 4.12 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 4.12 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 16 | 4.12 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 16 | 4.12 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 16 | 4.12 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 2 | 4.12 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 15 | 4.12 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 15 | 4.12 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 15 | 4.12 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 6 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 6 | 4.12 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 6 | 4.12 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 6 | 4.12 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 9 | 4.12 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 9 | 4.12 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 1 | 4.12 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 1 | 4.12 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 1 | 4.12 |
| (1,1816) | 1:143:A:THR:H | 1:144:A:GLY:H | 5 | 4.12 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 6 | 4.12 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 6 | 4.12 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 13 | 4.12 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 13 | 4.12 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 13 | 4.12 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 13 | 4.12 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 13 | 4.12 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 13 | 4.12 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 9 | 4.12 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 9 | 4.12 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 9 | 4.12 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 13 | 4.12 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 13 | 4.12 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 13 | 4.12 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 3 | 4.12 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 3 | 4.12 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 3 | 4.12 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 20 | 4.12 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 20 | 4.12 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 20 | 4.12 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 17 | 4.12 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 11 | 4.12 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 11 | 4.12 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 11 | 4.12 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 11 | 4.12 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 11 | 4.12 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 11 | 4.12 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 11 | 4.12 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 11 | 4.12 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 11 | 4.12 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 8 | 4.12 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 9 | 4.12 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 2 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 2 | 4.12 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 2 | 4.12 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 19 | 4.12 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 19 | 4.12 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 19 | 4.12 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 17 | 4.12 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 17 | 4.12 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 17 | 4.12 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 12 | 4.12 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 14 | 4.12 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 6 | 4.12 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 7 | 4.12 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 12 | 4.12 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 9 | 4.12 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 9 | 4.12 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 9 | 4.12 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 11 | 4.12 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 7 | 4.12 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 18 | 4.12 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 18 | 4.12 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 5 | 4.12 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 5 | 4.12 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 5 | 4.12 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 17 | 4.12 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 17 | 4.12 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 20 | 4.12 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 14 | 4.12 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 15 | 4.12 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 7 | 4.12 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 8 | 4.12 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 16 | 4.12 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 14 | 4.12 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 14 | 4.12 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 13 | 4.12 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 13 | 4.12 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 13 | 4.12 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 13 | 4.12 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 13 | 4.12 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 13 | 4.12 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 12 | 4.12 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 12 | 4.12 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 12 | 4.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 8 | 4.12 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 8 | 4.12 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 8 | 4.12 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 6 | 4.12 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 16 | 4.12 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 14 | 4.12 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 14 | 4.12 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 14 | 4.12 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 4 | 4.12 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 8 | 4.12 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 8 | 4.12 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 8 | 4.12 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 8 | 4.12 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 8 | 4.12 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 8 | 4.12 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 18 | 4.12 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 18 | 4.12 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 18 | 4.12 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 18 | 4.12 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 18 | 4.12 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 18 | 4.12 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 3 | 4.12 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 3 | 4.12 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 14 | 4.12 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 4 | 4.11 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 16 | 4.11 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 12 | 4.11 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 12 | 4.11 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 20 | 4.11 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 15 | 4.11 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 17 | 4.11 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 4 | 4.11 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 4 | 4.11 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 1 | 4.11 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 1 | 4.11 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 17 | 4.11 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 17 | 4.11 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 3 | 4.11 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 3 | 4.11 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 4.11 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 4.11 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 15 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 15 | 4.11 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 15 | 4.11 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 15 | 4.11 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 15 | 4.11 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 15 | 4.11 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 9 | 4.11 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 9 | 4.11 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 17 | 4.11 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 17 | 4.11 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 8 | 4.11 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 8 | 4.11 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 8 | 4.11 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 8 | 4.11 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 8 | 4.11 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 8 | 4.11 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 15 | 4.11 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 15 | 4.11 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 15 | 4.11 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 15 | 4.11 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 15 | 4.11 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 15 | 4.11 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 14 | 4.11 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 14 | 4.11 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 1 | 4.11 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 1 | 4.11 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 13 | 4.11 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 13 | 4.11 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 1 | 4.11 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 1 | 4.11 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 4 | 4.11 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 4 | 4.11 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 4 | 4.11 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 4 | 4.11 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 4 | 4.11 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 4 | 4.11 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 8 | 4.11 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 8 | 4.11 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 2 | 4.11 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 2 | 4.11 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 2 | 4.11 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 2 | 4.11 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 2 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 2 | 4.11 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 2 | 4.11 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 2 | 4.11 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 5 | 4.11 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 5 | 4.11 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 13 | 4.11 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 13 | 4.11 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 16 | 4.11 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 16 | 4.11 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 16 | 4.11 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 16 | 4.11 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 16 | 4.11 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 16 | 4.11 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 6 | 4.11 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 6 | 4.11 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 6 | 4.11 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 6 | 4.11 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 6 | 4.11 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 6 | 4.11 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 2 | 4.11 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 2 | 4.11 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 8 | 4.11 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 8 | 4.11 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 8 | 4.11 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 8 | 4.11 |
| (1,8789) | 1:56:A:ARG:HD2 | 1:124:A:ALA:H | 2 | 4.11 |
| (1,8789) | 1:56:A:ARG:HD3 | 1:124:A:ALA:H | 2 | 4.11 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 7 | 4.11 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 7 | 4.11 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 7 | 4.11 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 7 | 4.11 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 7 | 4.11 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 7 | 4.11 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA2 | 8 | 4.11 |
| (1,8615) | 1:15:A:MET:HB2 | 1:20:A:GLY:HA3 | 8 | 4.11 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA2 | 8 | 4.11 |
| (1,8615) | 1:15:A:MET:HB3 | 1:20:A:GLY:HA3 | 8 | 4.11 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 7 | 4.11 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 7 | 4.11 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 8 | 4.11 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 8 | 4.11 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 9 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 9 | 4.11 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 6 | 4.11 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 6 | 4.11 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 6 | 4.11 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 19 | 4.11 |
| (1,8503) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 10 | 4.11 |
| (1,8503) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 10 | 4.11 |
| (1,8503) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 10 | 4.11 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 5 | 4.11 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 5 | 4.11 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 5 | 4.11 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 5 | 4.11 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 5 | 4.11 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 5 | 4.11 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 8 | 4.11 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 9 | 4.11 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 9 | 4.11 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 9 | 4.11 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 20 | 4.11 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 1 | 4.11 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 1 | 4.11 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 19 | 4.11 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 19 | 4.11 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 16 | 4.11 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 11 | 4.11 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 14 | 4.11 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 6 | 4.11 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 6 | 4.11 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 6 | 4.11 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 2 | 4.11 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 17 | 4.11 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 16 | 4.11 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 16 | 4.11 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 16 | 4.11 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 16 | 4.11 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 16 | 4.11 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 16 | 4.11 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 9 | 4.11 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 9 | 4.11 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 9 | 4.11 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 2 | 4.11 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 13 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 13 | 4.11 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 13 | 4.11 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 5 | 4.11 |
| (1,8157) | 1:96:A:ILE:HA | 1:101:A:GLU:HB3 | 8 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 14 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 14 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 14 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 14 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 14 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 14 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 14 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 14 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 14 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 15 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 15 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 15 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 15 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 15 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 15 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 15 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 15 | 4.11 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 15 | 4.11 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 14 | 4.11 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 18 | 4.11 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 11 | 4.11 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 8 | 4.11 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 5 | 4.11 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 5 | 4.11 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 5 | 4.11 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 16 | 4.11 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 16 | 4.11 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 16 | 4.11 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 1 | 4.11 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 1 | 4.11 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 1 | 4.11 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 20 | 4.11 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 12 | 4.11 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 1 | 4.11 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 1 | 4.11 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 17 | 4.11 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 17 | 4.11 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 4 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 7 | 4.11 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 7 | 4.11 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 7 | 4.11 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 4 | 4.11 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 5 | 4.11 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 10 | 4.11 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 4 | 4.11 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 11 | 4.11 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 10 | 4.11 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 2 | 4.11 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 2 | 4.11 |
| (1,7426) | 1:7:A:LEU:HD21 | 1:11:A:TRP:H | 14 | 4.11 |
| (1,7426) | 1:7:A:LEU:HD22 | 1:11:A:TRP:H | 14 | 4.11 |
| (1,7426) | 1:7:A:LEU:HD23 | 1:11:A:TRP:H | 14 | 4.11 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 7 | 4.11 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 7 | 4.11 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 7 | 4.11 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 14 | 4.11 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 14 | 4.11 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 14 | 4.11 |
| (1,7414) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 3 | 4.11 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 2 | 4.11 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 2 | 4.11 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 2 | 4.11 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 16 | 4.11 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 2 | 4.11 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 2 | 4.11 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 2 | 4.11 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 3 | 4.11 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 3 | 4.11 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 9 | 4.11 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 9 | 4.11 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 17 | 4.11 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 16 | 4.11 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 16 | 4.11 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 16 | 4.11 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 11 | 4.11 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 11 | 4.11 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 11 | 4.11 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 20 | 4.11 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 20 | 4.11 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 17 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 4.11 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 4.11 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 14 | 4.11 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 14 | 4.11 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 14 | 4.11 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 14 | 4.11 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 14 | 4.11 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 2 | 4.11 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 2 | 4.11 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 7 | 4.11 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 12 | 4.11 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 12 | 4.11 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 17 | 4.11 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 17 | 4.11 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 12 | 4.11 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 6 | 4.11 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 3 | 4.11 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 3 | 4.11 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 8 | 4.11 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 8 | 4.11 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 4 | 4.11 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 4 | 4.11 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 15 | 4.11 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 3 | 4.11 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 6 | 4.11 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 7 | 4.11 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 7 | 4.11 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 12 | 4.11 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 3 | 4.11 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 3 | 4.11 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 3 | 4.11 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 14 | 4.11 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 14 | 4.11 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 14 | 4.11 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 17 | 4.11 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 15 | 4.11 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 16 | 4.11 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 16 | 4.11 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 16 | 4.11 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 8 | 4.11 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 8 | 4.11 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 8 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 8 | 4.11 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 8 | 4.11 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 8 | 4.11 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 9 | 4.11 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 9 | 4.11 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 9 | 4.11 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 16 | 4.11 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 16 | 4.11 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 16 | 4.11 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 16 | 4.11 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 16 | 4.11 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 16 | 4.11 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 16 | 4.11 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 16 | 4.11 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 16 | 4.11 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 16 | 4.11 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 16 | 4.11 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 18 | 4.11 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 17 | 4.11 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 17 | 4.11 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 6 | 4.11 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 6 | 4.11 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 20 | 4.11 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 20 | 4.11 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 20 | 4.11 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 8 | 4.11 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 8 | 4.11 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 7 | 4.11 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 7 | 4.11 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 16 | 4.11 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 17 | 4.11 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 17 | 4.11 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 17 | 4.11 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 17 | 4.11 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 17 | 4.11 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 17 | 4.11 |
| (1,5770) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 1 | 4.11 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 16 | 4.11 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 16 | 4.11 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 16 | 4.11 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 10 | 4.11 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 15 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 12 | 4.11 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 15 | 4.11 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 15 | 4.11 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 15 | 4.11 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 2 | 4.11 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 4 | 4.11 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 4 | 4.11 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 4 | 4.11 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 1 | 4.11 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 1 | 4.11 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 1 | 4.11 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 5 | 4.11 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 5 | 4.11 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 5 | 4.11 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 5 | 4.11 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 5 | 4.11 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 5 | 4.11 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 5 | 4.11 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 5 | 4.11 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 5 | 4.11 |
| (1,5385) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 7 | 4.11 |
| (1,5385) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 7 | 4.11 |
| (1,5385) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 7 | 4.11 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 12 | 4.11 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 1 | 4.11 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 7 | 4.11 |
| (1,5288) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 16 | 4.11 |
| (1,5288) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 16 | 4.11 |
| (1,5288) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 16 | 4.11 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 20 | 4.11 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 20 | 4.11 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 20 | 4.11 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 3 | 4.11 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 3 | 4.11 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 3 | 4.11 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 2 | 4.11 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 10 | 4.11 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 5 | 4.11 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 19 | 4.11 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 19 | 4.11 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 19 | 4.11 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 19 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 19 | 4.11 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 19 | 4.11 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 19 | 4.11 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 19 | 4.11 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 19 | 4.11 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 19 | 4.11 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 19 | 4.11 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 19 | 4.11 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 17 | 4.11 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 17 | 4.11 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 17 | 4.11 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 17 | 4.11 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 17 | 4.11 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 17 | 4.11 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 17 | 4.11 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 17 | 4.11 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 17 | 4.11 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 20 | 4.11 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 20 | 4.11 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 20 | 4.11 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 11 | 4.11 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 11 | 4.11 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 11 | 4.11 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 1 | 4.11 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 1 | 4.11 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 1 | 4.11 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 1 | 4.11 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 1 | 4.11 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 1 | 4.11 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 1 | 4.11 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 1 | 4.11 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 1 | 4.11 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 12 | 4.11 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 12 | 4.11 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 12 | 4.11 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 8 | 4.11 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 8 | 4.11 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 8 | 4.11 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 17 | 4.11 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 17 | 4.11 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 17 | 4.11 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 18 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 18 | 4.11 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 10 | 4.11 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 10 | 4.11 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 10 | 4.11 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 10 | 4.11 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 10 | 4.11 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 10 | 4.11 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 11 | 4.11 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 19 | 4.11 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 19 | 4.11 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 19 | 4.11 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 11 | 4.11 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 11 | 4.11 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 11 | 4.11 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 3 | 4.11 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 3 | 4.11 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 4.11 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 4.11 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 15 | 4.11 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 18 | 4.11 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 18 | 4.11 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 5 | 4.11 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 1 | 4.11 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 1 | 4.11 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 15 | 4.11 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 15 | 4.11 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 4 | 4.11 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 5 | 4.11 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 12 | 4.11 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 8 | 4.11 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 8 | 4.11 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 8 | 4.11 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 8 | 4.11 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 8 | 4.11 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 8 | 4.11 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 19 | 4.11 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 19 | 4.11 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 19 | 4.11 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 19 | 4.11 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 15 | 4.11 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 15 | 4.11 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 15 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 15 | 4.11 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 15 | 4.11 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 15 | 4.11 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 14 | 4.11 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 14 | 4.11 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 1 | 4.11 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 1 | 4.11 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 13 | 4.11 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 13 | 4.11 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 12 | 4.11 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 6 | 4.11 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 2 | 4.11 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 2 | 4.11 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 2 | 4.11 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 1 | 4.11 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 1 | 4.11 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 4 | 4.11 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 4 | 4.11 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 4 | 4.11 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 4 | 4.11 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 4 | 4.11 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 4 | 4.11 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 8 | 4.11 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 8 | 4.11 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 12 | 4.11 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 2 | 4.11 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 2 | 4.11 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 6 | 4.11 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 6 | 4.11 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 6 | 4.11 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 6 | 4.11 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 6 | 4.11 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 6 | 4.11 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 6 | 4.11 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 6 | 4.11 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 6 | 4.11 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 6 | 4.11 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 6 | 4.11 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 6 | 4.11 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 2 | 4.11 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 2 | 4.11 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 2 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 7 | 4.11 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 7 | 4.11 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 7 | 4.11 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 7 | 4.11 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 7 | 4.11 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 7 | 4.11 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 7 | 4.11 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 7 | 4.11 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 7 | 4.11 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 17 | 4.11 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 9 | 4.11 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 9 | 4.11 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 4 | 4.11 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 4 | 4.11 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 4 | 4.11 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 7 | 4.11 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 10 | 4.11 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 10 | 4.11 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 10 | 4.11 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 16 | 4.11 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 16 | 4.11 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 16 | 4.11 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 11 | 4.11 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 11 | 4.11 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 11 | 4.11 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 20 | 4.11 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 20 | 4.11 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 17 | 4.11 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 4.11 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 4.11 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 14 | 4.11 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 14 | 4.11 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 14 | 4.11 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 14 | 4.11 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 14 | 4.11 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 14 | 4.11 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 5 | 4.11 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 2 | 4.11 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 2 | 4.11 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 10 | 4.11 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 12 | 4.11 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 7 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 12 | 4.11 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 12 | 4.11 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 17 | 4.11 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 17 | 4.11 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 12 | 4.11 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 6 | 4.11 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 3 | 4.11 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 3 | 4.11 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 8 | 4.11 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 8 | 4.11 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 4 | 4.11 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 4 | 4.11 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 15 | 4.11 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 8 | 4.11 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 3 | 4.11 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 3 | 4.11 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 9 | 4.11 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 3 | 4.11 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 6 | 4.11 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 7 | 4.11 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 7 | 4.11 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 5 | 4.11 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 6 | 4.11 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 11 | 4.11 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 12 | 4.11 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 3 | 4.11 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 3 | 4.11 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 3 | 4.11 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 1 | 4.11 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 1 | 4.11 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 1 | 4.11 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 14 | 4.11 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 14 | 4.11 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 14 | 4.11 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 17 | 4.11 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 15 | 4.11 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 16 | 4.11 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 16 | 4.11 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 16 | 4.11 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 8 | 4.11 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 8 | 4.11 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 8 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 8 | 4.11 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 8 | 4.11 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 8 | 4.11 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 9 | 4.11 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 9 | 4.11 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 9 | 4.11 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 2 | 4.11 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 2 | 4.11 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 2 | 4.11 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 16 | 4.11 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 16 | 4.11 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 5 | 4.11 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 16 | 4.11 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 16 | 4.11 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 16 | 4.11 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 16 | 4.11 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 16 | 4.11 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 16 | 4.11 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 16 | 4.11 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 16 | 4.11 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 16 | 4.11 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 18 | 4.11 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 17 | 4.11 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 17 | 4.11 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 6 | 4.11 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 6 | 4.11 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 5 | 4.11 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 5 | 4.11 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 5 | 4.11 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 8 | 4.11 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 20 | 4.11 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 20 | 4.11 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 20 | 4.11 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 8 | 4.11 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 8 | 4.11 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 7 | 4.11 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 7 | 4.11 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 16 | 4.11 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 17 | 4.11 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 17 | 4.11 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 17 | 4.11 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 17 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 17 | 4.11 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 17 | 4.11 |
| (1,1118) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 1 | 4.11 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 16 | 4.11 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 16 | 4.11 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 16 | 4.11 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 16 | 4.11 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 10 | 4.11 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 15 | 4.11 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 12 | 4.11 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 15 | 4.11 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 15 | 4.11 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 15 | 4.11 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 19 | 4.11 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 2 | 4.11 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 4 | 4.11 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 4 | 4.11 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 4 | 4.11 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 1 | 4.11 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 1 | 4.11 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 1 | 4.11 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 7 | 4.11 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 5 | 4.11 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 5 | 4.11 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 5 | 4.11 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 5 | 4.11 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 5 | 4.11 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 5 | 4.11 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 20 | 4.11 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 20 | 4.11 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 10 | 4.11 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 13 | 4.1 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 14 | 4.1 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 20 | 4.1 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 17 | 4.1 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 11 | 4.1 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 11 | 4.1 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 1 | 4.1 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 1 | 4.1 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 6 | 4.1 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 6 | 4.1 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 6 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 6 | 4.1 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 6 | 4.1 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 6 | 4.1 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 17 | 4.1 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 17 | 4.1 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 17 | 4.1 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 17 | 4.1 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 17 | 4.1 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 17 | 4.1 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 13 | 4.1 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 13 | 4.1 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 13 | 4.1 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 13 | 4.1 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 14 | 4.1 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 14 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 3 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 3 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 3 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 3 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 3 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 3 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 17 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 17 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 17 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 17 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 17 | 4.1 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 17 | 4.1 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 10 | 4.1 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 10 | 4.1 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 11 | 4.1 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 11 | 4.1 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 9 | 4.1 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 9 | 4.1 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 8 | 4.1 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 8 | 4.1 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 8 | 4.1 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 8 | 4.1 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 6 | 4.1 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 6 | 4.1 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 6 | 4.1 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 6 | 4.1 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 5 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 5 | 4.1 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 18 | 4.1 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 18 | 4.1 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 16 | 4.1 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 16 | 4.1 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 19 | 4.1 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 19 | 4.1 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 11 | 4.1 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 11 | 4.1 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 15 | 4.1 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 15 | 4.1 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 18 | 4.1 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 18 | 4.1 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 18 | 4.1 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 18 | 4.1 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 18 | 4.1 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 18 | 4.1 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 11 | 4.1 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 11 | 4.1 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 5 | 4.1 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 5 | 4.1 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 13 | 4.1 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 13 | 4.1 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 13 | 4.1 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 13 | 4.1 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 13 | 4.1 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 13 | 4.1 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 3 | 4.1 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 3 | 4.1 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 7 | 4.1 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 7 | 4.1 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 12 | 4.1 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 12 | 4.1 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 13 | 4.1 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 13 | 4.1 |
| (1,8986) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 17 | 4.1 |
| (1,8986) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 17 | 4.1 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 20 | 4.1 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 20 | 4.1 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 12 | 4.1 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 12 | 4.1 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 15 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 15 | 4.1 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 16 | 4.1 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 16 | 4.1 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 14 | 4.1 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 14 | 4.1 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 14 | 4.1 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 14 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 6 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 6 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 6 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 6 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 6 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 6 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 17 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 17 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 17 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 17 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 17 | 4.1 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 17 | 4.1 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 17 | 4.1 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 17 | 4.1 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 17 | 4.1 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 17 | 4.1 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 17 | 4.1 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 17 | 4.1 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 10 | 4.1 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 10 | 4.1 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 10 | 4.1 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 10 | 4.1 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 11 | 4.1 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 11 | 4.1 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 11 | 4.1 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 11 | 4.1 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 11 | 4.1 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 11 | 4.1 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 11 | 4.1 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 11 | 4.1 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 15 | 4.1 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 15 | 4.1 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 18 | 4.1 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 18 | 4.1 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 1 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 1 | 4.1 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 19 | 4.1 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 4 | 4.1 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 4 | 4.1 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG11 | 4 | 4.1 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG12 | 4 | 4.1 |
| (1,8454) | 1:147:A:SER:HB2 | 1:150:A:VAL:HG13 | 4 | 4.1 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG11 | 4 | 4.1 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG12 | 4 | 4.1 |
| (1,8454) | 1:147:A:SER:HB3 | 1:150:A:VAL:HG13 | 4 | 4.1 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 17 | 4.1 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 17 | 4.1 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 17 | 4.1 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 11 | 4.1 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 2 | 4.1 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 19 | 4.1 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 19 | 4.1 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 19 | 4.1 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 4 | 4.1 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 4 | 4.1 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 9 | 4.1 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 9 | 4.1 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 2 | 4.1 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 2 | 4.1 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 2 | 4.1 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 6 | 4.1 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 16 | 4.1 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 19 | 4.1 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 19 | 4.1 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 19 | 4.1 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 15 | 4.1 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 14 | 4.1 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 14 | 4.1 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 14 | 4.1 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 14 | 4.1 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 14 | 4.1 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 14 | 4.1 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 14 | 4.1 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 14 | 4.1 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 14 | 4.1 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 19 | 4.1 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 19 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 19 | 4.1 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 19 | 4.1 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 19 | 4.1 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 19 | 4.1 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 19 | 4.1 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 19 | 4.1 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 19 | 4.1 |
| (1,7806) | 1:60:A:LEU:HD11 | 1:61:A:LEU:H | 15 | 4.1 |
| (1,7806) | 1:60:A:LEU:HD12 | 1:61:A:LEU:H | 15 | 4.1 |
| (1,7806) | 1:60:A:LEU:HD13 | 1:61:A:LEU:H | 15 | 4.1 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 6 | 4.1 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 7 | 4.1 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 19 | 4.1 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 13 | 4.1 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 13 | 4.1 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 2 | 4.1 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 12 | 4.1 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 17 | 4.1 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 8 | 4.1 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 14 | 4.1 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 16 | 4.1 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 6 | 4.1 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 6 | 4.1 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 10 | 4.1 |
| (1,7494) | 1:13:A:LYS:HA | 1:14:A:ARG:HB2 | 11 | 4.1 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 15 | 4.1 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 15 | 4.1 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 1 | 4.1 |
| (1,7460) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 14 | 4.1 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 5 | 4.1 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 12 | 4.1 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 12 | 4.1 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 12 | 4.1 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 6 | 4.1 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 6 | 4.1 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 6 | 4.1 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 4 | 4.1 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 4 | 4.1 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 15 | 4.1 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 5 | 4.1 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 5 | 4.1 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 12 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 18 | 4.1 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 14 | 4.1 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 14 | 4.1 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 14 | 4.1 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 19 | 4.1 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 19 | 4.1 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 19 | 4.1 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 13 | 4.1 |
| (1,7038) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 14 | 4.1 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 13 | 4.1 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 13 | 4.1 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 13 | 4.1 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 4 | 4.1 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 8 | 4.1 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 10 | 4.1 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 1 | 4.1 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 3 | 4.1 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 1 | 4.1 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 1 | 4.1 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 10 | 4.1 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 10 | 4.1 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 5 | 4.1 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 12 | 4.1 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 5 | 4.1 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 15 | 4.1 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 15 | 4.1 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 15 | 4.1 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 12 | 4.1 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 1 | 4.1 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 3 | 4.1 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 14 | 4.1 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 19 | 4.1 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 18 | 4.1 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 2 | 4.1 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 2 | 4.1 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 16 | 4.1 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 16 | 4.1 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 4 | 4.1 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 2 | 4.1 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 5 | 4.1 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 5 | 4.1 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 5 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 5 | 4.1 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 5 | 4.1 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 5 | 4.1 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 5 | 4.1 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 5 | 4.1 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 5 | 4.1 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 2 | 4.1 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 2 | 4.1 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 2 | 4.1 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 2 | 4.1 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 2 | 4.1 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 2 | 4.1 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 2 | 4.1 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 2 | 4.1 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 2 | 4.1 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 9 | 4.1 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 9 | 4.1 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 9 | 4.1 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 8 | 4.1 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 8 | 4.1 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 8 | 4.1 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 13 | 4.1 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 13 | 4.1 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 13 | 4.1 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 13 | 4.1 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 13 | 4.1 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 13 | 4.1 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 13 | 4.1 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 13 | 4.1 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 13 | 4.1 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 13 | 4.1 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 13 | 4.1 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 13 | 4.1 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 1 | 4.1 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 1 | 4.1 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 1 | 4.1 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 10 | 4.1 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 10 | 4.1 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 10 | 4.1 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 7 | 4.1 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 10 | 4.1 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 16 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 16 | 4.1 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 16 | 4.1 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 20 | 4.1 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 20 | 4.1 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 20 | 4.1 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 20 | 4.1 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 20 | 4.1 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 20 | 4.1 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 6 | 4.1 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 19 | 4.1 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 19 | 4.1 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 12 | 4.1 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 11 | 4.1 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 6 | 4.1 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 14 | 4.1 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 14 | 4.1 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 14 | 4.1 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 8 | 4.1 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 6 | 4.1 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 9 | 4.1 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 8 | 4.1 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 8 | 4.1 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 8 | 4.1 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 8 | 4.1 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 16 | 4.1 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 16 | 4.1 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 16 | 4.1 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 11 | 4.1 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 11 | 4.1 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 11 | 4.1 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 15 | 4.1 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 14 | 4.1 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 13 | 4.1 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 12 | 4.1 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 11 | 4.1 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 3 | 4.1 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 4 | 4.1 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 8 | 4.1 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 15 | 4.1 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 1 | 4.1 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 9 | 4.1 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 9 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 9 | 4.1 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 6 | 4.1 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 6 | 4.1 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 6 | 4.1 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 13 | 4.1 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 9 | 4.1 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 12 | 4.1 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 12 | 4.1 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 12 | 4.1 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 12 | 4.1 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 12 | 4.1 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 12 | 4.1 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 12 | 4.1 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 12 | 4.1 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 12 | 4.1 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 9 | 4.1 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 18 | 4.1 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 9 | 4.1 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 9 | 4.1 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 9 | 4.1 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 9 | 4.1 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 3 | 4.1 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 3 | 4.1 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 3 | 4.1 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 4 | 4.1 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 4 | 4.1 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 4 | 4.1 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 10 | 4.1 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 10 | 4.1 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 10 | 4.1 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 20 | 4.1 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 20 | 4.1 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 20 | 4.1 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 4 | 4.1 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 8 | 4.1 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 7 | 4.1 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 16 | 4.1 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 16 | 4.1 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 16 | 4.1 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 17 | 4.1 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 17 | 4.1 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 17 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 17 | 4.1 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 17 | 4.1 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 17 | 4.1 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 17 | 4.1 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 17 | 4.1 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 17 | 4.1 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 8 | 4.1 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 13 | 4.1 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 9 | 4.1 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 1 | 4.1 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 1 | 4.1 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 1 | 4.1 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 2 | 4.1 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 2 | 4.1 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 2 | 4.1 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 1 | 4.1 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 1 | 4.1 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 10 | 4.1 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 8 | 4.1 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 8 | 4.1 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 8 | 4.1 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 18 | 4.1 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 13 | 4.1 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 13 | 4.1 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 13 | 4.1 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 13 | 4.1 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 14 | 4.1 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 14 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 3 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 3 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 3 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 3 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 3 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 3 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 17 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 17 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 17 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 17 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 17 | 4.1 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 17 | 4.1 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 10 | 4.1 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 10 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 11 | 4.1 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 11 | 4.1 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 14 | 4.1 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 14 | 4.1 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 14 | 4.1 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 14 | 4.1 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 14 | 4.1 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 14 | 4.1 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 2 | 4.1 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 5 | 4.1 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 5 | 4.1 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 17 | 4.1 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 17 | 4.1 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 3 | 4.1 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 6 | 4.1 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 19 | 4.1 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 19 | 4.1 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 19 | 4.1 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 19 | 4.1 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 19 | 4.1 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 19 | 4.1 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 12 | 4.1 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 16 | 4.1 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 14 | 4.1 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 14 | 4.1 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 14 | 4.1 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 14 | 4.1 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 18 | 4.1 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 18 | 4.1 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 18 | 4.1 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 18 | 4.1 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 18 | 4.1 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 18 | 4.1 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 19 | 4.1 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 11 | 4.1 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 11 | 4.1 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 3 | 4.1 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 3 | 4.1 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 7 | 4.1 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 7 | 4.1 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 12 | 4.1 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 12 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 13 | 4.1 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 13 | 4.1 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 1 | 4.1 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 1 | 4.1 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 8 | 4.1 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 8 | 4.1 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 8 | 4.1 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 8 | 4.1 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 8 | 4.1 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 8 | 4.1 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 20 | 4.1 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 20 | 4.1 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 12 | 4.1 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 12 | 4.1 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 13 | 4.1 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 13 | 4.1 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 13 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 6 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 6 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 6 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 6 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 6 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 6 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 17 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 17 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 17 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 17 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 17 | 4.1 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 17 | 4.1 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 18 | 4.1 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 18 | 4.1 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 17 | 4.1 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 17 | 4.1 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 17 | 4.1 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 17 | 4.1 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 17 | 4.1 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 17 | 4.1 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 5 | 4.1 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 11 | 4.1 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 11 | 4.1 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 11 | 4.1 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 11 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 7 | 4.1 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 6 | 4.1 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 6 | 4.1 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 6 | 4.1 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 2 | 4.1 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 4.1 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 2 | 4.1 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 15 | 4.1 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 15 | 4.1 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 18 | 4.1 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 18 | 4.1 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 1 | 4.1 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 1 | 4.1 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 12 | 4.1 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 15 | 4.1 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 19 | 4.1 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 15 | 4.1 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 5 | 4.1 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 5 | 4.1 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 12 | 4.1 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 18 | 4.1 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 14 | 4.1 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 14 | 4.1 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 14 | 4.1 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 19 | 4.1 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 19 | 4.1 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 19 | 4.1 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 13 | 4.1 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 10 | 4.1 |
| (1,3094) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 14 | 4.1 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 13 | 4.1 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 13 | 4.1 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 13 | 4.1 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 4 | 4.1 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 8 | 4.1 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 10 | 4.1 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 1 | 4.1 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 5 | 4.1 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 10 | 4.1 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 12 | 4.1 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 17 | 4.1 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 5 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 17 | 4.1 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 20 | 4.1 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 4 | 4.1 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 3 | 4.1 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 1 | 4.1 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 1 | 4.1 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 10 | 4.1 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 10 | 4.1 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 5 | 4.1 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 5 | 4.1 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 15 | 4.1 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 15 | 4.1 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 15 | 4.1 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 19 | 4.1 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 12 | 4.1 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 1 | 4.1 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 3 | 4.1 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 18 | 4.1 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 18 | 4.1 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 18 | 4.1 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 14 | 4.1 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 19 | 4.1 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 18 | 4.1 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 4 | 4.1 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 7 | 4.1 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 9 | 4.1 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 2 | 4.1 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 10 | 4.1 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 5 | 4.1 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 5 | 4.1 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 5 | 4.1 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 5 | 4.1 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 5 | 4.1 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 5 | 4.1 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 5 | 4.1 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 5 | 4.1 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 5 | 4.1 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 15 | 4.1 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 18 | 4.1 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 11 | 4.1 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 11 | 4.1 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 11 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 2 | 4.1 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 2 | 4.1 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 2 | 4.1 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 2 | 4.1 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 2 | 4.1 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 2 | 4.1 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 2 | 4.1 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 2 | 4.1 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 2 | 4.1 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 15 | 4.1 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 15 | 4.1 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 9 | 4.1 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 9 | 4.1 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 9 | 4.1 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 8 | 4.1 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 8 | 4.1 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 8 | 4.1 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 13 | 4.1 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 13 | 4.1 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 13 | 4.1 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 12 | 4.1 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 4.1 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 13 | 4.1 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 13 | 4.1 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 13 | 4.1 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 13 | 4.1 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 13 | 4.1 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 13 | 4.1 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 13 | 4.1 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 13 | 4.1 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 13 | 4.1 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 1 | 4.1 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 1 | 4.1 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 1 | 4.1 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 10 | 4.1 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 10 | 4.1 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 10 | 4.1 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 18 | 4.1 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 7 | 4.1 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 10 | 4.1 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 8 | 4.1 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 16 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 16 | 4.1 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 16 | 4.1 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 20 | 4.1 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 20 | 4.1 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 20 | 4.1 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 20 | 4.1 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 20 | 4.1 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 20 | 4.1 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 6 | 4.1 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 17 | 4.1 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 17 | 4.1 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 17 | 4.1 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 19 | 4.1 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 19 | 4.1 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 4 | 4.1 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 4 | 4.1 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 12 | 4.1 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 6 | 4.1 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 14 | 4.1 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 14 | 4.1 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 14 | 4.1 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 8 | 4.1 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 6 | 4.1 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 9 | 4.1 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 8 | 4.1 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 8 | 4.1 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 8 | 4.1 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 8 | 4.1 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 20 | 4.1 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 20 | 4.1 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 20 | 4.1 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 20 | 4.1 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 20 | 4.1 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 20 | 4.1 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 5 | 4.1 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 16 | 4.1 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 16 | 4.1 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 16 | 4.1 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 11 | 4.1 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 11 | 4.1 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 11 | 4.1 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 4.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 11 | 4.1 |
| (1,1056) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 1 | 4.1 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 15 | 4.1 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 14 | 4.1 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 6 | 4.1 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 13 | 4.1 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 12 | 4.1 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 11 | 4.1 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 3 | 4.1 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 4 | 4.1 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 4.1 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 1 | 4.1 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 15 | 4.1 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 4 | 4.1 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 16 | 4.1 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 8 | 4.1 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 4 | 4.1 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 4 | 4.1 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 4 | 4.1 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 15 | 4.1 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 1 | 4.1 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 9 | 4.1 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 9 | 4.1 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 9 | 4.1 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 19 | 4.1 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 14 | 4.1 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 14 | 4.1 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 14 | 4.1 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 10 | 4.1 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 4 | 4.09 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 3 | 4.09 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 6 | 4.09 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 6 | 4.09 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 16 | 4.09 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 16 | 4.09 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 1 | 4.09 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 1 | 4.09 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 16 | 4.09 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 16 | 4.09 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 16 | 4.09 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 16 | 4.09 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 3 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 3 | 4.09 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 10 | 4.09 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 10 | 4.09 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 17 | 4.09 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 17 | 4.09 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 2 | 4.09 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 2 | 4.09 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 11 | 4.09 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 11 | 4.09 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 2 | 4.09 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 2 | 4.09 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 10 | 4.09 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 10 | 4.09 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 10 | 4.09 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 10 | 4.09 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 10 | 4.09 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 10 | 4.09 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 4 | 4.09 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 4 | 4.09 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 3 | 4.09 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 3 | 4.09 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 3 | 4.09 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 3 | 4.09 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 3 | 4.09 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 3 | 4.09 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 15 | 4.09 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 15 | 4.09 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 15 | 4.09 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 15 | 4.09 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 15 | 4.09 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 15 | 4.09 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 9 | 4.09 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 9 | 4.09 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 7 | 4.09 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 7 | 4.09 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 7 | 4.09 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 7 | 4.09 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 7 | 4.09 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 7 | 4.09 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 16 | 4.09 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 16 | 4.09 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 16 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 16 | 4.09 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 16 | 4.09 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 16 | 4.09 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 15 | 4.09 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 15 | 4.09 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 3 | 4.09 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 3 | 4.09 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 3 | 4.09 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 3 | 4.09 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 13 | 4.09 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 13 | 4.09 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 5 | 4.09 |
| (1,9124) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 5 | 4.09 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 10 | 4.09 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 10 | 4.09 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 1 | 4.09 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 1 | 4.09 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 1 | 4.09 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 1 | 4.09 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 1 | 4.09 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 1 | 4.09 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 9 | 4.09 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 9 | 4.09 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 10 | 4.09 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 10 | 4.09 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 7 | 4.09 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 7 | 4.09 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 7 | 4.09 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 7 | 4.09 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 7 | 4.09 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 7 | 4.09 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 20 | 4.09 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 20 | 4.09 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 14 | 4.09 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 14 | 4.09 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 4 | 4.09 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 4 | 4.09 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 7 | 4.09 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 7 | 4.09 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 14 | 4.09 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 14 | 4.09 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 14 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 14 | 4.09 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 14 | 4.09 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 14 | 4.09 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 2 | 4.09 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 2 | 4.09 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 20 | 4.09 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 20 | 4.09 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 20 | 4.09 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 4.09 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 4.09 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 4.09 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 3 | 4.09 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 3 | 4.09 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 9 | 4.09 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 9 | 4.09 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 19 | 4.09 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 19 | 4.09 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 16 | 4.09 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 16 | 4.09 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 12 | 4.09 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 12 | 4.09 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 7 | 4.09 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 7 | 4.09 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 7 | 4.09 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 7 | 4.09 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 7 | 4.09 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 7 | 4.09 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 8 | 4.09 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 8 | 4.09 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 20 | 4.09 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 20 | 4.09 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 8 | 4.09 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 8 | 4.09 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 13 | 4.09 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 13 | 4.09 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 13 | 4.09 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 13 | 4.09 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 20 | 4.09 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 20 | 4.09 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 6 | 4.09 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 6 | 4.09 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 2 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 2 | 4.09 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 2 | 4.09 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 2 | 4.09 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 4 | 4.09 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 4 | 4.09 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 4 | 4.09 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 4 | 4.09 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 7 | 4.09 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 7 | 4.09 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 7 | 4.09 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 7 | 4.09 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 7 | 4.09 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 7 | 4.09 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 3 | 4.09 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 3 | 4.09 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 3 | 4.09 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 3 | 4.09 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 7 | 4.09 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 7 | 4.09 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 7 | 4.09 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 12 | 4.09 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 12 | 4.09 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 12 | 4.09 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 4 | 4.09 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 4 | 4.09 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 4 | 4.09 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 17 | 4.09 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 9 | 4.09 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 9 | 4.09 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 3 | 4.09 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 3 | 4.09 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 3 | 4.09 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 11 | 4.09 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 11 | 4.09 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 11 | 4.09 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 19 | 4.09 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 19 | 4.09 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 19 | 4.09 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG21 | 1 | 4.09 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG22 | 1 | 4.09 |
| (1,8370) | 1:137:A:ALA:H | 1:159:A:ILE:HG23 | 1 | 4.09 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 14 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 14 | 4.09 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 14 | 4.09 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 17 | 4.09 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 17 | 4.09 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 17 | 4.09 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 7 | 4.09 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 7 | 4.09 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 7 | 4.09 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 7 | 4.09 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 7 | 4.09 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 7 | 4.09 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 2 | 4.09 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 9 | 4.09 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 6 | 4.09 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 6 | 4.09 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 11 | 4.09 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 18 | 4.09 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 18 | 4.09 |
| (1,8257) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 9 | 4.09 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 12 | 4.09 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 10 | 4.09 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 10 | 4.09 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 10 | 4.09 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 10 | 4.09 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 10 | 4.09 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 10 | 4.09 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 10 | 4.09 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 10 | 4.09 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 10 | 4.09 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 13 | 4.09 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 13 | 4.09 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 15 | 4.09 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 17 | 4.09 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 16 | 4.09 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 16 | 4.09 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 16 | 4.09 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 16 | 4.09 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG21 | 19 | 4.09 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG22 | 19 | 4.09 |
| (1,8052) | 1:89:A:ILE:HA | 1:158:A:ILE:HG23 | 19 | 4.09 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 20 | 4.09 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 18 | 4.09 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 19 | 4.09 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 1 | 4.09 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 15 | 4.09 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 15 | 4.09 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 15 | 4.09 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 15 | 4.09 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 15 | 4.09 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 15 | 4.09 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 15 | 4.09 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 15 | 4.09 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 15 | 4.09 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 9 | 4.09 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 20 | 4.09 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 9 | 4.09 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 3 | 4.09 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 19 | 4.09 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 19 | 4.09 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 19 | 4.09 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 8 | 4.09 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 8 | 4.09 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 3 | 4.09 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 3 | 4.09 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 3 | 4.09 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 5 | 4.09 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 14 | 4.09 |
| (1,7670) | 1:35:A:GLU:H | 1:36:A:ARG:H | 5 | 4.09 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 4 | 4.09 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 4 | 4.09 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 9 | 4.09 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 9 | 4.09 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 9 | 4.09 |
| (1,7427) | 1:7:A:LEU:HD21 | 1:12:A:GLU:H | 14 | 4.09 |
| (1,7427) | 1:7:A:LEU:HD22 | 1:12:A:GLU:H | 14 | 4.09 |
| (1,7427) | 1:7:A:LEU:HD23 | 1:12:A:GLU:H | 14 | 4.09 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 9 | 4.09 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 9 | 4.09 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 9 | 4.09 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 19 | 4.09 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 19 | 4.09 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 19 | 4.09 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 19 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 19 | 4.09 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 19 | 4.09 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 18 | 4.09 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 18 | 4.09 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 18 | 4.09 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 11 | 4.09 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 11 | 4.09 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 11 | 4.09 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 7 | 4.09 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 12 | 4.09 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 12 | 4.09 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 12 | 4.09 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 15 | 4.09 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 14 | 4.09 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 14 | 4.09 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 12 | 4.09 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 12 | 4.09 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 12 | 4.09 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 4 | 4.09 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 4 | 4.09 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 4 | 4.09 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 15 | 4.09 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 15 | 4.09 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 20 | 4.09 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 20 | 4.09 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 20 | 4.09 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 1 | 4.09 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 8 | 4.09 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 3 | 4.09 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 9 | 4.09 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 14 | 4.09 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 8 | 4.09 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 8 | 4.09 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 1 | 4.09 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 1 | 4.09 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 1 | 4.09 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 4 | 4.09 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 9 | 4.09 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 9 | 4.09 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 4 | 4.09 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 7 | 4.09 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 3 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 3 | 4.09 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 3 | 4.09 |
| (1,6750) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 14 | 4.09 |
| (1,6750) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 14 | 4.09 |
| (1,6750) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 14 | 4.09 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 5 | 4.09 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 3 | 4.09 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 2 | 4.09 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 6 | 4.09 |
| (1,6539) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 17 | 4.09 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 15 | 4.09 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 15 | 4.09 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 15 | 4.09 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 3 | 4.09 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 6 | 4.09 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 16 | 4.09 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 13 | 4.09 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 13 | 4.09 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 13 | 4.09 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 16 | 4.09 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 16 | 4.09 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 16 | 4.09 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 19 | 4.09 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 14 | 4.09 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 14 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 7 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 7 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 7 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 7 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 7 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 7 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 15 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 15 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 15 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 15 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 15 | 4.09 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 15 | 4.09 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 20 | 4.09 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 20 | 4.09 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 20 | 4.09 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 12 | 4.09 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 12 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 12 | 4.09 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 14 | 4.09 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 3 | 4.09 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 3 | 4.09 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 17 | 4.09 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 17 | 4.09 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 1 | 4.09 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 1 | 4.09 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 1 | 4.09 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 14 | 4.09 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 14 | 4.09 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 14 | 4.09 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 14 | 4.09 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 14 | 4.09 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 14 | 4.09 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 10 | 4.09 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 18 | 4.09 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 18 | 4.09 |
| (1,6037) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 18 | 4.09 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 3 | 4.09 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 3 | 4.09 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 3 | 4.09 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 3 | 4.09 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 13 | 4.09 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 13 | 4.09 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 13 | 4.09 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 4 | 4.09 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 5 | 4.09 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 15 | 4.09 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 9 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 5 | 4.09 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 5 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5807) | 1:111:A:SER:H | 1:116:A:ALA:HA | 15 | 4.09 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 4.09 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 4.09 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 4.09 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 6 | 4.09 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 6 | 4.09 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 6 | 4.09 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 5 | 4.09 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 5 | 4.09 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 5 | 4.09 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 12 | 4.09 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 1 | 4.09 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 2 | 4.09 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 10 | 4.09 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 10 | 4.09 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 10 | 4.09 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 19 | 4.09 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 7 | 4.09 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 7 | 4.09 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 7 | 4.09 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 7 | 4.09 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 7 | 4.09 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 7 | 4.09 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 17 | 4.09 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 14 | 4.09 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 14 | 4.09 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 14 | 4.09 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 14 | 4.09 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 14 | 4.09 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 14 | 4.09 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 14 | 4.09 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 14 | 4.09 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 14 | 4.09 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 7 | 4.09 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 7 | 4.09 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 7 | 4.09 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 13 | 4.09 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 13 | 4.09 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 13 | 4.09 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 5 | 4.09 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 5 | 4.09 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 5 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 20 | 4.09 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 20 | 4.09 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 20 | 4.09 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 18 | 4.09 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 18 | 4.09 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 18 | 4.09 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 18 | 4.09 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 18 | 4.09 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 18 | 4.09 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 1 | 4.09 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 1 | 4.09 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 1 | 4.09 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 4 | 4.09 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 3 | 4.09 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 14 | 4.09 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 15 | 4.09 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 8 | 4.09 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 14 | 4.09 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 19 | 4.09 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 6 | 4.09 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 6 | 4.09 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 6 | 4.09 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 9 | 4.09 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 14 | 4.09 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 14 | 4.09 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 14 | 4.09 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 12 | 4.09 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 12 | 4.09 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 12 | 4.09 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 11 | 4.09 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 11 | 4.09 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 11 | 4.09 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 19 | 4.09 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 13 | 4.09 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 18 | 4.09 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 18 | 4.09 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 18 | 4.09 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 18 | 4.09 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 18 | 4.09 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 18 | 4.09 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 18 | 4.09 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 18 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 18 | 4.09 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 8 | 4.09 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 8 | 4.09 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 8 | 4.09 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 1 | 4.09 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 1 | 4.09 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 1 | 4.09 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 2 | 4.09 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 2 | 4.09 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 2 | 4.09 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 3 | 4.09 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 3 | 4.09 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 3 | 4.09 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 1 | 4.09 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 15 | 4.09 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 15 | 4.09 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 15 | 4.09 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 15 | 4.09 |
| (1,4560) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 15 | 4.09 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 13 | 4.09 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 13 | 4.09 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 13 | 4.09 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 13 | 4.09 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 13 | 4.09 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 13 | 4.09 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 11 | 4.09 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 2 | 4.09 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 2 | 4.09 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 16 | 4.09 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 16 | 4.09 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 16 | 4.09 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 16 | 4.09 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 17 | 4.09 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 2 | 4.09 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 3 | 4.09 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 16 | 4.09 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 16 | 4.09 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 18 | 4.09 |
| (1,4254) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 13 | 4.09 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 4 | 4.09 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 4 | 4.09 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 16 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 3 | 4.09 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 3 | 4.09 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 3 | 4.09 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 3 | 4.09 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 3 | 4.09 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 3 | 4.09 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 9 | 4.09 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 9 | 4.09 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 5 | 4.09 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 16 | 4.09 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 16 | 4.09 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 16 | 4.09 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 12 | 4.09 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 12 | 4.09 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 12 | 4.09 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 12 | 4.09 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 12 | 4.09 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 12 | 4.09 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 7 | 4.09 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 7 | 4.09 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 7 | 4.09 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 7 | 4.09 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 7 | 4.09 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 7 | 4.09 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 16 | 4.09 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 16 | 4.09 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 16 | 4.09 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 16 | 4.09 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 16 | 4.09 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 16 | 4.09 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 17 | 4.09 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 17 | 4.09 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 17 | 4.09 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 9 | 4.09 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 9 | 4.09 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 8 | 4.09 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 9 | 4.09 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 9 | 4.09 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 9 | 4.09 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 7 | 4.09 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 7 | 4.09 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 7 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 7 | 4.09 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 7 | 4.09 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 7 | 4.09 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 16 | 4.09 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 4.09 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 20 | 4.09 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 20 | 4.09 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 14 | 4.09 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 14 | 4.09 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 13 | 4.09 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 13 | 4.09 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 13 | 4.09 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 13 | 4.09 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 4 | 4.09 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 4 | 4.09 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 7 | 4.09 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 7 | 4.09 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 19 | 4.09 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 2 | 4.09 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 2 | 4.09 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 15 | 4.09 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 13 | 4.09 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 20 | 4.09 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 20 | 4.09 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 20 | 4.09 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 4.09 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 4.09 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 4.09 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 3 | 4.09 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 3 | 4.09 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 9 | 4.09 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 9 | 4.09 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 9 | 4.09 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 4 | 4.09 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 4 | 4.09 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 4 | 4.09 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 1 | 4.09 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 16 | 4.09 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 16 | 4.09 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 12 | 4.09 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 12 | 4.09 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 7 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 7 | 4.09 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 7 | 4.09 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 7 | 4.09 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 7 | 4.09 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 7 | 4.09 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 1 | 4.09 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 1 | 4.09 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 15 | 4.09 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 15 | 4.09 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 15 | 4.09 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 14 | 4.09 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 4 | 4.09 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 4 | 4.09 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 15 | 4.09 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 15 | 4.09 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 15 | 4.09 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 15 | 4.09 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 19 | 4.09 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 19 | 4.09 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 19 | 4.09 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 19 | 4.09 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 11 | 4.09 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 11 | 4.09 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 11 | 4.09 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 20 | 4.09 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 6 | 4.09 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 6 | 4.09 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 2 | 4.09 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 2 | 4.09 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 2 | 4.09 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 2 | 4.09 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 4 | 4.09 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 4 | 4.09 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 4 | 4.09 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 4 | 4.09 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 17 | 4.09 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 8 | 4.09 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 12 | 4.09 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 12 | 4.09 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 12 | 4.09 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 4 | 4.09 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 15 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 15 | 4.09 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 20 | 4.09 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 20 | 4.09 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 20 | 4.09 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 1 | 4.09 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 8 | 4.09 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 3 | 4.09 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 16 | 4.09 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 16 | 4.09 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 16 | 4.09 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 4.09 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 9 | 4.09 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 14 | 4.09 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 8 | 4.09 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 13 | 4.09 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 19 | 4.09 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 8 | 4.09 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 1 | 4.09 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 3 | 4.09 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 13 | 4.09 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 20 | 4.09 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 6 | 4.09 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 16 | 4.09 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 18 | 4.09 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 1 | 4.09 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 1 | 4.09 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 1 | 4.09 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 4 | 4.09 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 9 | 4.09 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 9 | 4.09 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 4 | 4.09 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 7 | 4.09 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 3 | 4.09 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 3 | 4.09 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 3 | 4.09 |
| (1,2688) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 14 | 4.09 |
| (1,2688) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 14 | 4.09 |
| (1,2688) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 14 | 4.09 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 3 | 4.09 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 5 | 4.09 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 3 | 4.09 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 2 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 2 | 4.09 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 2 | 4.09 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 6 | 4.09 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 6 | 4.09 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 6 | 4.09 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 9 | 4.09 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 13 | 4.09 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 2 | 4.09 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 6 | 4.09 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 5 | 4.09 |
| (1,2384) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 17 | 4.09 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 15 | 4.09 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 15 | 4.09 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 15 | 4.09 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 3 | 4.09 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 6 | 4.09 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 17 | 4.09 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 4.09 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 16 | 4.09 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 4 | 4.09 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 18 | 4.09 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 13 | 4.09 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 13 | 4.09 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 13 | 4.09 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 6 | 4.09 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 6 | 4.09 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 6 | 4.09 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 16 | 4.09 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 16 | 4.09 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 16 | 4.09 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 19 | 4.09 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 19 | 4.09 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 14 | 4.09 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 14 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 7 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 7 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 7 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 7 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 7 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 7 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 15 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 15 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 15 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 15 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 15 | 4.09 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 15 | 4.09 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 20 | 4.09 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 20 | 4.09 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 20 | 4.09 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 12 | 4.09 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 12 | 4.09 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 12 | 4.09 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 14 | 4.09 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 3 | 4.09 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 3 | 4.09 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 17 | 4.09 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 17 | 4.09 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 1 | 4.09 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 1 | 4.09 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 1 | 4.09 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 14 | 4.09 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 14 | 4.09 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 14 | 4.09 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 14 | 4.09 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 14 | 4.09 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 14 | 4.09 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 10 | 4.09 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 13 | 4.09 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 13 | 4.09 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 4 | 4.09 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 4 | 4.09 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 4 | 4.09 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 18 | 4.09 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 18 | 4.09 |
| (1,1582) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 18 | 4.09 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 3 | 4.09 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 3 | 4.09 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 3 | 4.09 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 3 | 4.09 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 13 | 4.09 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 13 | 4.09 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 13 | 4.09 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 4 | 4.09 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 5 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 15 | 4.09 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 9 | 4.09 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 5 | 4.09 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 5 | 4.09 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 5 | 4.09 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 12 | 4.09 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 18 | 4.09 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 19 | 4.09 |
| (1,1166) | 1:111:A:SER:H | 1:116:A:ALA:HA | 15 | 4.09 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 1 | 4.09 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 17 | 4.09 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 1 | 4.09 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 4 | 4.09 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 5 | 4.09 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 8 | 4.09 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 10 | 4.09 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 11 | 4.09 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 16 | 4.09 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 17 | 4.09 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 20 | 4.09 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 4.09 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 4.09 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 4.09 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 6 | 4.09 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 6 | 4.09 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 6 | 4.09 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 4 | 4.09 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 5 | 4.09 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 5 | 4.09 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 5 | 4.09 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 12 | 4.09 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 1 | 4.09 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 5 | 4.09 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 7 | 4.09 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 14 | 4.09 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 2 | 4.09 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 4.09 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 4.09 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 16 | 4.09 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 16 | 4.09 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 16 | 4.09 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 10 | 4.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 10 | 4.09 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 10 | 4.09 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 19 | 4.09 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 16 | 4.09 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 13 | 4.09 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 13 | 4.09 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 13 | 4.09 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 13 | 4.09 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 13 | 4.09 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 13 | 4.09 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 7 | 4.09 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 7 | 4.09 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 7 | 4.09 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 7 | 4.09 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 7 | 4.09 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 7 | 4.09 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 16 | 4.09 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 16 | 4.09 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 16 | 4.09 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 16 | 4.09 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 16 | 4.09 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 16 | 4.09 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 2 | 4.09 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 2 | 4.09 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 2 | 4.09 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 4 | 4.09 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 4 | 4.09 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 4 | 4.09 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 20 | 4.08 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 3 | 4.08 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 1 | 4.08 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 1 | 4.08 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 1 | 4.08 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 1 | 4.08 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 1 | 4.08 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 1 | 4.08 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 10 | 4.08 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 10 | 4.08 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 3 | 4.08 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 3 | 4.08 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 3 | 4.08 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 3 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 3 | 4.08 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 3 | 4.08 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 13 | 4.08 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 13 | 4.08 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 6 | 4.08 |
| (1,9524) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 6 | 4.08 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 6 | 4.08 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 6 | 4.08 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 6 | 4.08 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 6 | 4.08 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 7 | 4.08 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 7 | 4.08 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 12 | 4.08 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 12 | 4.08 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 12 | 4.08 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 12 | 4.08 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 13 | 4.08 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 13 | 4.08 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 7 | 4.08 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 7 | 4.08 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 6 | 4.08 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 6 | 4.08 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 14 | 4.08 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 14 | 4.08 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 16 | 4.08 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 16 | 4.08 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 19 | 4.08 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 19 | 4.08 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 19 | 4.08 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 19 | 4.08 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 14 | 4.08 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 14 | 4.08 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 14 | 4.08 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 14 | 4.08 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 14 | 4.08 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 14 | 4.08 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 12 | 4.08 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 12 | 4.08 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 12 | 4.08 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 12 | 4.08 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 1 | 4.08 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 1 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 1 | 4.08 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 1 | 4.08 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 1 | 4.08 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 1 | 4.08 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 20 | 4.08 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 20 | 4.08 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 6 | 4.08 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 6 | 4.08 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 6 | 4.08 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 6 | 4.08 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 6 | 4.08 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 6 | 4.08 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 12 | 4.08 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 12 | 4.08 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 12 | 4.08 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 12 | 4.08 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 3 | 4.08 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 3 | 4.08 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 5 | 4.08 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 5 | 4.08 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 5 | 4.08 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 5 | 4.08 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 5 | 4.08 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 5 | 4.08 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 8 | 4.08 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 8 | 4.08 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 20 | 4.08 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 20 | 4.08 |
| (1,8992) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 4 | 4.08 |
| (1,8992) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 4 | 4.08 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 11 | 4.08 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 11 | 4.08 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 7 | 4.08 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 7 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 14 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 14 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 14 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 14 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 14 | 4.08 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 14 | 4.08 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 9 | 4.08 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 9 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 9 | 4.08 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 9 | 4.08 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 5 | 4.08 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 5 | 4.08 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 5 | 4.08 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 5 | 4.08 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 9 | 4.08 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 9 | 4.08 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 6 | 4.08 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 6 | 4.08 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 9 | 4.08 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 9 | 4.08 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 8 | 4.08 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 8 | 4.08 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 8 | 4.08 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 8 | 4.08 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 8 | 4.08 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 8 | 4.08 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 17 | 4.08 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 17 | 4.08 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 17 | 4.08 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 17 | 4.08 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 14 | 4.08 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 14 | 4.08 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 15 | 4.08 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 15 | 4.08 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 4.08 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 4.08 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 4.08 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 4.08 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 15 | 4.08 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 15 | 4.08 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 18 | 4.08 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 10 | 4.08 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 19 | 4.08 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 19 | 4.08 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 19 | 4.08 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 1 | 4.08 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 1 | 4.08 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 1 | 4.08 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 1 | 4.08 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 1 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 1 | 4.08 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 1 | 4.08 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 1 | 4.08 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 1 | 4.08 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 1 | 4.08 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 1 | 4.08 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 1 | 4.08 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 6 | 4.08 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 6 | 4.08 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 6 | 4.08 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 14 | 4.08 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 14 | 4.08 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 14 | 4.08 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 11 | 4.08 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 11 | 4.08 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 11 | 4.08 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 18 | 4.08 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 18 | 4.08 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 18 | 4.08 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 13 | 4.08 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 13 | 4.08 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 13 | 4.08 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 16 | 4.08 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 16 | 4.08 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 16 | 4.08 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 16 | 4.08 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 16 | 4.08 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 16 | 4.08 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 14 | 4.08 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 3 | 4.08 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 18 | 4.08 |
| (1,8331) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 18 | 4.08 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 4 | 4.08 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 12 | 4.08 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 12 | 4.08 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 12 | 4.08 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 5 | 4.08 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 5 | 4.08 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 3 | 4.08 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 3 | 4.08 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 9 | 4.08 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 9 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 9 | 4.08 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 9 | 4.08 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 9 | 4.08 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 9 | 4.08 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 9 | 4.08 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 9 | 4.08 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 9 | 4.08 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 18 | 4.08 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 4 | 4.08 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 4 | 4.08 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 4 | 4.08 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG21 | 11 | 4.08 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG22 | 11 | 4.08 |
| (1,8033) | 1:86:A:LEU:H | 1:156:A:ILE:HG23 | 11 | 4.08 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 3 | 4.08 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 3 | 4.08 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 3 | 4.08 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 3 | 4.08 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 3 | 4.08 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 3 | 4.08 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 3 | 4.08 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 3 | 4.08 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 3 | 4.08 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 11 | 4.08 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 18 | 4.08 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 1 | 4.08 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 8 | 4.08 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 3 | 4.08 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 13 | 4.08 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 13 | 4.08 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 13 | 4.08 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 9 | 4.08 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 13 | 4.08 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 11 | 4.08 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 1 | 4.08 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 13 | 4.08 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 13 | 4.08 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 13 | 4.08 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 13 | 4.08 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 13 | 4.08 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 13 | 4.08 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 2 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 2 | 4.08 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 9 | 4.08 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 9 | 4.08 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 9 | 4.08 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 14 | 4.08 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 15 | 4.08 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 17 | 4.08 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 15 | 4.08 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 5 | 4.08 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 3 | 4.08 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 19 | 4.08 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 14 | 4.08 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 18 | 4.08 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 18 | 4.08 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 18 | 4.08 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 13 | 4.08 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 13 | 4.08 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 12 | 4.08 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 1 | 4.08 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 16 | 4.08 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 14 | 4.08 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 15 | 4.08 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 7 | 4.08 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 17 | 4.08 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 17 | 4.08 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 15 | 4.08 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 15 | 4.08 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 15 | 4.08 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 15 | 4.08 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 15 | 4.08 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 15 | 4.08 |
| (1,7395) | 1:3:A:ASP:HA | 1:5:A:GLU:H | 17 | 4.08 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 3 | 4.08 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 3 | 4.08 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 3 | 4.08 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 10 | 4.08 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 10 | 4.08 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 10 | 4.08 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 10 | 4.08 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 10 | 4.08 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 10 | 4.08 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 6 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 9 | 4.08 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 10 | 4.08 |
| (1,7202) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 11 | 4.08 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 14 | 4.08 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 14 | 4.08 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 12 | 4.08 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 9 | 4.08 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 19 | 4.08 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 19 | 4.08 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 19 | 4.08 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 5 | 4.08 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 18 | 4.08 |
| (1,6989) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 9 | 4.08 |
| (1,6989) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 9 | 4.08 |
| (1,6989) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 9 | 4.08 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 20 | 4.08 |
| (1,6980) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 20 | 4.08 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 12 | 4.08 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 5 | 4.08 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 5 | 4.08 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 5 | 4.08 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 7 | 4.08 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 14 | 4.08 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 4 | 4.08 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 3 | 4.08 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 3 | 4.08 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 19 | 4.08 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 19 | 4.08 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 19 | 4.08 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 19 | 4.08 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 19 | 4.08 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 19 | 4.08 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 19 | 4.08 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 19 | 4.08 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 19 | 4.08 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 2 | 4.08 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 15 | 4.08 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 15 | 4.08 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 15 | 4.08 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 18 | 4.08 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 14 | 4.08 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 14 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 17 | 4.08 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 17 | 4.08 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 1 | 4.08 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 1 | 4.08 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 1 | 4.08 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 14 | 4.08 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 11 | 4.08 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 9 | 4.08 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 11 | 4.08 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 11 | 4.08 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 11 | 4.08 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 12 | 4.08 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 12 | 4.08 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 12 | 4.08 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 3 | 4.08 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 3 | 4.08 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 3 | 4.08 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 16 | 4.08 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 6 | 4.08 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 6 | 4.08 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 9 | 4.08 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 9 | 4.08 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 9 | 4.08 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 6 | 4.08 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 6 | 4.08 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 6 | 4.08 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 1 | 4.08 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 1 | 4.08 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 1 | 4.08 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 18 | 4.08 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 3 | 4.08 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 10 | 4.08 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 18 | 4.08 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 20 | 4.08 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 11 | 4.08 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 11 | 4.08 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 9 | 4.08 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 10 | 4.08 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 17 | 4.08 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 17 | 4.08 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 17 | 4.08 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 14 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 20 | 4.08 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 20 | 4.08 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 20 | 4.08 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 10 | 4.08 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 10 | 4.08 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 10 | 4.08 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 10 | 4.08 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 10 | 4.08 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 10 | 4.08 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 19 | 4.08 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 7 | 4.08 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 7 | 4.08 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 7 | 4.08 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 15 | 4.08 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 20 | 4.08 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 14 | 4.08 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 2 | 4.08 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 2 | 4.08 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 2 | 4.08 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 5 | 4.08 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 5 | 4.08 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 5 | 4.08 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 20 | 4.08 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 20 | 4.08 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 20 | 4.08 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 5 | 4.08 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 16 | 4.08 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 16 | 4.08 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 16 | 4.08 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 14 | 4.08 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 14 | 4.08 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 14 | 4.08 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 12 | 4.08 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 1 | 4.08 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 2 | 4.08 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 18 | 4.08 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 10 | 4.08 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 10 | 4.08 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 9 | 4.08 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 9 | 4.08 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 9 | 4.08 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 9 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 9 | 4.08 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 9 | 4.08 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 9 | 4.08 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 9 | 4.08 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 9 | 4.08 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 9 | 4.08 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 9 | 4.08 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 9 | 4.08 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 1 | 4.08 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 1 | 4.08 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 1 | 4.08 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 4 | 4.08 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 5 | 4.08 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 18 | 4.08 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 12 | 4.08 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 12 | 4.08 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 12 | 4.08 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 18 | 4.08 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 18 | 4.08 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 18 | 4.08 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 20 | 4.08 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 20 | 4.08 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 20 | 4.08 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 20 | 4.08 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 7 | 4.08 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 7 | 4.08 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 7 | 4.08 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 4.08 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 4.08 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 4.08 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 4.08 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 4.08 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 4.08 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 16 | 4.08 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 7 | 4.08 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 7 | 4.08 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 7 | 4.08 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 12 | 4.08 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 6 | 4.08 |
| (1,4516) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 6 | 4.08 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 12 | 4.08 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 12 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 12 | 4.08 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 13 | 4.08 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 13 | 4.08 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 17 | 4.08 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 17 | 4.08 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 17 | 4.08 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 17 | 4.08 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 7 | 4.08 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 7 | 4.08 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 14 | 4.08 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 14 | 4.08 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 16 | 4.08 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 16 | 4.08 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 19 | 4.08 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 19 | 4.08 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 19 | 4.08 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 19 | 4.08 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 16 | 4.08 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 13 | 4.08 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 6 | 4.08 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 6 | 4.08 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 6 | 4.08 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 6 | 4.08 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 6 | 4.08 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 6 | 4.08 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 5 | 4.08 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 5 | 4.08 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 6 | 4.08 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 6 | 4.08 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 10 | 4.08 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 10 | 4.08 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 4.08 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 12 | 4.08 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 12 | 4.08 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 14 | 4.08 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 14 | 4.08 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 9 | 4.08 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 9 | 4.08 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 9 | 4.08 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 4.08 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 5 | 4.08 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 5 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 5 | 4.08 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 5 | 4.08 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 5 | 4.08 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 5 | 4.08 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 8 | 4.08 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 8 | 4.08 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 17 | 4.08 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 20 | 4.08 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 20 | 4.08 |
| (1,3962) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 4 | 4.08 |
| (1,3962) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 4 | 4.08 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 5 | 4.08 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 6 | 4.08 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 6 | 4.08 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 10 | 4.08 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 10 | 4.08 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 10 | 4.08 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 18 | 4.08 |
| (1,3769) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 2 | 4.08 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 12 | 4.08 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 12 | 4.08 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 12 | 4.08 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 16 | 4.08 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 9 | 4.08 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 9 | 4.08 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 6 | 4.08 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 6 | 4.08 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 9 | 4.08 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 9 | 4.08 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 8 | 4.08 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 8 | 4.08 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 8 | 4.08 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 8 | 4.08 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 8 | 4.08 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 8 | 4.08 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 8 | 4.08 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 4.08 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 4.08 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 4.08 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 4.08 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 15 | 4.08 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 15 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 17 | 4.08 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 10 | 4.08 |
| (1,3360) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 11 | 4.08 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 14 | 4.08 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 14 | 4.08 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 12 | 4.08 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 9 | 4.08 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 19 | 4.08 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 19 | 4.08 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 19 | 4.08 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 1 | 4.08 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 1 | 4.08 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 1 | 4.08 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 12 | 4.08 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 16 | 4.08 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 5 | 4.08 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 18 | 4.08 |
| (1,3030) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 9 | 4.08 |
| (1,3030) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 9 | 4.08 |
| (1,3030) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 9 | 4.08 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 20 | 4.08 |
| (1,3014) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 20 | 4.08 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 8 | 4.08 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 8 | 4.08 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 12 | 4.08 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 1 | 4.08 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 12 | 4.08 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 13 | 4.08 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 15 | 4.08 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 3 | 4.08 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 16 | 4.08 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 7 | 4.08 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 5 | 4.08 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 5 | 4.08 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 5 | 4.08 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 7 | 4.08 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 14 | 4.08 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 4 | 4.08 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 10 | 4.08 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 10 | 4.08 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 3 | 4.08 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 3 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 20 | 4.08 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 20 | 4.08 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 19 | 4.08 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 19 | 4.08 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 19 | 4.08 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 19 | 4.08 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 19 | 4.08 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 19 | 4.08 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 19 | 4.08 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 19 | 4.08 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 19 | 4.08 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 18 | 4.08 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 18 | 4.08 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 18 | 4.08 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 2 | 4.08 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 11 | 4.08 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 15 | 4.08 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 15 | 4.08 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 15 | 4.08 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 18 | 4.08 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 1 | 4.08 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 1 | 4.08 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 1 | 4.08 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 14 | 4.08 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 10 | 4.08 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 8 | 4.08 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 11 | 4.08 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 9 | 4.08 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 11 | 4.08 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 11 | 4.08 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 11 | 4.08 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 12 | 4.08 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 12 | 4.08 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 12 | 4.08 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 5 | 4.08 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 1 | 4.08 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 3 | 4.08 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 3 | 4.08 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 3 | 4.08 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 7 | 4.08 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 7 | 4.08 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 7 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 19 | 4.08 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 19 | 4.08 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 19 | 4.08 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 16 | 4.08 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 6 | 4.08 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 6 | 4.08 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 16 | 4.08 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 16 | 4.08 |
| (1,1700) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 16 | 4.08 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 9 | 4.08 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 9 | 4.08 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 9 | 4.08 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 16 | 4.08 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 6 | 4.08 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 6 | 4.08 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 6 | 4.08 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 1 | 4.08 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 1 | 4.08 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 1 | 4.08 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 2 | 4.08 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 18 | 4.08 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 8 | 4.08 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 3 | 4.08 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 10 | 4.08 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 14 | 4.08 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 18 | 4.08 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 2 | 4.08 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 4 | 4.08 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 20 | 4.08 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 3 | 4.08 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 11 | 4.08 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 11 | 4.08 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 3 | 4.08 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 3 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 2 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 3 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 6 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 7 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 9 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 12 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 13 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 14 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 15 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 18 | 4.08 |
| (1,1072) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 19 | 4.08 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 13 | 4.08 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 13 | 4.08 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 13 | 4.08 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 16 | 4.08 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 9 | 4.08 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 10 | 4.08 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 14 | 4.08 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 17 | 4.08 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 17 | 4.08 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 17 | 4.08 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 14 | 4.08 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 7 | 4.08 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 20 | 4.08 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 20 | 4.08 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 20 | 4.08 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 10 | 4.08 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 10 | 4.08 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 10 | 4.08 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 10 | 4.08 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 10 | 4.08 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 10 | 4.08 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 1 | 4.08 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 1 | 4.08 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 1 | 4.08 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 1 | 4.08 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 1 | 4.08 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 1 | 4.08 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 19 | 4.08 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 19 | 4.08 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 19 | 4.08 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 19 | 4.08 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 19 | 4.08 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 19 | 4.08 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 19 | 4.08 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 19 | 4.08 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 19 | 4.08 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 5 | 4.08 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 5 | 4.08 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 5 | 4.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 13 | 4.08 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 13 | 4.08 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 13 | 4.08 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 20 | 4.07 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 11 | 4.07 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 9 | 4.07 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 16 | 4.07 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 17 | 4.07 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 5 | 4.07 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 5 | 4.07 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 11 | 4.07 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 11 | 4.07 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 19 | 4.07 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 19 | 4.07 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 19 | 4.07 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 19 | 4.07 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 19 | 4.07 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 19 | 4.07 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 2 | 4.07 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 2 | 4.07 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 2 | 4.07 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 2 | 4.07 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 2 | 4.07 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 2 | 4.07 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 12 | 4.07 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 12 | 4.07 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 13 | 4.07 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 13 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 1 | 4.07 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 1 | 4.07 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 14 | 4.07 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 14 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 16 | 4.07 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 16 | 4.07 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 4 | 4.07 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 4 | 4.07 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 4 | 4.07 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 4 | 4.07 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 1 | 4.07 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 1 | 4.07 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 1 | 4.07 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 1 | 4.07 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 1 | 4.07 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 1 | 4.07 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 10 | 4.07 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 10 | 4.07 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 10 | 4.07 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 10 | 4.07 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 15 | 4.07 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 15 | 4.07 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 12 | 4.07 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 12 | 4.07 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 12 | 4.07 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 12 | 4.07 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 12 | 4.07 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 12 | 4.07 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 17 | 4.07 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 17 | 4.07 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 18 | 4.07 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 18 | 4.07 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 18 | 4.07 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 18 | 4.07 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 18 | 4.07 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 18 | 4.07 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 15 | 4.07 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 15 | 4.07 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 12 | 4.07 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 12 | 4.07 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 11 | 4.07 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 11 | 4.07 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 11 | 4.07 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 11 | 4.07 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 11 | 4.07 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 11 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 8 | 4.07 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 8 | 4.07 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 18 | 4.07 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 18 | 4.07 |
| (1,8939) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 18 | 4.07 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 18 | 4.07 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 18 | 4.07 |
| (1,8939) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 18 | 4.07 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 17 | 4.07 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 17 | 4.07 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 11 | 4.07 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 11 | 4.07 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 11 | 4.07 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 11 | 4.07 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 11 | 4.07 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 11 | 4.07 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 10 | 4.07 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 10 | 4.07 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 9 | 4.07 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 9 | 4.07 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 9 | 4.07 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 9 | 4.07 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 9 | 4.07 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 9 | 4.07 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 11 | 4.07 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 11 | 4.07 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 1 | 4.07 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 1 | 4.07 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 11 | 4.07 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 11 | 4.07 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 11 | 4.07 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 11 | 4.07 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 12 | 4.07 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 12 | 4.07 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 7 | 4.07 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 7 | 4.07 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 7 | 4.07 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 7 | 4.07 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 19 | 4.07 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 19 | 4.07 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 7 | 4.07 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 7 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 5 | 4.07 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 5 | 4.07 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 5 | 4.07 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 5 | 4.07 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 5 | 4.07 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 5 | 4.07 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 15 | 4.07 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 15 | 4.07 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 5 | 4.07 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 5 | 4.07 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 5 | 4.07 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 5 | 4.07 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 5 | 4.07 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 5 | 4.07 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 19 | 4.07 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 19 | 4.07 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 4 | 4.07 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 4 | 4.07 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 3 | 4.07 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 15 | 4.07 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 15 | 4.07 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 15 | 4.07 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 15 | 4.07 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 15 | 4.07 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 15 | 4.07 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 12 | 4.07 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 12 | 4.07 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 12 | 4.07 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 14 | 4.07 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 14 | 4.07 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 19 | 4.07 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 19 | 4.07 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 6 | 4.07 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 6 | 4.07 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 1 | 4.07 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 19 | 4.07 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 19 | 4.07 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 4 | 4.07 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 16 | 4.07 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 15 | 4.07 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 15 | 4.07 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 8 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 8 | 4.07 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 19 | 4.07 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 17 | 4.07 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 9 | 4.07 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 9 | 4.07 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 9 | 4.07 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 13 | 4.07 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 13 | 4.07 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 1 | 4.07 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 1 | 4.07 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 12 | 4.07 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 12 | 4.07 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 12 | 4.07 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 5 | 4.07 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 6 | 4.07 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 6 | 4.07 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 6 | 4.07 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 18 | 4.07 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 11 | 4.07 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 11 | 4.07 |
| (1,7952) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 11 | 4.07 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 3 | 4.07 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 10 | 4.07 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 10 | 4.07 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 10 | 4.07 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 9 | 4.07 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 9 | 4.07 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 17 | 4.07 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 17 | 4.07 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG21 | 19 | 4.07 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG22 | 19 | 4.07 |
| (1,7844) | 1:61:A:LEU:HD11 | 1:62:A:VAL:HG23 | 19 | 4.07 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG21 | 19 | 4.07 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG22 | 19 | 4.07 |
| (1,7844) | 1:61:A:LEU:HD12 | 1:62:A:VAL:HG23 | 19 | 4.07 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG21 | 19 | 4.07 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG22 | 19 | 4.07 |
| (1,7844) | 1:61:A:LEU:HD13 | 1:62:A:VAL:HG23 | 19 | 4.07 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 7 | 4.07 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 7 | 4.07 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 7 | 4.07 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 7 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 7 | 4.07 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 7 | 4.07 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 4 | 4.07 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 4 | 4.07 |
| (1,7682) | 1:37:A:PRO:HB2 | 1:38:A:SER:HA | 8 | 4.07 |
| (1,7667) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 10 | 4.07 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 17 | 4.07 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 1 | 4.07 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 11 | 4.07 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 11 | 4.07 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 11 | 4.07 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 8 | 4.07 |
| (1,7579) | 1:25:A:PHE:H | 1:32:A:SER:H | 17 | 4.07 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 15 | 4.07 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 19 | 4.07 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 19 | 4.07 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 19 | 4.07 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 11 | 4.07 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 15 | 4.07 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 12 | 4.07 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 12 | 4.07 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 11 | 4.07 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 11 | 4.07 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 11 | 4.07 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 11 | 4.07 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 6 | 4.07 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 6 | 4.07 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 18 | 4.07 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 18 | 4.07 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 18 | 4.07 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 20 | 4.07 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 20 | 4.07 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 20 | 4.07 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 1 | 4.07 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 1 | 4.07 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 1 | 4.07 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 1 | 4.07 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 5 | 4.07 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 1 | 4.07 |
| (1,7160) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 1 | 4.07 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 1 | 4.07 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 14 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 14 | 4.07 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 18 | 4.07 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 12 | 4.07 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 12 | 4.07 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 12 | 4.07 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 17 | 4.07 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 12 | 4.07 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 12 | 4.07 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 12 | 4.07 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 3 | 4.07 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 18 | 4.07 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 3 | 4.07 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 14 | 4.07 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 10 | 4.07 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 10 | 4.07 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 10 | 4.07 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 10 | 4.07 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 10 | 4.07 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 10 | 4.07 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 10 | 4.07 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 10 | 4.07 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 10 | 4.07 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 10 | 4.07 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 15 | 4.07 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 19 | 4.07 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 5 | 4.07 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 5 | 4.07 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 5 | 4.07 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 5 | 4.07 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 5 | 4.07 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 5 | 4.07 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 11 | 4.07 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 17 | 4.07 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 5 | 4.07 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 15 | 4.07 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 15 | 4.07 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 15 | 4.07 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 13 | 4.07 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 2 | 4.07 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 4 | 4.07 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 4.07 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 4.07 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 20 | 4.07 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 20 | 4.07 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 20 | 4.07 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 6 | 4.07 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 6 | 4.07 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 6 | 4.07 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 10 | 4.07 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 10 | 4.07 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 7 | 4.07 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 7 | 4.07 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 7 | 4.07 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 19 | 4.07 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 19 | 4.07 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 12 | 4.07 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 12 | 4.07 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 12 | 4.07 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 20 | 4.07 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 10 | 4.07 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 19 | 4.07 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 19 | 4.07 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 19 | 4.07 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 9 | 4.07 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 9 | 4.07 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 9 | 4.07 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 14 | 4.07 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 4.07 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 8 | 4.07 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 8 | 4.07 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 8 | 4.07 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 8 | 4.07 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 8 | 4.07 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 8 | 4.07 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 18 | 4.07 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 18 | 4.07 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 18 | 4.07 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 7 | 4.07 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 7 | 4.07 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 7 | 4.07 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 13 | 4.07 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 13 | 4.07 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 13 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 1 | 4.07 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 1 | 4.07 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 14 | 4.07 |
| (1,5854) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 14 | 4.07 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 6 | 4.07 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 6 | 4.07 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 6 | 4.07 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 1 | 4.07 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 15 | 4.07 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 9 | 4.07 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 9 | 4.07 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 9 | 4.07 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 4 | 4.07 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 14 | 4.07 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 9 | 4.07 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 9 | 4.07 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 9 | 4.07 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 9 | 4.07 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 9 | 4.07 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 9 | 4.07 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 1 | 4.07 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 1 | 4.07 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 1 | 4.07 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 7 | 4.07 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 13 | 4.07 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 19 | 4.07 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 19 | 4.07 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 19 | 4.07 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 5 | 4.07 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 2 | 4.07 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 2 | 4.07 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 2 | 4.07 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 8 | 4.07 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 6 | 4.07 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 6 | 4.07 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 6 | 4.07 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 14 | 4.07 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 14 | 4.07 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 14 | 4.07 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 10 | 4.07 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 3 | 4.07 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 3 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 3 | 4.07 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 1 | 4.07 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 9 | 4.07 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 2 | 4.07 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 2 | 4.07 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 2 | 4.07 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 3 | 4.07 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 14 | 4.07 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 3 | 4.07 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 3 | 4.07 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 3 | 4.07 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 19 | 4.07 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 2 | 4.07 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 18 | 4.07 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 10 | 4.07 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 10 | 4.07 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 17 | 4.07 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 17 | 4.07 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 17 | 4.07 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 17 | 4.07 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 17 | 4.07 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 17 | 4.07 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 17 | 4.07 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 17 | 4.07 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 17 | 4.07 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 3 | 4.07 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 3 | 4.07 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 3 | 4.07 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 3 | 4.07 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 3 | 4.07 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 3 | 4.07 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 3 | 4.07 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 3 | 4.07 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 3 | 4.07 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 19 | 4.07 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 13 | 4.07 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 9 | 4.07 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 9 | 4.07 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 9 | 4.07 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 17 | 4.07 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 10 | 4.07 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 7 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 16 | 4.07 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 16 | 4.07 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 16 | 4.07 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 2 | 4.07 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 2 | 4.07 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 2 | 4.07 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 2 | 4.07 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 2 | 4.07 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 2 | 4.07 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 12 | 4.07 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 12 | 4.07 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 18 | 4.07 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 18 | 4.07 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 18 | 4.07 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 18 | 4.07 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 16 | 4.07 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 16 | 4.07 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 4 | 4.07 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 4 | 4.07 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 4 | 4.07 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 4 | 4.07 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 3 | 4.07 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 12 | 4.07 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 17 | 4.07 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 5 | 4.07 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 5 | 4.07 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 5 | 4.07 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 17 | 4.07 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 17 | 4.07 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 17 | 4.07 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 10 | 4.07 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 10 | 4.07 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 10 | 4.07 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 10 | 4.07 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 14 | 4.07 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 14 | 4.07 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 15 | 4.07 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 14 | 4.07 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 12 | 4.07 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 12 | 4.07 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 12 | 4.07 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 12 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 12 | 4.07 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 12 | 4.07 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 18 | 4.07 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 18 | 4.07 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 18 | 4.07 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 17 | 4.07 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 17 | 4.07 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 17 | 4.07 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 18 | 4.07 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 18 | 4.07 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 18 | 4.07 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 18 | 4.07 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 18 | 4.07 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 18 | 4.07 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 12 | 4.07 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 12 | 4.07 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 16 | 4.07 |
| (1,4048) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 7 | 4.07 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 4.07 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 7 | 4.07 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 7 | 4.07 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 7 | 4.07 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 11 | 4.07 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 11 | 4.07 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 11 | 4.07 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 11 | 4.07 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 11 | 4.07 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 11 | 4.07 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 20 | 4.07 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 20 | 4.07 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 20 | 4.07 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 16 | 4.07 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 18 | 4.07 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 18 | 4.07 |
| (1,3914) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 18 | 4.07 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 18 | 4.07 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 18 | 4.07 |
| (1,3914) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 18 | 4.07 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 16 | 4.07 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 16 | 4.07 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 16 | 4.07 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 16 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 16 | 4.07 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 16 | 4.07 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 1 | 4.07 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 11 | 4.07 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 8 | 4.07 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 8 | 4.07 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 8 | 4.07 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 17 | 4.07 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 17 | 4.07 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 17 | 4.07 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 13 | 4.07 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 13 | 4.07 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 13 | 4.07 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 13 | 4.07 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 13 | 4.07 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 13 | 4.07 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 19 | 4.07 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 19 | 4.07 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 19 | 4.07 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 19 | 4.07 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 19 | 4.07 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 19 | 4.07 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 8 | 4.07 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 8 | 4.07 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 18 | 4.07 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 18 | 4.07 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 11 | 4.07 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 17 | 4.07 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 1 | 4.07 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 1 | 4.07 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 11 | 4.07 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 11 | 4.07 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 11 | 4.07 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 11 | 4.07 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 15 | 4.07 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 4 | 4.07 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 9 | 4.07 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 9 | 4.07 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 18 | 4.07 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 18 | 4.07 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 18 | 4.07 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 18 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 18 | 4.07 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 18 | 4.07 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 7 | 4.07 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 7 | 4.07 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 5 | 4.07 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 5 | 4.07 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 5 | 4.07 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 5 | 4.07 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 5 | 4.07 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 5 | 4.07 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 19 | 4.07 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 19 | 4.07 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 2 | 4.07 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 18 | 4.07 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 18 | 4.07 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 18 | 4.07 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 20 | 4.07 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 20 | 4.07 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 20 | 4.07 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 1 | 4.07 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 3 | 4.07 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 3 | 4.07 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 3 | 4.07 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 4.07 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 1 | 4.07 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 1 | 4.07 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 1 | 4.07 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 5 | 4.07 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 1 | 4.07 |
| (1,3270) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 1 | 4.07 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 1 | 4.07 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 13 | 4.07 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 14 | 4.07 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 14 | 4.07 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 18 | 4.07 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 12 | 4.07 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 12 | 4.07 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 12 | 4.07 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 7 | 4.07 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 4 | 4.07 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 7 | 4.07 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 13 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 17 | 4.07 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 11 | 4.07 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 8 | 4.07 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 12 | 4.07 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 12 | 4.07 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 12 | 4.07 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 3 | 4.07 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 18 | 4.07 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 20 | 4.07 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 20 | 4.07 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 20 | 4.07 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 20 | 4.07 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 20 | 4.07 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 20 | 4.07 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 3 | 4.07 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 14 | 4.07 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 10 | 4.07 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 10 | 4.07 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 10 | 4.07 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 10 | 4.07 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 10 | 4.07 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 10 | 4.07 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 10 | 4.07 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 10 | 4.07 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 10 | 4.07 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 10 | 4.07 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 15 | 4.07 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 17 | 4.07 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 17 | 4.07 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 17 | 4.07 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 19 | 4.07 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 5 | 4.07 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 5 | 4.07 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 5 | 4.07 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 5 | 4.07 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 5 | 4.07 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 5 | 4.07 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 11 | 4.07 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 17 | 4.07 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 3 | 4.07 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 5 | 4.07 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 5 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 15 | 4.07 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 15 | 4.07 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 15 | 4.07 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 13 | 4.07 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 2 | 4.07 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 4 | 4.07 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 4.07 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 4.07 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 4.07 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 20 | 4.07 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 20 | 4.07 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 20 | 4.07 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 6 | 4.07 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 6 | 4.07 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 6 | 4.07 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 10 | 4.07 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 10 | 4.07 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 16 | 4.07 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 17 | 4.07 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 7 | 4.07 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 7 | 4.07 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 7 | 4.07 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 10 | 4.07 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 19 | 4.07 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 19 | 4.07 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 12 | 4.07 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 12 | 4.07 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 12 | 4.07 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 3 | 4.07 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 3 | 4.07 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 3 | 4.07 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 8 | 4.07 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 8 | 4.07 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 8 | 4.07 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 20 | 4.07 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 5 | 4.07 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 5 | 4.07 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 5 | 4.07 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 5 | 4.07 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 5 | 4.07 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 5 | 4.07 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 10 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 19 | 4.07 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 19 | 4.07 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 19 | 4.07 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 9 | 4.07 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 9 | 4.07 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 9 | 4.07 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 10 | 4.07 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 10 | 4.07 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 10 | 4.07 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 14 | 4.07 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 4.07 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 20 | 4.07 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 8 | 4.07 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 8 | 4.07 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 8 | 4.07 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 8 | 4.07 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 8 | 4.07 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 8 | 4.07 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 18 | 4.07 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 18 | 4.07 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 18 | 4.07 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 7 | 4.07 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 7 | 4.07 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 7 | 4.07 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 13 | 4.07 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 13 | 4.07 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 13 | 4.07 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 1 | 4.07 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 1 | 4.07 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 14 | 4.07 |
| (1,1246) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 14 | 4.07 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 9 | 4.07 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 6 | 4.07 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 6 | 4.07 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 6 | 4.07 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 1 | 4.07 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 8 | 4.07 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 9 | 4.07 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 9 | 4.07 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 9 | 4.07 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 3 | 4.07 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 4 | 4.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 14 | 4.07 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 1 | 4.07 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 1 | 4.07 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 1 | 4.07 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 9 | 4.07 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 9 | 4.07 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 9 | 4.07 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 9 | 4.07 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 9 | 4.07 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 9 | 4.07 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 1 | 4.07 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 1 | 4.07 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 1 | 4.07 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 7 | 4.07 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 13 | 4.07 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 1 | 4.07 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 19 | 4.07 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 19 | 4.07 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 19 | 4.07 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 5 | 4.07 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 1 | 4.07 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 1 | 4.07 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 1 | 4.07 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 1 | 4.07 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 1 | 4.07 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 1 | 4.07 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 13 | 4.07 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 1 | 4.07 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 3 | 4.07 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 3 | 4.07 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 3 | 4.07 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 20 | 4.06 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 20 | 4.06 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 20 | 4.06 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 14 | 4.06 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 14 | 4.06 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 18 | 4.06 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG2 | 9 | 4.06 |
| (1,9628) | 1:162:A:THR:H | 1:163:A:GLU:HG3 | 9 | 4.06 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 13 | 4.06 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 13 | 4.06 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 8 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 8 | 4.06 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 14 | 4.06 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 14 | 4.06 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 1 | 4.06 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 1 | 4.06 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 6 | 4.06 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 6 | 4.06 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 7 | 4.06 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 7 | 4.06 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 15 | 4.06 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 15 | 4.06 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 9 | 4.06 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 9 | 4.06 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 9 | 4.06 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 9 | 4.06 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 7 | 4.06 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 7 | 4.06 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 14 | 4.06 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 14 | 4.06 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 19 | 4.06 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 19 | 4.06 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 7 | 4.06 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 7 | 4.06 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 18 | 4.06 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 18 | 4.06 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 8 | 4.06 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 8 | 4.06 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 11 | 4.06 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 11 | 4.06 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 7 | 4.06 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 7 | 4.06 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 1 | 4.06 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 1 | 4.06 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB2 | 10 | 4.06 |
| (1,9277) | 1:103:A:PHE:H | 1:104:A:GLU:HB3 | 10 | 4.06 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 1 | 4.06 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 1 | 4.06 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 1 | 4.06 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 1 | 4.06 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 1 | 4.06 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 1 | 4.06 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 17 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 17 | 4.06 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 17 | 4.06 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 17 | 4.06 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 17 | 4.06 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 17 | 4.06 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 16 | 4.06 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 16 | 4.06 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 7 | 4.06 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 7 | 4.06 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE21 | 1 | 4.06 |
| (1,9177) | 1:94:A:GLN:H | 1:94:A:GLN:HE22 | 1 | 4.06 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 1 | 4.06 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 1 | 4.06 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 15 | 4.06 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 15 | 4.06 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 8 | 4.06 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 8 | 4.06 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 1 | 4.06 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 1 | 4.06 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 10 | 4.06 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 10 | 4.06 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 10 | 4.06 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 10 | 4.06 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 10 | 4.06 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 10 | 4.06 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 9 | 4.06 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 9 | 4.06 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 5 | 4.06 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 5 | 4.06 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 18 | 4.06 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 18 | 4.06 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 15 | 4.06 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 15 | 4.06 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 15 | 4.06 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 15 | 4.06 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 15 | 4.06 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 15 | 4.06 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 7 | 4.06 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 7 | 4.06 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 5 | 4.06 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 5 | 4.06 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 2 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 2 | 4.06 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 20 | 4.06 |
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 4.06 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 7 | 4.06 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 7 | 4.06 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 6 | 4.06 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 6 | 4.06 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 19 | 4.06 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 19 | 4.06 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 2 | 4.06 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 2 | 4.06 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 2 | 4.06 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 2 | 4.06 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 2 | 4.06 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 2 | 4.06 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 15 | 4.06 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 15 | 4.06 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 12 | 4.06 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 12 | 4.06 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 2 | 4.06 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 2 | 4.06 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 2 | 4.06 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 2 | 4.06 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 5 | 4.06 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 5 | 4.06 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 6 | 4.06 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 6 | 4.06 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 14 | 4.06 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 14 | 4.06 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 14 | 4.06 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 14 | 4.06 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 14 | 4.06 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 14 | 4.06 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 2 | 4.06 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 2 | 4.06 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 6 | 4.06 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 6 | 4.06 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 19 | 4.06 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 19 | 4.06 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 20 | 4.06 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 20 | 4.06 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 10 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 10 | 4.06 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 4 | 4.06 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 4 | 4.06 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 14 | 4.06 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 14 | 4.06 |
| (1,8571) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 8 | 4.06 |
| (1,8571) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 8 | 4.06 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 17 | 4.06 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 17 | 4.06 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 14 | 4.06 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 14 | 4.06 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 3 | 4.06 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 3 | 4.06 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 3 | 4.06 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 3 | 4.06 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 3 | 4.06 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 3 | 4.06 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 3 | 4.06 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 3 | 4.06 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 3 | 4.06 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 7 | 4.06 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 7 | 4.06 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 7 | 4.06 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 9 | 4.06 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 9 | 4.06 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 9 | 4.06 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 5 | 4.06 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 5 | 4.06 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 5 | 4.06 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 17 | 4.06 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 17 | 4.06 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 18 | 4.06 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 13 | 4.06 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 16 | 4.06 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 12 | 4.06 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 12 | 4.06 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 12 | 4.06 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 1 | 4.06 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 9 | 4.06 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 9 | 4.06 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 9 | 4.06 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 14 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 13 | 4.06 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 6 | 4.06 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 6 | 4.06 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 20 | 4.06 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 20 | 4.06 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 20 | 4.06 |
| (1,7706) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 16 | 4.06 |
| (1,7706) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 16 | 4.06 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 8 | 4.06 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 12 | 4.06 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 4 | 4.06 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 15 | 4.06 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 15 | 4.06 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 15 | 4.06 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 4 | 4.06 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 4 | 4.06 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 12 | 4.06 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 4 | 4.06 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 6 | 4.06 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 6 | 4.06 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 6 | 4.06 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 15 | 4.06 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 15 | 4.06 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 15 | 4.06 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 2 | 4.06 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 5 | 4.06 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 5 | 4.06 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 5 | 4.06 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 4 | 4.06 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 5 | 4.06 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 19 | 4.06 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 3 | 4.06 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 3 | 4.06 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 3 | 4.06 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 5 | 4.06 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 15 | 4.06 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 7 | 4.06 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 12 | 4.06 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 12 | 4.06 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 9 | 4.06 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 19 | 4.06 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 3 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 10 | 4.06 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 9 | 4.06 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 3 | 4.06 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 7 | 4.06 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 2 | 4.06 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 16 | 4.06 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 20 | 4.06 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 20 | 4.06 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 20 | 4.06 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 3 | 4.06 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 3 | 4.06 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 3 | 4.06 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 18 | 4.06 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 19 | 4.06 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 19 | 4.06 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 19 | 4.06 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 11 | 4.06 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 11 | 4.06 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 11 | 4.06 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 2 | 4.06 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 2 | 4.06 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 2 | 4.06 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 2 | 4.06 |
| (1,6245) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 7 | 4.06 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 9 | 4.06 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 9 | 4.06 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 9 | 4.06 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 18 | 4.06 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 5 | 4.06 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 5 | 4.06 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 14 | 4.06 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 14 | 4.06 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 3 | 4.06 |
| (1,6160) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 3 | 4.06 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 2 | 4.06 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 13 | 4.06 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 13 | 4.06 |
| (1,6113) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 13 | 4.06 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 14 | 4.06 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 6 | 4.06 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 6 | 4.06 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 6 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 3 | 4.06 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 2 | 4.06 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 2 | 4.06 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 4 | 4.06 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 4 | 4.06 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 4 | 4.06 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 2 | 4.06 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 2 | 4.06 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 15 | 4.06 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 7 | 4.06 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 4 | 4.06 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 4 | 4.06 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 6 | 4.06 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 6 | 4.06 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 19 | 4.06 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 16 | 4.06 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 16 | 4.06 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 18 | 4.06 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 18 | 4.06 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 18 | 4.06 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 4 | 4.06 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 4 | 4.06 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 4 | 4.06 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 20 | 4.06 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 20 | 4.06 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 20 | 4.06 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 16 | 4.06 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 17 | 4.06 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 17 | 4.06 |
| (1,5629) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 17 | 4.06 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 16 | 4.06 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 12 | 4.06 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 15 | 4.06 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 5 | 4.06 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 11 | 4.06 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 10 | 4.06 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 11 | 4.06 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 17 | 4.06 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 15 | 4.06 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 15 | 4.06 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 15 | 4.06 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 20 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 20 | 4.06 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 20 | 4.06 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 13 | 4.06 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 14 | 4.06 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 2 | 4.06 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 4 | 4.06 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 9 | 4.06 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 9 | 4.06 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 9 | 4.06 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 16 | 4.06 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 16 | 4.06 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 16 | 4.06 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 16 | 4.06 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 16 | 4.06 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 16 | 4.06 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 16 | 4.06 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 16 | 4.06 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 16 | 4.06 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 18 | 4.06 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 4 | 4.06 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 6 | 4.06 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 13 | 4.06 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 2 | 4.06 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 14 | 4.06 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 14 | 4.06 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 6 | 4.06 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 6 | 4.06 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 17 | 4.06 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 18 | 4.06 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 18 | 4.06 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 18 | 4.06 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 12 | 4.06 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 12 | 4.06 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 12 | 4.06 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 13 | 4.06 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 13 | 4.06 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 16 | 4.06 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 16 | 4.06 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 13 | 4.06 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 13 | 4.06 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 13 | 4.06 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 13 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 4 | 4.06 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 10 | 4.06 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 4.06 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 4.06 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 4.06 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 9 | 4.06 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 1 | 4.06 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 1 | 4.06 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 6 | 4.06 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 6 | 4.06 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 7 | 4.06 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 7 | 4.06 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 15 | 4.06 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 15 | 4.06 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 8 | 4.06 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 8 | 4.06 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 11 | 4.06 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 11 | 4.06 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 11 | 4.06 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 7 | 4.06 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 7 | 4.06 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 15 | 4.06 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 17 | 4.06 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 17 | 4.06 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 17 | 4.06 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 1 | 4.06 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 1 | 4.06 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 1 | 4.06 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 1 | 4.06 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 1 | 4.06 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 1 | 4.06 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 2 | 4.06 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 2 | 4.06 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 2 | 4.06 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 2 | 4.06 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 2 | 4.06 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 2 | 4.06 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 10 | 4.06 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 10 | 4.06 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 4 | 4.06 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 4 | 4.06 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 16 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 16 | 4.06 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 8 | 4.06 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 7 | 4.06 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 7 | 4.06 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 8 | 4.06 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 8 | 4.06 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 8 | 4.06 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 10 | 4.06 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 10 | 4.06 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 10 | 4.06 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 10 | 4.06 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 10 | 4.06 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 10 | 4.06 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 9 | 4.06 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 9 | 4.06 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 2 | 4.06 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 5 | 4.06 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 5 | 4.06 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 7 | 4.06 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 7 | 4.06 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 7 | 4.06 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 13 | 4.06 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 13 | 4.06 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 13 | 4.06 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 13 | 4.06 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 13 | 4.06 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 13 | 4.06 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 3 | 4.06 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 3 | 4.06 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 3 | 4.06 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 15 | 4.06 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 15 | 4.06 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 15 | 4.06 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 15 | 4.06 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 15 | 4.06 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 15 | 4.06 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 11 | 4.06 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 14 | 4.06 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 14 | 4.06 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 2 | 4.06 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 2 | 4.06 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 20 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 4.06 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 6 | 4.06 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 6 | 4.06 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 2 | 4.06 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 2 | 4.06 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 2 | 4.06 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 2 | 4.06 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 2 | 4.06 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 12 | 4.06 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 12 | 4.06 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 12 | 4.06 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 12 | 4.06 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 12 | 4.06 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 12 | 4.06 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 14 | 4.06 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 14 | 4.06 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 14 | 4.06 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 14 | 4.06 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 14 | 4.06 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 14 | 4.06 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 4 | 4.06 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 4 | 4.06 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 4.06 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 14 | 4.06 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 4.06 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 4.06 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 4.06 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 4.06 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 4.06 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 4.06 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 12 | 4.06 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 12 | 4.06 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 12 | 4.06 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 12 | 4.06 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 15 | 4.06 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 15 | 4.06 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 15 | 4.06 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 2 | 4.06 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 5 | 4.06 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 5 | 4.06 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 5 | 4.06 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 4 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 5 | 4.06 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 19 | 4.06 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 3 | 4.06 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 3 | 4.06 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 3 | 4.06 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 5 | 4.06 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 7 | 4.06 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 12 | 4.06 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 12 | 4.06 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 9 | 4.06 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 11 | 4.06 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 4.06 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 11 | 4.06 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 3 | 4.06 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 3 | 4.06 |
| (1,2550) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 3 | 4.06 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 11 | 4.06 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 3 | 4.06 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 10 | 4.06 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 9 | 4.06 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 3 | 4.06 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 7 | 4.06 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 4 | 4.06 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 15 | 4.06 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 2 | 4.06 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 16 | 4.06 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 1 | 4.06 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 9 | 4.06 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 13 | 4.06 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 20 | 4.06 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 20 | 4.06 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 20 | 4.06 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 3 | 4.06 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 3 | 4.06 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 3 | 4.06 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 8 | 4.06 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 8 | 4.06 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 8 | 4.06 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 18 | 4.06 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 19 | 4.06 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 19 | 4.06 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 19 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 11 | 4.06 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 11 | 4.06 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 11 | 4.06 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 2 | 4.06 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 2 | 4.06 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 2 | 4.06 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 2 | 4.06 |
| (1,1896) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 7 | 4.06 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 5 | 4.06 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 5 | 4.06 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 5 | 4.06 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 9 | 4.06 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 9 | 4.06 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 9 | 4.06 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 18 | 4.06 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 5 | 4.06 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 5 | 4.06 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 14 | 4.06 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 14 | 4.06 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 3 | 4.06 |
| (1,1760) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 3 | 4.06 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 2 | 4.06 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 13 | 4.06 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 13 | 4.06 |
| (1,1686) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 13 | 4.06 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 14 | 4.06 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 6 | 4.06 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 6 | 4.06 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 6 | 4.06 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 3 | 4.06 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 2 | 4.06 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 2 | 4.06 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 4 | 4.06 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 4 | 4.06 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 4 | 4.06 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 2 | 4.06 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 2 | 4.06 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 15 | 4.06 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 9 | 4.06 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 7 | 4.06 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 4 | 4.06 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 4 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 6 | 4.06 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 6 | 4.06 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 17 | 4.06 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 17 | 4.06 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 15 | 4.06 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 20 | 4.06 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 19 | 4.06 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 6 | 4.06 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 16 | 4.06 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 16 | 4.06 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 18 | 4.06 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 18 | 4.06 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 18 | 4.06 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 16 | 4.06 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 4 | 4.06 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 4 | 4.06 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 4 | 4.06 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 20 | 4.06 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 20 | 4.06 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 20 | 4.06 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 16 | 4.06 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 2 | 4.06 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 17 | 4.06 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 17 | 4.06 |
| (1,842) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 17 | 4.06 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 16 | 4.06 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 12 | 4.06 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 15 | 4.06 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 5 | 4.06 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 11 | 4.06 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 10 | 4.06 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 11 | 4.06 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 17 | 4.06 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 15 | 4.06 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 15 | 4.06 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 15 | 4.06 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 13 | 4.06 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 13 | 4.06 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 13 | 4.06 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 19 | 4.06 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 19 | 4.06 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 19 | 4.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 19 | 4.06 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 19 | 4.06 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 19 | 4.06 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 19 | 4.06 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 19 | 4.06 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 19 | 4.06 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 6 | 4.06 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 6 | 4.06 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 6 | 4.06 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 3 | 4.05 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 11 | 4.05 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 11 | 4.05 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 3 | 4.05 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 3 | 4.05 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 4 | 4.05 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 4 | 4.05 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 4 | 4.05 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 4 | 4.05 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 4 | 4.05 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 4 | 4.05 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 9 | 4.05 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 9 | 4.05 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 9 | 4.05 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 9 | 4.05 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 8 | 4.05 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 8 | 4.05 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 17 | 4.05 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 17 | 4.05 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 11 | 4.05 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 11 | 4.05 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 16 | 4.05 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 16 | 4.05 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 16 | 4.05 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 16 | 4.05 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 4.05 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 4.05 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 3 | 4.05 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 3 | 4.05 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 3 | 4.05 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 3 | 4.05 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 3 | 4.05 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 3 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 2 | 4.05 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 2 | 4.05 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 3 | 4.05 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 3 | 4.05 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 3 | 4.05 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 3 | 4.05 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 14 | 4.05 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 14 | 4.05 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 8 | 4.05 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 8 | 4.05 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 8 | 4.05 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 8 | 4.05 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 8 | 4.05 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 8 | 4.05 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 14 | 4.05 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 14 | 4.05 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 17 | 4.05 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 17 | 4.05 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 19 | 4.05 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 19 | 4.05 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 12 | 4.05 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 12 | 4.05 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 16 | 4.05 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 16 | 4.05 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 16 | 4.05 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 16 | 4.05 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 16 | 4.05 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 16 | 4.05 |
| (1,9088) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 9 | 4.05 |
| (1,9088) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 9 | 4.05 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 7 | 4.05 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 7 | 4.05 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 10 | 4.05 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 10 | 4.05 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 11 | 4.05 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 11 | 4.05 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 18 | 4.05 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 18 | 4.05 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 18 | 4.05 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 18 | 4.05 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 18 | 4.05 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 18 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 3 | 4.05 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 3 | 4.05 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 9 | 4.05 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 9 | 4.05 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG2 | 15 | 4.05 |
| (1,9003) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HG3 | 15 | 4.05 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG2 | 15 | 4.05 |
| (1,9003) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HG3 | 15 | 4.05 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 17 | 4.05 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 17 | 4.05 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 12 | 4.05 |
| (1,8942) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 12 | 4.05 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 7 | 4.05 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 7 | 4.05 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 9 | 4.05 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 9 | 4.05 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 9 | 4.05 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 9 | 4.05 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 9 | 4.05 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 9 | 4.05 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 18 | 4.05 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 18 | 4.05 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 18 | 4.05 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 18 | 4.05 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 18 | 4.05 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 18 | 4.05 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 5 | 4.05 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 5 | 4.05 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 7 | 4.05 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 7 | 4.05 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 10 | 4.05 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 10 | 4.05 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 3 | 4.05 |
| (1,8820) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 3 | 4.05 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 13 | 4.05 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 13 | 4.05 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 4.05 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 20 | 4.05 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 17 | 4.05 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 17 | 4.05 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 17 | 4.05 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 17 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 3 | 4.05 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 3 | 4.05 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 6 | 4.05 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 6 | 4.05 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 14 | 4.05 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 14 | 4.05 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 12 | 4.05 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 12 | 4.05 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 12 | 4.05 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 12 | 4.05 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 4.05 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 4.05 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 8 | 4.05 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 8 | 4.05 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 6 | 4.05 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 6 | 4.05 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 12 | 4.05 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 12 | 4.05 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 17 | 4.05 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 17 | 4.05 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 12 | 4.05 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 12 | 4.05 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 4 | 4.05 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 4 | 4.05 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 10 | 4.05 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 10 | 4.05 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 10 | 4.05 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 7 | 4.05 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 7 | 4.05 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 7 | 4.05 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 19 | 4.05 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 19 | 4.05 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 19 | 4.05 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 8 | 4.05 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 8 | 4.05 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 8 | 4.05 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 5 | 4.05 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 1 | 4.05 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 17 | 4.05 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 17 | 4.05 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 17 | 4.05 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 17 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 17 | 4.05 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 17 | 4.05 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 18 | 4.05 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 4 | 4.05 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 4 | 4.05 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 4 | 4.05 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 4 | 4.05 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 4 | 4.05 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 4 | 4.05 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 9 | 4.05 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 20 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 13 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 13 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 13 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 13 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 13 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 13 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 13 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 13 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 13 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 20 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 20 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 20 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 20 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 20 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 20 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 20 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 20 | 4.05 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 20 | 4.05 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 16 | 4.05 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 16 | 4.05 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 16 | 4.05 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 16 | 4.05 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 16 | 4.05 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 16 | 4.05 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 16 | 4.05 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 16 | 4.05 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 16 | 4.05 |
| (1,7911) | 1:68:A:ARG:HA | 1:68:A:ARG:HD3 | 5 | 4.05 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 12 | 4.05 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 12 | 4.05 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 12 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 12 | 4.05 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 8 | 4.05 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 2 | 4.05 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 10 | 4.05 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 10 | 4.05 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 10 | 4.05 |
| (1,7744) | 1:55:A:VAL:HA | 1:163:A:GLU:H | 17 | 4.05 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 2 | 4.05 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 20 | 4.05 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 7 | 4.05 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 10 | 4.05 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 10 | 4.05 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 10 | 4.05 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 14 | 4.05 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 14 | 4.05 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 14 | 4.05 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 16 | 4.05 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 16 | 4.05 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 14 | 4.05 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 14 | 4.05 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 14 | 4.05 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 14 | 4.05 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 14 | 4.05 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 14 | 4.05 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 20 | 4.05 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 20 | 4.05 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 20 | 4.05 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 20 | 4.05 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 20 | 4.05 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 20 | 4.05 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 13 | 4.05 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 13 | 4.05 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 13 | 4.05 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 13 | 4.05 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 13 | 4.05 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 13 | 4.05 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 19 | 4.05 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 1 | 4.05 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 1 | 4.05 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 1 | 4.05 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 16 | 4.05 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 16 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 16 | 4.05 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 3 | 4.05 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 8 | 4.05 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 8 | 4.05 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 8 | 4.05 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 8 | 4.05 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 8 | 4.05 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 8 | 4.05 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 8 | 4.05 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 8 | 4.05 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 8 | 4.05 |
| (1,7183) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 15 | 4.05 |
| (1,7183) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 15 | 4.05 |
| (1,7183) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 15 | 4.05 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 16 | 4.05 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 16 | 4.05 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 3 | 4.05 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 3 | 4.05 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 3 | 4.05 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 12 | 4.05 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 12 | 4.05 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 12 | 4.05 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 14 | 4.05 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 4 | 4.05 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 6 | 4.05 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 8 | 4.05 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 8 | 4.05 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 10 | 4.05 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 15 | 4.05 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 1 | 4.05 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 2 | 4.05 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 12 | 4.05 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 12 | 4.05 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 12 | 4.05 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 12 | 4.05 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 12 | 4.05 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 12 | 4.05 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 12 | 4.05 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 12 | 4.05 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 12 | 4.05 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 14 | 4.05 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 15 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6583) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 13 | 4.05 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 11 | 4.05 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 3 | 4.05 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 3 | 4.05 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 3 | 4.05 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 15 | 4.05 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 15 | 4.05 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 15 | 4.05 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 19 | 4.05 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 19 | 4.05 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 19 | 4.05 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 11 | 4.05 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 11 | 4.05 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 11 | 4.05 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 1 | 4.05 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 1 | 4.05 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 1 | 4.05 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 1 | 4.05 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 1 | 4.05 |
| (1,6254) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 1 | 4.05 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 1 | 4.05 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 1 | 4.05 |
| (1,6254) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 1 | 4.05 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 1 | 4.05 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 1 | 4.05 |
| (1,6254) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 1 | 4.05 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 13 | 4.05 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 8 | 4.05 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 8 | 4.05 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 15 | 4.05 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 15 | 4.05 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 17 | 4.05 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 17 | 4.05 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 17 | 4.05 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 6 | 4.05 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 6 | 4.05 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 6 | 4.05 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 2 | 4.05 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 2 | 4.05 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 2 | 4.05 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 3 | 4.05 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 3 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 3 | 4.05 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 3 | 4.05 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 3 | 4.05 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 3 | 4.05 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 12 | 4.05 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 12 | 4.05 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 12 | 4.05 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 5 | 4.05 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 1 | 4.05 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 2 | 4.05 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 6 | 4.05 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 13 | 4.05 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 14 | 4.05 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 14 | 4.05 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 14 | 4.05 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 14 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 20 | 4.05 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 20 | 4.05 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 5 | 4.05 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 12 | 4.05 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 2 | 4.05 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 14 | 4.05 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 18 | 4.05 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 18 | 4.05 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 18 | 4.05 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 18 | 4.05 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 18 | 4.05 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 18 | 4.05 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 7 | 4.05 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 10 | 4.05 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 10 | 4.05 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 10 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 10 | 4.05 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 10 | 4.05 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 10 | 4.05 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 5 | 4.05 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 16 | 4.05 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 10 | 4.05 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 3 | 4.05 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 3 | 4.05 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 3 | 4.05 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 8 | 4.05 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 8 | 4.05 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 8 | 4.05 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 14 | 4.05 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 7 | 4.05 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 1 | 4.05 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 17 | 4.05 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 17 | 4.05 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 17 | 4.05 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 17 | 4.05 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 17 | 4.05 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 17 | 4.05 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 10 | 4.05 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 10 | 4.05 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 10 | 4.05 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 2 | 4.05 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 2 | 4.05 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 2 | 4.05 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 3 | 4.05 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 3 | 4.05 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 3 | 4.05 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 3 | 4.05 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 4 | 4.05 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 4 | 4.05 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 4 | 4.05 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 1 | 4.05 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 16 | 4.05 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 16 | 4.05 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 16 | 4.05 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 9 | 4.05 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 20 | 4.05 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 20 | 4.05 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 20 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5230) | 1:86:A:LEU:H | 1:88:A:LEU:H | 11 | 4.05 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 7 | 4.05 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 6 | 4.05 |
| (1,5132) | 1:81:A:THR:H | 1:84:A:GLU:H | 19 | 4.05 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 4 | 4.05 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 2 | 4.05 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 2 | 4.05 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 2 | 4.05 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 7 | 4.05 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 15 | 4.05 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 15 | 4.05 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 15 | 4.05 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 15 | 4.05 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 15 | 4.05 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 15 | 4.05 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 17 | 4.05 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 17 | 4.05 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 20 | 4.05 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 20 | 4.05 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 20 | 4.05 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 2 | 4.05 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 2 | 4.05 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 2 | 4.05 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 13 | 4.05 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 13 | 4.05 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 13 | 4.05 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 13 | 4.05 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 13 | 4.05 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 13 | 4.05 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 13 | 4.05 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 13 | 4.05 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 13 | 4.05 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 9 | 4.05 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 13 | 4.05 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 7 | 4.05 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 7 | 4.05 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 7 | 4.05 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 7 | 4.05 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 17 | 4.05 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 17 | 4.05 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 17 | 4.05 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 7 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 7 | 4.05 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 7 | 4.05 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 9 | 4.05 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 9 | 4.05 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 9 | 4.05 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 8 | 4.05 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 20 | 4.05 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 13 | 4.05 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 5 | 4.05 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 15 | 4.05 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 11 | 4.05 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 11 | 4.05 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 3 | 4.05 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 3 | 4.05 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 4 | 4.05 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 4 | 4.05 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 4 | 4.05 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 4 | 4.05 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 4 | 4.05 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 4 | 4.05 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 11 | 4.05 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 11 | 4.05 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 16 | 4.05 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 16 | 4.05 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 14 | 4.05 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 14 | 4.05 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 14 | 4.05 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 4.05 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 4.05 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 3 | 4.05 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 3 | 4.05 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 3 | 4.05 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 3 | 4.05 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 5 | 4.05 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 2 | 4.05 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 2 | 4.05 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 14 | 4.05 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 14 | 4.05 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 12 | 4.05 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 12 | 4.05 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 12 | 4.05 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 14 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 14 | 4.05 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 6 | 4.05 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 6 | 4.05 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 6 | 4.05 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 6 | 4.05 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 19 | 4.05 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 3 | 4.05 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 11 | 4.05 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 1 | 4.05 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 1 | 4.05 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 1 | 4.05 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 19 | 4.05 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 19 | 4.05 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 19 | 4.05 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 13 | 4.05 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 12 | 4.05 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 12 | 4.05 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 4 | 4.05 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 4 | 4.05 |
| (1,4062) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 9 | 4.05 |
| (1,4062) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 9 | 4.05 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 11 | 4.05 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 11 | 4.05 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 11 | 4.05 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 11 | 4.05 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 11 | 4.05 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 11 | 4.05 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 10 | 4.05 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 10 | 4.05 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 18 | 4.05 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 18 | 4.05 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 18 | 4.05 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 18 | 4.05 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 18 | 4.05 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 18 | 4.05 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 9 | 4.05 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 9 | 4.05 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 17 | 4.05 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 17 | 4.05 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 14 | 4.05 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 14 | 4.05 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 3 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 17 | 4.05 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 7 | 4.05 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 7 | 4.05 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 12 | 4.05 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 9 | 4.05 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 9 | 4.05 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 9 | 4.05 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 9 | 4.05 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 9 | 4.05 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 9 | 4.05 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 18 | 4.05 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 18 | 4.05 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 18 | 4.05 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 18 | 4.05 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 18 | 4.05 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 18 | 4.05 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 8 | 4.05 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 8 | 4.05 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 8 | 4.05 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 4 | 4.05 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 4 | 4.05 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 4 | 4.05 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 13 | 4.05 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 13 | 4.05 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 4.05 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 20 | 4.05 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 9 | 4.05 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 9 | 4.05 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 9 | 4.05 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 9 | 4.05 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 9 | 4.05 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 9 | 4.05 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 3 | 4.05 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 3 | 4.05 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 5 | 4.05 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 5 | 4.05 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 19 | 4.05 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 12 | 4.05 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 12 | 4.05 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 12 | 4.05 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 12 | 4.05 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 4.05 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 15 | 4.05 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 12 | 4.05 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 12 | 4.05 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 4 | 4.05 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 4 | 4.05 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 16 | 4.05 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 16 | 4.05 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 16 | 4.05 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 3 | 4.05 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 3 | 4.05 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 3 | 4.05 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 3 | 4.05 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 13 | 4.05 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 8 | 4.05 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 8 | 4.05 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 8 | 4.05 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 8 | 4.05 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 8 | 4.05 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 8 | 4.05 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 8 | 4.05 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 8 | 4.05 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 8 | 4.05 |
| (1,3326) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 4.05 |
| (1,3312) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 15 | 4.05 |
| (1,3312) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 15 | 4.05 |
| (1,3312) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 15 | 4.05 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 11 | 4.05 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 11 | 4.05 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 11 | 4.05 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 11 | 4.05 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 11 | 4.05 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 11 | 4.05 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 16 | 4.05 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 16 | 4.05 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 3 | 4.05 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 3 | 4.05 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 3 | 4.05 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 3 | 4.05 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 12 | 4.05 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 12 | 4.05 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 12 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 14 | 4.05 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 4 | 4.05 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 6 | 4.05 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 4 | 4.05 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 13 | 4.05 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 6 | 4.05 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 8 | 4.05 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 8 | 4.05 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 10 | 4.05 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 15 | 4.05 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 1 | 4.05 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 13 | 4.05 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 2 | 4.05 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 1 | 4.05 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 15 | 4.05 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 15 | 4.05 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 15 | 4.05 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 2 | 4.05 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 15 | 4.05 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 12 | 4.05 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 12 | 4.05 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 12 | 4.05 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 12 | 4.05 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 12 | 4.05 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 12 | 4.05 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 12 | 4.05 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 12 | 4.05 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 12 | 4.05 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 16 | 4.05 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 16 | 4.05 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 16 | 4.05 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 14 | 4.05 |
| (1,2442) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 13 | 4.05 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 11 | 4.05 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 9 | 4.05 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 11 | 4.05 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 7 | 4.05 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 15 | 4.05 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 3 | 4.05 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 3 | 4.05 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 3 | 4.05 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 12 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 15 | 4.05 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 15 | 4.05 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 15 | 4.05 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 19 | 4.05 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 19 | 4.05 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 19 | 4.05 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 11 | 4.05 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 11 | 4.05 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 11 | 4.05 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 16 | 4.05 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 1 | 4.05 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 1 | 4.05 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 1 | 4.05 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 5 | 4.05 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 1 | 4.05 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 1 | 4.05 |
| (1,1908) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 1 | 4.05 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 1 | 4.05 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 1 | 4.05 |
| (1,1908) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 1 | 4.05 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 1 | 4.05 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 1 | 4.05 |
| (1,1908) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 1 | 4.05 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 13 | 4.05 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 8 | 4.05 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 8 | 4.05 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 15 | 4.05 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 15 | 4.05 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 17 | 4.05 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 17 | 4.05 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 17 | 4.05 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 6 | 4.05 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 6 | 4.05 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 6 | 4.05 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 2 | 4.05 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 2 | 4.05 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 2 | 4.05 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 11 | 4.05 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 11 | 4.05 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 11 | 4.05 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 3 | 4.05 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 3 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 3 | 4.05 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 4.05 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 3 | 4.05 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 3 | 4.05 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 3 | 4.05 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 12 | 4.05 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 12 | 4.05 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 12 | 4.05 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 5 | 4.05 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 18 | 4.05 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 18 | 4.05 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 18 | 4.05 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 3 | 4.05 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 1 | 4.05 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 2 | 4.05 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 15 | 4.05 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 6 | 4.05 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 13 | 4.05 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 14 | 4.05 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 14 | 4.05 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 14 | 4.05 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 14 | 4.05 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 4 | 4.05 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 4 | 4.05 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 4 | 4.05 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 4 | 4.05 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 4 | 4.05 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 4 | 4.05 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 5 | 4.05 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 16 | 4.05 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 16 | 4.05 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 12 | 4.05 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 5 | 4.05 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 10 | 4.05 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 18 | 4.05 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 1 | 4.05 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 2 | 4.05 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 14 | 4.05 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 18 | 4.05 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 18 | 4.05 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 18 | 4.05 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 18 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 18 | 4.05 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 18 | 4.05 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 7 | 4.05 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 10 | 4.05 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 10 | 4.05 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 10 | 4.05 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 10 | 4.05 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 10 | 4.05 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 10 | 4.05 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 8 | 4.05 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 8 | 4.05 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 5 | 4.05 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 16 | 4.05 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 10 | 4.05 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 3 | 4.05 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 3 | 4.05 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 3 | 4.05 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 8 | 4.05 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 8 | 4.05 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 8 | 4.05 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 14 | 4.05 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 7 | 4.05 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 9 | 4.05 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 1 | 4.05 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 17 | 4.05 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 17 | 4.05 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 17 | 4.05 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 17 | 4.05 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 17 | 4.05 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 17 | 4.05 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 10 | 4.05 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 10 | 4.05 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 10 | 4.05 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 20 | 4.05 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 20 | 4.05 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 20 | 4.05 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 20 | 4.05 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 20 | 4.05 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 20 | 4.05 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 13 | 4.05 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 13 | 4.05 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 13 | 4.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 15 | 4.05 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 9 | 4.05 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 9 | 4.05 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 9 | 4.05 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 9 | 4.05 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 18 | 4.05 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 2 | 4.04 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 2 | 4.04 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 3 | 4.04 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 3 | 4.04 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 9 | 4.04 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 9 | 4.04 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 6 | 4.04 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 6 | 4.04 |
| (1,9609) | 1:158:A:ILE:HG12 | 1:159:A:ILE:H | 17 | 4.04 |
| (1,9609) | 1:158:A:ILE:HG13 | 1:159:A:ILE:H | 17 | 4.04 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG21 | 17 | 4.04 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG22 | 17 | 4.04 |
| (1,9603) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HG23 | 17 | 4.04 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG21 | 17 | 4.04 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG22 | 17 | 4.04 |
| (1,9603) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HG23 | 17 | 4.04 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 18 | 4.04 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 18 | 4.04 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 5 | 4.04 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 5 | 4.04 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 5 | 4.04 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 5 | 4.04 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 8 | 4.04 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 8 | 4.04 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 8 | 4.04 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 8 | 4.04 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 11 | 4.04 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 11 | 4.04 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 17 | 4.04 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 17 | 4.04 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 20 | 4.04 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 20 | 4.04 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 20 | 4.04 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 20 | 4.04 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 10 | 4.04 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 10 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 1 | 4.04 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 1 | 4.04 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 1 | 4.04 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 1 | 4.04 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 14 | 4.04 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 14 | 4.04 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 14 | 4.04 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 14 | 4.04 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 1 | 4.04 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 1 | 4.04 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 1 | 4.04 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 1 | 4.04 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 14 | 4.04 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 14 | 4.04 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 14 | 4.04 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 14 | 4.04 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 10 | 4.04 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 10 | 4.04 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 13 | 4.04 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 13 | 4.04 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 3 | 4.04 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 3 | 4.04 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 4.04 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 4.04 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 7 | 4.04 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 7 | 4.04 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 10 | 4.04 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 10 | 4.04 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 10 | 4.04 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 10 | 4.04 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 18 | 4.04 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 18 | 4.04 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 10 | 4.04 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 10 | 4.04 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 17 | 4.04 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 17 | 4.04 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 13 | 4.04 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 13 | 4.04 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 13 | 4.04 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 13 | 4.04 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 13 | 4.04 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 13 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 3 | 4.04 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 3 | 4.04 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 3 | 4.04 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 3 | 4.04 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 2 | 4.04 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 2 | 4.04 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 8 | 4.04 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 8 | 4.04 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 20 | 4.04 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 20 | 4.04 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 20 | 4.04 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 20 | 4.04 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 20 | 4.04 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 20 | 4.04 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 16 | 4.04 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 16 | 4.04 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 15 | 4.04 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 15 | 4.04 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 10 | 4.04 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 10 | 4.04 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 16 | 4.04 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 16 | 4.04 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 14 | 4.04 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 14 | 4.04 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 14 | 4.04 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 14 | 4.04 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 14 | 4.04 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 14 | 4.04 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 15 | 4.04 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 15 | 4.04 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 15 | 4.04 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 15 | 4.04 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 15 | 4.04 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 15 | 4.04 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 4 | 4.04 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 4 | 4.04 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 15 | 4.04 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 15 | 4.04 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 2 | 4.04 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 2 | 4.04 |
| (1,8932) | 1:70:A:PRO:HG2 | 1:78:A:ILE:H | 11 | 4.04 |
| (1,8932) | 1:70:A:PRO:HG3 | 1:78:A:ILE:H | 11 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 9 | 4.04 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 9 | 4.04 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 16 | 4.04 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 16 | 4.04 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 8 | 4.04 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 8 | 4.04 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 8 | 4.04 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 8 | 4.04 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 8 | 4.04 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 8 | 4.04 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 17 | 4.04 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 17 | 4.04 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 1 | 4.04 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 1 | 4.04 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 19 | 4.04 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 19 | 4.04 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 19 | 4.04 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 19 | 4.04 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 19 | 4.04 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 19 | 4.04 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 4 | 4.04 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 4 | 4.04 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 17 | 4.04 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 17 | 4.04 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 19 | 4.04 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 19 | 4.04 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 2 | 4.04 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 2 | 4.04 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 3 | 4.04 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 3 | 4.04 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 7 | 4.04 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 7 | 4.04 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 7 | 4.04 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 7 | 4.04 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 4 | 4.04 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 4 | 4.04 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 8 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 4.04 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 4.04 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 1 | 4.04 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 1 | 4.04 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 14 | 4.04 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 14 | 4.04 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 16 | 4.04 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 9 | 4.04 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 20 | 4.04 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 20 | 4.04 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 20 | 4.04 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 4 | 4.04 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 4 | 4.04 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 4 | 4.04 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 15 | 4.04 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 10 | 4.04 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 10 | 4.04 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 10 | 4.04 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 8 | 4.04 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 8 | 4.04 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 8 | 4.04 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 11 | 4.04 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 11 | 4.04 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 11 | 4.04 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 11 | 4.04 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 11 | 4.04 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 16 | 4.04 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 7 | 4.04 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 7 | 4.04 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 5 | 4.04 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 20 | 4.04 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG2 | 20 | 4.04 |
| (1,8083) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HG3 | 20 | 4.04 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG2 | 20 | 4.04 |
| (1,8083) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HG3 | 20 | 4.04 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 7 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 9 | 4.04 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 16 | 4.04 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 17 | 4.04 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 17 | 4.04 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 17 | 4.04 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 5 | 4.04 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 19 | 4.04 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 13 | 4.04 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 5 | 4.04 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 5 | 4.04 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 5 | 4.04 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 13 | 4.04 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 13 | 4.04 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 13 | 4.04 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 13 | 4.04 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 13 | 4.04 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 13 | 4.04 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 13 | 4.04 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 13 | 4.04 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 13 | 4.04 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 18 | 4.04 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 18 | 4.04 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 18 | 4.04 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 18 | 4.04 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 18 | 4.04 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 18 | 4.04 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 18 | 4.04 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 18 | 4.04 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 18 | 4.04 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 10 | 4.04 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 18 | 4.04 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 18 | 4.04 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 18 | 4.04 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 18 | 4.04 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 18 | 4.04 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 18 | 4.04 |
| (1,7720) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 13 | 4.04 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 18 | 4.04 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 7 | 4.04 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 7 | 4.04 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 7 | 4.04 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 7 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 3 | 4.04 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 6 | 4.04 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 2 | 4.04 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 2 | 4.04 |
| (1,7633) | 1:27:A:HIS:HA | 1:29:A:THR:H | 14 | 4.04 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 19 | 4.04 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 14 | 4.04 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 14 | 4.04 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 16 | 4.04 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 16 | 4.04 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 16 | 4.04 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 3 | 4.04 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 3 | 4.04 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 6 | 4.04 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 8 | 4.04 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 8 | 4.04 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 8 | 4.04 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 2 | 4.04 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 2 | 4.04 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 2 | 4.04 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 10 | 4.04 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 16 | 4.04 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 16 | 4.04 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 16 | 4.04 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 19 | 4.04 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 19 | 4.04 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 15 | 4.04 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 15 | 4.04 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 4 | 4.04 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 14 | 4.04 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 14 | 4.04 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 14 | 4.04 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 15 | 4.04 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 8 | 4.04 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 18 | 4.04 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 14 | 4.04 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 14 | 4.04 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 14 | 4.04 |
| (1,7163) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 4 | 4.04 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 13 | 4.04 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 2 | 4.04 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 15 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 15 | 4.04 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 11 | 4.04 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 5 | 4.04 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 10 | 4.04 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 14 | 4.04 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 1 | 4.04 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 11 | 4.04 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 16 | 4.04 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 16 | 4.04 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 13 | 4.04 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 3 | 4.04 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 3 | 4.04 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 3 | 4.04 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 3 | 4.04 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 3 | 4.04 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 3 | 4.04 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 3 | 4.04 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 3 | 4.04 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 3 | 4.04 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 1 | 4.04 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 1 | 4.04 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 1 | 4.04 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 10 | 4.04 |
| (1,6676) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 12 | 4.04 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 5 | 4.04 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 2 | 4.04 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 20 | 4.04 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 13 | 4.04 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 18 | 4.04 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 16 | 4.04 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 16 | 4.04 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 9 | 4.04 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 9 | 4.04 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 9 | 4.04 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 19 | 4.04 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 19 | 4.04 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 19 | 4.04 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 9 | 4.04 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 9 | 4.04 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 9 | 4.04 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 9 | 4.04 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 9 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 9 | 4.04 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 9 | 4.04 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 9 | 4.04 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 9 | 4.04 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 8 | 4.04 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 5 | 4.04 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 5 | 4.04 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 5 | 4.04 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 20 | 4.04 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 20 | 4.04 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 1 | 4.04 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 1 | 4.04 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 1 | 4.04 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 1 | 4.04 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 19 | 4.04 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 19 | 4.04 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 5 | 4.04 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 5 | 4.04 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 5 | 4.04 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 5 | 4.04 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 5 | 4.04 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 5 | 4.04 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 5 | 4.04 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 5 | 4.04 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 5 | 4.04 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 13 | 4.04 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 13 | 4.04 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 13 | 4.04 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 16 | 4.04 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 16 | 4.04 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 16 | 4.04 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 16 | 4.04 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 16 | 4.04 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 16 | 4.04 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 10 | 4.04 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 19 | 4.04 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 3 | 4.04 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 12 | 4.04 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 20 | 4.04 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 20 | 4.04 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 20 | 4.04 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 16 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 16 | 4.04 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 13 | 4.04 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 1 | 4.04 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 1 | 4.04 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 1 | 4.04 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 19 | 4.04 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 4 | 4.04 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 5 | 4.04 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 6 | 4.04 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 2 | 4.04 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 10 | 4.04 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 1 | 4.04 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 17 | 4.04 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 20 | 4.04 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 20 | 4.04 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 7 | 4.04 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 13 | 4.04 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 13 | 4.04 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 13 | 4.04 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 14 | 4.04 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 14 | 4.04 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 14 | 4.04 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 14 | 4.04 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 14 | 4.04 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 14 | 4.04 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 11 | 4.04 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 11 | 4.04 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 11 | 4.04 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 11 | 4.04 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 11 | 4.04 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 11 | 4.04 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 9 | 4.04 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 1 | 4.04 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 14 | 4.04 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 14 | 4.04 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 14 | 4.04 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 12 | 4.04 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 12 | 4.04 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 12 | 4.04 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 5 | 4.04 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 5 | 4.04 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 5 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 10 | 4.04 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 9 | 4.04 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 18 | 4.04 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 15 | 4.04 |
| (1,5117) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 2 | 4.04 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 8 | 4.04 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 8 | 4.04 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 8 | 4.04 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 13 | 4.04 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 13 | 4.04 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 13 | 4.04 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 6 | 4.04 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 6 | 4.04 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 6 | 4.04 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 6 | 4.04 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 3 | 4.04 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 3 | 4.04 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 3 | 4.04 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 5 | 4.04 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 16 | 4.04 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 20 | 4.04 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 8 | 4.04 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 8 | 4.04 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 9 | 4.04 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 16 | 4.04 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 11 | 4.04 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 11 | 4.04 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 11 | 4.04 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 11 | 4.04 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 11 | 4.04 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 11 | 4.04 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 16 | 4.04 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 16 | 4.04 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 16 | 4.04 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 16 | 4.04 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 16 | 4.04 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 16 | 4.04 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 16 | 4.04 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 16 | 4.04 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 16 | 4.04 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 11 | 4.04 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 11 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 11 | 4.04 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 11 | 4.04 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 11 | 4.04 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 11 | 4.04 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 11 | 4.04 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 11 | 4.04 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 11 | 4.04 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 13 | 4.04 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 13 | 4.04 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 13 | 4.04 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 11 | 4.04 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 16 | 4.04 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 16 | 4.04 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 8 | 4.04 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 8 | 4.04 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 8 | 4.04 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 8 | 4.04 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 18 | 4.04 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 18 | 4.04 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 1 | 4.04 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 1 | 4.04 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 1 | 4.04 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 9 | 4.04 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 9 | 4.04 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 9 | 4.04 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 9 | 4.04 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 9 | 4.04 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 9 | 4.04 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 1 | 4.04 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 1 | 4.04 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 1 | 4.04 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 1 | 4.04 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 14 | 4.04 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 14 | 4.04 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 14 | 4.04 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 14 | 4.04 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 10 | 4.04 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 10 | 4.04 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 13 | 4.04 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 13 | 4.04 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 3 | 4.04 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 3 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 4.04 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 4.04 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 7 | 4.04 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 7 | 4.04 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 2 | 4.04 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 11 | 4.04 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 4.04 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 4.04 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 4.04 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 4.04 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 4.04 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 4.04 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 12 | 4.04 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 2 | 4.04 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 2 | 4.04 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 8 | 4.04 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 8 | 4.04 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 10 | 4.04 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 10 | 4.04 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 16 | 4.04 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 16 | 4.04 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 5 | 4.04 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 5 | 4.04 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 5 | 4.04 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 5 | 4.04 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 5 | 4.04 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 5 | 4.04 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 14 | 4.04 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 14 | 4.04 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 14 | 4.04 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 14 | 4.04 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 14 | 4.04 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 14 | 4.04 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 15 | 4.04 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 13 | 4.04 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 13 | 4.04 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 5 | 4.04 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 4 | 4.04 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 4 | 4.04 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 15 | 4.04 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 15 | 4.04 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 1 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 1 | 4.04 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 7 | 4.04 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 7 | 4.04 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 15 | 4.04 |
| (1,3856) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 5 | 4.04 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 4 | 4.04 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 16 | 4.04 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 16 | 4.04 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 8 | 4.04 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 8 | 4.04 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 8 | 4.04 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 8 | 4.04 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 8 | 4.04 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 8 | 4.04 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 20 | 4.04 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 20 | 4.04 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 20 | 4.04 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 4.04 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 4.04 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 4.04 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 19 | 4.04 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 19 | 4.04 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 19 | 4.04 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 19 | 4.04 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 19 | 4.04 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 19 | 4.04 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 4 | 4.04 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 4 | 4.04 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 20 | 4.04 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 20 | 4.04 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 20 | 4.04 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 20 | 4.04 |
| (1,3600) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 18 | 4.04 |
| (1,3600) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 18 | 4.04 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 4 | 4.04 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 4 | 4.04 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 4.04 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 4.04 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 13 | 4.04 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 4.04 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 13 | 4.04 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 13 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 4.04 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 13 | 4.04 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 13 | 4.04 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 13 | 4.04 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 13 | 4.04 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 18 | 4.04 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 14 | 4.04 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 14 | 4.04 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 11 | 4.04 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 3 | 4.04 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 3 | 4.04 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 3 | 4.04 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 15 | 4.04 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 15 | 4.04 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 15 | 4.04 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 15 | 4.04 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 9 | 4.04 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 18 | 4.04 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 8 | 4.04 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 18 | 4.04 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 14 | 4.04 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 14 | 4.04 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 14 | 4.04 |
| (1,3274) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 4 | 4.04 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 15 | 4.04 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 15 | 4.04 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 15 | 4.04 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 13 | 4.04 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 2 | 4.04 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 15 | 4.04 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 15 | 4.04 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 11 | 4.04 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 5 | 4.04 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 10 | 4.04 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 14 | 4.04 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 1 | 4.04 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 11 | 4.04 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 16 | 4.04 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 16 | 4.04 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 18 | 4.04 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 18 | 4.04 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 14 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 14 | 4.04 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 14 | 4.04 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 14 | 4.04 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 14 | 4.04 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 14 | 4.04 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 13 | 4.04 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 3 | 4.04 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 3 | 4.04 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 3 | 4.04 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 3 | 4.04 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 3 | 4.04 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 3 | 4.04 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 3 | 4.04 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 3 | 4.04 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 3 | 4.04 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 7 | 4.04 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 7 | 4.04 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 7 | 4.04 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 1 | 4.04 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 1 | 4.04 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 1 | 4.04 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 1 | 4.04 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 1 | 4.04 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 1 | 4.04 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 10 | 4.04 |
| (1,2564) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 12 | 4.04 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 5 | 4.04 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 2 | 4.04 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 13 | 4.04 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 18 | 4.04 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 16 | 4.04 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 16 | 4.04 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 6 | 4.04 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 6 | 4.04 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 6 | 4.04 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 9 | 4.04 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 9 | 4.04 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 9 | 4.04 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 19 | 4.04 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 19 | 4.04 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 19 | 4.04 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 9 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 9 | 4.04 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 9 | 4.04 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 9 | 4.04 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 9 | 4.04 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 9 | 4.04 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 9 | 4.04 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 9 | 4.04 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 9 | 4.04 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 8 | 4.04 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 5 | 4.04 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 5 | 4.04 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 5 | 4.04 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 6 | 4.04 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 20 | 4.04 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 20 | 4.04 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 7 | 4.04 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 7 | 4.04 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 7 | 4.04 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 1 | 4.04 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 1 | 4.04 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 1 | 4.04 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 1 | 4.04 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 5 | 4.04 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 5 | 4.04 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 5 | 4.04 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 19 | 4.04 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 19 | 4.04 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 5 | 4.04 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 5 | 4.04 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 5 | 4.04 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 5 | 4.04 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 5 | 4.04 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 5 | 4.04 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 5 | 4.04 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 5 | 4.04 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 5 | 4.04 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 13 | 4.04 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 13 | 4.04 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 13 | 4.04 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 13 | 4.04 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 17 | 4.04 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 16 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 16 | 4.04 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 16 | 4.04 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 16 | 4.04 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 16 | 4.04 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 16 | 4.04 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 10 | 4.04 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 19 | 4.04 |
| (1,1440) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 9 | 4.04 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 6 | 4.04 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 3 | 4.04 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 11 | 4.04 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 12 | 4.04 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 20 | 4.04 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 20 | 4.04 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 20 | 4.04 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 6 | 4.04 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 12 | 4.04 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 7 | 4.04 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 16 | 4.04 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 16 | 4.04 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 13 | 4.04 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 4 | 4.04 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 1 | 4.04 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 1 | 4.04 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 1 | 4.04 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 6 | 4.04 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 6 | 4.04 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 19 | 4.04 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 4 | 4.04 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 5 | 4.04 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 6 | 4.04 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 2 | 4.04 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 10 | 4.04 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 1 | 4.04 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 3 | 4.04 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 17 | 4.04 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 20 | 4.04 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 20 | 4.04 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 7 | 4.04 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 13 | 4.04 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 13 | 4.04 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 13 | 4.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 14 | 4.04 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 14 | 4.04 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 14 | 4.04 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 14 | 4.04 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 14 | 4.04 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 14 | 4.04 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 15 | 4.04 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 15 | 4.04 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 15 | 4.04 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 15 | 4.04 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 15 | 4.04 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 15 | 4.04 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 11 | 4.04 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 11 | 4.04 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 11 | 4.04 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 11 | 4.04 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 11 | 4.04 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 11 | 4.04 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 13 | 4.04 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 13 | 4.04 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 13 | 4.04 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 13 | 4.04 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 13 | 4.04 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 13 | 4.04 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 20 | 4.04 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 17 | 4.04 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 17 | 4.04 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 17 | 4.04 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 5 | 4.04 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 4 | 4.04 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 3 | 4.03 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 11 | 4.03 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 5 | 4.03 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 5 | 4.03 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 1 | 4.03 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 1 | 4.03 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 1 | 4.03 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 1 | 4.03 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 12 | 4.03 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 12 | 4.03 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 12 | 4.03 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 12 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 12 | 4.03 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 12 | 4.03 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 9 | 4.03 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 9 | 4.03 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 9 | 4.03 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 9 | 4.03 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 3 | 4.03 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 3 | 4.03 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 17 | 4.03 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 17 | 4.03 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 17 | 4.03 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 17 | 4.03 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 17 | 4.03 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 17 | 4.03 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 10 | 4.03 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 10 | 4.03 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 3 | 4.03 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 3 | 4.03 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 17 | 4.03 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 17 | 4.03 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 7 | 4.03 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 7 | 4.03 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 16 | 4.03 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 16 | 4.03 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 15 | 4.03 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 15 | 4.03 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 1 | 4.03 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 1 | 4.03 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 9 | 4.03 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 9 | 4.03 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 8 | 4.03 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 8 | 4.03 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 16 | 4.03 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 16 | 4.03 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 2 | 4.03 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 2 | 4.03 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 2 | 4.03 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 2 | 4.03 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 2 | 4.03 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 2 | 4.03 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 15 | 4.03 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 15 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 15 | 4.03 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 15 | 4.03 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 15 | 4.03 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 15 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 5 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 5 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 5 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 5 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 5 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 5 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 16 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 16 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 16 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 16 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 16 | 4.03 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 16 | 4.03 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 6 | 4.03 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 6 | 4.03 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 13 | 4.03 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 13 | 4.03 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 10 | 4.03 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 10 | 4.03 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 5 | 4.03 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 5 | 4.03 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 13 | 4.03 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 13 | 4.03 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 13 | 4.03 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 13 | 4.03 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 13 | 4.03 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 13 | 4.03 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 2 | 4.03 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 2 | 4.03 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 2 | 4.03 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 2 | 4.03 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 16 | 4.03 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 16 | 4.03 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 8 | 4.03 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 8 | 4.03 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 10 | 4.03 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 10 | 4.03 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 2 | 4.03 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 2 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 2 | 4.03 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 2 | 4.03 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 2 | 4.03 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 2 | 4.03 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 3 | 4.03 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 3 | 4.03 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 16 | 4.03 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 16 | 4.03 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 16 | 4.03 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 16 | 4.03 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 1 | 4.03 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 1 | 4.03 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 11 | 4.03 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 11 | 4.03 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 6 | 4.03 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 6 | 4.03 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 11 | 4.03 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 11 | 4.03 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 16 | 4.03 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 16 | 4.03 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 13 | 4.03 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 13 | 4.03 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 13 | 4.03 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 13 | 4.03 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 8 | 4.03 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 8 | 4.03 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 13 | 4.03 |
| (1,8769) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 13 | 4.03 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 18 | 4.03 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 18 | 4.03 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 5 | 4.03 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 5 | 4.03 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 5 | 4.03 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 5 | 4.03 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 2 | 4.03 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 2 | 4.03 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 9 | 4.03 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 9 | 4.03 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 9 | 4.03 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 9 | 4.03 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 6 | 4.03 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 6 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 14 | 4.03 |
| (1,8544) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 14 | 4.03 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 10 | 4.03 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 10 | 4.03 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 10 | 4.03 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 1 | 4.03 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 6 | 4.03 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 6 | 4.03 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 6 | 4.03 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 14 | 4.03 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 6 | 4.03 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 13 | 4.03 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 1 | 4.03 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 1 | 4.03 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 1 | 4.03 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 16 | 4.03 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 16 | 4.03 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 16 | 4.03 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 1 | 4.03 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 7 | 4.03 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 7 | 4.03 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 7 | 4.03 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 10 | 4.03 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 10 | 4.03 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 10 | 4.03 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 14 | 4.03 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 14 | 4.03 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 14 | 4.03 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 3 | 4.03 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 20 | 4.03 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 6 | 4.03 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 16 | 4.03 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 20 | 4.03 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 8 | 4.03 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 12 | 4.03 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 12 | 4.03 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 12 | 4.03 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 4 | 4.03 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 19 | 4.03 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 3 | 4.03 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 6 | 4.03 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 6 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 6 | 4.03 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 19 | 4.03 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 5 | 4.03 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 5 | 4.03 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 5 | 4.03 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 5 | 4.03 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 5 | 4.03 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 5 | 4.03 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 5 | 4.03 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 5 | 4.03 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 5 | 4.03 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 11 | 4.03 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 11 | 4.03 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 16 | 4.03 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 16 | 4.03 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 17 | 4.03 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 17 | 4.03 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 7 | 4.03 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 7 | 4.03 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 7 | 4.03 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 10 | 4.03 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 18 | 4.03 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 1 | 4.03 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 12 | 4.03 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 4 | 4.03 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 4 | 4.03 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 18 | 4.03 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 18 | 4.03 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 11 | 4.03 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 6 | 4.03 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 6 | 4.03 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 6 | 4.03 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 9 | 4.03 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 9 | 4.03 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 15 | 4.03 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 15 | 4.03 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 5 | 4.03 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 14 | 4.03 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 6 | 4.03 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 5 | 4.03 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 4 | 4.03 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 4 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 4 | 4.03 |
| (1,7176) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 1 | 4.03 |
| (1,7137) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 19 | 4.03 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 14 | 4.03 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 11 | 4.03 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 11 | 4.03 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 11 | 4.03 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 1 | 4.03 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 1 | 4.03 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 1 | 4.03 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 15 | 4.03 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 8 | 4.03 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 2 | 4.03 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 18 | 4.03 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 3 | 4.03 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 3 | 4.03 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 3 | 4.03 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 6 | 4.03 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 6 | 4.03 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 6 | 4.03 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 5 | 4.03 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 5 | 4.03 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 5 | 4.03 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 17 | 4.03 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 17 | 4.03 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 6 | 4.03 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 6 | 4.03 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 2 | 4.03 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 7 | 4.03 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 19 | 4.03 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 18 | 4.03 |
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 20 | 4.03 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 20 | 4.03 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 20 | 4.03 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 20 | 4.03 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 7 | 4.03 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 14 | 4.03 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 5 | 4.03 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 5 | 4.03 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 5 | 4.03 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 17 | 4.03 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 11 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 11 | 4.03 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 8 | 4.03 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 13 | 4.03 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 16 | 4.03 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 16 | 4.03 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 16 | 4.03 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 2 | 4.03 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 2 | 4.03 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 2 | 4.03 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 20 | 4.03 |
| (1,6292) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 13 | 4.03 |
| (1,6292) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 13 | 4.03 |
| (1,6292) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 13 | 4.03 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 8 | 4.03 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 8 | 4.03 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 8 | 4.03 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 8 | 4.03 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 13 | 4.03 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 13 | 4.03 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 1 | 4.03 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 1 | 4.03 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 16 | 4.03 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 16 | 4.03 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 16 | 4.03 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 4 | 4.03 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 4 | 4.03 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 4 | 4.03 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 10 | 4.03 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 10 | 4.03 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 13 | 4.03 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 5 | 4.03 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 11 | 4.03 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 19 | 4.03 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 12 | 4.03 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 18 | 4.03 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 12 | 4.03 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 18 | 4.03 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 2 | 4.03 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 2 | 4.03 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 2 | 4.03 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 2 | 4.03 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 2 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 2 | 4.03 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 9 | 4.03 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 9 | 4.03 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 9 | 4.03 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 9 | 4.03 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 9 | 4.03 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 9 | 4.03 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 15 | 4.03 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 19 | 4.03 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 19 | 4.03 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 19 | 4.03 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 7 | 4.03 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 7 | 4.03 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 3 | 4.03 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 1 | 4.03 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 18 | 4.03 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 18 | 4.03 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 18 | 4.03 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 9 | 4.03 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 9 | 4.03 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 18 | 4.03 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 1 | 4.03 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 1 | 4.03 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 1 | 4.03 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 1 | 4.03 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 1 | 4.03 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 1 | 4.03 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 5 | 4.03 |
| (1,5498) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 7 | 4.03 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 13 | 4.03 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 13 | 4.03 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 8 | 4.03 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 8 | 4.03 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 8 | 4.03 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 5 | 4.03 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 11 | 4.03 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 11 | 4.03 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 11 | 4.03 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 10 | 4.03 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 10 | 4.03 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 10 | 4.03 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 18 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 18 | 4.03 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 18 | 4.03 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 1 | 4.03 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 3 | 4.03 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 8 | 4.03 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 8 | 4.03 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 8 | 4.03 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 19 | 4.03 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 19 | 4.03 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 19 | 4.03 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 5 | 4.03 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 5 | 4.03 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 5 | 4.03 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 3 | 4.03 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 12 | 4.03 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 12 | 4.03 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 11 | 4.03 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 5 | 4.03 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 3 | 4.03 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 9 | 4.03 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 13 | 4.03 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 4 | 4.03 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 18 | 4.03 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 14 | 4.03 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 5 | 4.03 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 5 | 4.03 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 5 | 4.03 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 5 | 4.03 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 5 | 4.03 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 5 | 4.03 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 5 | 4.03 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 5 | 4.03 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 5 | 4.03 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 9 | 4.03 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 9 | 4.03 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 9 | 4.03 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 4 | 4.03 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 4 | 4.03 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 4 | 4.03 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 8 | 4.03 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 6 | 4.03 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 6 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 6 | 4.03 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 15 | 4.03 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 15 | 4.03 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 15 | 4.03 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 15 | 4.03 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 15 | 4.03 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 15 | 4.03 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 1 | 4.03 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 8 | 4.03 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 8 | 4.03 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 17 | 4.03 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 17 | 4.03 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 17 | 4.03 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 17 | 4.03 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 17 | 4.03 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 17 | 4.03 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 10 | 4.03 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 10 | 4.03 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 10 | 4.03 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 13 | 4.03 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 13 | 4.03 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 13 | 4.03 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 13 | 4.03 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 13 | 4.03 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 13 | 4.03 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 7 | 4.03 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 7 | 4.03 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 16 | 4.03 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 16 | 4.03 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 15 | 4.03 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 15 | 4.03 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 15 | 4.03 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 15 | 4.03 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 15 | 4.03 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 15 | 4.03 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 18 | 4.03 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 15 | 4.03 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 13 | 4.03 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 8 | 4.03 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 16 | 4.03 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 16 | 4.03 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 16 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 8 | 4.03 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 8 | 4.03 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 8 | 4.03 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 10 | 4.03 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 10 | 4.03 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 5 | 4.03 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 5 | 4.03 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 14 | 4.03 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 14 | 4.03 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 17 | 4.03 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 17 | 4.03 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 17 | 4.03 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 13 | 4.03 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 13 | 4.03 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 13 | 4.03 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 13 | 4.03 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 13 | 4.03 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 13 | 4.03 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 12 | 4.03 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 2 | 4.03 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 4.03 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 4.03 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 4.03 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 8 | 4.03 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 8 | 4.03 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 15 | 4.03 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 15 | 4.03 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 15 | 4.03 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 12 | 4.03 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 12 | 4.03 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 12 | 4.03 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 6 | 4.03 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 6 | 4.03 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 10 | 4.03 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 10 | 4.03 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 10 | 4.03 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 10 | 4.03 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 3 | 4.03 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 3 | 4.03 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 16 | 4.03 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 16 | 4.03 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 16 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 16 | 4.03 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 1 | 4.03 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 1 | 4.03 |
| (1,3804) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 1 | 4.03 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 15 | 4.03 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 15 | 4.03 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 15 | 4.03 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 15 | 4.03 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 15 | 4.03 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 15 | 4.03 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 10 | 4.03 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 10 | 4.03 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 10 | 4.03 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 10 | 4.03 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 4 | 4.03 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 8 | 4.03 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 8 | 4.03 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 2 | 4.03 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 2 | 4.03 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 14 | 4.03 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 14 | 4.03 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 4 | 4.03 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 18 | 4.03 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 9 | 4.03 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 14 | 4.03 |
| (1,3508) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 14 | 4.03 |
| (1,3506) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 8 | 4.03 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 6 | 4.03 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 7 | 4.03 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 5 | 4.03 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 5 | 4.03 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 12 | 4.03 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 4 | 4.03 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 4 | 4.03 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 4 | 4.03 |
| (1,3296) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 1 | 4.03 |
| (1,3234) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 19 | 4.03 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 14 | 4.03 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 11 | 4.03 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 11 | 4.03 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 11 | 4.03 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 3 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 1 | 4.03 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 1 | 4.03 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 11 | 4.03 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 11 | 4.03 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 11 | 4.03 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 1 | 4.03 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 15 | 4.03 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 8 | 4.03 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 2 | 4.03 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 2 | 4.03 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 18 | 4.03 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 3 | 4.03 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 3 | 4.03 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 3 | 4.03 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 6 | 4.03 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 6 | 4.03 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 6 | 4.03 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 5 | 4.03 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 5 | 4.03 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 5 | 4.03 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 17 | 4.03 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 17 | 4.03 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 6 | 4.03 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 6 | 4.03 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 2 | 4.03 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 7 | 4.03 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 19 | 4.03 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 20 | 4.03 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 18 | 4.03 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 8 | 4.03 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 8 | 4.03 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 8 | 4.03 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 20 | 4.03 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 20 | 4.03 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 20 | 4.03 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 7 | 4.03 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 14 | 4.03 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 5 | 4.03 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 5 | 4.03 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 5 | 4.03 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 11 | 4.03 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 17 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 8 | 4.03 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 1 | 4.03 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 8 | 4.03 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 13 | 4.03 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 16 | 4.03 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 16 | 4.03 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 16 | 4.03 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 2 | 4.03 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 2 | 4.03 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 2 | 4.03 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 5 | 4.03 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 5 | 4.03 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 5 | 4.03 |
| (1,1964) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 13 | 4.03 |
| (1,1964) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 13 | 4.03 |
| (1,1964) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 13 | 4.03 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 8 | 4.03 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 8 | 4.03 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 8 | 4.03 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 8 | 4.03 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 13 | 4.03 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 13 | 4.03 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 1 | 4.03 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 1 | 4.03 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 16 | 4.03 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 16 | 4.03 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 16 | 4.03 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 1 | 4.03 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 4 | 4.03 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 4 | 4.03 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 4 | 4.03 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 1 | 4.03 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 1 | 4.03 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 1 | 4.03 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 17 | 4.03 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 19 | 4.03 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 1 | 4.03 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 10 | 4.03 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 10 | 4.03 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 13 | 4.03 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 14 | 4.03 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 5 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 11 | 4.03 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 19 | 4.03 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 12 | 4.03 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 18 | 4.03 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 12 | 4.03 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 14 | 4.03 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 18 | 4.03 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 2 | 4.03 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 2 | 4.03 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 2 | 4.03 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 2 | 4.03 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 2 | 4.03 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 2 | 4.03 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 9 | 4.03 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 9 | 4.03 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 9 | 4.03 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 9 | 4.03 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 9 | 4.03 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 9 | 4.03 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 15 | 4.03 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 19 | 4.03 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 19 | 4.03 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 19 | 4.03 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 7 | 4.03 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 14 | 4.03 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 16 | 4.03 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 18 | 4.03 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 7 | 4.03 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 7 | 4.03 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 3 | 4.03 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 4 | 4.03 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 16 | 4.03 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 11 | 4.03 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 11 | 4.03 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 1 | 4.03 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 2 | 4.03 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 18 | 4.03 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 18 | 4.03 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 18 | 4.03 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 16 | 4.03 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 16 | 4.03 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 16 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 7 | 4.03 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 7 | 4.03 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 7 | 4.03 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 9 | 4.03 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 9 | 4.03 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 11 | 4.03 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 11 | 4.03 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 11 | 4.03 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 18 | 4.03 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 1 | 4.03 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 1 | 4.03 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 1 | 4.03 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 1 | 4.03 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 1 | 4.03 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 1 | 4.03 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 5 | 4.03 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 17 | 4.03 |
| (1,636) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 7 | 4.03 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 13 | 4.03 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 13 | 4.03 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 8 | 4.03 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 8 | 4.03 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 8 | 4.03 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 13 | 4.03 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 13 | 4.03 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 13 | 4.03 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 16 | 4.03 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 15 | 4.03 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 15 | 4.03 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 15 | 4.03 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 17 | 4.03 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 12 | 4.02 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 17 | 4.02 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 10 | 4.02 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 5 | 4.02 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 14 | 4.02 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 14 | 4.02 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 15 | 4.02 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 15 | 4.02 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 15 | 4.02 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 15 | 4.02 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 12 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 12 | 4.02 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 12 | 4.02 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 12 | 4.02 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 12 | 4.02 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 12 | 4.02 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 17 | 4.02 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 17 | 4.02 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 17 | 4.02 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 17 | 4.02 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 17 | 4.02 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 17 | 4.02 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 14 | 4.02 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 14 | 4.02 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 14 | 4.02 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 14 | 4.02 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 14 | 4.02 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 14 | 4.02 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 10 | 4.02 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 10 | 4.02 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 1 | 4.02 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 1 | 4.02 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 1 | 4.02 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 1 | 4.02 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 1 | 4.02 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 1 | 4.02 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 17 | 4.02 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 17 | 4.02 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 17 | 4.02 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 17 | 4.02 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 17 | 4.02 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 17 | 4.02 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 4 | 4.02 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 4 | 4.02 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 4 | 4.02 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 4 | 4.02 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 4 | 4.02 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 4 | 4.02 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 12 | 4.02 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 12 | 4.02 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 12 | 4.02 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 12 | 4.02 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 8 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 8 | 4.02 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 8 | 4.02 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 8 | 4.02 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 19 | 4.02 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 19 | 4.02 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 19 | 4.02 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 19 | 4.02 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 19 | 4.02 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 19 | 4.02 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 6 | 4.02 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 6 | 4.02 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 11 | 4.02 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 11 | 4.02 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 15 | 4.02 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 15 | 4.02 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 17 | 4.02 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 17 | 4.02 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 4 | 4.02 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 4 | 4.02 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 6 | 4.02 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 6 | 4.02 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 11 | 4.02 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 11 | 4.02 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 10 | 4.02 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 10 | 4.02 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 17 | 4.02 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 17 | 4.02 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 20 | 4.02 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 4.02 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 3 | 4.02 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 3 | 4.02 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 3 | 4.02 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 3 | 4.02 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 3 | 4.02 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 3 | 4.02 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 6 | 4.02 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 6 | 4.02 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 6 | 4.02 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 6 | 4.02 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 6 | 4.02 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 6 | 4.02 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 18 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 18 | 4.02 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 18 | 4.02 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 18 | 4.02 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA2 | 9 | 4.02 |
| (1,9247) | 1:98:A:SER:HA | 1:99:A:GLY:HA3 | 9 | 4.02 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 18 | 4.02 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 18 | 4.02 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 18 | 4.02 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 18 | 4.02 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 18 | 4.02 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 18 | 4.02 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 13 | 4.02 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 13 | 4.02 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 15 | 4.02 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 15 | 4.02 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 15 | 4.02 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 15 | 4.02 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 11 | 4.02 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 11 | 4.02 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 6 | 4.02 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 6 | 4.02 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 13 | 4.02 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 13 | 4.02 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 13 | 4.02 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 13 | 4.02 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 13 | 4.02 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 13 | 4.02 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 19 | 4.02 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 19 | 4.02 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 19 | 4.02 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 19 | 4.02 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 19 | 4.02 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 19 | 4.02 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 5 | 4.02 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 5 | 4.02 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 6 | 4.02 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 6 | 4.02 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 13 | 4.02 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 13 | 4.02 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 17 | 4.02 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 17 | 4.02 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 17 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 17 | 4.02 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 9 | 4.02 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 9 | 4.02 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 8 | 4.02 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 8 | 4.02 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 8 | 4.02 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 8 | 4.02 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 8 | 4.02 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 8 | 4.02 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 8 | 4.02 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 8 | 4.02 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 8 | 4.02 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 8 | 4.02 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 14 | 4.02 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 14 | 4.02 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 13 | 4.02 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 13 | 4.02 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 15 | 4.02 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 15 | 4.02 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 14 | 4.02 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 14 | 4.02 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 1 | 4.02 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 1 | 4.02 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 1 | 4.02 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 1 | 4.02 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 1 | 4.02 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 1 | 4.02 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 15 | 4.02 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 15 | 4.02 |
| (1,8785) | 1:56:A:ARG:HG2 | 1:125:A:PHE:H | 11 | 4.02 |
| (1,8785) | 1:56:A:ARG:HG3 | 1:125:A:PHE:H | 11 | 4.02 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 14 | 4.02 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 14 | 4.02 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 19 | 4.02 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 19 | 4.02 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 14 | 4.02 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 14 | 4.02 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 7 | 4.02 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 7 | 4.02 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 11 | 4.02 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 11 | 4.02 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 16 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 16 | 4.02 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 5 | 4.02 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 5 | 4.02 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 5 | 4.02 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 5 | 4.02 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 19 | 4.02 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 19 | 4.02 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 18 | 4.02 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 18 | 4.02 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 18 | 4.02 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 18 | 4.02 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 18 | 4.02 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 18 | 4.02 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB2 | 7 | 4.02 |
| (1,8608) | 1:14:A:ARG:HA | 1:15:A:MET:HB3 | 7 | 4.02 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 11 | 4.02 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 11 | 4.02 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 13 | 4.02 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 13 | 4.02 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 19 | 4.02 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 19 | 4.02 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 11 | 4.02 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 11 | 4.02 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 3 | 4.02 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 3 | 4.02 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 11 | 4.02 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 11 | 4.02 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 6 | 4.02 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 6 | 4.02 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 8 | 4.02 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 5 | 4.02 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 5 | 4.02 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 5 | 4.02 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 15 | 4.02 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 15 | 4.02 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 15 | 4.02 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 15 | 4.02 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 15 | 4.02 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 15 | 4.02 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 6 | 4.02 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 19 | 4.02 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 17 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 14 | 4.02 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 4 | 4.02 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 4 | 4.02 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 4 | 4.02 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 18 | 4.02 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 18 | 4.02 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 18 | 4.02 |
| (1,8223) | 1:108:A:SER:HA | 1:119:A:ARG:H | 12 | 4.02 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 3 | 4.02 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 3 | 4.02 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 3 | 4.02 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 3 | 4.02 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 3 | 4.02 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 3 | 4.02 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 3 | 4.02 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 3 | 4.02 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 3 | 4.02 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 9 | 4.02 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 14 | 4.02 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 5 | 4.02 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 5 | 4.02 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 5 | 4.02 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 4 | 4.02 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 8 | 4.02 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 8 | 4.02 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 8 | 4.02 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 13 | 4.02 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 13 | 4.02 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 13 | 4.02 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 13 | 4.02 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 13 | 4.02 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 13 | 4.02 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 16 | 4.02 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 16 | 4.02 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 16 | 4.02 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 16 | 4.02 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 13 | 4.02 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 12 | 4.02 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 12 | 4.02 |
| (1,7637) | 1:27:A:HIS:H | 1:28:A:ILE:HB | 4 | 4.02 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 8 | 4.02 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 8 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 10 | 4.02 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 10 | 4.02 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 15 | 4.02 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 15 | 4.02 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 18 | 4.02 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 18 | 4.02 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 17 | 4.02 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 9 | 4.02 |
| (1,7584) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 12 | 4.02 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 17 | 4.02 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 17 | 4.02 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 19 | 4.02 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 19 | 4.02 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 6 | 4.02 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 12 | 4.02 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 12 | 4.02 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 12 | 4.02 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 5 | 4.02 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 5 | 4.02 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 5 | 4.02 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 5 | 4.02 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 5 | 4.02 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 5 | 4.02 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 17 | 4.02 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 17 | 4.02 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 11 | 4.02 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 3 | 4.02 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 3 | 4.02 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 3 | 4.02 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 10 | 4.02 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 10 | 4.02 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 19 | 4.02 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 19 | 4.02 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 7 | 4.02 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 2 | 4.02 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 8 | 4.02 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 16 | 4.02 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 16 | 4.02 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 8 | 4.02 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 18 | 4.02 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 18 | 4.02 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 16 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 17 | 4.02 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 10 | 4.02 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 10 | 4.02 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 10 | 4.02 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 10 | 4.02 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 14 | 4.02 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 14 | 4.02 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 2 | 4.02 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 5 | 4.02 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 4 | 4.02 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 18 | 4.02 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 4 | 4.02 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 12 | 4.02 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 3 | 4.02 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 18 | 4.02 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 18 | 4.02 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 18 | 4.02 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 18 | 4.02 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 18 | 4.02 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 18 | 4.02 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 6 | 4.02 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 18 | 4.02 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 18 | 4.02 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 18 | 4.02 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 13 | 4.02 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 3 | 4.02 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 14 | 4.02 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 14 | 4.02 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 14 | 4.02 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 3 | 4.02 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 1 | 4.02 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 1 | 4.02 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 1 | 4.02 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 3 | 4.02 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 3 | 4.02 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 3 | 4.02 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 5 | 4.02 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 4 | 4.02 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 4 | 4.02 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 4 | 4.02 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 10 | 4.02 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 14 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 14 | 4.02 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 18 | 4.02 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 18 | 4.02 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 18 | 4.02 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 4 | 4.02 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 4 | 4.02 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 4 | 4.02 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 2 | 4.02 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 4 | 4.02 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 20 | 4.02 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 20 | 4.02 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 17 | 4.02 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 17 | 4.02 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 17 | 4.02 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 16 | 4.02 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 16 | 4.02 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 16 | 4.02 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 13 | 4.02 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 6 | 4.02 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 6 | 4.02 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 6 | 4.02 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 6 | 4.02 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 6 | 4.02 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 6 | 4.02 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 6 | 4.02 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 12 | 4.02 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 12 | 4.02 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 12 | 4.02 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 7 | 4.02 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 7 | 4.02 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 7 | 4.02 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 19 | 4.02 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 20 | 4.02 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 20 | 4.02 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 20 | 4.02 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 3 | 4.02 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 18 | 4.02 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 18 | 4.02 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 18 | 4.02 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 1 | 4.02 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 6 | 4.02 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 20 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 4 | 4.02 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 2 | 4.02 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 17 | 4.02 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 18 | 4.02 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 18 | 4.02 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 18 | 4.02 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 2 | 4.02 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 13 | 4.02 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 13 | 4.02 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 13 | 4.02 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 13 | 4.02 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 8 | 4.02 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 8 | 4.02 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 8 | 4.02 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 9 | 4.02 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 5 | 4.02 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 9 | 4.02 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 2 | 4.02 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 2 | 4.02 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 2 | 4.02 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 11 | 4.02 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 9 | 4.02 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 9 | 4.02 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 20 | 4.02 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 7 | 4.02 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 7 | 4.02 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 7 | 4.02 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 15 | 4.02 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 15 | 4.02 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 15 | 4.02 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 8 | 4.02 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 6 | 4.02 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 6 | 4.02 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 6 | 4.02 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 2 | 4.02 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 13 | 4.02 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 16 | 4.02 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 19 | 4.02 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 7 | 4.02 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 8 | 4.02 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 15 | 4.02 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 15 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 15 | 4.02 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 15 | 4.02 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 15 | 4.02 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 15 | 4.02 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 1 | 4.02 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 1 | 4.02 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 1 | 4.02 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 16 | 4.02 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 16 | 4.02 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 14 | 4.02 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 14 | 4.02 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 12 | 4.02 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 12 | 4.02 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 12 | 4.02 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 12 | 4.02 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 12 | 4.02 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 12 | 4.02 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 17 | 4.02 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 17 | 4.02 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 17 | 4.02 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 17 | 4.02 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 17 | 4.02 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 17 | 4.02 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 10 | 4.02 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 10 | 4.02 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 18 | 4.02 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 18 | 4.02 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 18 | 4.02 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 1 | 4.02 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 1 | 4.02 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 1 | 4.02 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 1 | 4.02 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 1 | 4.02 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 1 | 4.02 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 4 | 4.02 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 4 | 4.02 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 4 | 4.02 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 4 | 4.02 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 4 | 4.02 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 4 | 4.02 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 8 | 4.02 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 8 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 8 | 4.02 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 8 | 4.02 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 3 | 4.02 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 3 | 4.02 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 3 | 4.02 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 19 | 4.02 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 19 | 4.02 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 19 | 4.02 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 19 | 4.02 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 19 | 4.02 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 19 | 4.02 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 17 | 4.02 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 17 | 4.02 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 11 | 4.02 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 11 | 4.02 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 11 | 4.02 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 15 | 4.02 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 15 | 4.02 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 17 | 4.02 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 17 | 4.02 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 10 | 4.02 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 10 | 4.02 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 17 | 4.02 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 17 | 4.02 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 20 | 4.02 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 4.02 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 13 | 4.02 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 13 | 4.02 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 13 | 4.02 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 4 | 4.02 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 6 | 4.02 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 15 | 4.02 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 15 | 4.02 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 15 | 4.02 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 15 | 4.02 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 6 | 4.02 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 6 | 4.02 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 4 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 15 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 15 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 15 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 15 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 15 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 15 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 16 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 16 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 16 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 16 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 16 | 4.02 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 16 | 4.02 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 4.02 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 4.02 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 4.02 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 13 | 4.02 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 13 | 4.02 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 13 | 4.02 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 13 | 4.02 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 13 | 4.02 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 13 | 4.02 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 19 | 4.02 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 19 | 4.02 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 19 | 4.02 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 19 | 4.02 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 19 | 4.02 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 19 | 4.02 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 5 | 4.02 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 5 | 4.02 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 6 | 4.02 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 6 | 4.02 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 13 | 4.02 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 13 | 4.02 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 17 | 4.02 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 17 | 4.02 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 18 | 4.02 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 17 | 4.02 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 17 | 4.02 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 17 | 4.02 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 11 | 4.02 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 3 | 4.02 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 3 | 4.02 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 3 | 4.02 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 3 | 4.02 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 3 | 4.02 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 10 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 8 | 4.02 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 8 | 4.02 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 8 | 4.02 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 8 | 4.02 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 8 | 4.02 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 8 | 4.02 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 8 | 4.02 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 8 | 4.02 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 13 | 4.02 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 13 | 4.02 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 14 | 4.02 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 14 | 4.02 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 2 | 4.02 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 2 | 4.02 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 5 | 4.02 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 5 | 4.02 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 7 | 4.02 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 7 | 4.02 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 7 | 4.02 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 7 | 4.02 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 7 | 4.02 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 7 | 4.02 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 15 | 4.02 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 4 | 4.02 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 4 | 4.02 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 13 | 4.02 |
| (1,3704) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 9 | 4.02 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 16 | 4.02 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 16 | 4.02 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 14 | 4.02 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 14 | 4.02 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 7 | 4.02 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 7 | 4.02 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 11 | 4.02 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 11 | 4.02 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 16 | 4.02 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 16 | 4.02 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 5 | 4.02 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 5 | 4.02 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 5 | 4.02 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 5 | 4.02 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 14 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 14 | 4.02 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 14 | 4.02 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 14 | 4.02 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 14 | 4.02 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 14 | 4.02 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 16 | 4.02 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 16 | 4.02 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 4.02 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 4.02 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 4.02 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 3 | 4.02 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 3 | 4.02 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 19 | 4.02 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 11 | 4.02 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 7 | 4.02 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 20 | 4.02 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 20 | 4.02 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 20 | 4.02 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 2 | 4.02 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 8 | 4.02 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 16 | 4.02 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 16 | 4.02 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 3 | 4.02 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 3 | 4.02 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 3 | 4.02 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 3 | 4.02 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 3 | 4.02 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 3 | 4.02 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 8 | 4.02 |
| (1,3215) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 18 | 4.02 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 20 | 4.02 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 20 | 4.02 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 20 | 4.02 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 6 | 4.02 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 18 | 4.02 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 18 | 4.02 |
| (1,3142) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 13 | 4.02 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 16 | 4.02 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 17 | 4.02 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 3 | 4.02 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 9 | 4.02 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 10 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 10 | 4.02 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 10 | 4.02 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 10 | 4.02 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 14 | 4.02 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 14 | 4.02 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 19 | 4.02 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 2 | 4.02 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 5 | 4.02 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 4 | 4.02 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 18 | 4.02 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 4 | 4.02 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 12 | 4.02 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 3 | 4.02 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 6 | 4.02 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 18 | 4.02 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 18 | 4.02 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 18 | 4.02 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 13 | 4.02 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 3 | 4.02 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 14 | 4.02 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 14 | 4.02 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 14 | 4.02 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 12 | 4.02 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 19 | 4.02 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 3 | 4.02 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 1 | 4.02 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 1 | 4.02 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 1 | 4.02 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 16 | 4.02 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 16 | 4.02 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 16 | 4.02 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 3 | 4.02 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 3 | 4.02 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 3 | 4.02 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 5 | 4.02 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 3 | 4.02 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 4 | 4.02 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 4 | 4.02 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 4 | 4.02 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 10 | 4.02 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 5 | 4.02 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 5 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 5 | 4.02 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 14 | 4.02 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 14 | 4.02 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 18 | 4.02 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 18 | 4.02 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 18 | 4.02 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 7 | 4.02 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 4 | 4.02 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 4 | 4.02 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 4 | 4.02 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 12 | 4.02 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 12 | 4.02 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 12 | 4.02 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 4 | 4.02 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 20 | 4.02 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 20 | 4.02 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 17 | 4.02 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 17 | 4.02 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 17 | 4.02 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 16 | 4.02 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 16 | 4.02 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 16 | 4.02 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 13 | 4.02 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 4 | 4.02 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 17 | 4.02 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 6 | 4.02 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 6 | 4.02 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 6 | 4.02 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 6 | 4.02 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 6 | 4.02 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 6 | 4.02 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 6 | 4.02 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 12 | 4.02 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 12 | 4.02 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 12 | 4.02 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 7 | 4.02 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 7 | 4.02 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 7 | 4.02 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 19 | 4.02 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 14 | 4.02 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 14 | 4.02 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 19 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 19 | 4.02 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 20 | 4.02 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 20 | 4.02 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 20 | 4.02 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 3 | 4.02 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 18 | 4.02 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 18 | 4.02 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 18 | 4.02 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 1 | 4.02 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 6 | 4.02 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 20 | 4.02 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 4 | 4.02 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 2 | 4.02 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 17 | 4.02 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 7 | 4.02 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 7 | 4.02 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 7 | 4.02 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 7 | 4.02 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 7 | 4.02 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 7 | 4.02 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 18 | 4.02 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 18 | 4.02 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 18 | 4.02 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 2 | 4.02 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 13 | 4.02 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 13 | 4.02 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 13 | 4.02 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 13 | 4.02 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 8 | 4.02 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 8 | 4.02 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 8 | 4.02 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 9 | 4.02 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 5 | 4.02 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 9 | 4.02 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 2 | 4.02 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 2 | 4.02 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 2 | 4.02 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 11 | 4.02 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 9 | 4.02 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 9 | 4.02 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 10 | 4.02 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 10 | 4.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 10 | 4.02 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 7 | 4.02 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 11 | 4.02 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 11 | 4.02 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 1 | 4.02 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 10 | 4.01 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 10 | 4.01 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 10 | 4.01 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 10 | 4.01 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 5 | 4.01 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 5 | 4.01 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 15 | 4.01 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 15 | 4.01 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 19 | 4.01 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 19 | 4.01 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 15 | 4.01 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 15 | 4.01 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 3 | 4.01 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 3 | 4.01 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 14 | 4.01 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 14 | 4.01 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 13 | 4.01 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 13 | 4.01 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 5 | 4.01 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 5 | 4.01 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 11 | 4.01 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 11 | 4.01 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 11 | 4.01 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 11 | 4.01 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 11 | 4.01 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 11 | 4.01 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 1 | 4.01 |
| (1,9331) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 1 | 4.01 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 7 | 4.01 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 7 | 4.01 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 7 | 4.01 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 7 | 4.01 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 7 | 4.01 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 7 | 4.01 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 5 | 4.01 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 5 | 4.01 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 5 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 5 | 4.01 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 1 | 4.01 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 1 | 4.01 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 1 | 4.01 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 1 | 4.01 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 11 | 4.01 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 11 | 4.01 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 18 | 4.01 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 18 | 4.01 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 18 | 4.01 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 18 | 4.01 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 18 | 4.01 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 18 | 4.01 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 11 | 4.01 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 11 | 4.01 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 7 | 4.01 |
| (1,9150) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 7 | 4.01 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 4 | 4.01 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 4 | 4.01 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 16 | 4.01 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 16 | 4.01 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 16 | 4.01 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 16 | 4.01 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 16 | 4.01 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 16 | 4.01 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 3 | 4.01 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 3 | 4.01 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 17 | 4.01 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 17 | 4.01 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 14 | 4.01 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 14 | 4.01 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 14 | 4.01 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 14 | 4.01 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 14 | 4.01 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 14 | 4.01 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 9 | 4.01 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 9 | 4.01 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 2 | 4.01 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 2 | 4.01 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 8 | 4.01 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 8 | 4.01 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 3 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 3 | 4.01 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 8 | 4.01 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 8 | 4.01 |
| (1,8754) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 1 | 4.01 |
| (1,8754) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 1 | 4.01 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 8 | 4.01 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 8 | 4.01 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 8 | 4.01 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 8 | 4.01 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 7 | 4.01 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 7 | 4.01 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 7 | 4.01 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 7 | 4.01 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 9 | 4.01 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 9 | 4.01 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 9 | 4.01 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 9 | 4.01 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 8 | 4.01 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 8 | 4.01 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 12 | 4.01 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 12 | 4.01 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 18 | 4.01 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 18 | 4.01 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 4 | 4.01 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 4 | 4.01 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 9 | 4.01 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 9 | 4.01 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 20 | 4.01 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 20 | 4.01 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 11 | 4.01 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 11 | 4.01 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 16 | 4.01 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 16 | 4.01 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 4.01 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 4.01 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 20 | 4.01 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 20 | 4.01 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 20 | 4.01 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 20 | 4.01 |
| (1,8510) | 1:161:A:ARG:H | 1:162:A:THR:H | 15 | 4.01 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 10 | 4.01 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 9 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 7 | 4.01 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 4 | 4.01 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 14 | 4.01 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 15 | 4.01 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 15 | 4.01 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 15 | 4.01 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 15 | 4.01 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 4 | 4.01 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 4 | 4.01 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 4 | 4.01 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 4 | 4.01 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 4 | 4.01 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 4 | 4.01 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 2 | 4.01 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 2 | 4.01 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 2 | 4.01 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 4 | 4.01 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 4 | 4.01 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 4 | 4.01 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 4 | 4.01 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 4 | 4.01 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 4 | 4.01 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 15 | 4.01 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 15 | 4.01 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 7 | 4.01 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 7 | 4.01 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 7 | 4.01 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 7 | 4.01 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 7 | 4.01 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 14 | 4.01 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 18 | 4.01 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 18 | 4.01 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 18 | 4.01 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 18 | 4.01 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 18 | 4.01 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 18 | 4.01 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 16 | 4.01 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 16 | 4.01 |
| (1,8255) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 16 | 4.01 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 10 | 4.01 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 10 | 4.01 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 10 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 18 | 4.01 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 18 | 4.01 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 4 | 4.01 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 15 | 4.01 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 15 | 4.01 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 15 | 4.01 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 15 | 4.01 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 15 | 4.01 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 15 | 4.01 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 15 | 4.01 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 15 | 4.01 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 15 | 4.01 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 9 | 4.01 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE2 | 10 | 4.01 |
| (1,8122) | 1:94:A:GLN:H | 1:95:A:LYS:HE3 | 10 | 4.01 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 18 | 4.01 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 4 | 4.01 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 4 | 4.01 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 4 | 4.01 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 14 | 4.01 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 14 | 4.01 |
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 14 | 4.01 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 2 | 4.01 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 4 | 4.01 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 5 | 4.01 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 1 | 4.01 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 1 | 4.01 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 1 | 4.01 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 12 | 4.01 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 12 | 4.01 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 12 | 4.01 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 12 | 4.01 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 15 | 4.01 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 14 | 4.01 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 2 | 4.01 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 2 | 4.01 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 2 | 4.01 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 17 | 4.01 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 17 | 4.01 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 17 | 4.01 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 17 | 4.01 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 17 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 17 | 4.01 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 17 | 4.01 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 17 | 4.01 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 17 | 4.01 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 7 | 4.01 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 7 | 4.01 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 7 | 4.01 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 7 | 4.01 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 7 | 4.01 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 7 | 4.01 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 7 | 4.01 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 7 | 4.01 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 7 | 4.01 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 12 | 4.01 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 11 | 4.01 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 11 | 4.01 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 11 | 4.01 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 11 | 4.01 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 11 | 4.01 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 11 | 4.01 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 4 | 4.01 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 4 | 4.01 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 16 | 4.01 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 10 | 4.01 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 8 | 4.01 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 17 | 4.01 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 1 | 4.01 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 15 | 4.01 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 13 | 4.01 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 16 | 4.01 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 16 | 4.01 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 20 | 4.01 |
| (1,7490) | 1:13:A:LYS:HA | 1:13:A:LYS:HD2 | 12 | 4.01 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 20 | 4.01 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 11 | 4.01 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 11 | 4.01 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 11 | 4.01 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 17 | 4.01 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 8 | 4.01 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 8 | 4.01 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 8 | 4.01 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 16 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 16 | 4.01 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 16 | 4.01 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 10 | 4.01 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 10 | 4.01 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 10 | 4.01 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 6 | 4.01 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 6 | 4.01 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 2 | 4.01 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 2 | 4.01 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 17 | 4.01 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 17 | 4.01 |
| (1,7203) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 6 | 4.01 |
| (1,7203) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 6 | 4.01 |
| (1,7203) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 6 | 4.01 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 12 | 4.01 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 12 | 4.01 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 12 | 4.01 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 11 | 4.01 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 10 | 4.01 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 10 | 4.01 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 10 | 4.01 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 16 | 4.01 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 16 | 4.01 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 16 | 4.01 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 13 | 4.01 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 2 | 4.01 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 2 | 4.01 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 2 | 4.01 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 17 | 4.01 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 10 | 4.01 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 10 | 4.01 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 18 | 4.01 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 18 | 4.01 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 9 | 4.01 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 9 | 4.01 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 9 | 4.01 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 5 | 4.01 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 19 | 4.01 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 7 | 4.01 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 20 | 4.01 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 20 | 4.01 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 10 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 11 | 4.01 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 11 | 4.01 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 11 | 4.01 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 10 | 4.01 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 9 | 4.01 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 10 | 4.01 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 19 | 4.01 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 6 | 4.01 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 14 | 4.01 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 13 | 4.01 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 5 | 4.01 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 19 | 4.01 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 2 | 4.01 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 2 | 4.01 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 2 | 4.01 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 11 | 4.01 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 11 | 4.01 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 11 | 4.01 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 16 | 4.01 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 16 | 4.01 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 16 | 4.01 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 4 | 4.01 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 4 | 4.01 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 4 | 4.01 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 4 | 4.01 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 4 | 4.01 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 4 | 4.01 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 9 | 4.01 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 16 | 4.01 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 16 | 4.01 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 16 | 4.01 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 1 | 4.01 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 1 | 4.01 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 1 | 4.01 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 3 | 4.01 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 3 | 4.01 |
| (1,6329) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 3 | 4.01 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 1 | 4.01 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 1 | 4.01 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 1 | 4.01 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 20 | 4.01 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 19 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 19 | 4.01 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 19 | 4.01 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 19 | 4.01 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 3 | 4.01 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 3 | 4.01 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 18 | 4.01 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 18 | 4.01 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 18 | 4.01 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 19 | 4.01 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 19 | 4.01 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 19 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 16 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 16 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 16 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 16 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 16 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 16 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 19 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 19 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 19 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 19 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 19 | 4.01 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 19 | 4.01 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 7 | 4.01 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 7 | 4.01 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 7 | 4.01 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 14 | 4.01 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 14 | 4.01 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 14 | 4.01 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 17 | 4.01 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 17 | 4.01 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 13 | 4.01 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 17 | 4.01 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 17 | 4.01 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 17 | 4.01 |
| (1,5909) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 1 | 4.01 |
| (1,5909) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 1 | 4.01 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 5 | 4.01 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 5 | 4.01 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 5 | 4.01 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 15 | 4.01 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 15 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 15 | 4.01 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 19 | 4.01 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 19 | 4.01 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 19 | 4.01 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 11 | 4.01 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 11 | 4.01 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 11 | 4.01 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 20 | 4.01 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 20 | 4.01 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 15 | 4.01 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 6 | 4.01 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 3 | 4.01 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 3 | 4.01 |
| (1,5798) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 15 | 4.01 |
| (1,5798) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 15 | 4.01 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 19 | 4.01 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 19 | 4.01 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 2 | 4.01 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 2 | 4.01 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 2 | 4.01 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 9 | 4.01 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 9 | 4.01 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 9 | 4.01 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 5 | 4.01 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 5 | 4.01 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 5 | 4.01 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 16 | 4.01 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 12 | 4.01 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 12 | 4.01 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 12 | 4.01 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 12 | 4.01 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 12 | 4.01 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 12 | 4.01 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 12 | 4.01 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 11 | 4.01 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 11 | 4.01 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 11 | 4.01 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 14 | 4.01 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 3 | 4.01 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 6 | 4.01 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 6 | 4.01 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 6 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 6 | 4.01 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 6 | 4.01 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 6 | 4.01 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 6 | 4.01 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 6 | 4.01 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 6 | 4.01 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 16 | 4.01 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 9 | 4.01 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 4 | 4.01 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 6 | 4.01 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 6 | 4.01 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 6 | 4.01 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 8 | 4.01 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 8 | 4.01 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 8 | 4.01 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 13 | 4.01 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 13 | 4.01 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 13 | 4.01 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 14 | 4.01 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 14 | 4.01 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 14 | 4.01 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 9 | 4.01 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 8 | 4.01 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 8 | 4.01 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 8 | 4.01 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 13 | 4.01 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 2 | 4.01 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 17 | 4.01 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 7 | 4.01 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 7 | 4.01 |
| (1,5082) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 7 | 4.01 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 7 | 4.01 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 7 | 4.01 |
| (1,5082) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 7 | 4.01 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 7 | 4.01 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 7 | 4.01 |
| (1,5082) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 7 | 4.01 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 19 | 4.01 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 19 | 4.01 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 19 | 4.01 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 3 | 4.01 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 1 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 13 | 4.01 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 13 | 4.01 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 13 | 4.01 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 12 | 4.01 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 12 | 4.01 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 19 | 4.01 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 19 | 4.01 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 19 | 4.01 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 19 | 4.01 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 19 | 4.01 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 19 | 4.01 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 18 | 4.01 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 18 | 4.01 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 18 | 4.01 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 14 | 4.01 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 14 | 4.01 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 14 | 4.01 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 14 | 4.01 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 14 | 4.01 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 14 | 4.01 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 14 | 4.01 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 14 | 4.01 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 14 | 4.01 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 16 | 4.01 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 16 | 4.01 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 16 | 4.01 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 16 | 4.01 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 16 | 4.01 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 16 | 4.01 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 16 | 4.01 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 16 | 4.01 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 16 | 4.01 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 13 | 4.01 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 13 | 4.01 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 13 | 4.01 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 13 | 4.01 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 13 | 4.01 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 13 | 4.01 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 13 | 4.01 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 13 | 4.01 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 13 | 4.01 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 6 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 6 | 4.01 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 6 | 4.01 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 14 | 4.01 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 15 | 4.01 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 15 | 4.01 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 15 | 4.01 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 1 | 4.01 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 10 | 4.01 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 10 | 4.01 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 16 | 4.01 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 17 | 4.01 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 17 | 4.01 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 17 | 4.01 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 16 | 4.01 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 3 | 4.01 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 3 | 4.01 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 14 | 4.01 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 14 | 4.01 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 5 | 4.01 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 5 | 4.01 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 1 | 4.01 |
| (1,4320) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 1 | 4.01 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 1 | 4.01 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 1 | 4.01 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 5 | 4.01 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 5 | 4.01 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 5 | 4.01 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 5 | 4.01 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 18 | 4.01 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 18 | 4.01 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 18 | 4.01 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 12 | 4.01 |
| (1,4198) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 11 | 4.01 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 6 | 4.01 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 6 | 4.01 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 17 | 4.01 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 18 | 4.01 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 18 | 4.01 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 18 | 4.01 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 18 | 4.01 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 18 | 4.01 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 18 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 12 | 4.01 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 6 | 4.01 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 6 | 4.01 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 6 | 4.01 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 16 | 4.01 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 16 | 4.01 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 16 | 4.01 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 16 | 4.01 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 16 | 4.01 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 16 | 4.01 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 3 | 4.01 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 3 | 4.01 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 6 | 4.01 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 14 | 4.01 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 17 | 4.01 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 17 | 4.01 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 3 | 4.01 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 3 | 4.01 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 12 | 4.01 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 12 | 4.01 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 2 | 4.01 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 2 | 4.01 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 11 | 4.01 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 11 | 4.01 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 16 | 4.01 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 18 | 4.01 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 18 | 4.01 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 18 | 4.01 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 18 | 4.01 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 18 | 4.01 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 18 | 4.01 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 18 | 4.01 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 14 | 4.01 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 8 | 4.01 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 8 | 4.01 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 9 | 4.01 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 9 | 4.01 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 10 | 4.01 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 10 | 4.01 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 8 | 4.01 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 8 | 4.01 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 8 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 8 | 4.01 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 4.01 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 9 | 4.01 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 9 | 4.01 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 9 | 4.01 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 9 | 4.01 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 4 | 4.01 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 4 | 4.01 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 6 | 4.01 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 11 | 4.01 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 11 | 4.01 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 16 | 4.01 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 16 | 4.01 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 4.01 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 4.01 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 7 | 4.01 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 12 | 4.01 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 12 | 4.01 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 12 | 4.01 |
| (1,3362) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 6 | 4.01 |
| (1,3362) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 6 | 4.01 |
| (1,3362) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 6 | 4.01 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 12 | 4.01 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 12 | 4.01 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 12 | 4.01 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 11 | 4.01 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 10 | 4.01 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 10 | 4.01 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 10 | 4.01 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 16 | 4.01 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 16 | 4.01 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 16 | 4.01 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 13 | 4.01 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 2 | 4.01 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 2 | 4.01 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 2 | 4.01 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 17 | 4.01 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 10 | 4.01 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 10 | 4.01 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 18 | 4.01 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 18 | 4.01 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 6 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 9 | 4.01 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 9 | 4.01 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 9 | 4.01 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 9 | 4.01 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 9 | 4.01 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 9 | 4.01 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 17 | 4.01 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 17 | 4.01 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 5 | 4.01 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 19 | 4.01 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 9 | 4.01 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 18 | 4.01 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 7 | 4.01 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 20 | 4.01 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 20 | 4.01 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 10 | 4.01 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 11 | 4.01 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 11 | 4.01 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 11 | 4.01 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 10 | 4.01 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 9 | 4.01 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 10 | 4.01 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 15 | 4.01 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 15 | 4.01 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 14 | 4.01 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 14 | 4.01 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 14 | 4.01 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 14 | 4.01 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 14 | 4.01 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 14 | 4.01 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 19 | 4.01 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 6 | 4.01 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 7 | 4.01 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 14 | 4.01 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 10 | 4.01 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 4 | 4.01 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 4 | 4.01 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 4 | 4.01 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 6 | 4.01 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 6 | 4.01 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 6 | 4.01 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 13 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 13 | 4.01 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 13 | 4.01 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 17 | 4.01 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 17 | 4.01 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 17 | 4.01 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 18 | 4.01 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 13 | 4.01 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 14 | 4.01 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 5 | 4.01 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 19 | 4.01 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 5 | 4.01 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 2 | 4.01 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 2 | 4.01 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 2 | 4.01 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 11 | 4.01 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 11 | 4.01 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 11 | 4.01 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 16 | 4.01 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 16 | 4.01 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 16 | 4.01 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 10 | 4.01 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 11 | 4.01 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 4 | 4.01 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 4 | 4.01 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 4 | 4.01 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 4 | 4.01 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 4 | 4.01 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 4 | 4.01 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 9 | 4.01 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 9 | 4.01 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 9 | 4.01 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 9 | 4.01 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 16 | 4.01 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 16 | 4.01 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 16 | 4.01 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 1 | 4.01 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 1 | 4.01 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 1 | 4.01 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 3 | 4.01 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 3 | 4.01 |
| (1,2004) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 3 | 4.01 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 1 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 1 | 4.01 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 1 | 4.01 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 20 | 4.01 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 19 | 4.01 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 19 | 4.01 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 19 | 4.01 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 19 | 4.01 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 3 | 4.01 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 3 | 4.01 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 16 | 4.01 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 15 | 4.01 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 18 | 4.01 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 18 | 4.01 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 18 | 4.01 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 19 | 4.01 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 19 | 4.01 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 19 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 16 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 16 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 16 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 16 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 16 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 16 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 19 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 19 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 19 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 19 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 19 | 4.01 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 19 | 4.01 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 19 | 4.01 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 19 | 4.01 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 19 | 4.01 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 7 | 4.01 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 7 | 4.01 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 7 | 4.01 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 14 | 4.01 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 14 | 4.01 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 14 | 4.01 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 17 | 4.01 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 17 | 4.01 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 3 | 4.01 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 13 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 17 | 4.01 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 17 | 4.01 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 17 | 4.01 |
| (1,1326) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 1 | 4.01 |
| (1,1326) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 1 | 4.01 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 5 | 4.01 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 5 | 4.01 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 5 | 4.01 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 15 | 4.01 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 15 | 4.01 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 15 | 4.01 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 19 | 4.01 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 19 | 4.01 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 19 | 4.01 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 18 | 4.01 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 18 | 4.01 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 18 | 4.01 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 11 | 4.01 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 11 | 4.01 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 11 | 4.01 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 20 | 4.01 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 20 | 4.01 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 15 | 4.01 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 4 | 4.01 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 4 | 4.01 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 4 | 4.01 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 18 | 4.01 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 6 | 4.01 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 3 | 4.01 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 3 | 4.01 |
| (1,1154) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 15 | 4.01 |
| (1,1154) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 15 | 4.01 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 19 | 4.01 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 19 | 4.01 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 9 | 4.01 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 7 | 4.01 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 14 | 4.01 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 15 | 4.01 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 19 | 4.01 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 2 | 4.01 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 2 | 4.01 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 2 | 4.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 9 | 4.01 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 9 | 4.01 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 9 | 4.01 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 12 | 4.01 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 15 | 4.01 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 14 | 4.01 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 14 | 4.01 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 14 | 4.01 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 5 | 4.01 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 5 | 4.01 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 5 | 4.01 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 16 | 4.01 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 12 | 4.01 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 12 | 4.01 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 12 | 4.01 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 12 | 4.01 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 12 | 4.01 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 12 | 4.01 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 13 | 4.01 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 13 | 4.01 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 16 | 4.01 |
| (1,784) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 7 | 4.01 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 12 | 4.01 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 11 | 4.01 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 11 | 4.01 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 11 | 4.01 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 14 | 4.01 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 7 | 4.01 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 3 | 4.01 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 15 | 4.01 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 8 | 4.01 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 15 | 4.0 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 3 | 4.0 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 7 | 4.0 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 7 | 4.0 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 17 | 4.0 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 17 | 4.0 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 17 | 4.0 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 17 | 4.0 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 1 | 4.0 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 1 | 4.0 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 14 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 14 | 4.0 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 8 | 4.0 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 8 | 4.0 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 8 | 4.0 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 8 | 4.0 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 8 | 4.0 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 8 | 4.0 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 20 | 4.0 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 20 | 4.0 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 20 | 4.0 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 20 | 4.0 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 20 | 4.0 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 20 | 4.0 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 3 | 4.0 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 3 | 4.0 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 20 | 4.0 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 20 | 4.0 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 20 | 4.0 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 20 | 4.0 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 8 | 4.0 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 8 | 4.0 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 14 | 4.0 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 14 | 4.0 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 14 | 4.0 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 14 | 4.0 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 14 | 4.0 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 14 | 4.0 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 14 | 4.0 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 14 | 4.0 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 14 | 4.0 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 14 | 4.0 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 14 | 4.0 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 14 | 4.0 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 14 | 4.0 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 14 | 4.0 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 10 | 4.0 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 10 | 4.0 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 11 | 4.0 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 4.0 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 12 | 4.0 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 12 | 4.0 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 12 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 12 | 4.0 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 12 | 4.0 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 12 | 4.0 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 16 | 4.0 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 16 | 4.0 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 18 | 4.0 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 18 | 4.0 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 16 | 4.0 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 16 | 4.0 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 1 | 4.0 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 1 | 4.0 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 19 | 4.0 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 19 | 4.0 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 20 | 4.0 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 4.0 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 19 | 4.0 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 19 | 4.0 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 9 | 4.0 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 9 | 4.0 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 9 | 4.0 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 9 | 4.0 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 9 | 4.0 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 9 | 4.0 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 16 | 4.0 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 16 | 4.0 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 16 | 4.0 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 16 | 4.0 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 7 | 4.0 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 7 | 4.0 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 7 | 4.0 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 7 | 4.0 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 7 | 4.0 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 7 | 4.0 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 18 | 4.0 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 18 | 4.0 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 18 | 4.0 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 18 | 4.0 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 18 | 4.0 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 18 | 4.0 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 12 | 4.0 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 12 | 4.0 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 11 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 11 | 4.0 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 19 | 4.0 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 19 | 4.0 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 3 | 4.0 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 3 | 4.0 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 3 | 4.0 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 3 | 4.0 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 6 | 4.0 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 6 | 4.0 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 1 | 4.0 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 1 | 4.0 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 1 | 4.0 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 1 | 4.0 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 10 | 4.0 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 10 | 4.0 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 12 | 4.0 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 12 | 4.0 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 13 | 4.0 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 13 | 4.0 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 6 | 4.0 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 6 | 4.0 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 6 | 4.0 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 6 | 4.0 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 6 | 4.0 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 6 | 4.0 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 15 | 4.0 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 15 | 4.0 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 15 | 4.0 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 15 | 4.0 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 15 | 4.0 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 15 | 4.0 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 16 | 4.0 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 16 | 4.0 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 4 | 4.0 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 4 | 4.0 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 1 | 4.0 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 1 | 4.0 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 1 | 4.0 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 1 | 4.0 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 20 | 4.0 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 20 | 4.0 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 20 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 2 | 4.0 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 2 | 4.0 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 2 | 4.0 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 2 | 4.0 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 15 | 4.0 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 15 | 4.0 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 15 | 4.0 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE1 | 8 | 4.0 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE2 | 8 | 4.0 |
| (1,8441) | 1:146:A:MET:HA | 1:146:A:MET:HE3 | 8 | 4.0 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 4 | 4.0 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 10 | 4.0 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 1 | 4.0 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 1 | 4.0 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 7 | 4.0 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 3 | 4.0 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 7 | 4.0 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 20 | 4.0 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 20 | 4.0 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 20 | 4.0 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 1 | 4.0 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 1 | 4.0 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 16 | 4.0 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 16 | 4.0 |
| (1,8314) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 16 | 4.0 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 15 | 4.0 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 15 | 4.0 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 2 | 4.0 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 1 | 4.0 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 1 | 4.0 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 1 | 4.0 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 1 | 4.0 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 2 | 4.0 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 2 | 4.0 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 2 | 4.0 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 10 | 4.0 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 10 | 4.0 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 10 | 4.0 |
| (1,8234) | 1:113:A:CYS:HA | 1:115:A:SER:H | 9 | 4.0 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 17 | 4.0 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 19 | 4.0 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 20 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 20 | 4.0 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 17 | 4.0 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 19 | 4.0 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 19 | 4.0 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 19 | 4.0 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 7 | 4.0 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 4 | 4.0 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 20 | 4.0 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 3 | 4.0 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 5 | 4.0 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 5 | 4.0 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 11 | 4.0 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 11 | 4.0 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 4 | 4.0 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 4 | 4.0 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 9 | 4.0 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 9 | 4.0 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 13 | 4.0 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 13 | 4.0 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 3 | 4.0 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 3 | 4.0 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 14 | 4.0 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 14 | 4.0 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 19 | 4.0 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 12 | 4.0 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 11 | 4.0 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 11 | 4.0 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 16 | 4.0 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 16 | 4.0 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 16 | 4.0 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 8 | 4.0 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 8 | 4.0 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 16 | 4.0 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 11 | 4.0 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 11 | 4.0 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 12 | 4.0 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 12 | 4.0 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 12 | 4.0 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 13 | 4.0 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 9 | 4.0 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 9 | 4.0 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 9 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 9 | 4.0 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 9 | 4.0 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 9 | 4.0 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 9 | 4.0 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 9 | 4.0 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 9 | 4.0 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 6 | 4.0 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 6 | 4.0 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 6 | 4.0 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 16 | 4.0 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 15 | 4.0 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 16 | 4.0 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 16 | 4.0 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 16 | 4.0 |
| (1,7121) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 18 | 4.0 |
| (1,7121) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 18 | 4.0 |
| (1,7121) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 18 | 4.0 |
| (1,7017) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 5 | 4.0 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 12 | 4.0 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 2 | 4.0 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 8 | 4.0 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 7 | 4.0 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 17 | 4.0 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 16 | 4.0 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 5 | 4.0 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 5 | 4.0 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 5 | 4.0 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 12 | 4.0 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 18 | 4.0 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 13 | 4.0 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 13 | 4.0 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 6 | 4.0 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 6 | 4.0 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 16 | 4.0 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 16 | 4.0 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 16 | 4.0 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 3 | 4.0 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 3 | 4.0 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 3 | 4.0 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 3 | 4.0 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 3 | 4.0 |
| (1,6665) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 3 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 6 | 4.0 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 6 | 4.0 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 6 | 4.0 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 10 | 4.0 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 10 | 4.0 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 10 | 4.0 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 5 | 4.0 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 5 | 4.0 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 5 | 4.0 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 5 | 4.0 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 5 | 4.0 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 5 | 4.0 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 5 | 4.0 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 5 | 4.0 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 5 | 4.0 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 3 | 4.0 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 3 | 4.0 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 3 | 4.0 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 10 | 4.0 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 10 | 4.0 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 10 | 4.0 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 4 | 4.0 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 1 | 4.0 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 1 | 4.0 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 1 | 4.0 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 13 | 4.0 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 13 | 4.0 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 13 | 4.0 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 14 | 4.0 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 14 | 4.0 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 14 | 4.0 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 8 | 4.0 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 8 | 4.0 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 8 | 4.0 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 5 | 4.0 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 5 | 4.0 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 5 | 4.0 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 16 | 4.0 |
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 16 | 4.0 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 7 | 4.0 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 7 | 4.0 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 7 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 2 | 4.0 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 2 | 4.0 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 2 | 4.0 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 20 | 4.0 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 20 | 4.0 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 20 | 4.0 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 16 | 4.0 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 3 | 4.0 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 3 | 4.0 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 3 | 4.0 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 8 | 4.0 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 8 | 4.0 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 8 | 4.0 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 8 | 4.0 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 8 | 4.0 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 8 | 4.0 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 14 | 4.0 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 14 | 4.0 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 14 | 4.0 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 4 | 4.0 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 4 | 4.0 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 7 | 4.0 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 7 | 4.0 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 7 | 4.0 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 5 | 4.0 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 5 | 4.0 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 5 | 4.0 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 10 | 4.0 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 20 | 4.0 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 8 | 4.0 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 19 | 4.0 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 4 | 4.0 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 20 | 4.0 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 10 | 4.0 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 10 | 4.0 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 10 | 4.0 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 10 | 4.0 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 10 | 4.0 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 10 | 4.0 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 15 | 4.0 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 7 | 4.0 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 7 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 7 | 4.0 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 20 | 4.0 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 20 | 4.0 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 20 | 4.0 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 13 | 4.0 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 13 | 4.0 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 13 | 4.0 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 2 | 4.0 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 2 | 4.0 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 5 | 4.0 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 5 | 4.0 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 10 | 4.0 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 10 | 4.0 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 14 | 4.0 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 14 | 4.0 |
| (1,5419) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 14 | 4.0 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 16 | 4.0 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 16 | 4.0 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 12 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 2 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 2 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 2 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 10 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 10 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 10 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 14 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 14 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 14 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 18 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 18 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 18 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 19 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 19 | 4.0 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 19 | 4.0 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 11 | 4.0 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 11 | 4.0 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 11 | 4.0 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 1 | 4.0 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 1 | 4.0 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 1 | 4.0 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 4 | 4.0 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 4 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 4 | 4.0 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 6 | 4.0 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 15 | 4.0 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 3 | 4.0 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 19 | 4.0 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 4 | 4.0 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 10 | 4.0 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 14 | 4.0 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 12 | 4.0 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 7 | 4.0 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 17 | 4.0 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 5 | 4.0 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 5 | 4.0 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 5 | 4.0 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 16 | 4.0 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 9 | 4.0 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 9 | 4.0 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 9 | 4.0 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 8 | 4.0 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 8 | 4.0 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 8 | 4.0 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 8 | 4.0 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 8 | 4.0 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 8 | 4.0 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 8 | 4.0 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 8 | 4.0 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 8 | 4.0 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 19 | 4.0 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 19 | 4.0 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 19 | 4.0 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 20 | 4.0 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 20 | 4.0 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 20 | 4.0 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 4 | 4.0 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 4 | 4.0 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 4 | 4.0 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 12 | 4.0 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 4 | 4.0 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 8 | 4.0 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 8 | 4.0 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 8 | 4.0 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 16 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 1 | 4.0 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 1 | 4.0 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 1 | 4.0 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 7 | 4.0 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 15 | 4.0 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 1 | 4.0 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 1 | 4.0 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 1 | 4.0 |
| (1,4632) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 3 | 4.0 |
| (1,4632) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 3 | 4.0 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 1 | 4.0 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 1 | 4.0 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 14 | 4.0 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 14 | 4.0 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 8 | 4.0 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 8 | 4.0 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 8 | 4.0 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 8 | 4.0 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 8 | 4.0 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 8 | 4.0 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 3 | 4.0 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 3 | 4.0 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 18 | 4.0 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 4.0 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 13 | 4.0 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 13 | 4.0 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 19 | 4.0 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 19 | 4.0 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 19 | 4.0 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 13 | 4.0 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 13 | 4.0 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 13 | 4.0 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 13 | 4.0 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 13 | 4.0 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 13 | 4.0 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 7 | 4.0 |
| (1,4449) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 7 | 4.0 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 7 | 4.0 |
| (1,4449) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 7 | 4.0 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 8 | 4.0 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 8 | 4.0 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 14 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 14 | 4.0 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 8 | 4.0 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 16 | 4.0 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 4.0 |
| (1,4291) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 10 | 4.0 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 14 | 4.0 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 14 | 4.0 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 14 | 4.0 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 14 | 4.0 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 11 | 4.0 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 11 | 4.0 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 14 | 4.0 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 18 | 4.0 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 18 | 4.0 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 19 | 4.0 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 13 | 4.0 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 13 | 4.0 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 13 | 4.0 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 13 | 4.0 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 13 | 4.0 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 13 | 4.0 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 10 | 4.0 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 10 | 4.0 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 10 | 4.0 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 10 | 4.0 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 10 | 4.0 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 11 | 4.0 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 4.0 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 12 | 4.0 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 12 | 4.0 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 12 | 4.0 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 12 | 4.0 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 12 | 4.0 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 12 | 4.0 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 16 | 4.0 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 16 | 4.0 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 5 | 4.0 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 5 | 4.0 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 10 | 4.0 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 19 | 4.0 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 19 | 4.0 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 20 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 4.0 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 15 | 4.0 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 7 | 4.0 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 7 | 4.0 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 7 | 4.0 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 9 | 4.0 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 9 | 4.0 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 9 | 4.0 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 4 | 4.0 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 4 | 4.0 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 4 | 4.0 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 3 | 4.0 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 3 | 4.0 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 3 | 4.0 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 7 | 4.0 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 7 | 4.0 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 7 | 4.0 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 7 | 4.0 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 7 | 4.0 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 7 | 4.0 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 15 | 4.0 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 12 | 4.0 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 12 | 4.0 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 17 | 4.0 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 17 | 4.0 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 11 | 4.0 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 11 | 4.0 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 19 | 4.0 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 19 | 4.0 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 16 | 4.0 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 16 | 4.0 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 18 | 4.0 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 3 | 4.0 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 3 | 4.0 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 3 | 4.0 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 3 | 4.0 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 10 | 4.0 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 10 | 4.0 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 9 | 4.0 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 12 | 4.0 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 12 | 4.0 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 6 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 6 | 4.0 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 6 | 4.0 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 6 | 4.0 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 6 | 4.0 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 6 | 4.0 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 2 | 4.0 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 4.0 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 2 | 4.0 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 2 | 4.0 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 4.0 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 2 | 4.0 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 3 | 4.0 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 3 | 4.0 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 3 | 4.0 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 8 | 4.0 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 8 | 4.0 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 15 | 4.0 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 15 | 4.0 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 15 | 4.0 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 15 | 4.0 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 15 | 4.0 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 15 | 4.0 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 9 | 4.0 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 9 | 4.0 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 9 | 4.0 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 11 | 4.0 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 1 | 4.0 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 1 | 4.0 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 14 | 4.0 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 14 | 4.0 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 14 | 4.0 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 14 | 4.0 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 14 | 4.0 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 14 | 4.0 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 12 | 4.0 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 12 | 4.0 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 12 | 4.0 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 13 | 4.0 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 9 | 4.0 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 9 | 4.0 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 9 | 4.0 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 9 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 9 | 4.0 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 9 | 4.0 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 9 | 4.0 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 9 | 4.0 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 9 | 4.0 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 9 | 4.0 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 9 | 4.0 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 9 | 4.0 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 10 | 4.0 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 6 | 4.0 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 6 | 4.0 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 6 | 4.0 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 16 | 4.0 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 15 | 4.0 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 16 | 4.0 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 16 | 4.0 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 16 | 4.0 |
| (1,3212) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 18 | 4.0 |
| (1,3212) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 18 | 4.0 |
| (1,3212) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 18 | 4.0 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 17 | 4.0 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 1 | 4.0 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 10 | 4.0 |
| (1,3064) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 5 | 4.0 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 12 | 4.0 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 2 | 4.0 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 8 | 4.0 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 19 | 4.0 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 20 | 4.0 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 20 | 4.0 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 7 | 4.0 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 17 | 4.0 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 16 | 4.0 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 15 | 4.0 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 14 | 4.0 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 18 | 4.0 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 5 | 4.0 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 5 | 4.0 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 5 | 4.0 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 12 | 4.0 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 4 | 4.0 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 4 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 4 | 4.0 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 9 | 4.0 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 18 | 4.0 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 13 | 4.0 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 13 | 4.0 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 8 | 4.0 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 8 | 4.0 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 6 | 4.0 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 6 | 4.0 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 16 | 4.0 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 16 | 4.0 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 16 | 4.0 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 6 | 4.0 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 6 | 4.0 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 6 | 4.0 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 1 | 4.0 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 12 | 4.0 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 4 | 4.0 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 10 | 4.0 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 10 | 4.0 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 10 | 4.0 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 5 | 4.0 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 5 | 4.0 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 5 | 4.0 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 5 | 4.0 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 5 | 4.0 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 5 | 4.0 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 5 | 4.0 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 5 | 4.0 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 5 | 4.0 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 3 | 4.0 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 3 | 4.0 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 3 | 4.0 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 10 | 4.0 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 10 | 4.0 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 10 | 4.0 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 4 | 4.0 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 1 | 4.0 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 1 | 4.0 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 1 | 4.0 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 13 | 4.0 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 13 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 13 | 4.0 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 14 | 4.0 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 14 | 4.0 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 14 | 4.0 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 14 | 4.0 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 8 | 4.0 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 8 | 4.0 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 8 | 4.0 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 5 | 4.0 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 5 | 4.0 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 5 | 4.0 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 16 | 4.0 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 16 | 4.0 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 8 | 4.0 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 12 | 4.0 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 7 | 4.0 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 7 | 4.0 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 7 | 4.0 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 2 | 4.0 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 2 | 4.0 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 2 | 4.0 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 20 | 4.0 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 20 | 4.0 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 20 | 4.0 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 12 | 4.0 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 19 | 4.0 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 2 | 4.0 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 16 | 4.0 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 3 | 4.0 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 3 | 4.0 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 3 | 4.0 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 8 | 4.0 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 8 | 4.0 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 8 | 4.0 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 8 | 4.0 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 8 | 4.0 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 8 | 4.0 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 14 | 4.0 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 14 | 4.0 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 14 | 4.0 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 20 | 4.0 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 4 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 4 | 4.0 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 7 | 4.0 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 7 | 4.0 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 7 | 4.0 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 5 | 4.0 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 5 | 4.0 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 5 | 4.0 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 10 | 4.0 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 20 | 4.0 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 15 | 4.0 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 8 | 4.0 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 19 | 4.0 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 4 | 4.0 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 20 | 4.0 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 12 | 4.0 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 12 | 4.0 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 10 | 4.0 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 10 | 4.0 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 10 | 4.0 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 10 | 4.0 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 10 | 4.0 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 10 | 4.0 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 15 | 4.0 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 7 | 4.0 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 7 | 4.0 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 7 | 4.0 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 20 | 4.0 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 20 | 4.0 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 20 | 4.0 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 13 | 4.0 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 13 | 4.0 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 13 | 4.0 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 13 | 4.0 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 10 | 4.0 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 2 | 4.0 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 2 | 4.0 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 5 | 4.0 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 5 | 4.0 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 10 | 4.0 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 10 | 4.0 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 19 | 4.0 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 19 | 4.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 19 | 4.0 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 19 | 4.0 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 19 | 4.0 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 19 | 4.0 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 19 | 3.99 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 8 | 3.99 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 11 | 3.99 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 4 | 3.99 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 19 | 3.99 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 10 | 3.99 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 10 | 3.99 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 16 | 3.99 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 16 | 3.99 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 4 | 3.99 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 4 | 3.99 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 14 | 3.99 |
| (1,9601) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 14 | 3.99 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 4 | 3.99 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 4 | 3.99 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 3 | 3.99 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 3 | 3.99 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 3 | 3.99 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 3 | 3.99 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 3 | 3.99 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 3 | 3.99 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 7 | 3.99 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 7 | 3.99 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 19 | 3.99 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 19 | 3.99 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 19 | 3.99 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 19 | 3.99 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 16 | 3.99 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 16 | 3.99 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 10 | 3.99 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 10 | 3.99 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 14 | 3.99 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 14 | 3.99 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 2 | 3.99 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 2 | 3.99 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 7 | 3.99 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 7 | 3.99 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 7 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 7 | 3.99 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA2 | 16 | 3.99 |
| (1,9384) | 1:119:A:ARG:HA | 1:120:A:GLY:HA3 | 16 | 3.99 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 19 | 3.99 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 19 | 3.99 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 13 | 3.99 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 13 | 3.99 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 12 | 3.99 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 12 | 3.99 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 12 | 3.99 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 12 | 3.99 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 12 | 3.99 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 12 | 3.99 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 6 | 3.99 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 6 | 3.99 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 8 | 3.99 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 8 | 3.99 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 6 | 3.99 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 6 | 3.99 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 6 | 3.99 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 6 | 3.99 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 18 | 3.99 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 18 | 3.99 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 18 | 3.99 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 18 | 3.99 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 7 | 3.99 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 7 | 3.99 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 7 | 3.99 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 7 | 3.99 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 7 | 3.99 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 7 | 3.99 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 8 | 3.99 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 8 | 3.99 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 10 | 3.99 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 10 | 3.99 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 17 | 3.99 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 17 | 3.99 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 5 | 3.99 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 5 | 3.99 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 5 | 3.99 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 5 | 3.99 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 19 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 19 | 3.99 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 2 | 3.99 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 2 | 3.99 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 15 | 3.99 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 15 | 3.99 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 15 | 3.99 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 15 | 3.99 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 11 | 3.99 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 11 | 3.99 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 16 | 3.99 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 16 | 3.99 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 11 | 3.99 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 11 | 3.99 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 3 | 3.99 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 3 | 3.99 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 8 | 3.99 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 8 | 3.99 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 5 | 3.99 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 5 | 3.99 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 5 | 3.99 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 5 | 3.99 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 1 | 3.99 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 1 | 3.99 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 5 | 3.99 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 5 | 3.99 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 8 | 3.99 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 8 | 3.99 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 8 | 3.99 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 8 | 3.99 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 8 | 3.99 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 8 | 3.99 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 8 | 3.99 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 8 | 3.99 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 12 | 3.99 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 12 | 3.99 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 14 | 3.99 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 14 | 3.99 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 1 | 3.99 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 1 | 3.99 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 9 | 3.99 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 9 | 3.99 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 12 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 12 | 3.99 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 1 | 3.99 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 1 | 3.99 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 1 | 3.99 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 1 | 3.99 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 12 | 3.99 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 12 | 3.99 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 10 | 3.99 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 10 | 3.99 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 15 | 3.99 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 15 | 3.99 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 15 | 3.99 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 15 | 3.99 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 5 | 3.99 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 5 | 3.99 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 5 | 3.99 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 5 | 3.99 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 5 | 3.99 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 5 | 3.99 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 7 | 3.99 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 7 | 3.99 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 7 | 3.99 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 7 | 3.99 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 11 | 3.99 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 11 | 3.99 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 6 | 3.99 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 6 | 3.99 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 7 | 3.99 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 7 | 3.99 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 10 | 3.99 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 10 | 3.99 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 2 | 3.99 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 2 | 3.99 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 4 | 3.99 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 4 | 3.99 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 11 | 3.99 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 11 | 3.99 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 11 | 3.99 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 11 | 3.99 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 11 | 3.99 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 11 | 3.99 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 11 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 11 | 3.99 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 11 | 3.99 |
| (1,8386) | 1:139:A:PHE:H | 1:141:A:LEU:H | 4 | 3.99 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 5 | 3.99 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 5 | 3.99 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 5 | 3.99 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 14 | 3.99 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 3 | 3.99 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 3 | 3.99 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 12 | 3.99 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 13 | 3.99 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 20 | 3.99 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 20 | 3.99 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 20 | 3.99 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 20 | 3.99 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 20 | 3.99 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 20 | 3.99 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 8 | 3.99 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 8 | 3.99 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 8 | 3.99 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 19 | 3.99 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 19 | 3.99 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 18 | 3.99 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 17 | 3.99 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 17 | 3.99 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 17 | 3.99 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 10 | 3.99 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 15 | 3.99 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 15 | 3.99 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 7 | 3.99 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 5 | 3.99 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 5 | 3.99 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 5 | 3.99 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 5 | 3.99 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 5 | 3.99 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 5 | 3.99 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 5 | 3.99 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 5 | 3.99 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 5 | 3.99 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD11 | 12 | 3.99 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD12 | 12 | 3.99 |
| (1,8107) | 1:93:A:ILE:HG12 | 1:96:A:ILE:HD13 | 12 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 6 | 3.99 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 13 | 3.99 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 4 | 3.99 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 4 | 3.99 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 8 | 3.99 |
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 19 | 3.99 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 19 | 3.99 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 19 | 3.99 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 4 | 3.99 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 4 | 3.99 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 4 | 3.99 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 10 | 3.99 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 8 | 3.99 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 8 | 3.99 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 15 | 3.99 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 15 | 3.99 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 14 | 3.99 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 14 | 3.99 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 2 | 3.99 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 9 | 3.99 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 9 | 3.99 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 18 | 3.99 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 13 | 3.99 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 13 | 3.99 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 1 | 3.99 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 1 | 3.99 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE1 | 11 | 3.99 |
| (1,7569) | 1:23:A:TYR:H | 1:23:A:TYR:HE2 | 11 | 3.99 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 20 | 3.99 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 20 | 3.99 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 12 | 3.99 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 15 | 3.99 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 7 | 3.99 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 5 | 3.99 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 7 | 3.99 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 7 | 3.99 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 9 | 3.99 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 9 | 3.99 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 8 | 3.99 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 8 | 3.99 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 8 | 3.99 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 4 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 4 | 3.99 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 4 | 3.99 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 13 | 3.99 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 13 | 3.99 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 2 | 3.99 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 1 | 3.99 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 1 | 3.99 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 2 | 3.99 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 2 | 3.99 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 2 | 3.99 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 9 | 3.99 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 9 | 3.99 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 9 | 3.99 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 13 | 3.99 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 7 | 3.99 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 7 | 3.99 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 7 | 3.99 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 9 | 3.99 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 9 | 3.99 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 9 | 3.99 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 18 | 3.99 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 18 | 3.99 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 18 | 3.99 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 3 | 3.99 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 3 | 3.99 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 3 | 3.99 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 4 | 3.99 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 3.99 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 3.99 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 10 | 3.99 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 10 | 3.99 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 10 | 3.99 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 14 | 3.99 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 14 | 3.99 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 5 | 3.99 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 5 | 3.99 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 16 | 3.99 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 16 | 3.99 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 16 | 3.99 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 18 | 3.99 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 18 | 3.99 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 18 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 6 | 3.99 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 19 | 3.99 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 1 | 3.99 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 1 | 3.99 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 1 | 3.99 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 1 | 3.99 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 6 | 3.99 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 6 | 3.99 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 6 | 3.99 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 6 | 3.99 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 6 | 3.99 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 20 | 3.99 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 20 | 3.99 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 20 | 3.99 |
| (1,6606) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 20 | 3.99 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 6 | 3.99 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 6 | 3.99 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 6 | 3.99 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 19 | 3.99 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 17 | 3.99 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 17 | 3.99 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 17 | 3.99 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 12 | 3.99 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 12 | 3.99 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 12 | 3.99 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 8 | 3.99 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 20 | 3.99 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 7 | 3.99 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 7 | 3.99 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 7 | 3.99 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 16 | 3.99 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 16 | 3.99 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 16 | 3.99 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 1 | 3.99 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 1 | 3.99 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 1 | 3.99 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 4 | 3.99 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 4 | 3.99 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 4 | 3.99 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 8 | 3.99 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 7 | 3.99 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 7 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 7 | 3.99 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 15 | 3.99 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 15 | 3.99 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 15 | 3.99 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 15 | 3.99 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 17 | 3.99 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 20 | 3.99 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 15 | 3.99 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 15 | 3.99 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 15 | 3.99 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 16 | 3.99 |
| (1,5929) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 5 | 3.99 |
| (1,5929) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 5 | 3.99 |
| (1,5929) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 5 | 3.99 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 6 | 3.99 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 6 | 3.99 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 6 | 3.99 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 10 | 3.99 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 10 | 3.99 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 20 | 3.99 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 20 | 3.99 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 16 | 3.99 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 20 | 3.99 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 7 | 3.99 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 20 | 3.99 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 18 | 3.99 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 16 | 3.99 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 16 | 3.99 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 16 | 3.99 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 16 | 3.99 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 16 | 3.99 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 16 | 3.99 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 13 | 3.99 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 16 | 3.99 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 14 | 3.99 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 14 | 3.99 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 14 | 3.99 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 14 | 3.99 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 14 | 3.99 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 14 | 3.99 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 2 | 3.99 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 2 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 2 | 3.99 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 9 | 3.99 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 15 | 3.99 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 15 | 3.99 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 15 | 3.99 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 15 | 3.99 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 15 | 3.99 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 15 | 3.99 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 13 | 3.99 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 13 | 3.99 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 13 | 3.99 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 7 | 3.99 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 7 | 3.99 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 16 | 3.99 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 16 | 3.99 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 4 | 3.99 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 4 | 3.99 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 8 | 3.99 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 8 | 3.99 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 12 | 3.99 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 12 | 3.99 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 13 | 3.99 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 13 | 3.99 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 13 | 3.99 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 13 | 3.99 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 13 | 3.99 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 13 | 3.99 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 15 | 3.99 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 19 | 3.99 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 19 | 3.99 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 19 | 3.99 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 14 | 3.99 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 14 | 3.99 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 14 | 3.99 |
| (1,5349) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 14 | 3.99 |
| (1,5349) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 14 | 3.99 |
| (1,5349) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 14 | 3.99 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 6 | 3.99 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 6 | 3.99 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 6 | 3.99 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 13 | 3.99 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 12 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 12 | 3.99 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 12 | 3.99 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 12 | 3.99 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 12 | 3.99 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 12 | 3.99 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 12 | 3.99 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 12 | 3.99 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 12 | 3.99 |
| (1,5266) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 16 | 3.99 |
| (1,5266) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 16 | 3.99 |
| (1,5266) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 16 | 3.99 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 1 | 3.99 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 5 | 3.99 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 14 | 3.99 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 11 | 3.99 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 11 | 3.99 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 11 | 3.99 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 11 | 3.99 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 11 | 3.99 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 11 | 3.99 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 13 | 3.99 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 13 | 3.99 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 13 | 3.99 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 4 | 3.99 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 4 | 3.99 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 4 | 3.99 |
| (1,5049) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 5 | 3.99 |
| (1,5049) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 5 | 3.99 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 17 | 3.99 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 19 | 3.99 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 2 | 3.99 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 8 | 3.99 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 15 | 3.99 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 15 | 3.99 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 15 | 3.99 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 3.99 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 3.99 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 3.99 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 8 | 3.99 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 8 | 3.99 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 8 | 3.99 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 14 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 14 | 3.99 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 14 | 3.99 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 11 | 3.99 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 11 | 3.99 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 11 | 3.99 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 3 | 3.99 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 10 | 3.99 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 10 | 3.99 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 14 | 3.99 |
| (1,4588) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 14 | 3.99 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 7 | 3.99 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 7 | 3.99 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 3.99 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 13 | 3.99 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 13 | 3.99 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 19 | 3.99 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 19 | 3.99 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 14 | 3.99 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 14 | 3.99 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 2 | 3.99 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 2 | 3.99 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 11 | 3.99 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 6 | 3.99 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 6 | 3.99 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 12 | 3.99 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 12 | 3.99 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 6 | 3.99 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 6 | 3.99 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 6 | 3.99 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 6 | 3.99 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 3 | 3.99 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 3 | 3.99 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 18 | 3.99 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 18 | 3.99 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 18 | 3.99 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 18 | 3.99 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 9 | 3.99 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 9 | 3.99 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 9 | 3.99 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 9 | 3.99 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 9 | 3.99 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 9 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 17 | 3.99 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 17 | 3.99 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 5 | 3.99 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 5 | 3.99 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 5 | 3.99 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 5 | 3.99 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 11 | 3.99 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 4 | 3.99 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 4 | 3.99 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 4 | 3.99 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 11 | 3.99 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 11 | 3.99 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 11 | 3.99 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 3.99 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 11 | 3.99 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 11 | 3.99 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 3 | 3.99 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 3 | 3.99 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 8 | 3.99 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 8 | 3.99 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 5 | 3.99 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 5 | 3.99 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 4 | 3.99 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 12 | 3.99 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 12 | 3.99 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 5 | 3.99 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 5 | 3.99 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 7 | 3.99 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 7 | 3.99 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 3.99 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 14 | 3.99 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 8 | 3.99 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 8 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 2 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 2 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 2 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 2 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 2 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 2 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 19 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 19 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 19 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 19 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 19 | 3.99 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 19 | 3.99 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 9 | 3.99 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 9 | 3.99 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 12 | 3.99 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 12 | 3.99 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 10 | 3.99 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 10 | 3.99 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 15 | 3.99 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 15 | 3.99 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 15 | 3.99 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 15 | 3.99 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 12 | 3.99 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 12 | 3.99 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 7 | 3.99 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 5 | 3.99 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 5 | 3.99 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 5 | 3.99 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 5 | 3.99 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 5 | 3.99 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 5 | 3.99 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 7 | 3.99 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 7 | 3.99 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 7 | 3.99 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 7 | 3.99 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 11 | 3.99 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 11 | 3.99 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 1 | 3.99 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 19 | 3.99 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 19 | 3.99 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 6 | 3.99 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 6 | 3.99 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 9 | 3.99 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 1 | 3.99 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 1 | 3.99 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 16 | 3.99 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 16 | 3.99 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 16 | 3.99 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 7 | 3.99 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 7 | 3.99 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 10 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 10 | 3.99 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 8 | 3.99 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 8 | 3.99 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 19 | 3.99 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 4 | 3.99 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 4 | 3.99 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 12 | 3.99 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 1 | 3.99 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 1 | 3.99 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 20 | 3.99 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 2 | 3.99 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 2 | 3.99 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 2 | 3.99 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 9 | 3.99 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 9 | 3.99 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 9 | 3.99 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 13 | 3.99 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 7 | 3.99 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 7 | 3.99 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 7 | 3.99 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 9 | 3.99 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 9 | 3.99 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 9 | 3.99 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 18 | 3.99 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 18 | 3.99 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 18 | 3.99 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 12 | 3.99 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 12 | 3.99 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 12 | 3.99 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 6 | 3.99 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 6 | 3.99 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 6 | 3.99 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 3 | 3.99 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 3 | 3.99 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 3 | 3.99 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 4 | 3.99 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 18 | 3.99 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 3.99 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 3.99 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 13 | 3.99 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 13 | 3.99 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 13 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 7 | 3.99 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 7 | 3.99 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 7 | 3.99 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 4 | 3.99 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 4 | 3.99 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 4 | 3.99 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 10 | 3.99 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 10 | 3.99 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 10 | 3.99 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 14 | 3.99 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 14 | 3.99 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 5 | 3.99 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 5 | 3.99 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 16 | 3.99 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 16 | 3.99 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 16 | 3.99 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 18 | 3.99 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 18 | 3.99 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 18 | 3.99 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 6 | 3.99 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 19 | 3.99 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 1 | 3.99 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 1 | 3.99 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 1 | 3.99 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 1 | 3.99 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 6 | 3.99 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 6 | 3.99 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 10 | 3.99 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 6 | 3.99 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 6 | 3.99 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 6 | 3.99 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 20 | 3.99 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 20 | 3.99 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 20 | 3.99 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 6 | 3.99 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 6 | 3.99 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 6 | 3.99 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 19 | 3.99 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 6 | 3.99 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 13 | 3.99 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 3.99 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 8 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 17 | 3.99 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 17 | 3.99 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 17 | 3.99 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 12 | 3.99 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 12 | 3.99 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 12 | 3.99 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 8 | 3.99 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 3.99 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 3.99 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 3.99 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 20 | 3.99 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 8 | 3.99 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 8 | 3.99 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 7 | 3.99 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 7 | 3.99 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 7 | 3.99 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 17 | 3.99 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 17 | 3.99 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 17 | 3.99 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 16 | 3.99 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 16 | 3.99 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 16 | 3.99 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 1 | 3.99 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 1 | 3.99 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 1 | 3.99 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 4 | 3.99 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 4 | 3.99 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 4 | 3.99 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 9 | 3.99 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 8 | 3.99 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 3 | 3.99 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 7 | 3.99 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 7 | 3.99 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 7 | 3.99 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 18 | 3.99 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 18 | 3.99 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 15 | 3.99 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 15 | 3.99 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 15 | 3.99 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 13 | 3.99 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 13 | 3.99 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 13 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 15 | 3.99 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 17 | 3.99 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 20 | 3.99 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 19 | 3.99 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 15 | 3.99 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 15 | 3.99 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 15 | 3.99 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 16 | 3.99 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 19 | 3.99 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 11 | 3.99 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 6 | 3.99 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 6 | 3.99 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 6 | 3.99 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 10 | 3.99 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 10 | 3.99 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 20 | 3.99 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 20 | 3.99 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 16 | 3.99 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 20 | 3.99 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 7 | 3.99 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 7 | 3.99 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 13 | 3.99 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 20 | 3.99 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 18 | 3.99 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 16 | 3.99 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 16 | 3.99 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 16 | 3.99 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 16 | 3.99 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 16 | 3.99 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 16 | 3.99 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 13 | 3.99 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 16 | 3.99 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 9 | 3.99 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 14 | 3.99 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 14 | 3.99 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 14 | 3.99 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 14 | 3.99 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 14 | 3.99 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 14 | 3.99 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 2 | 3.99 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 2 | 3.99 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 2 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 2 | 3.99 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 14 | 3.99 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 14 | 3.99 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 14 | 3.99 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 9 | 3.99 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 15 | 3.99 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 15 | 3.99 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 15 | 3.99 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 15 | 3.99 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 15 | 3.99 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 15 | 3.99 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 13 | 3.99 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 13 | 3.99 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 13 | 3.99 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 7 | 3.99 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 7 | 3.99 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 16 | 3.99 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 16 | 3.99 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 3 | 3.99 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 4 | 3.99 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 4 | 3.99 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 8 | 3.99 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 8 | 3.99 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 12 | 3.99 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 12 | 3.99 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 13 | 3.99 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 13 | 3.99 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 13 | 3.99 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 16 | 3.99 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 19 | 3.99 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 10 | 3.99 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 10 | 3.99 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 10 | 3.99 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 10 | 3.99 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 10 | 3.99 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 10 | 3.99 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 10 | 3.99 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 10 | 3.99 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 10 | 3.99 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 20 | 3.99 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 7 | 3.98 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 12 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 6 | 3.98 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 5 | 3.98 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 5 | 3.98 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 13 | 3.98 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 13 | 3.98 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 5 | 3.98 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 5 | 3.98 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 7 | 3.98 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 7 | 3.98 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 8 | 3.98 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 8 | 3.98 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 8 | 3.98 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 8 | 3.98 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 8 | 3.98 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 8 | 3.98 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 18 | 3.98 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 18 | 3.98 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 8 | 3.98 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 8 | 3.98 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 11 | 3.98 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 11 | 3.98 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 7 | 3.98 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 7 | 3.98 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 7 | 3.98 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 7 | 3.98 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 2 | 3.98 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 2 | 3.98 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 2 | 3.98 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 2 | 3.98 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 13 | 3.98 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 13 | 3.98 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 6 | 3.98 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 6 | 3.98 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 14 | 3.98 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 14 | 3.98 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 14 | 3.98 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 14 | 3.98 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 6 | 3.98 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 6 | 3.98 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 15 | 3.98 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 15 | 3.98 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 2 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 2 | 3.98 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 2 | 3.98 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 2 | 3.98 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 2 | 3.98 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 2 | 3.98 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 3 | 3.98 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 3 | 3.98 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 9 | 3.98 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 9 | 3.98 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 8 | 3.98 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 8 | 3.98 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 1 | 3.98 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 1 | 3.98 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 1 | 3.98 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 1 | 3.98 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 1 | 3.98 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 1 | 3.98 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 8 | 3.98 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 8 | 3.98 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG2 | 19 | 3.98 |
| (1,9103) | 1:86:A:LEU:HD21 | 1:87:A:GLU:HG3 | 19 | 3.98 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG2 | 19 | 3.98 |
| (1,9103) | 1:86:A:LEU:HD22 | 1:87:A:GLU:HG3 | 19 | 3.98 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG2 | 19 | 3.98 |
| (1,9103) | 1:86:A:LEU:HD23 | 1:87:A:GLU:HG3 | 19 | 3.98 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 19 | 3.98 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 19 | 3.98 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 14 | 3.98 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 14 | 3.98 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 14 | 3.98 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 14 | 3.98 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 14 | 3.98 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 14 | 3.98 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 16 | 3.98 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 16 | 3.98 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 16 | 3.98 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 16 | 3.98 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 16 | 3.98 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 16 | 3.98 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 16 | 3.98 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 16 | 3.98 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 16 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 16 | 3.98 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 16 | 3.98 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 16 | 3.98 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 1 | 3.98 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 1 | 3.98 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 1 | 3.98 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 1 | 3.98 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 1 | 3.98 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 1 | 3.98 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 2 | 3.98 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 2 | 3.98 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 7 | 3.98 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 7 | 3.98 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 19 | 3.98 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 19 | 3.98 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 1 | 3.98 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 1 | 3.98 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 1 | 3.98 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 1 | 3.98 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 1 | 3.98 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 1 | 3.98 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 3 | 3.98 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 3 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 6 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 6 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 6 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 6 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 7 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 7 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 7 | 3.98 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 7 | 3.98 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 4 | 3.98 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 4 | 3.98 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 5 | 3.98 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 5 | 3.98 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 3 | 3.98 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 3 | 3.98 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 10 | 3.98 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 10 | 3.98 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 20 | 3.98 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 18 | 3.98 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 10 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 15 | 3.98 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 15 | 3.98 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 15 | 3.98 |
| (1,8406) | 1:141:A:LEU:HD21 | 1:146:A:MET:HA | 16 | 3.98 |
| (1,8406) | 1:141:A:LEU:HD22 | 1:146:A:MET:HA | 16 | 3.98 |
| (1,8406) | 1:141:A:LEU:HD23 | 1:146:A:MET:HA | 16 | 3.98 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE1 | 15 | 3.98 |
| (1,8392) | 1:139:A:PHE:H | 1:139:A:PHE:HE2 | 15 | 3.98 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 12 | 3.98 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 12 | 3.98 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 12 | 3.98 |
| (1,8372) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 16 | 3.98 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 12 | 3.98 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 15 | 3.98 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 16 | 3.98 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 16 | 3.98 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 8 | 3.98 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 8 | 3.98 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 1 | 3.98 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 2 | 3.98 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 2 | 3.98 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 2 | 3.98 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 2 | 3.98 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 2 | 3.98 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 2 | 3.98 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 13 | 3.98 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 13 | 3.98 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 20 | 3.98 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 20 | 3.98 |
| (1,8183) | 1:103:A:PHE:H | 1:105:A:SER:H | 20 | 3.98 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 13 | 3.98 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD11 | 20 | 3.98 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD12 | 20 | 3.98 |
| (1,8114) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HD13 | 20 | 3.98 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD11 | 20 | 3.98 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD12 | 20 | 3.98 |
| (1,8114) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HD13 | 20 | 3.98 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD11 | 20 | 3.98 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD12 | 20 | 3.98 |
| (1,8114) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HD13 | 20 | 3.98 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 19 | 3.98 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 19 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 19 | 3.98 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 1 | 3.98 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 13 | 3.98 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 16 | 3.98 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 17 | 3.98 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 1 | 3.98 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 20 | 3.98 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 14 | 3.98 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 14 | 3.98 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 14 | 3.98 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 4 | 3.98 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 13 | 3.98 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 6 | 3.98 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 1 | 3.98 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 1 | 3.98 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 1 | 3.98 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 6 | 3.98 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 6 | 3.98 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 7 | 3.98 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 7 | 3.98 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 15 | 3.98 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 1 | 3.98 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 1 | 3.98 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 1 | 3.98 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 1 | 3.98 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 8 | 3.98 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 8 | 3.98 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 8 | 3.98 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 8 | 3.98 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 8 | 3.98 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 8 | 3.98 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 8 | 3.98 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 8 | 3.98 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 8 | 3.98 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 3 | 3.98 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 3 | 3.98 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 3 | 3.98 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 3 | 3.98 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 3 | 3.98 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 3 | 3.98 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 3 | 3.98 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 19 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 19 | 3.98 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 19 | 3.98 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 8 | 3.98 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 9 | 3.98 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 5 | 3.98 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 19 | 3.98 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 15 | 3.98 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 11 | 3.98 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 12 | 3.98 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 12 | 3.98 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 15 | 3.98 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 9 | 3.98 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 9 | 3.98 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 9 | 3.98 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 20 | 3.98 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 20 | 3.98 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 20 | 3.98 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 10 | 3.98 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 10 | 3.98 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 4 | 3.98 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 4 | 3.98 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 4 | 3.98 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 4 | 3.98 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 4 | 3.98 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 4 | 3.98 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 4 | 3.98 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 4 | 3.98 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 4 | 3.98 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 14 | 3.98 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 14 | 3.98 |
| (1,7196) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 14 | 3.98 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 14 | 3.98 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 14 | 3.98 |
| (1,7196) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 14 | 3.98 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 14 | 3.98 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 14 | 3.98 |
| (1,7196) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 14 | 3.98 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 5 | 3.98 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 5 | 3.98 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 20 | 3.98 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 5 | 3.98 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 5 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 5 | 3.98 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 19 | 3.98 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 8 | 3.98 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 19 | 3.98 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 20 | 3.98 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 17 | 3.98 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 17 | 3.98 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 2 | 3.98 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 5 | 3.98 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 5 | 3.98 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 5 | 3.98 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 14 | 3.98 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 14 | 3.98 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 14 | 3.98 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 13 | 3.98 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 13 | 3.98 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 13 | 3.98 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 16 | 3.98 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 16 | 3.98 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 1 | 3.98 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 5 | 3.98 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 12 | 3.98 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 4 | 3.98 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 14 | 3.98 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 1 | 3.98 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 3 | 3.98 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 6 | 3.98 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 13 | 3.98 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 13 | 3.98 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 13 | 3.98 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 4 | 3.98 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 8 | 3.98 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 8 | 3.98 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 11 | 3.98 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 11 | 3.98 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 11 | 3.98 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 9 | 3.98 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 9 | 3.98 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 9 | 3.98 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 9 | 3.98 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 9 | 3.98 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 9 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 9 | 3.98 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 9 | 3.98 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 9 | 3.98 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 13 | 3.98 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 2 | 3.98 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 2 | 3.98 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 2 | 3.98 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 17 | 3.98 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 12 | 3.98 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 12 | 3.98 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 6 | 3.98 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 6 | 3.98 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 6 | 3.98 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 8 | 3.98 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 8 | 3.98 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 8 | 3.98 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 8 | 3.98 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 7 | 3.98 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 7 | 3.98 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 5 | 3.98 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 14 | 3.98 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 14 | 3.98 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 14 | 3.98 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 4 | 3.98 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 4 | 3.98 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 4 | 3.98 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 13 | 3.98 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 13 | 3.98 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 13 | 3.98 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 2 | 3.98 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 2 | 3.98 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 8 | 3.98 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 8 | 3.98 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 13 | 3.98 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 13 | 3.98 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 18 | 3.98 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 13 | 3.98 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 13 | 3.98 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 20 | 3.98 |
| (1,5588) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 18 | 3.98 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 11 | 3.98 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 11 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 11 | 3.98 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 17 | 3.98 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 6 | 3.98 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 6 | 3.98 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 6 | 3.98 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 3 | 3.98 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 3 | 3.98 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 3 | 3.98 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 14 | 3.98 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 14 | 3.98 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 16 | 3.98 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 16 | 3.98 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 2 | 3.98 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 2 | 3.98 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 2 | 3.98 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 8 | 3.98 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 18 | 3.98 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 18 | 3.98 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 18 | 3.98 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 18 | 3.98 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 18 | 3.98 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 18 | 3.98 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 3 | 3.98 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 3 | 3.98 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 3 | 3.98 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 9 | 3.98 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 9 | 3.98 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 2 | 3.98 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 10 | 3.98 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 10 | 3.98 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 10 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 3 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 3 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 3 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 3 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 3 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 3 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 3 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 3 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 3 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 4 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 4 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 4 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 4 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 4 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 4 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 4 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 4 | 3.98 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 4 | 3.98 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 14 | 3.98 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 14 | 3.98 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 14 | 3.98 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 18 | 3.98 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 18 | 3.98 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 18 | 3.98 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 6 | 3.98 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 6 | 3.98 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 6 | 3.98 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 11 | 3.98 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 11 | 3.98 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 11 | 3.98 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 11 | 3.98 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 3 | 3.98 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 3 | 3.98 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 3 | 3.98 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 12 | 3.98 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 12 | 3.98 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 12 | 3.98 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 19 | 3.98 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 19 | 3.98 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 19 | 3.98 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 19 | 3.98 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 19 | 3.98 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 19 | 3.98 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 19 | 3.98 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 19 | 3.98 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 19 | 3.98 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 18 | 3.98 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 18 | 3.98 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 18 | 3.98 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 4 | 3.98 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 4 | 3.98 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 4 | 3.98 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 5 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 12 | 3.98 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 14 | 3.98 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 1 | 3.98 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 6 | 3.98 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 6 | 3.98 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 6 | 3.98 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 6 | 3.98 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 13 | 3.98 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 13 | 3.98 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 13 | 3.98 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 8 | 3.98 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 8 | 3.98 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 8 | 3.98 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 3 | 3.98 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 12 | 3.98 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 7 | 3.98 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 17 | 3.98 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 20 | 3.98 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 20 | 3.98 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 20 | 3.98 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 5 | 3.98 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 5 | 3.98 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 5 | 3.98 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 5 | 3.98 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 18 | 3.98 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 18 | 3.98 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 18 | 3.98 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 7 | 3.98 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 7 | 3.98 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 13 | 3.98 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 13 | 3.98 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 13 | 3.98 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 8 | 3.98 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 8 | 3.98 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 11 | 3.98 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 7 | 3.98 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 7 | 3.98 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 2 | 3.98 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 2 | 3.98 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 2 | 3.98 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 2 | 3.98 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 3 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 3 | 3.98 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 3 | 3.98 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 6 | 3.98 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 6 | 3.98 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 15 | 3.98 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 15 | 3.98 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 15 | 3.98 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 2 | 3.98 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 2 | 3.98 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 2 | 3.98 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 2 | 3.98 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 2 | 3.98 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 2 | 3.98 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 8 | 3.98 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 8 | 3.98 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 17 | 3.98 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 7 | 3.98 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 7 | 3.98 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 14 | 3.98 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 14 | 3.98 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 7 | 3.98 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 7 | 3.98 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 1 | 3.98 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 1 | 3.98 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 1 | 3.98 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 3 | 3.98 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 3 | 3.98 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 3 | 3.98 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 3 | 3.98 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 3 | 3.98 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 3 | 3.98 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 11 | 3.98 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 10 | 3.98 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 10 | 3.98 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 10 | 3.98 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 1 | 3.98 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 1 | 3.98 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 1 | 3.98 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 1 | 3.98 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 1 | 3.98 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 1 | 3.98 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 8 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 8 | 3.98 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 19 | 3.98 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 19 | 3.98 |
| (1,4044) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 7 | 3.98 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 13 | 3.98 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 14 | 3.98 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 14 | 3.98 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 14 | 3.98 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 14 | 3.98 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 14 | 3.98 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 14 | 3.98 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 1 | 3.98 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 1 | 3.98 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 1 | 3.98 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 1 | 3.98 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 1 | 3.98 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 1 | 3.98 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 16 | 3.98 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 16 | 3.98 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 2 | 3.98 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 2 | 3.98 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 16 | 3.98 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 2 | 3.98 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 2 | 3.98 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 19 | 3.98 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 19 | 3.98 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 1 | 3.98 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 1 | 3.98 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 1 | 3.98 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 1 | 3.98 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 1 | 3.98 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 1 | 3.98 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 3.98 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 10 | 3.98 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 6 | 3.98 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 8 | 3.98 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 8 | 3.98 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 8 | 3.98 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 8 | 3.98 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 8 | 3.98 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 8 | 3.98 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 8 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 8 | 3.98 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 2 | 3.98 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 5 | 3.98 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 5 | 3.98 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 5 | 3.98 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 5 | 3.98 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 1 | 3.98 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 13 | 3.98 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 13 | 3.98 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 4 | 3.98 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 4 | 3.98 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 11 | 3.98 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 11 | 3.98 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 7 | 3.98 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 7 | 3.98 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 2 | 3.98 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 20 | 3.98 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 20 | 3.98 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 20 | 3.98 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 10 | 3.98 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 10 | 3.98 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 4 | 3.98 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 4 | 3.98 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 4 | 3.98 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 4 | 3.98 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 4 | 3.98 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 4 | 3.98 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 4 | 3.98 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 4 | 3.98 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 4 | 3.98 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 14 | 3.98 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 14 | 3.98 |
| (1,3354) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 14 | 3.98 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 14 | 3.98 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 14 | 3.98 |
| (1,3354) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 14 | 3.98 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 14 | 3.98 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 14 | 3.98 |
| (1,3354) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 14 | 3.98 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 9 | 3.98 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 9 | 3.98 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 5 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 5 | 3.98 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 6 | 3.98 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 6 | 3.98 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 6 | 3.98 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 6 | 3.98 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 6 | 3.98 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 6 | 3.98 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 20 | 3.98 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 5 | 3.98 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 5 | 3.98 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 5 | 3.98 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 1 | 3.98 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 19 | 3.98 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 8 | 3.98 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 19 | 3.98 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 20 | 3.98 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 17 | 3.98 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 17 | 3.98 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 2 | 3.98 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 3 | 3.98 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 6 | 3.98 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 15 | 3.98 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 5 | 3.98 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 5 | 3.98 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 5 | 3.98 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 14 | 3.98 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 14 | 3.98 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 14 | 3.98 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 13 | 3.98 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 13 | 3.98 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 13 | 3.98 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 16 | 3.98 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 16 | 3.98 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 1 | 3.98 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 5 | 3.98 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 12 | 3.98 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 1 | 3.98 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 5 | 3.98 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 12 | 3.98 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 3.98 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 12 | 3.98 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 14 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 1 | 3.98 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 18 | 3.98 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 4 | 3.98 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 3 | 3.98 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 6 | 3.98 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 1 | 3.98 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 13 | 3.98 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 13 | 3.98 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 13 | 3.98 |
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 4 | 3.98 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 9 | 3.98 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 3 | 3.98 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 5 | 3.98 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 11 | 3.98 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 11 | 3.98 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 11 | 3.98 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 9 | 3.98 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 9 | 3.98 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 9 | 3.98 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 9 | 3.98 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 9 | 3.98 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 9 | 3.98 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 9 | 3.98 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 9 | 3.98 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 9 | 3.98 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 9 | 3.98 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 9 | 3.98 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 9 | 3.98 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 13 | 3.98 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 3.98 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 11 | 3.98 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 11 | 3.98 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 11 | 3.98 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 18 | 3.98 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 2 | 3.98 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 2 | 3.98 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 2 | 3.98 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 8 | 3.98 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 8 | 3.98 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 8 | 3.98 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 12 | 3.98 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 12 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 6 | 3.98 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 6 | 3.98 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 6 | 3.98 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 8 | 3.98 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 8 | 3.98 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 8 | 3.98 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 14 | 3.98 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 14 | 3.98 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 14 | 3.98 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 11 | 3.98 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 11 | 3.98 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 11 | 3.98 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 8 | 3.98 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 13 | 3.98 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 13 | 3.98 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 8 | 3.98 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 7 | 3.98 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 7 | 3.98 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 5 | 3.98 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 5 | 3.98 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 14 | 3.98 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 14 | 3.98 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 14 | 3.98 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 13 | 3.98 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 13 | 3.98 |
| (1,1080) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 4 | 3.98 |
| (1,1080) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 4 | 3.98 |
| (1,1080) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 4 | 3.98 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 9 | 3.98 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 13 | 3.98 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 13 | 3.98 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 13 | 3.98 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 2 | 3.98 |
| (1,912) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 13 | 3.98 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 8 | 3.98 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 8 | 3.98 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 8 | 3.98 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 8 | 3.98 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 8 | 3.98 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 8 | 3.98 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 2 | 3.98 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 8 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 8 | 3.98 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 13 | 3.98 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 13 | 3.98 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 18 | 3.98 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 13 | 3.98 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 13 | 3.98 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 20 | 3.98 |
| (1,770) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 18 | 3.98 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 1 | 3.98 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 1 | 3.98 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 14 | 3.98 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 11 | 3.98 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 11 | 3.98 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 11 | 3.98 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 17 | 3.98 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 6 | 3.98 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 6 | 3.98 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 6 | 3.98 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 3 | 3.98 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 3 | 3.98 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 3 | 3.98 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 14 | 3.98 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 14 | 3.98 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 16 | 3.98 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 16 | 3.98 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 2 | 3.98 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 2 | 3.98 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 2 | 3.98 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 8 | 3.98 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 5 | 3.98 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 5 | 3.98 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 5 | 3.98 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 5 | 3.98 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 5 | 3.98 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 5 | 3.98 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 18 | 3.98 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 18 | 3.98 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 18 | 3.98 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 18 | 3.98 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 18 | 3.98 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 18 | 3.98 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 8 | 3.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 8 | 3.98 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 8 | 3.98 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 8 | 3.98 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 8 | 3.98 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 8 | 3.98 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 17 | 3.98 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 4 | 3.98 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 16 | 3.98 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 1 | 3.97 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 1 | 3.97 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 11 | 3.97 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 11 | 3.97 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 12 | 3.97 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 12 | 3.97 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 1 | 3.97 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 1 | 3.97 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 15 | 3.97 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 15 | 3.97 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 19 | 3.97 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 19 | 3.97 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 6 | 3.97 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 6 | 3.97 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 5 | 3.97 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 5 | 3.97 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 4 | 3.97 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 4 | 3.97 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 12 | 3.97 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 12 | 3.97 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 3 | 3.97 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 3 | 3.97 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 6 | 3.97 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 6 | 3.97 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 17 | 3.97 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 17 | 3.97 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 17 | 3.97 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 17 | 3.97 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 17 | 3.97 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 17 | 3.97 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 3 | 3.97 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 3 | 3.97 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 17 | 3.97 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 17 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 3.97 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 3.97 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 3.97 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 3.97 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 3.97 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 3.97 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 15 | 3.97 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 15 | 3.97 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 6 | 3.97 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 6 | 3.97 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 7 | 3.97 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 7 | 3.97 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 8 | 3.97 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 8 | 3.97 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 3 | 3.97 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 3 | 3.97 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 12 | 3.97 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 12 | 3.97 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 3 | 3.97 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 3 | 3.97 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 14 | 3.97 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 14 | 3.97 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 14 | 3.97 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 14 | 3.97 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 15 | 3.97 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 15 | 3.97 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 3 | 3.97 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 3 | 3.97 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 3 | 3.97 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 3 | 3.97 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 3 | 3.97 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 3 | 3.97 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 15 | 3.97 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 15 | 3.97 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 15 | 3.97 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 15 | 3.97 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 15 | 3.97 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 15 | 3.97 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 11 | 3.97 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 11 | 3.97 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 14 | 3.97 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 14 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 15 | 3.97 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 15 | 3.97 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 12 | 3.97 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 12 | 3.97 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 3 | 3.97 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 3 | 3.97 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 2 | 3.97 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 2 | 3.97 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 16 | 3.97 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 16 | 3.97 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 5 | 3.97 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 5 | 3.97 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 5 | 3.97 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 5 | 3.97 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 5 | 3.97 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 5 | 3.97 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 8 | 3.97 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 8 | 3.97 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 8 | 3.97 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 8 | 3.97 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 18 | 3.97 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 18 | 3.97 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 18 | 3.97 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 18 | 3.97 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 18 | 3.97 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 18 | 3.97 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 4 | 3.97 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 4 | 3.97 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 4 | 3.97 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 4 | 3.97 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 17 | 3.97 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 17 | 3.97 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 12 | 3.97 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 12 | 3.97 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 13 | 3.97 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 13 | 3.97 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 12 | 3.97 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 12 | 3.97 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 16 | 3.97 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 16 | 3.97 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 1 | 3.97 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 1 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 5 | 3.97 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 5 | 3.97 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 8 | 3.97 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 8 | 3.97 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 7 | 3.97 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 7 | 3.97 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 19 | 3.97 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 19 | 3.97 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 4 | 3.97 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 4 | 3.97 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 4 | 3.97 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 12 | 3.97 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 12 | 3.97 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 12 | 3.97 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 19 | 3.97 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 19 | 3.97 |
| (1,8367) | 1:137:A:ALA:HB1 | 1:139:A:PHE:H | 11 | 3.97 |
| (1,8367) | 1:137:A:ALA:HB2 | 1:139:A:PHE:H | 11 | 3.97 |
| (1,8367) | 1:137:A:ALA:HB3 | 1:139:A:PHE:H | 11 | 3.97 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 14 | 3.97 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 18 | 3.97 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 18 | 3.97 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 1 | 3.97 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 11 | 3.97 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 20 | 3.97 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 20 | 3.97 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 2 | 3.97 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 2 | 3.97 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 2 | 3.97 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 2 | 3.97 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 2 | 3.97 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 2 | 3.97 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 5 | 3.97 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 12 | 3.97 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 14 | 3.97 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 8 | 3.97 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 13 | 3.97 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 2 | 3.97 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 8 | 3.97 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 5 | 3.97 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 5 | 3.97 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 5 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 11 | 3.97 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 12 | 3.97 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 8 | 3.97 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 8 | 3.97 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 8 | 3.97 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 2 | 3.97 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 2 | 3.97 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 2 | 3.97 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 7 | 3.97 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 20 | 3.97 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 17 | 3.97 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 5 | 3.97 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 5 | 3.97 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 5 | 3.97 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 14 | 3.97 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 14 | 3.97 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 14 | 3.97 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 18 | 3.97 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 18 | 3.97 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 18 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 6 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 6 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 6 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 6 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 6 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 6 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 6 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 6 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 6 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 9 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 9 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 9 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 9 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 9 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 9 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 9 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 9 | 3.97 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 9 | 3.97 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 13 | 3.97 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 12 | 3.97 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 12 | 3.97 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 10 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 10 | 3.97 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 6 | 3.97 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 6 | 3.97 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 15 | 3.97 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 17 | 3.97 |
| (1,7652) | 1:29:A:THR:H | 1:30:A:ASN:HA | 13 | 3.97 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 14 | 3.97 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 6 | 3.97 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 6 | 3.97 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 5 | 3.97 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 13 | 3.97 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 2 | 3.97 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 15 | 3.97 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 5 | 3.97 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 5 | 3.97 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 19 | 3.97 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 19 | 3.97 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 19 | 3.97 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 5 | 3.97 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 5 | 3.97 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 5 | 3.97 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 19 | 3.97 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 19 | 3.97 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 6 | 3.97 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 6 | 3.97 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 6 | 3.97 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 13 | 3.97 |
| (1,7236) | 1:27:A:HIS:H | 1:29:A:THR:H | 12 | 3.97 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 5 | 3.97 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 5 | 3.97 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 12 | 3.97 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 12 | 3.97 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 12 | 3.97 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 14 | 3.97 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 14 | 3.97 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 14 | 3.97 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 15 | 3.97 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 3 | 3.97 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 3 | 3.97 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 3 | 3.97 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 6 | 3.97 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 6 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 6 | 3.97 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 6 | 3.97 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 18 | 3.97 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 1 | 3.97 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 1 | 3.97 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 4 | 3.97 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 8 | 3.97 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 18 | 3.97 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 17 | 3.97 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 17 | 3.97 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 17 | 3.97 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 17 | 3.97 |
| (1,6892) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 8 | 3.97 |
| (1,6892) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 8 | 3.97 |
| (1,6892) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 8 | 3.97 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 16 | 3.97 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 20 | 3.97 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 20 | 3.97 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 20 | 3.97 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 13 | 3.97 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 13 | 3.97 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 17 | 3.97 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 20 | 3.97 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 20 | 3.97 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 20 | 3.97 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 20 | 3.97 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 20 | 3.97 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 11 | 3.97 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 11 | 3.97 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 11 | 3.97 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 11 | 3.97 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 11 | 3.97 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 11 | 3.97 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 11 | 3.97 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 11 | 3.97 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 11 | 3.97 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 1 | 3.97 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 8 | 3.97 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 18 | 3.97 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 5 | 3.97 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 8 | 3.97 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 13 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 3 | 3.97 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 3 | 3.97 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 3 | 3.97 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 10 | 3.97 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 10 | 3.97 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 10 | 3.97 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 16 | 3.97 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 20 | 3.97 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 8 | 3.97 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 8 | 3.97 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 8 | 3.97 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 7 | 3.97 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 7 | 3.97 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 7 | 3.97 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 7 | 3.97 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 7 | 3.97 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 7 | 3.97 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 1 | 3.97 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 1 | 3.97 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 1 | 3.97 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 20 | 3.97 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 20 | 3.97 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 20 | 3.97 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 3 | 3.97 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 3 | 3.97 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 3 | 3.97 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 11 | 3.97 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 11 | 3.97 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 10 | 3.97 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 10 | 3.97 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 10 | 3.97 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 20 | 3.97 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 20 | 3.97 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 20 | 3.97 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 8 | 3.97 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 8 | 3.97 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 8 | 3.97 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 7 | 3.97 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 7 | 3.97 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 2 | 3.97 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 19 | 3.97 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 19 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 19 | 3.97 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 19 | 3.97 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 19 | 3.97 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 19 | 3.97 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 3.97 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 20 | 3.97 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 20 | 3.97 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 20 | 3.97 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 20 | 3.97 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 20 | 3.97 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 20 | 3.97 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 11 | 3.97 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 11 | 3.97 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 11 | 3.97 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 8 | 3.97 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 8 | 3.97 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 8 | 3.97 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 4 | 3.97 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 10 | 3.97 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 10 | 3.97 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 10 | 3.97 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 6 | 3.97 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 6 | 3.97 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 6 | 3.97 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 4 | 3.97 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 4 | 3.97 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 4 | 3.97 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 19 | 3.97 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 19 | 3.97 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 19 | 3.97 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 19 | 3.97 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 2 | 3.97 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 7 | 3.97 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 18 | 3.97 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 20 | 3.97 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 16 | 3.97 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 4 | 3.97 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 4 | 3.97 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 5 | 3.97 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 5 | 3.97 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 9 | 3.97 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 9 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 19 | 3.97 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 9 | 3.97 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 9 | 3.97 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 9 | 3.97 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 7 | 3.97 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 7 | 3.97 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 15 | 3.97 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 15 | 3.97 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 18 | 3.97 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 18 | 3.97 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 19 | 3.97 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 19 | 3.97 |
| (1,5373) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 3 | 3.97 |
| (1,5373) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 3 | 3.97 |
| (1,5373) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 3 | 3.97 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 12 | 3.97 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 3 | 3.97 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 3 | 3.97 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 3 | 3.97 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 2 | 3.97 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 2 | 3.97 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 2 | 3.97 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 7 | 3.97 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 7 | 3.97 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 7 | 3.97 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 14 | 3.97 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 14 | 3.97 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 14 | 3.97 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 15 | 3.97 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 15 | 3.97 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 15 | 3.97 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 2 | 3.97 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 18 | 3.97 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 9 | 3.97 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 6 | 3.97 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 18 | 3.97 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 18 | 3.97 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 18 | 3.97 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 5 | 3.97 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 5 | 3.97 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 5 | 3.97 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 2 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 2 | 3.97 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 2 | 3.97 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 6 | 3.97 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 20 | 3.97 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 17 | 3.97 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 17 | 3.97 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 17 | 3.97 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 20 | 3.97 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 20 | 3.97 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 9 | 3.97 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 9 | 3.97 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 7 | 3.97 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 7 | 3.97 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 7 | 3.97 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 1 | 3.97 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 1 | 3.97 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 20 | 3.97 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 20 | 3.97 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 17 | 3.97 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 11 | 3.97 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 11 | 3.97 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 11 | 3.97 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 11 | 3.97 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 11 | 3.97 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 11 | 3.97 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 5 | 3.97 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 5 | 3.97 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 4 | 3.97 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 4 | 3.97 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 12 | 3.97 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 12 | 3.97 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 11 | 3.97 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 11 | 3.97 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 5 | 3.97 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 5 | 3.97 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 5 | 3.97 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 5 | 3.97 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 13 | 3.97 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 13 | 3.97 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 3 | 3.97 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 3 | 3.97 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 3 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 3.97 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 13 | 3.97 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 3 | 3.97 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 3 | 3.97 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 19 | 3.97 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 19 | 3.97 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 19 | 3.97 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 10 | 3.97 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 10 | 3.97 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 10 | 3.97 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 3.97 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 3.97 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 3.97 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 3.97 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 3.97 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 3.97 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 11 | 3.97 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 11 | 3.97 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 15 | 3.97 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 15 | 3.97 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 8 | 3.97 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 8 | 3.97 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 5 | 3.97 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 5 | 3.97 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 5 | 3.97 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 7 | 3.97 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 7 | 3.97 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 3 | 3.97 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 3 | 3.97 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 12 | 3.97 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 12 | 3.97 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 14 | 3.97 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 14 | 3.97 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 15 | 3.97 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 16 | 3.97 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 16 | 3.97 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 10 | 3.97 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 10 | 3.97 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 2 | 3.97 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 2 | 3.97 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 2 | 3.97 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 17 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 17 | 3.97 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 17 | 3.97 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 13 | 3.97 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 13 | 3.97 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 12 | 3.97 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 12 | 3.97 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 3 | 3.97 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 3 | 3.97 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 2 | 3.97 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 2 | 3.97 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 16 | 3.97 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 16 | 3.97 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 4 | 3.97 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 4 | 3.97 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 4 | 3.97 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 3 | 3.97 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 3 | 3.97 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 3 | 3.97 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 2 | 3.97 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 2 | 3.97 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 2 | 3.97 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 2 | 3.97 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 2 | 3.97 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 2 | 3.97 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 18 | 3.97 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 18 | 3.97 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 18 | 3.97 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 18 | 3.97 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 18 | 3.97 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 18 | 3.97 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 10 | 3.97 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 17 | 3.97 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 17 | 3.97 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 2 | 3.97 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 1 | 3.97 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 1 | 3.97 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 9 | 3.97 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 9 | 3.97 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 10 | 3.97 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 10 | 3.97 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 10 | 3.97 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 6 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 5 | 3.97 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 5 | 3.97 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 18 | 3.97 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 18 | 3.97 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 8 | 3.97 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 8 | 3.97 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 7 | 3.97 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 7 | 3.97 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 19 | 3.97 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 19 | 3.97 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 7 | 3.97 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 13 | 3.97 |
| (1,3434) | 1:27:A:HIS:H | 1:29:A:THR:H | 12 | 3.97 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 9 | 3.97 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 14 | 3.97 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 5 | 3.97 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 5 | 3.97 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 9 | 3.97 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 19 | 3.97 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 12 | 3.97 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 12 | 3.97 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 12 | 3.97 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 14 | 3.97 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 14 | 3.97 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 14 | 3.97 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 15 | 3.97 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 3 | 3.97 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 3 | 3.97 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 3 | 3.97 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 6 | 3.97 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 6 | 3.97 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 6 | 3.97 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 6 | 3.97 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 18 | 3.97 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 11 | 3.97 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 2 | 3.97 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 1 | 3.97 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 1 | 3.97 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 4 | 3.97 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 4 | 3.97 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 8 | 3.97 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 8 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 17 | 3.97 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 17 | 3.97 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 17 | 3.97 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 17 | 3.97 |
| (1,2890) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 8 | 3.97 |
| (1,2890) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 8 | 3.97 |
| (1,2890) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 8 | 3.97 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 18 | 3.97 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 18 | 3.97 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 18 | 3.97 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 16 | 3.97 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 20 | 3.97 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 20 | 3.97 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 20 | 3.97 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 13 | 3.97 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 13 | 3.97 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 8 | 3.97 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 8 | 3.97 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 17 | 3.97 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 20 | 3.97 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 3.97 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 3.97 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 11 | 3.97 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 11 | 3.97 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 11 | 3.97 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 11 | 3.97 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 11 | 3.97 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 11 | 3.97 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 11 | 3.97 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 11 | 3.97 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 11 | 3.97 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 4 | 3.97 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 15 | 3.97 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 15 | 3.97 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 15 | 3.97 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 1 | 3.97 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 8 | 3.97 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 5 | 3.97 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 8 | 3.97 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 13 | 3.97 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 3 | 3.97 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 3 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 3 | 3.97 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 10 | 3.97 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 10 | 3.97 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 10 | 3.97 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 2 | 3.97 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 10 | 3.97 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 16 | 3.97 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 20 | 3.97 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 8 | 3.97 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 8 | 3.97 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 8 | 3.97 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 7 | 3.97 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 7 | 3.97 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 7 | 3.97 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 7 | 3.97 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 7 | 3.97 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 7 | 3.97 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 4 | 3.97 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 14 | 3.97 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 14 | 3.97 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 14 | 3.97 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 1 | 3.97 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 1 | 3.97 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 1 | 3.97 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 20 | 3.97 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 20 | 3.97 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 20 | 3.97 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 3 | 3.97 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 3 | 3.97 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 3 | 3.97 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 15 | 3.97 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 15 | 3.97 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 15 | 3.97 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 11 | 3.97 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 11 | 3.97 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 10 | 3.97 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 10 | 3.97 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 10 | 3.97 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 20 | 3.97 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 20 | 3.97 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 20 | 3.97 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 8 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 8 | 3.97 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 8 | 3.97 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 17 | 3.97 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 17 | 3.97 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 17 | 3.97 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 7 | 3.97 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 7 | 3.97 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 2 | 3.97 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 19 | 3.97 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 19 | 3.97 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 19 | 3.97 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 19 | 3.97 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 19 | 3.97 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 19 | 3.97 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 14 | 3.97 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 18 | 3.97 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 20 | 3.97 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 3.97 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 20 | 3.97 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 20 | 3.97 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 20 | 3.97 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 20 | 3.97 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 20 | 3.97 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 20 | 3.97 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 15 | 3.97 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 11 | 3.97 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 11 | 3.97 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 11 | 3.97 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 8 | 3.97 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 8 | 3.97 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 8 | 3.97 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 4 | 3.97 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 10 | 3.97 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 10 | 3.97 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 10 | 3.97 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 6 | 3.97 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 6 | 3.97 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 6 | 3.97 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 4 | 3.97 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 4 | 3.97 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 4 | 3.97 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 16 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 19 | 3.97 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 19 | 3.97 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 19 | 3.97 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 19 | 3.97 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 2 | 3.97 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 7 | 3.97 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 18 | 3.97 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 20 | 3.97 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 11 | 3.97 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 16 | 3.97 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 16 | 3.97 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 16 | 3.97 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 16 | 3.97 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 4 | 3.97 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 4 | 3.97 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 5 | 3.97 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 5 | 3.97 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 9 | 3.97 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 9 | 3.97 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 9 | 3.97 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 19 | 3.97 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 9 | 3.97 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 9 | 3.97 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 9 | 3.97 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 7 | 3.97 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 7 | 3.97 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 15 | 3.97 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 15 | 3.97 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 18 | 3.97 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 18 | 3.97 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 19 | 3.97 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 19 | 3.97 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 20 | 3.97 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 20 | 3.97 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 20 | 3.97 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 20 | 3.97 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 20 | 3.97 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 20 | 3.97 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 12 | 3.97 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 12 | 3.97 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 12 | 3.97 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 12 | 3.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 12 | 3.97 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 12 | 3.97 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 6 | 3.97 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 6 | 3.97 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 6 | 3.97 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 20 | 3.97 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 20 | 3.97 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 20 | 3.97 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 7 | 3.97 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 7 | 3.97 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 7 | 3.97 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 19 | 3.97 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 19 | 3.97 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 19 | 3.97 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 16 | 3.97 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 16 | 3.96 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 16 | 3.96 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 19 | 3.96 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 19 | 3.96 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 15 | 3.96 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 15 | 3.96 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 3 | 3.96 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 3 | 3.96 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 9 | 3.96 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 9 | 3.96 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 9 | 3.96 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 9 | 3.96 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 7 | 3.96 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 7 | 3.96 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 12 | 3.96 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 12 | 3.96 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 17 | 3.96 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 17 | 3.96 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 11 | 3.96 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 11 | 3.96 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 17 | 3.96 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 17 | 3.96 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 4 | 3.96 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 4 | 3.96 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 17 | 3.96 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 17 | 3.96 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 17 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 17 | 3.96 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 17 | 3.96 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 17 | 3.96 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 12 | 3.96 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 12 | 3.96 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 12 | 3.96 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 12 | 3.96 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 12 | 3.96 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 12 | 3.96 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 14 | 3.96 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 14 | 3.96 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 15 | 3.96 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 15 | 3.96 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 19 | 3.96 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 19 | 3.96 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 7 | 3.96 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 7 | 3.96 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 19 | 3.96 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 19 | 3.96 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 6 | 3.96 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 6 | 3.96 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 1 | 3.96 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 1 | 3.96 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 4 | 3.96 |
| (1,9141) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 4 | 3.96 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 20 | 3.96 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 20 | 3.96 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 20 | 3.96 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 20 | 3.96 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 11 | 3.96 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 11 | 3.96 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 11 | 3.96 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 11 | 3.96 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 11 | 3.96 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 11 | 3.96 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 7 | 3.96 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 7 | 3.96 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 7 | 3.96 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 7 | 3.96 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 7 | 3.96 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 7 | 3.96 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 4 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 4 | 3.96 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 3.96 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 3.96 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 14 | 3.96 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 14 | 3.96 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 11 | 3.96 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 11 | 3.96 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 11 | 3.96 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 11 | 3.96 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 14 | 3.96 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 14 | 3.96 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 17 | 3.96 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 17 | 3.96 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 7 | 3.96 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 7 | 3.96 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 10 | 3.96 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 10 | 3.96 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 5 | 3.96 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 5 | 3.96 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 10 | 3.96 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 10 | 3.96 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 20 | 3.96 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 20 | 3.96 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 4 | 3.96 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 4 | 3.96 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 5 | 3.96 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 5 | 3.96 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 19 | 3.96 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 19 | 3.96 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 17 | 3.96 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 17 | 3.96 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 17 | 3.96 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 17 | 3.96 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 17 | 3.96 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 17 | 3.96 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG12 | 13 | 3.96 |
| (1,8845) | 1:60:A:LEU:HG | 1:158:A:ILE:HG13 | 13 | 3.96 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 6 | 3.96 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 6 | 3.96 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 6 | 3.96 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 6 | 3.96 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 6 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 6 | 3.96 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 10 | 3.96 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 10 | 3.96 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 10 | 3.96 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 10 | 3.96 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 10 | 3.96 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 10 | 3.96 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 18 | 3.96 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 18 | 3.96 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 20 | 3.96 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 20 | 3.96 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 20 | 3.96 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 20 | 3.96 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 7 | 3.96 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 7 | 3.96 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 9 | 3.96 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 9 | 3.96 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 15 | 3.96 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 15 | 3.96 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 16 | 3.96 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 16 | 3.96 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 2 | 3.96 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 2 | 3.96 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 17 | 3.96 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 17 | 3.96 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 16 | 3.96 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 16 | 3.96 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 16 | 3.96 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 16 | 3.96 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 6 | 3.96 |
| (1,8483) | 1:154:A:SER:H | 1:156:A:ILE:H | 13 | 3.96 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 2 | 3.96 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 8 | 3.96 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 7 | 3.96 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 10 | 3.96 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 10 | 3.96 |
| (1,8355) | 1:135:A:GLU:H | 1:137:A:ALA:H | 4 | 3.96 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 4 | 3.96 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 15 | 3.96 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 15 | 3.96 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 15 | 3.96 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 12 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 12 | 3.96 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 5 | 3.96 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 5 | 3.96 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 3 | 3.96 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD21 | 5 | 3.96 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD22 | 5 | 3.96 |
| (1,8186) | 1:103:A:PHE:HA | 1:160:A:LEU:HD23 | 5 | 3.96 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 18 | 3.96 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 18 | 3.96 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 18 | 3.96 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 4 | 3.96 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 16 | 3.96 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG21 | 5 | 3.96 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG22 | 5 | 3.96 |
| (1,8063) | 1:89:A:ILE:H | 1:156:A:ILE:HG23 | 5 | 3.96 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 8 | 3.96 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 3 | 3.96 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 6 | 3.96 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 19 | 3.96 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 17 | 3.96 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 15 | 3.96 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 15 | 3.96 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 15 | 3.96 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 14 | 3.96 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 11 | 3.96 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 1 | 3.96 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 6 | 3.96 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 19 | 3.96 |
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 4 | 3.96 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 4 | 3.96 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 4 | 3.96 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 11 | 3.96 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 11 | 3.96 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 11 | 3.96 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 11 | 3.96 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 12 | 3.96 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 9 | 3.96 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 9 | 3.96 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 19 | 3.96 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 19 | 3.96 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 11 | 3.96 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 11 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 17 | 3.96 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 17 | 3.96 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 11 | 3.96 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 11 | 3.96 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 11 | 3.96 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 11 | 3.96 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 14 | 3.96 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 14 | 3.96 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 14 | 3.96 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 14 | 3.96 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 2 | 3.96 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 2 | 3.96 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 7 | 3.96 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 7 | 3.96 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 13 | 3.96 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 20 | 3.96 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 20 | 3.96 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 1 | 3.96 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 1 | 3.96 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 3 | 3.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 1 | 3.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 1 | 3.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 1 | 3.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 1 | 3.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 1 | 3.96 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 1 | 3.96 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 14 | 3.96 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 12 | 3.96 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 12 | 3.96 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 7 | 3.96 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 8 | 3.96 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 8 | 3.96 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 8 | 3.96 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 8 | 3.96 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 16 | 3.96 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 16 | 3.96 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 16 | 3.96 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 4 | 3.96 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 4 | 3.96 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 4 | 3.96 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 3 | 3.96 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 13 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 13 | 3.96 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 15 | 3.96 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 15 | 3.96 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 15 | 3.96 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 12 | 3.96 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 19 | 3.96 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 1 | 3.96 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 1 | 3.96 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 1 | 3.96 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 10 | 3.96 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 10 | 3.96 |
| (1,7144) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 10 | 3.96 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 17 | 3.96 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 6 | 3.96 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 7 | 3.96 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 6 | 3.96 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 6 | 3.96 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 6 | 3.96 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 15 | 3.96 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 7 | 3.96 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 9 | 3.96 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 9 | 3.96 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 9 | 3.96 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 14 | 3.96 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 9 | 3.96 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 11 | 3.96 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 18 | 3.96 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 18 | 3.96 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 18 | 3.96 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 11 | 3.96 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 17 | 3.96 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 4 | 3.96 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 12 | 3.96 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 17 | 3.96 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 17 | 3.96 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 17 | 3.96 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 4 | 3.96 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 1 | 3.96 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 1 | 3.96 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 1 | 3.96 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 10 | 3.96 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 10 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 10 | 3.96 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 16 | 3.96 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 18 | 3.96 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 18 | 3.96 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 18 | 3.96 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 19 | 3.96 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 17 | 3.96 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 17 | 3.96 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 17 | 3.96 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 4 | 3.96 |
| (1,6117) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 19 | 3.96 |
| (1,6117) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 19 | 3.96 |
| (1,6117) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 19 | 3.96 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 12 | 3.96 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 12 | 3.96 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 12 | 3.96 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 13 | 3.96 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 13 | 3.96 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 13 | 3.96 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 18 | 3.96 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 18 | 3.96 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 18 | 3.96 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 3 | 3.96 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 3 | 3.96 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 11 | 3.96 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 18 | 3.96 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 19 | 3.96 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 10 | 3.96 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 11 | 3.96 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 5 | 3.96 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 5 | 3.96 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 1 | 3.96 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 1 | 3.96 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 1 | 3.96 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 1 | 3.96 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 1 | 3.96 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 1 | 3.96 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 3 | 3.96 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 3 | 3.96 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 3 | 3.96 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 9 | 3.96 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 9 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 9 | 3.96 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 18 | 3.96 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 18 | 3.96 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 18 | 3.96 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 20 | 3.96 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 2 | 3.96 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 2 | 3.96 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 9 | 3.96 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 11 | 3.96 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 3 | 3.96 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 6 | 3.96 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 6 | 3.96 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 6 | 3.96 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 16 | 3.96 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 16 | 3.96 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 16 | 3.96 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 11 | 3.96 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 7 | 3.96 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 7 | 3.96 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 7 | 3.96 |
| (1,5363) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 5 | 3.96 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 15 | 3.96 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 5 | 3.96 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 18 | 3.96 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 18 | 3.96 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 18 | 3.96 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 19 | 3.96 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 19 | 3.96 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 19 | 3.96 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 6 | 3.96 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 6 | 3.96 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 6 | 3.96 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 2 | 3.96 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 2 | 3.96 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 2 | 3.96 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 13 | 3.96 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 11 | 3.96 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 7 | 3.96 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 7 | 3.96 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 7 | 3.96 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 11 | 3.96 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 11 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 11 | 3.96 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 9 | 3.96 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 20 | 3.96 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 6 | 3.96 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 18 | 3.96 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 12 | 3.96 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 12 | 3.96 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 18 | 3.96 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 18 | 3.96 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 7 | 3.96 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 8 | 3.96 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 11 | 3.96 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 4 | 3.96 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 4 | 3.96 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 4 | 3.96 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 4 | 3.96 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 4 | 3.96 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 4 | 3.96 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 4 | 3.96 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 4 | 3.96 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 4 | 3.96 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 11 | 3.96 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 11 | 3.96 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 11 | 3.96 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 14 | 3.96 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 14 | 3.96 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 14 | 3.96 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 15 | 3.96 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 15 | 3.96 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 15 | 3.96 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 15 | 3.96 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 15 | 3.96 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 15 | 3.96 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 15 | 3.96 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 15 | 3.96 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 15 | 3.96 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 1 | 3.96 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 20 | 3.96 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 20 | 3.96 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 20 | 3.96 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 17 | 3.96 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 6 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 6 | 3.96 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 6 | 3.96 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 14 | 3.96 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 14 | 3.96 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 14 | 3.96 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 9 | 3.96 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 17 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 17 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 17 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 17 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 17 | 3.96 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 17 | 3.96 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 16 | 3.96 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 16 | 3.96 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 17 | 3.96 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 17 | 3.96 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 11 | 3.96 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 11 | 3.96 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 17 | 3.96 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 17 | 3.96 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 4 | 3.96 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 4 | 3.96 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 17 | 3.96 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 17 | 3.96 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 17 | 3.96 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 17 | 3.96 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 4 | 3.96 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 4 | 3.96 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 12 | 3.96 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 12 | 3.96 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 12 | 3.96 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 17 | 3.96 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 19 | 3.96 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 19 | 3.96 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 13 | 3.96 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 11 | 3.96 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 11 | 3.96 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 11 | 3.96 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 11 | 3.96 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 11 | 3.96 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 11 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 16 | 3.96 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 16 | 3.96 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 16 | 3.96 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 16 | 3.96 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 16 | 3.96 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 16 | 3.96 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 7 | 3.96 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 7 | 3.96 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 7 | 3.96 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 7 | 3.96 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 7 | 3.96 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 7 | 3.96 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 3.96 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 3.96 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 14 | 3.96 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 14 | 3.96 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 11 | 3.96 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 11 | 3.96 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 19 | 3.96 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 19 | 3.96 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 11 | 3.96 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 11 | 3.96 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 14 | 3.96 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 14 | 3.96 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 7 | 3.96 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 7 | 3.96 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 10 | 3.96 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 10 | 3.96 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 9 | 3.96 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 9 | 3.96 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 2 | 3.96 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 2 | 3.96 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 2 | 3.96 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 11 | 3.96 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 11 | 3.96 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 7 | 3.96 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 5 | 3.96 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 5 | 3.96 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 1 | 3.96 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 1 | 3.96 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 1 | 3.96 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 17 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 17 | 3.96 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 17 | 3.96 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 17 | 3.96 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 17 | 3.96 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 17 | 3.96 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 5 | 3.96 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 5 | 3.96 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 6 | 3.96 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 6 | 3.96 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 6 | 3.96 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 6 | 3.96 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 6 | 3.96 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 6 | 3.96 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 15 | 3.96 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 10 | 3.96 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 10 | 3.96 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 10 | 3.96 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 10 | 3.96 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 10 | 3.96 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 10 | 3.96 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 14 | 3.96 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 14 | 3.96 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 14 | 3.96 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 11 | 3.96 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 11 | 3.96 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 9 | 3.96 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 9 | 3.96 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 17 | 3.96 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 17 | 3.96 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 17 | 3.96 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 15 | 3.96 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 15 | 3.96 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 2 | 3.96 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 2 | 3.96 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 15 | 3.96 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 15 | 3.96 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 15 | 3.96 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 15 | 3.96 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 15 | 3.96 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 15 | 3.96 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 8 | 3.96 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 8 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 8 | 3.96 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 16 | 3.96 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 16 | 3.96 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 16 | 3.96 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 4 | 3.96 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 4 | 3.96 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 4 | 3.96 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 9 | 3.96 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 3 | 3.96 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 13 | 3.96 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 13 | 3.96 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 15 | 3.96 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 15 | 3.96 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 15 | 3.96 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 12 | 3.96 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 19 | 3.96 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 1 | 3.96 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 1 | 3.96 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 1 | 3.96 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 10 | 3.96 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 10 | 3.96 |
| (1,3242) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 10 | 3.96 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 17 | 3.96 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 6 | 3.96 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 7 | 3.96 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 6 | 3.96 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 6 | 3.96 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 6 | 3.96 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 12 | 3.96 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 3.96 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 3.96 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 15 | 3.96 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 7 | 3.96 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 9 | 3.96 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 9 | 3.96 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 9 | 3.96 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 14 | 3.96 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 14 | 3.96 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 14 | 3.96 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 14 | 3.96 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 9 | 3.96 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 11 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 18 | 3.96 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 18 | 3.96 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 18 | 3.96 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 11 | 3.96 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 12 | 3.96 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 12 | 3.96 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 17 | 3.96 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 4 | 3.96 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 12 | 3.96 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 7 | 3.96 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 7 | 3.96 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 7 | 3.96 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 17 | 3.96 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 17 | 3.96 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 17 | 3.96 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 20 | 3.96 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 4 | 3.96 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 19 | 3.96 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 19 | 3.96 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 19 | 3.96 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 1 | 3.96 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 1 | 3.96 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 1 | 3.96 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 19 | 3.96 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 19 | 3.96 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 10 | 3.96 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 10 | 3.96 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 10 | 3.96 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 16 | 3.96 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 18 | 3.96 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 18 | 3.96 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 18 | 3.96 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 19 | 3.96 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 17 | 3.96 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 17 | 3.96 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 17 | 3.96 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 12 | 3.96 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 12 | 3.96 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 12 | 3.96 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 5 | 3.96 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 5 | 3.96 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 5 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 4 | 3.96 |
| (1,1690) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 19 | 3.96 |
| (1,1690) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 19 | 3.96 |
| (1,1690) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 19 | 3.96 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 12 | 3.96 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 12 | 3.96 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 12 | 3.96 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 13 | 3.96 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 13 | 3.96 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 13 | 3.96 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 18 | 3.96 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 18 | 3.96 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 18 | 3.96 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 3 | 3.96 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 3 | 3.96 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 11 | 3.96 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 19 | 3.96 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 3.96 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 3.96 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 3.96 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 11 | 3.96 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 5 | 3.96 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 2 | 3.96 |
| (1,1474) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 7 | 3.96 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 9 | 3.96 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 5 | 3.96 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 19 | 3.96 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 19 | 3.96 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 1 | 3.96 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 1 | 3.96 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 1 | 3.96 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 1 | 3.96 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 1 | 3.96 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 1 | 3.96 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 3 | 3.96 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 3 | 3.96 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 3 | 3.96 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 9 | 3.96 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 9 | 3.96 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 9 | 3.96 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 20 | 3.96 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 20 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 1 | 3.96 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 1 | 3.96 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 1 | 3.96 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 17 | 3.96 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 18 | 3.96 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 18 | 3.96 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 18 | 3.96 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 12 | 3.96 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 12 | 3.96 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 12 | 3.96 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 19 | 3.96 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 20 | 3.96 |
| (1,960) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 17 | 3.96 |
| (1,960) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 17 | 3.96 |
| (1,960) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 17 | 3.96 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 2 | 3.96 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 19 | 3.96 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 19 | 3.96 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 19 | 3.96 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 2 | 3.96 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 17 | 3.96 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 17 | 3.96 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 9 | 3.96 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 3 | 3.96 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 3 | 3.96 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 3 | 3.96 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 11 | 3.96 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 3 | 3.96 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 6 | 3.96 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 6 | 3.96 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 6 | 3.96 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 16 | 3.96 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 16 | 3.96 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 16 | 3.96 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 8 | 3.96 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 3.96 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 3.96 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 3.96 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 11 | 3.96 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 2 | 3.96 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 19 | 3.96 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 19 | 3.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 19 | 3.96 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 10 | 3.96 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 5 | 3.96 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 1 | 3.96 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 9 | 3.95 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 14 | 3.95 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 16 | 3.95 |
| (4,105) | 1:90:A:ASN:CB | 1:4:A:GLU:H | 12 | 3.95 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 19 | 3.95 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 19 | 3.95 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 13 | 3.95 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 13 | 3.95 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 1 | 3.95 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 1 | 3.95 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 17 | 3.95 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 17 | 3.95 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 17 | 3.95 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 17 | 3.95 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 2 | 3.95 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 2 | 3.95 |
| (1,9428) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 10 | 3.95 |
| (1,9428) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 10 | 3.95 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 5 | 3.95 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 5 | 3.95 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 5 | 3.95 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 5 | 3.95 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 8 | 3.95 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 8 | 3.95 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 8 | 3.95 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 8 | 3.95 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 20 | 3.95 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 20 | 3.95 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 20 | 3.95 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 20 | 3.95 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA2 | 2 | 3.95 |
| (1,9380) | 1:118:A:ALA:H | 1:120:A:GLY:HA3 | 2 | 3.95 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 10 | 3.95 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 10 | 3.95 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 10 | 3.95 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 10 | 3.95 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 10 | 3.95 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 10 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 9 | 3.95 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 9 | 3.95 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 8 | 3.95 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 8 | 3.95 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 8 | 3.95 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 8 | 3.95 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 4 | 3.95 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 4 | 3.95 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 16 | 3.95 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 16 | 3.95 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 16 | 3.95 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 16 | 3.95 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 3 | 3.95 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 3 | 3.95 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 6 | 3.95 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 6 | 3.95 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 14 | 3.95 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 14 | 3.95 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 9 | 3.95 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 9 | 3.95 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 9 | 3.95 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 9 | 3.95 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 9 | 3.95 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 9 | 3.95 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 8 | 3.95 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 8 | 3.95 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 8 | 3.95 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 8 | 3.95 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 8 | 3.95 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 8 | 3.95 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 15 | 3.95 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 15 | 3.95 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 18 | 3.95 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 18 | 3.95 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 3 | 3.95 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 3 | 3.95 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 4 | 3.95 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 4 | 3.95 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 4 | 3.95 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 4 | 3.95 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 4 | 3.95 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 4 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 6 | 3.95 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 6 | 3.95 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 11 | 3.95 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 11 | 3.95 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 18 | 3.95 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 18 | 3.95 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 14 | 3.95 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 14 | 3.95 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 14 | 3.95 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 14 | 3.95 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 14 | 3.95 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 14 | 3.95 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 10 | 3.95 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 10 | 3.95 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 10 | 3.95 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 10 | 3.95 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 10 | 3.95 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 10 | 3.95 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 8 | 3.95 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 8 | 3.95 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 2 | 3.95 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 2 | 3.95 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 2 | 3.95 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 2 | 3.95 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 7 | 3.95 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 7 | 3.95 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 13 | 3.95 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 13 | 3.95 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 16 | 3.95 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 16 | 3.95 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 10 | 3.95 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 10 | 3.95 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 9 | 3.95 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 9 | 3.95 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 10 | 3.95 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 10 | 3.95 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 10 | 3.95 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 10 | 3.95 |
| (1,8700) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 1 | 3.95 |
| (1,8700) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 1 | 3.95 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 18 | 3.95 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 18 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 18 | 3.95 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 18 | 3.95 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 18 | 3.95 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 18 | 3.95 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 18 | 3.95 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 18 | 3.95 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 5 | 3.95 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 5 | 3.95 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 15 | 3.95 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 15 | 3.95 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 16 | 3.95 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 16 | 3.95 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 18 | 3.95 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 18 | 3.95 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 11 | 3.95 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 11 | 3.95 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 2 | 3.95 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 2 | 3.95 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 3.95 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 20 | 3.95 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 7 | 3.95 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 7 | 3.95 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 12 | 3.95 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 12 | 3.95 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 10 | 3.95 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 10 | 3.95 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 10 | 3.95 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 10 | 3.95 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 10 | 3.95 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 10 | 3.95 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 10 | 3.95 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 10 | 3.95 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 10 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 14 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 14 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 14 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 14 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 14 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 14 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 14 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 14 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 14 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 17 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 17 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 17 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 17 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 17 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 17 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 17 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 17 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 17 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 19 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 19 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 19 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 19 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 19 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 19 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 19 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 19 | 3.95 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 19 | 3.95 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB2 | 2 | 3.95 |
| (1,8464) | 1:150:A:VAL:HA | 1:151:A:PHE:HB3 | 2 | 3.95 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 11 | 3.95 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 8 | 3.95 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 8 | 3.95 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 8 | 3.95 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 9 | 3.95 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 9 | 3.95 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 9 | 3.95 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 7 | 3.95 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 7 | 3.95 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 19 | 3.95 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 19 | 3.95 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 19 | 3.95 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 18 | 3.95 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 18 | 3.95 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 18 | 3.95 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 13 | 3.95 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 17 | 3.95 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 4 | 3.95 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 4 | 3.95 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 5 | 3.95 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 5 | 3.95 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 8 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 18 | 3.95 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 3 | 3.95 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 3 | 3.95 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 10 | 3.95 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 10 | 3.95 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 10 | 3.95 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 14 | 3.95 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 14 | 3.95 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 3 | 3.95 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 3 | 3.95 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 3 | 3.95 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 3 | 3.95 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 3 | 3.95 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 3 | 3.95 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 3 | 3.95 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 3 | 3.95 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 3 | 3.95 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 8 | 3.95 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 8 | 3.95 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 8 | 3.95 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 15 | 3.95 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 4 | 3.95 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 4 | 3.95 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 4 | 3.95 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 6 | 3.95 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 6 | 3.95 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 6 | 3.95 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 8 | 3.95 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 14 | 3.95 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 14 | 3.95 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 14 | 3.95 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 11 | 3.95 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 9 | 3.95 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 17 | 3.95 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 12 | 3.95 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 12 | 3.95 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 11 | 3.95 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 11 | 3.95 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 11 | 3.95 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 11 | 3.95 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 11 | 3.95 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 11 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 20 | 3.95 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 5 | 3.95 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 15 | 3.95 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 15 | 3.95 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 15 | 3.95 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 7 | 3.95 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 9 | 3.95 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 8 | 3.95 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 8 | 3.95 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 8 | 3.95 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 8 | 3.95 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 8 | 3.95 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 8 | 3.95 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 8 | 3.95 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 8 | 3.95 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 8 | 3.95 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 6 | 3.95 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 6 | 3.95 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 6 | 3.95 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 6 | 3.95 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 6 | 3.95 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 6 | 3.95 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 6 | 3.95 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 6 | 3.95 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 6 | 3.95 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 18 | 3.95 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 11 | 3.95 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 17 | 3.95 |
| (1,7748) | 1:55:A:VAL:HG11 | 1:139:A:PHE:H | 15 | 3.95 |
| (1,7748) | 1:55:A:VAL:HG12 | 1:139:A:PHE:H | 15 | 3.95 |
| (1,7748) | 1:55:A:VAL:HG13 | 1:139:A:PHE:H | 15 | 3.95 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 8 | 3.95 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 8 | 3.95 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 3 | 3.95 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 3 | 3.95 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 15 | 3.95 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 15 | 3.95 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 1 | 3.95 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 20 | 3.95 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 20 | 3.95 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 11 | 3.95 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 11 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 20 | 3.95 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 20 | 3.95 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 18 | 3.95 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 18 | 3.95 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 2 | 3.95 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 20 | 3.95 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 16 | 3.95 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 16 | 3.95 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 16 | 3.95 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 8 | 3.95 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 18 | 3.95 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 18 | 3.95 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 5 | 3.95 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 5 | 3.95 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 8 | 3.95 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 8 | 3.95 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 8 | 3.95 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 9 | 3.95 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 1 | 3.95 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 5 | 3.95 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 5 | 3.95 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 19 | 3.95 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 19 | 3.95 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 20 | 3.95 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 20 | 3.95 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 7 | 3.95 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 16 | 3.95 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 10 | 3.95 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 16 | 3.95 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 16 | 3.95 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 16 | 3.95 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 8 | 3.95 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 20 | 3.95 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 20 | 3.95 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 19 | 3.95 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 19 | 3.95 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 19 | 3.95 |
| (1,6702) | 1:16:A:SER:H | 1:22:A:VAL:H | 20 | 3.95 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 19 | 3.95 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 6 | 3.95 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 3 | 3.95 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 3 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 3 | 3.95 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 6 | 3.95 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 6 | 3.95 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 6 | 3.95 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 9 | 3.95 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 14 | 3.95 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 14 | 3.95 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 14 | 3.95 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 6 | 3.95 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 6 | 3.95 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 6 | 3.95 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 15 | 3.95 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 15 | 3.95 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 15 | 3.95 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 1 | 3.95 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 1 | 3.95 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 1 | 3.95 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 17 | 3.95 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 17 | 3.95 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 17 | 3.95 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 12 | 3.95 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 12 | 3.95 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 12 | 3.95 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 12 | 3.95 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 12 | 3.95 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 12 | 3.95 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 12 | 3.95 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 12 | 3.95 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 12 | 3.95 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 12 | 3.95 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 3 | 3.95 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 3 | 3.95 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 3 | 3.95 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 14 | 3.95 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 4 | 3.95 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 4 | 3.95 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 4 | 3.95 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 9 | 3.95 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 2 | 3.95 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 2 | 3.95 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 2 | 3.95 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 17 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 17 | 3.95 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 19 | 3.95 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 19 | 3.95 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 19 | 3.95 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 12 | 3.95 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 5 | 3.95 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 5 | 3.95 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 5 | 3.95 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 5 | 3.95 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 5 | 3.95 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 5 | 3.95 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 5 | 3.95 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 5 | 3.95 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 5 | 3.95 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 11 | 3.95 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 11 | 3.95 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 11 | 3.95 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 9 | 3.95 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 9 | 3.95 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 9 | 3.95 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 9 | 3.95 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 9 | 3.95 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 9 | 3.95 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 7 | 3.95 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 14 | 3.95 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 1 | 3.95 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 1 | 3.95 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 1 | 3.95 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 8 | 3.95 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 8 | 3.95 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 8 | 3.95 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 1 | 3.95 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 1 | 3.95 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 1 | 3.95 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 17 | 3.95 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 17 | 3.95 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 17 | 3.95 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 3.95 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 5 | 3.95 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 18 | 3.95 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 18 | 3.95 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 18 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 11 | 3.95 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 11 | 3.95 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 11 | 3.95 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 20 | 3.95 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 1 | 3.95 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 15 | 3.95 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 15 | 3.95 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 10 | 3.95 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 18 | 3.95 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 18 | 3.95 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 18 | 3.95 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 1 | 3.95 |
| (1,5493) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 6 | 3.95 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 12 | 3.95 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 9 | 3.95 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 9 | 3.95 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 9 | 3.95 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 9 | 3.95 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 9 | 3.95 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 9 | 3.95 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 9 | 3.95 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 9 | 3.95 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 9 | 3.95 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 2 | 3.95 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 2 | 3.95 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 2 | 3.95 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 2 | 3.95 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 2 | 3.95 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 2 | 3.95 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 18 | 3.95 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 10 | 3.95 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 10 | 3.95 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 10 | 3.95 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 16 | 3.95 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 17 | 3.95 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 9 | 3.95 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 9 | 3.95 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 9 | 3.95 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 7 | 3.95 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 9 | 3.95 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 9 | 3.95 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 9 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 15 | 3.95 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 15 | 3.95 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 15 | 3.95 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 18 | 3.95 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 18 | 3.95 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 18 | 3.95 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 7 | 3.95 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 14 | 3.95 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 16 | 3.95 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 16 | 3.95 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 16 | 3.95 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 4 | 3.95 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 4 | 3.95 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 4 | 3.95 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 11 | 3.95 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 3 | 3.95 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 4 | 3.95 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 6 | 3.95 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 7 | 3.95 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 7 | 3.95 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 7 | 3.95 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 16 | 3.95 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 16 | 3.95 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 16 | 3.95 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 19 | 3.95 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 19 | 3.95 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 19 | 3.95 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 4 | 3.95 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 4 | 3.95 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 4 | 3.95 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 4 | 3.95 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 4 | 3.95 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 4 | 3.95 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 4 | 3.95 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 4 | 3.95 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 4 | 3.95 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 20 | 3.95 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 20 | 3.95 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 20 | 3.95 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 10 | 3.95 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 13 | 3.95 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 13 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 13 | 3.95 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 13 | 3.95 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 10 | 3.95 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 15 | 3.95 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 15 | 3.95 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 15 | 3.95 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 19 | 3.95 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 19 | 3.95 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 19 | 3.95 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 11 | 3.95 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 11 | 3.95 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 11 | 3.95 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 14 | 3.95 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 17 | 3.95 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 9 | 3.95 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 7 | 3.95 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 7 | 3.95 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 7 | 3.95 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 19 | 3.95 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 18 | 3.95 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 14 | 3.95 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 14 | 3.95 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 14 | 3.95 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 14 | 3.95 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 14 | 3.95 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 14 | 3.95 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 2 | 3.95 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 2 | 3.95 |
| (1,4412) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 10 | 3.95 |
| (1,4412) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 10 | 3.95 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 5 | 3.95 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 5 | 3.95 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 5 | 3.95 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 5 | 3.95 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 17 | 3.95 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 13 | 3.95 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 10 | 3.95 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 10 | 3.95 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 10 | 3.95 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 10 | 3.95 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 9 | 3.95 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 9 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 8 | 3.95 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 8 | 3.95 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 8 | 3.95 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 8 | 3.95 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 10 | 3.95 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 10 | 3.95 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 10 | 3.95 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 16 | 3.95 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 16 | 3.95 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 16 | 3.95 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 16 | 3.95 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 3 | 3.95 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 3 | 3.95 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 13 | 3.95 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 13 | 3.95 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 13 | 3.95 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 6 | 3.95 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 6 | 3.95 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 3 | 3.95 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 3 | 3.95 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 2 | 3.95 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 9 | 3.95 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 9 | 3.95 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 9 | 3.95 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 9 | 3.95 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 9 | 3.95 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 9 | 3.95 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 8 | 3.95 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 8 | 3.95 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 8 | 3.95 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 8 | 3.95 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 8 | 3.95 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 8 | 3.95 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 10 | 3.95 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 10 | 3.95 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 17 | 3.95 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 17 | 3.95 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 15 | 3.95 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 15 | 3.95 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 18 | 3.95 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 18 | 3.95 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 14 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 14 | 3.95 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 14 | 3.95 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 14 | 3.95 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 2 | 3.95 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 14 | 3.95 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 14 | 3.95 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 14 | 3.95 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 14 | 3.95 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 14 | 3.95 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 14 | 3.95 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 7 | 3.95 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 7 | 3.95 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 13 | 3.95 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 13 | 3.95 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 16 | 3.95 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 16 | 3.95 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 5 | 3.95 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 10 | 3.95 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 10 | 3.95 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 10 | 3.95 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 10 | 3.95 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 3 | 3.95 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 3 | 3.95 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 3 | 3.95 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 3 | 3.95 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 5 | 3.95 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 5 | 3.95 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 5 | 3.95 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 18 | 3.95 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 18 | 3.95 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 18 | 3.95 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 18 | 3.95 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 18 | 3.95 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 18 | 3.95 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 18 | 3.95 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 18 | 3.95 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 3 | 3.95 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 3 | 3.95 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 3 | 3.95 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 5 | 3.95 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 5 | 3.95 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 18 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 18 | 3.95 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 5 | 3.95 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 5 | 3.95 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 8 | 3.95 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 8 | 3.95 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 8 | 3.95 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 9 | 3.95 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 8 | 3.95 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 8 | 3.95 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 8 | 3.95 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 2 | 3.95 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 1 | 3.95 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 3 | 3.95 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 5 | 3.95 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 5 | 3.95 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 19 | 3.95 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 19 | 3.95 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 20 | 3.95 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 20 | 3.95 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 17 | 3.95 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 17 | 3.95 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 7 | 3.95 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 16 | 3.95 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 10 | 3.95 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 16 | 3.95 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 16 | 3.95 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 16 | 3.95 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 8 | 3.95 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 20 | 3.95 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 20 | 3.95 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 13 | 3.95 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 19 | 3.95 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 19 | 3.95 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 19 | 3.95 |
| (1,2608) | 1:16:A:SER:H | 1:22:A:VAL:H | 20 | 3.95 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 3 | 3.95 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 7 | 3.95 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 7 | 3.95 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 7 | 3.95 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 7 | 3.95 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 7 | 3.95 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 7 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 19 | 3.95 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 6 | 3.95 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 3 | 3.95 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 3 | 3.95 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 3 | 3.95 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 17 | 3.95 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 3 | 3.95 |
| (1,2262) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 9 | 3.95 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 6 | 3.95 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 6 | 3.95 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 6 | 3.95 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 9 | 3.95 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 19 | 3.95 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 14 | 3.95 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 14 | 3.95 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 14 | 3.95 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 6 | 3.95 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 6 | 3.95 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 6 | 3.95 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 15 | 3.95 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 15 | 3.95 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 15 | 3.95 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 1 | 3.95 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 1 | 3.95 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 1 | 3.95 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 17 | 3.95 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 17 | 3.95 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 17 | 3.95 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 12 | 3.95 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 12 | 3.95 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 12 | 3.95 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 12 | 3.95 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 12 | 3.95 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 12 | 3.95 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 12 | 3.95 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 12 | 3.95 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 12 | 3.95 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 12 | 3.95 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 3 | 3.95 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 3 | 3.95 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 3 | 3.95 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 14 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 4 | 3.95 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 4 | 3.95 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 4 | 3.95 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 9 | 3.95 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 2 | 3.95 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 2 | 3.95 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 2 | 3.95 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 17 | 3.95 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 17 | 3.95 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 19 | 3.95 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 19 | 3.95 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 19 | 3.95 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 12 | 3.95 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 5 | 3.95 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 5 | 3.95 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 5 | 3.95 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 5 | 3.95 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 5 | 3.95 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 5 | 3.95 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 5 | 3.95 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 5 | 3.95 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 5 | 3.95 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 18 | 3.95 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 18 | 3.95 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 18 | 3.95 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 4 | 3.95 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 11 | 3.95 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 11 | 3.95 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 11 | 3.95 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 9 | 3.95 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 12 | 3.95 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 12 | 3.95 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 12 | 3.95 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 12 | 3.95 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 12 | 3.95 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 12 | 3.95 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 15 | 3.95 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 9 | 3.95 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 9 | 3.95 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 9 | 3.95 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 9 | 3.95 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 9 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 9 | 3.95 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 3 | 3.95 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 3 | 3.95 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 3 | 3.95 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 8 | 3.95 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 12 | 3.95 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 7 | 3.95 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 14 | 3.95 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 1 | 3.95 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 1 | 3.95 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 1 | 3.95 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 8 | 3.95 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 8 | 3.95 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 8 | 3.95 |
| (1,962) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 11 | 3.95 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 1 | 3.95 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 1 | 3.95 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 1 | 3.95 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 17 | 3.95 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 17 | 3.95 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 17 | 3.95 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 3.95 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 5 | 3.95 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 18 | 3.95 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 18 | 3.95 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 18 | 3.95 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 11 | 3.95 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 11 | 3.95 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 11 | 3.95 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 20 | 3.95 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 1 | 3.95 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 15 | 3.95 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 15 | 3.95 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 10 | 3.95 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 18 | 3.95 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 18 | 3.95 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 18 | 3.95 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 1 | 3.95 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 4 | 3.95 |
| (1,630) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 6 | 3.95 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 12 | 3.95 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 9 | 3.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 9 | 3.95 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 9 | 3.95 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 9 | 3.95 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 9 | 3.95 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 9 | 3.95 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 9 | 3.95 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 9 | 3.95 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 9 | 3.95 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 2 | 3.95 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 2 | 3.95 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 2 | 3.95 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 2 | 3.95 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 2 | 3.95 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 2 | 3.95 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 3 | 3.95 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 3 | 3.95 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 3 | 3.95 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 3 | 3.95 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 3 | 3.95 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 3 | 3.95 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 12 | 3.95 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 6 | 3.95 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 6 | 3.95 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 6 | 3.95 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 15 | 3.95 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 13 | 3.95 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 13 | 3.95 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 9 | 3.94 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 10 | 3.94 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 2 | 3.94 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 2 | 3.94 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 8 | 3.94 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 8 | 3.94 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 9 | 3.94 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 9 | 3.94 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 5 | 3.94 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 5 | 3.94 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 19 | 3.94 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 19 | 3.94 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 19 | 3.94 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 19 | 3.94 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 19 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 19 | 3.94 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 7 | 3.94 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 7 | 3.94 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 13 | 3.94 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 13 | 3.94 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 13 | 3.94 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 13 | 3.94 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 13 | 3.94 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 13 | 3.94 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 2 | 3.94 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 2 | 3.94 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB2 | 18 | 3.94 |
| (1,9563) | 1:145:A:GLU:H | 1:160:A:LEU:HB3 | 18 | 3.94 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 1 | 3.94 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 1 | 3.94 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 2 | 3.94 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 2 | 3.94 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 16 | 3.94 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 16 | 3.94 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 16 | 3.94 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 16 | 3.94 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 2 | 3.94 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 2 | 3.94 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 9 | 3.94 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 9 | 3.94 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 9 | 3.94 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 9 | 3.94 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 17 | 3.94 |
| (1,9404) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 17 | 3.94 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 17 | 3.94 |
| (1,9404) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 17 | 3.94 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 10 | 3.94 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 10 | 3.94 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 11 | 3.94 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 11 | 3.94 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 11 | 3.94 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 11 | 3.94 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 11 | 3.94 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 11 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 2 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 2 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 2 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 2 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 2 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 2 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 18 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 18 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 18 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 18 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 18 | 3.94 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 18 | 3.94 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 10 | 3.94 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 10 | 3.94 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 10 | 3.94 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 10 | 3.94 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 16 | 3.94 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 16 | 3.94 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 14 | 3.94 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 14 | 3.94 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 11 | 3.94 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 11 | 3.94 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 19 | 3.94 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 19 | 3.94 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 19 | 3.94 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 19 | 3.94 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 19 | 3.94 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 19 | 3.94 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 5 | 3.94 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 5 | 3.94 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 6 | 3.94 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 6 | 3.94 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 14 | 3.94 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 14 | 3.94 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 13 | 3.94 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 13 | 3.94 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 16 | 3.94 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 16 | 3.94 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD21 | 17 | 3.94 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD22 | 17 | 3.94 |
| (1,9089) | 1:84:A:GLU:HG2 | 1:88:A:LEU:HD23 | 17 | 3.94 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD21 | 17 | 3.94 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD22 | 17 | 3.94 |
| (1,9089) | 1:84:A:GLU:HG3 | 1:88:A:LEU:HD23 | 17 | 3.94 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 2 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 2 | 3.94 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 3.94 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 20 | 3.94 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 2 | 3.94 |
| (1,9052) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 2 | 3.94 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 17 | 3.94 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 17 | 3.94 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 17 | 3.94 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 17 | 3.94 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 17 | 3.94 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 17 | 3.94 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 3 | 3.94 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 3 | 3.94 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 3 | 3.94 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 3 | 3.94 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 8 | 3.94 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 8 | 3.94 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 14 | 3.94 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 14 | 3.94 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 14 | 3.94 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 14 | 3.94 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 14 | 3.94 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 14 | 3.94 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 1 | 3.94 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 1 | 3.94 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 10 | 3.94 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 10 | 3.94 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 10 | 3.94 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 10 | 3.94 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 10 | 3.94 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 10 | 3.94 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 12 | 3.94 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 12 | 3.94 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 11 | 3.94 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 11 | 3.94 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 16 | 3.94 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 16 | 3.94 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 8 | 3.94 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 8 | 3.94 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 8 | 3.94 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 8 | 3.94 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 20 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 20 | 3.94 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 20 | 3.94 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 20 | 3.94 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 10 | 3.94 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 10 | 3.94 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 1 | 3.94 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 1 | 3.94 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 1 | 3.94 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 1 | 3.94 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 1 | 3.94 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 1 | 3.94 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 4 | 3.94 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 4 | 3.94 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 1 | 3.94 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 1 | 3.94 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 6 | 3.94 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 6 | 3.94 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 10 | 3.94 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 10 | 3.94 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 10 | 3.94 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 10 | 3.94 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 10 | 3.94 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 10 | 3.94 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 20 | 3.94 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 20 | 3.94 |
| (1,8595) | 1:12:A:GLU:HB2 | 1:24:A:TYR:HB3 | 5 | 3.94 |
| (1,8595) | 1:12:A:GLU:HB3 | 1:24:A:TYR:HB3 | 5 | 3.94 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 3 | 3.94 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 3 | 3.94 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 13 | 3.94 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 13 | 3.94 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 20 | 3.94 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 20 | 3.94 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 18 | 3.94 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 18 | 3.94 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 8 | 3.94 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 8 | 3.94 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 8 | 3.94 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 5 | 3.94 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 5 | 3.94 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 5 | 3.94 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 15 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 9 | 3.94 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 9 | 3.94 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 9 | 3.94 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 2 | 3.94 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 2 | 3.94 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 2 | 3.94 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 2 | 3.94 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 2 | 3.94 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 2 | 3.94 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 18 | 3.94 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 20 | 3.94 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 20 | 3.94 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 10 | 3.94 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 15 | 3.94 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 15 | 3.94 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD1 | 3 | 3.94 |
| (1,8279) | 1:124:A:ALA:H | 1:125:A:PHE:HD2 | 3 | 3.94 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 14 | 3.94 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 12 | 3.94 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 12 | 3.94 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 3 | 3.94 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 19 | 3.94 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 19 | 3.94 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 17 | 3.94 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 8 | 3.94 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 8 | 3.94 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 8 | 3.94 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 8 | 3.94 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 15 | 3.94 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 15 | 3.94 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 15 | 3.94 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 13 | 3.94 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 13 | 3.94 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 13 | 3.94 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 2 | 3.94 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 1 | 3.94 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 1 | 3.94 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 1 | 3.94 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 1 | 3.94 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 1 | 3.94 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 1 | 3.94 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 9 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 11 | 3.94 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 11 | 3.94 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 15 | 3.94 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 20 | 3.94 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 11 | 3.94 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 9 | 3.94 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 9 | 3.94 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 9 | 3.94 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 9 | 3.94 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 9 | 3.94 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 9 | 3.94 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 7 | 3.94 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 7 | 3.94 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 7 | 3.94 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 17 | 3.94 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 17 | 3.94 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 17 | 3.94 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 19 | 3.94 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 19 | 3.94 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 19 | 3.94 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 4 | 3.94 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 4 | 3.94 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 10 | 3.94 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 10 | 3.94 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 2 | 3.94 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 8 | 3.94 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 2 | 3.94 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 14 | 3.94 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 14 | 3.94 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 10 | 3.94 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 16 | 3.94 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 7 | 3.94 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 7 | 3.94 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 15 | 3.94 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 1 | 3.94 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 1 | 3.94 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 1 | 3.94 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 19 | 3.94 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 19 | 3.94 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 19 | 3.94 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 12 | 3.94 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 12 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 12 | 3.94 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 12 | 3.94 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 12 | 3.94 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 12 | 3.94 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 17 | 3.94 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 17 | 3.94 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 17 | 3.94 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 17 | 3.94 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 16 | 3.94 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 16 | 3.94 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 16 | 3.94 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 1 | 3.94 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 1 | 3.94 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 18 | 3.94 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 18 | 3.94 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 1 | 3.94 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 8 | 3.94 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 8 | 3.94 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 11 | 3.94 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 11 | 3.94 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 5 | 3.94 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 10 | 3.94 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 10 | 3.94 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 1 | 3.94 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 1 | 3.94 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 9 | 3.94 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 7 | 3.94 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 20 | 3.94 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 20 | 3.94 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 20 | 3.94 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 12 | 3.94 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 5 | 3.94 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 5 | 3.94 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 5 | 3.94 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 5 | 3.94 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 17 | 3.94 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 17 | 3.94 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 17 | 3.94 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 7 | 3.94 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 7 | 3.94 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 10 | 3.94 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 10 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 4 | 3.94 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 13 | 3.94 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 20 | 3.94 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 9 | 3.94 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 17 | 3.94 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 8 | 3.94 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 8 | 3.94 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 8 | 3.94 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 8 | 3.94 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 8 | 3.94 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 8 | 3.94 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 4 | 3.94 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 4 | 3.94 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 4 | 3.94 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 4 | 3.94 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 4 | 3.94 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 4 | 3.94 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 4 | 3.94 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 4 | 3.94 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 4 | 3.94 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 2 | 3.94 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 2 | 3.94 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 2 | 3.94 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 13 | 3.94 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 13 | 3.94 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 13 | 3.94 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 15 | 3.94 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 15 | 3.94 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 15 | 3.94 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 5 | 3.94 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 5 | 3.94 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 5 | 3.94 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 12 | 3.94 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 12 | 3.94 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 12 | 3.94 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 17 | 3.94 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 17 | 3.94 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 17 | 3.94 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 14 | 3.94 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 12 | 3.94 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 12 | 3.94 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 12 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 3 | 3.94 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 3 | 3.94 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 3 | 3.94 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 6 | 3.94 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 6 | 3.94 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 6 | 3.94 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 3 | 3.94 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 8 | 3.94 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 8 | 3.94 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 8 | 3.94 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 18 | 3.94 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 18 | 3.94 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 18 | 3.94 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 14 | 3.94 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 14 | 3.94 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 14 | 3.94 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 1 | 3.94 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 1 | 3.94 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 1 | 3.94 |
| (1,6029) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 13 | 3.94 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 10 | 3.94 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 10 | 3.94 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 10 | 3.94 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 9 | 3.94 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 8 | 3.94 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 4 | 3.94 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 4 | 3.94 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 4 | 3.94 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 4 | 3.94 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 5 | 3.94 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 5 | 3.94 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 5 | 3.94 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 15 | 3.94 |
| (1,5804) | 1:116:A:ALA:H | 1:118:A:ALA:H | 19 | 3.94 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 14 | 3.94 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 13 | 3.94 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 17 | 3.94 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 17 | 3.94 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 17 | 3.94 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 2 | 3.94 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 11 | 3.94 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 11 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 11 | 3.94 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 13 | 3.94 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 2 | 3.94 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 2 | 3.94 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 2 | 3.94 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 12 | 3.94 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 17 | 3.94 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 17 | 3.94 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 17 | 3.94 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 6 | 3.94 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 2 | 3.94 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 2 | 3.94 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 2 | 3.94 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 20 | 3.94 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 20 | 3.94 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 20 | 3.94 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 20 | 3.94 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 3 | 3.94 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 3 | 3.94 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 2 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 5 | 3.94 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 5 | 3.94 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 15 | 3.94 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 15 | 3.94 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 15 | 3.94 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 15 | 3.94 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 15 | 3.94 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 15 | 3.94 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 12 | 3.94 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 12 | 3.94 |
| (1,5409) | 1:91:A:GLY:H | 1:93:A:ILE:H | 3 | 3.94 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 4 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 4 | 3.94 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 4 | 3.94 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 7 | 3.94 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 7 | 3.94 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 7 | 3.94 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 15 | 3.94 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 15 | 3.94 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 15 | 3.94 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 10 | 3.94 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 10 | 3.94 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 10 | 3.94 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 17 | 3.94 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 17 | 3.94 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 17 | 3.94 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 19 | 3.94 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 17 | 3.94 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 17 | 3.94 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 17 | 3.94 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 17 | 3.94 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 17 | 3.94 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 17 | 3.94 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 1 | 3.94 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 1 | 3.94 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 1 | 3.94 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 1 | 3.94 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 1 | 3.94 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 1 | 3.94 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 11 | 3.94 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 15 | 3.94 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 18 | 3.94 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 15 | 3.94 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 7 | 3.94 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 7 | 3.94 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 7 | 3.94 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 3 | 3.94 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 3 | 3.94 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 3 | 3.94 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 8 | 3.94 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 8 | 3.94 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 8 | 3.94 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 8 | 3.94 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 8 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 8 | 3.94 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 8 | 3.94 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 8 | 3.94 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 8 | 3.94 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 12 | 3.94 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 14 | 3.94 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 14 | 3.94 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 14 | 3.94 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 20 | 3.94 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 20 | 3.94 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 5 | 3.94 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 5 | 3.94 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 19 | 3.94 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 19 | 3.94 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 19 | 3.94 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 3.94 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 18 | 3.94 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 1 | 3.94 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 11 | 3.94 |
| (1,4376) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 19 | 3.94 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 10 | 3.94 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 10 | 3.94 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 11 | 3.94 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 11 | 3.94 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 11 | 3.94 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 11 | 3.94 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 11 | 3.94 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 11 | 3.94 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 15 | 3.94 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 5 | 3.94 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 19 | 3.94 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 19 | 3.94 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 19 | 3.94 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 19 | 3.94 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 19 | 3.94 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 19 | 3.94 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 17 | 3.94 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 6 | 3.94 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 6 | 3.94 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 13 | 3.94 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 13 | 3.94 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 16 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 16 | 3.94 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 2 | 3.94 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 2 | 3.94 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 3.94 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 20 | 3.94 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 2 | 3.94 |
| (1,4028) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 2 | 3.94 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 13 | 3.94 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 14 | 3.94 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 14 | 3.94 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 14 | 3.94 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 14 | 3.94 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 14 | 3.94 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 14 | 3.94 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 1 | 3.94 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 1 | 3.94 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 16 | 3.94 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 1 | 3.94 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 1 | 3.94 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 7 | 3.94 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 7 | 3.94 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 16 | 3.94 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 16 | 3.94 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 8 | 3.94 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 8 | 3.94 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 8 | 3.94 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 8 | 3.94 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 10 | 3.94 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 10 | 3.94 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 10 | 3.94 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 18 | 3.94 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 18 | 3.94 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 16 | 3.94 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 10 | 3.94 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 10 | 3.94 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 10 | 3.94 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 10 | 3.94 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 7 | 3.94 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 7 | 3.94 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 7 | 3.94 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 15 | 3.94 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 19 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 1 | 3.94 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 1 | 3.94 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 1 | 3.94 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 1 | 3.94 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 1 | 3.94 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 1 | 3.94 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 6 | 3.94 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 6 | 3.94 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 10 | 3.94 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 10 | 3.94 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 3.94 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 3.94 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 3.94 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 20 | 3.94 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 20 | 3.94 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 13 | 3.94 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 13 | 3.94 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 13 | 3.94 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 18 | 3.94 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 18 | 3.94 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 5 | 3.94 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 10 | 3.94 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 10 | 3.94 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 1 | 3.94 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 1 | 3.94 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 16 | 3.94 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 8 | 3.94 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 8 | 3.94 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 8 | 3.94 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 5 | 3.94 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 9 | 3.94 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 7 | 3.94 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 20 | 3.94 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 20 | 3.94 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 20 | 3.94 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 13 | 3.94 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 15 | 3.94 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 15 | 3.94 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 12 | 3.94 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 5 | 3.94 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 10 | 3.94 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 9 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 20 | 3.94 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 20 | 3.94 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 20 | 3.94 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 5 | 3.94 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 5 | 3.94 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 5 | 3.94 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 17 | 3.94 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 17 | 3.94 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 17 | 3.94 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 7 | 3.94 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 7 | 3.94 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 5 | 3.94 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 5 | 3.94 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 10 | 3.94 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 10 | 3.94 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 16 | 3.94 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 14 | 3.94 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 14 | 3.94 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 14 | 3.94 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 1 | 3.94 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 3.94 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 1 | 3.94 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 4 | 3.94 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 13 | 3.94 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 12 | 3.94 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 9 | 3.94 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 17 | 3.94 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 8 | 3.94 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 8 | 3.94 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 8 | 3.94 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 8 | 3.94 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 8 | 3.94 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 8 | 3.94 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 19 | 3.94 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 18 | 3.94 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 1 | 3.94 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 4 | 3.94 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 4 | 3.94 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 4 | 3.94 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 4 | 3.94 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 4 | 3.94 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 4 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 4 | 3.94 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 4 | 3.94 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 4 | 3.94 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 2 | 3.94 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 2 | 3.94 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 2 | 3.94 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 18 | 3.94 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 8 | 3.94 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 13 | 3.94 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 13 | 3.94 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 13 | 3.94 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 14 | 3.94 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 19 | 3.94 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 19 | 3.94 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 19 | 3.94 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 16 | 3.94 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 16 | 3.94 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 16 | 3.94 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 15 | 3.94 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 15 | 3.94 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 15 | 3.94 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 5 | 3.94 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 5 | 3.94 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 5 | 3.94 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 12 | 3.94 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 12 | 3.94 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 12 | 3.94 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 17 | 3.94 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 17 | 3.94 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 17 | 3.94 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 14 | 3.94 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 2 | 3.94 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 18 | 3.94 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 18 | 3.94 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 18 | 3.94 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 12 | 3.94 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 12 | 3.94 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 12 | 3.94 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 8 | 3.94 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 3 | 3.94 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 3 | 3.94 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 3 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 6 | 3.94 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 6 | 3.94 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 6 | 3.94 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 3 | 3.94 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 8 | 3.94 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 8 | 3.94 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 8 | 3.94 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 18 | 3.94 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 18 | 3.94 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 18 | 3.94 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 14 | 3.94 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 14 | 3.94 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 14 | 3.94 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 1 | 3.94 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 1 | 3.94 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 1 | 3.94 |
| (1,1568) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 13 | 3.94 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 8 | 3.94 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 8 | 3.94 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 10 | 3.94 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 10 | 3.94 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 10 | 3.94 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 19 | 3.94 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 9 | 3.94 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 9 | 3.94 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 8 | 3.94 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 11 | 3.94 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 4 | 3.94 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 4 | 3.94 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 4 | 3.94 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 4 | 3.94 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 8 | 3.94 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 5 | 3.94 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 5 | 3.94 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 5 | 3.94 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 10 | 3.94 |
| (1,1252) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 10 | 3.94 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 15 | 3.94 |
| (1,1162) | 1:116:A:ALA:H | 1:118:A:ALA:H | 19 | 3.94 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 14 | 3.94 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 16 | 3.94 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 16 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 13 | 3.94 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 17 | 3.94 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 17 | 3.94 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 17 | 3.94 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 2 | 3.94 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 2 | 3.94 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 11 | 3.94 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 11 | 3.94 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 11 | 3.94 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 13 | 3.94 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 14 | 3.94 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 14 | 3.94 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 14 | 3.94 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 14 | 3.94 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 14 | 3.94 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 14 | 3.94 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 2 | 3.94 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 2 | 3.94 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 2 | 3.94 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 9 | 3.94 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 1 | 3.94 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 15 | 3.94 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 2 | 3.94 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 4 | 3.94 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 12 | 3.94 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 17 | 3.94 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 17 | 3.94 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 17 | 3.94 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 6 | 3.94 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 2 | 3.94 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 2 | 3.94 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 2 | 3.94 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 20 | 3.94 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 20 | 3.94 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 20 | 3.94 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 20 | 3.94 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 3 | 3.94 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 3 | 3.94 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 2 | 3.94 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 15 | 3.94 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 15 | 3.94 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 15 | 3.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 15 | 3.94 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 15 | 3.94 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 15 | 3.94 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 11 | 3.94 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 16 | 3.94 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 16 | 3.94 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 16 | 3.94 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 12 | 3.93 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 15 | 3.93 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 10 | 3.93 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 12 | 3.93 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 12 | 3.93 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 3 | 3.93 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 3 | 3.93 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 3 | 3.93 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 3 | 3.93 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 3 | 3.93 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 3 | 3.93 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 7 | 3.93 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 7 | 3.93 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 11 | 3.93 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 11 | 3.93 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 6 | 3.93 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 6 | 3.93 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 1 | 3.93 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 1 | 3.93 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 13 | 3.93 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 13 | 3.93 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 13 | 3.93 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 13 | 3.93 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 4 | 3.93 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 4 | 3.93 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 9 | 3.93 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 9 | 3.93 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 11 | 3.93 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 11 | 3.93 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 20 | 3.93 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 20 | 3.93 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 14 | 3.93 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 14 | 3.93 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 13 | 3.93 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 13 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 4 | 3.93 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 4 | 3.93 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 3 | 3.93 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 3 | 3.93 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 3 | 3.93 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 3 | 3.93 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 2 | 3.93 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 2 | 3.93 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 16 | 3.93 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 16 | 3.93 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 16 | 3.93 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 16 | 3.93 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 10 | 3.93 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 10 | 3.93 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 10 | 3.93 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 10 | 3.93 |
| (1,9298) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 7 | 3.93 |
| (1,9298) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 7 | 3.93 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB2 | 1 | 3.93 |
| (1,9260) | 1:101:A:GLU:HA | 1:102:A:ASP:HB3 | 1 | 3.93 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 11 | 3.93 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 11 | 3.93 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 11 | 3.93 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 11 | 3.93 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 11 | 3.93 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 11 | 3.93 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 8 | 3.93 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 8 | 3.93 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 8 | 3.93 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 8 | 3.93 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 8 | 3.93 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 8 | 3.93 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 12 | 3.93 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 12 | 3.93 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 8 | 3.93 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 8 | 3.93 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 9 | 3.93 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 9 | 3.93 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 5 | 3.93 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 5 | 3.93 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 3.93 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 5 | 3.93 |
| (1,8900) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 5 | 3.93 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 6 | 3.93 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 6 | 3.93 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 7 | 3.93 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 7 | 3.93 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 7 | 3.93 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 7 | 3.93 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 7 | 3.93 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 7 | 3.93 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 4 | 3.93 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 4 | 3.93 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 4 | 3.93 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 4 | 3.93 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 4 | 3.93 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 4 | 3.93 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 3.93 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 3.93 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 3.93 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 3.93 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 3.93 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 3.93 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 9 | 3.93 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 9 | 3.93 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 9 | 3.93 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 9 | 3.93 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 13 | 3.93 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 13 | 3.93 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 5 | 3.93 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 5 | 3.93 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 15 | 3.93 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 15 | 3.93 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 8 | 3.93 |
| (1,8688) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 8 | 3.93 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 8 | 3.93 |
| (1,8688) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 8 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 2 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 2 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 2 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 2 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 7 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 7 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 7 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 7 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 12 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 12 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 12 | 3.93 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 12 | 3.93 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 18 | 3.93 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 18 | 3.93 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 15 | 3.93 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 15 | 3.93 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 3.93 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 3.93 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 9 | 3.93 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 9 | 3.93 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 3.93 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 3.93 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 3.93 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 3.93 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 3.93 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 3.93 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 8 | 3.93 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 8 | 3.93 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD11 | 14 | 3.93 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD12 | 14 | 3.93 |
| (1,8497) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD13 | 14 | 3.93 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD11 | 14 | 3.93 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD12 | 14 | 3.93 |
| (1,8497) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD13 | 14 | 3.93 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD11 | 14 | 3.93 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD12 | 14 | 3.93 |
| (1,8497) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD13 | 14 | 3.93 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 15 | 3.93 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 15 | 3.93 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 15 | 3.93 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 2 | 3.93 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 7 | 3.93 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 7 | 3.93 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 7 | 3.93 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 7 | 3.93 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 7 | 3.93 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 7 | 3.93 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 7 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 7 | 3.93 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 7 | 3.93 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 19 | 3.93 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 20 | 3.93 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 16 | 3.93 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 16 | 3.93 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 16 | 3.93 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 16 | 3.93 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 16 | 3.93 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 16 | 3.93 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 12 | 3.93 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 12 | 3.93 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 12 | 3.93 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 12 | 3.93 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 12 | 3.93 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 12 | 3.93 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 11 | 3.93 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 11 | 3.93 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 18 | 3.93 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 18 | 3.93 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 18 | 3.93 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 17 | 3.93 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 17 | 3.93 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 11 | 3.93 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 11 | 3.93 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 11 | 3.93 |
| (1,8100) | 1:93:A:ILE:H | 1:95:A:LYS:H | 19 | 3.93 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 4 | 3.93 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 4 | 3.93 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 4 | 3.93 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 4 | 3.93 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 9 | 3.93 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 20 | 3.93 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 19 | 3.93 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 19 | 3.93 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 19 | 3.93 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 2 | 3.93 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 2 | 3.93 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 2 | 3.93 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 8 | 3.93 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 14 | 3.93 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 18 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7982) | 1:78:A:ILE:HD11 | 1:80:A:ARG:H | 10 | 3.93 |
| (1,7982) | 1:78:A:ILE:HD12 | 1:80:A:ARG:H | 10 | 3.93 |
| (1,7982) | 1:78:A:ILE:HD13 | 1:80:A:ARG:H | 10 | 3.93 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 15 | 3.93 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 15 | 3.93 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 15 | 3.93 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 15 | 3.93 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 11 | 3.93 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 18 | 3.93 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 9 | 3.93 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 12 | 3.93 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 12 | 3.93 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 12 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 17 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 17 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 17 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 17 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 17 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 17 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 17 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 17 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 17 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 20 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 20 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 20 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 20 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 20 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 20 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 20 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 20 | 3.93 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 20 | 3.93 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 10 | 3.93 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 10 | 3.93 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 10 | 3.93 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 10 | 3.93 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 10 | 3.93 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 10 | 3.93 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 10 | 3.93 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 10 | 3.93 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 10 | 3.93 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 1 | 3.93 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 1 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 1 | 3.93 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 1 | 3.93 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 1 | 3.93 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 1 | 3.93 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 1 | 3.93 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 1 | 3.93 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 1 | 3.93 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 17 | 3.93 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 17 | 3.93 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 17 | 3.93 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB2 | 12 | 3.93 |
| (1,7751) | 1:55:A:VAL:HA | 1:56:A:ARG:HB3 | 12 | 3.93 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 2 | 3.93 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 2 | 3.93 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 2 | 3.93 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 12 | 3.93 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 12 | 3.93 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 12 | 3.93 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 12 | 3.93 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 12 | 3.93 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 12 | 3.93 |
| (1,7695) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 18 | 3.93 |
| (1,7695) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 18 | 3.93 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 14 | 3.93 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 8 | 3.93 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 12 | 3.93 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 16 | 3.93 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 12 | 3.93 |
| (1,7593) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 7 | 3.93 |
| (1,7593) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 7 | 3.93 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG11 | 4 | 3.93 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG12 | 4 | 3.93 |
| (1,7558) | 1:21:A:ARG:HA | 1:22:A:VAL:HG13 | 4 | 3.93 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 17 | 3.93 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 9 | 3.93 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 9 | 3.93 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 3 | 3.93 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 3 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 9 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 9 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 9 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 9 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 9 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 9 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 15 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 15 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 15 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 15 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 15 | 3.93 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 15 | 3.93 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 4 | 3.93 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 4 | 3.93 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 20 | 3.93 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 20 | 3.93 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 20 | 3.93 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 4 | 3.93 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 4 | 3.93 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 7 | 3.93 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 7 | 3.93 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 7 | 3.93 |
| (1,7301) | 1:39:A:GLY:HA2 | 1:40:A:ASN:HA | 15 | 3.93 |
| (1,7301) | 1:39:A:GLY:HA3 | 1:40:A:ASN:HA | 15 | 3.93 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 3 | 3.93 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 1 | 3.93 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 18 | 3.93 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 18 | 3.93 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 18 | 3.93 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 20 | 3.93 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 20 | 3.93 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 20 | 3.93 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 4 | 3.93 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 14 | 3.93 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 14 | 3.93 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 14 | 3.93 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 20 | 3.93 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 20 | 3.93 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 12 | 3.93 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 11 | 3.93 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 17 | 3.93 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 17 | 3.93 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 17 | 3.93 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 11 | 3.93 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 7 | 3.93 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 7 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 10 | 3.93 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 15 | 3.93 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 15 | 3.93 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 13 | 3.93 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 15 | 3.93 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 6 | 3.93 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 6 | 3.93 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 6 | 3.93 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 7 | 3.93 |
| (1,6948) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 7 | 3.93 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 12 | 3.93 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 19 | 3.93 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 20 | 3.93 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 14 | 3.93 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 14 | 3.93 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 14 | 3.93 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 10 | 3.93 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 9 | 3.93 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 9 | 3.93 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 9 | 3.93 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 20 | 3.93 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 20 | 3.93 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 20 | 3.93 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 20 | 3.93 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 2 | 3.93 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 2 | 3.93 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 2 | 3.93 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 17 | 3.93 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 17 | 3.93 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 17 | 3.93 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 17 | 3.93 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 17 | 3.93 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 17 | 3.93 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 17 | 3.93 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 17 | 3.93 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 17 | 3.93 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 3 | 3.93 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 13 | 3.93 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 13 | 3.93 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 13 | 3.93 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 13 | 3.93 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 13 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 13 | 3.93 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 20 | 3.93 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 20 | 3.93 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 1 | 3.93 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 1 | 3.93 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 1 | 3.93 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 5 | 3.93 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 5 | 3.93 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 5 | 3.93 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 10 | 3.93 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 10 | 3.93 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 10 | 3.93 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 18 | 3.93 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 19 | 3.93 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 19 | 3.93 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 19 | 3.93 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 5 | 3.93 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 3 | 3.93 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 5 | 3.93 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 5 | 3.93 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 5 | 3.93 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 18 | 3.93 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 3 | 3.93 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 3 | 3.93 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 3 | 3.93 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 19 | 3.93 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 8 | 3.93 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 3 | 3.93 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 2 | 3.93 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 14 | 3.93 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 14 | 3.93 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 14 | 3.93 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 13 | 3.93 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 20 | 3.93 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 16 | 3.93 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 16 | 3.93 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 20 | 3.93 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 20 | 3.93 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 7 | 3.93 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 6 | 3.93 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 8 | 3.93 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 8 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 8 | 3.93 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 8 | 3.93 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 8 | 3.93 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 8 | 3.93 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 8 | 3.93 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 8 | 3.93 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 8 | 3.93 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 16 | 3.93 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 16 | 3.93 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 16 | 3.93 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 16 | 3.93 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 16 | 3.93 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 16 | 3.93 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 5 | 3.93 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 5 | 3.93 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 5 | 3.93 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 5 | 3.93 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 5 | 3.93 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 5 | 3.93 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 19 | 3.93 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 19 | 3.93 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 19 | 3.93 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 7 | 3.93 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 7 | 3.93 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 7 | 3.93 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 11 | 3.93 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 4 | 3.93 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 3 | 3.93 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 3 | 3.93 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 5 | 3.93 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 5 | 3.93 |
| (1,5120) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 12 | 3.93 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 7 | 3.93 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 11 | 3.93 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 18 | 3.93 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 18 | 3.93 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 18 | 3.93 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 17 | 3.93 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 17 | 3.93 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 17 | 3.93 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 14 | 3.93 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 14 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 7 | 3.93 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 3 | 3.93 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 4 | 3.93 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 4 | 3.93 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 4 | 3.93 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 6 | 3.93 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 6 | 3.93 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 6 | 3.93 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 5 | 3.93 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 5 | 3.93 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 5 | 3.93 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 14 | 3.93 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 14 | 3.93 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 14 | 3.93 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 18 | 3.93 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 18 | 3.93 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 18 | 3.93 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 1 | 3.93 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 1 | 3.93 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 1 | 3.93 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 13 | 3.93 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 15 | 3.93 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 15 | 3.93 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 15 | 3.93 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 1 | 3.93 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 15 | 3.93 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 15 | 3.93 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 15 | 3.93 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 19 | 3.93 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 12 | 3.93 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 10 | 3.93 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 10 | 3.93 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 10 | 3.93 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 1 | 3.93 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 1 | 3.93 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 1 | 3.93 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 4 | 3.93 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 4 | 3.93 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 4 | 3.93 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 5 | 3.93 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 5 | 3.93 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 5 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 5 | 3.93 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 19 | 3.93 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 1 | 3.93 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 1 | 3.93 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 17 | 3.93 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 5 | 3.93 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 5 | 3.93 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 7 | 3.93 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 12 | 3.93 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 13 | 3.93 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 7 | 3.93 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 7 | 3.93 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 1 | 3.93 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 1 | 3.93 |
| (1,4456) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 1 | 3.93 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 14 | 3.93 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 14 | 3.93 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 13 | 3.93 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 13 | 3.93 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 4 | 3.93 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 4 | 3.93 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 14 | 3.93 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 8 | 3.93 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 8 | 3.93 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 16 | 3.93 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 16 | 3.93 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 16 | 3.93 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 16 | 3.93 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 3.93 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 3.93 |
| (1,4313) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 11 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 11 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 11 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 11 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 11 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 11 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 15 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 15 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 15 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 15 | 3.93 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 15 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 15 | 3.93 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 8 | 3.93 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 8 | 3.93 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 8 | 3.93 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 8 | 3.93 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 8 | 3.93 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 8 | 3.93 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 17 | 3.93 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 17 | 3.93 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 17 | 3.93 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 12 | 3.93 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 12 | 3.93 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 4 | 3.93 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 4 | 3.93 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 7 | 3.93 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 10 | 3.93 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 10 | 3.93 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 10 | 3.93 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 2 | 3.93 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 2 | 3.93 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 5 | 3.93 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 5 | 3.93 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 3.93 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 3.93 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 4 | 3.93 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 4 | 3.93 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 17 | 3.93 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 17 | 3.93 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 13 | 3.93 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 15 | 3.93 |
| (1,3905) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 17 | 3.93 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 5 | 3.93 |
| (1,3860) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 5 | 3.93 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 7 | 3.93 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 7 | 3.93 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 7 | 3.93 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 7 | 3.93 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 7 | 3.93 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 7 | 3.93 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 16 | 3.93 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 16 | 3.93 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 16 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 3.93 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 3.93 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 3.93 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 3.93 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 3.93 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 3.93 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 14 | 3.93 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 19 | 3.93 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 9 | 3.93 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 9 | 3.93 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 9 | 3.93 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 9 | 3.93 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 7 | 3.93 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 5 | 3.93 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 5 | 3.93 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 15 | 3.93 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 15 | 3.93 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 8 | 3.93 |
| (1,3646) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 8 | 3.93 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 8 | 3.93 |
| (1,3646) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 8 | 3.93 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 12 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 2 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 2 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 2 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 2 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 7 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 7 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 7 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 7 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 12 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 12 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 12 | 3.93 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 12 | 3.93 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 4 | 3.93 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 2 | 3.93 |
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 2 | 3.93 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 3.93 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 15 | 3.93 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 15 | 3.93 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 3.93 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 9 | 3.93 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 9 | 3.93 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 13 | 3.93 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 3.93 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 3.93 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 3.93 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 3.93 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 3.93 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 3.93 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 13 | 3.93 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 13 | 3.93 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 5 | 3.93 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 4 | 3.93 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 4 | 3.93 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 4 | 3.93 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 4 | 3.93 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 4 | 3.93 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 4 | 3.93 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 8 | 3.93 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 8 | 3.93 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 1 | 3.93 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 18 | 3.93 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 18 | 3.93 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 18 | 3.93 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 20 | 3.93 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 20 | 3.93 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 20 | 3.93 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 4 | 3.93 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 14 | 3.93 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 14 | 3.93 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 14 | 3.93 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 20 | 3.93 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 20 | 3.93 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 13 | 3.93 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 12 | 3.93 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 11 | 3.93 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 17 | 3.93 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 17 | 3.93 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 17 | 3.93 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 11 | 3.93 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 7 | 3.93 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 7 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3244) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 8 | 3.93 |
| (1,3244) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 8 | 3.93 |
| (1,3244) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 8 | 3.93 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 10 | 3.93 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 7 | 3.93 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 15 | 3.93 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 15 | 3.93 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 20 | 3.93 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 10 | 3.93 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 10 | 3.93 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 10 | 3.93 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 13 | 3.93 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 15 | 3.93 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 11 | 3.93 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 6 | 3.93 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 6 | 3.93 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 6 | 3.93 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 7 | 3.93 |
| (1,2968) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 7 | 3.93 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 2 | 3.93 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 12 | 3.93 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 17 | 3.93 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 17 | 3.93 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 2 | 3.93 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 19 | 3.93 |
| (1,2690) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 3 | 3.93 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 20 | 3.93 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 14 | 3.93 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 14 | 3.93 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 14 | 3.93 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 10 | 3.93 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 9 | 3.93 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 9 | 3.93 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 9 | 3.93 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 6 | 3.93 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 4 | 3.93 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 18 | 3.93 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 20 | 3.93 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 20 | 3.93 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 20 | 3.93 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 7 | 3.93 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 2 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 2 | 3.93 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 2 | 3.93 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 17 | 3.93 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 17 | 3.93 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 17 | 3.93 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 17 | 3.93 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 17 | 3.93 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 17 | 3.93 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 17 | 3.93 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 17 | 3.93 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 17 | 3.93 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 3 | 3.93 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 13 | 3.93 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 13 | 3.93 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 13 | 3.93 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 13 | 3.93 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 13 | 3.93 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 13 | 3.93 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 5 | 3.93 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 5 | 3.93 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 5 | 3.93 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 5 | 3.93 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 20 | 3.93 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 20 | 3.93 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 1 | 3.93 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 1 | 3.93 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 1 | 3.93 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 5 | 3.93 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 5 | 3.93 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 5 | 3.93 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 10 | 3.93 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 10 | 3.93 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 10 | 3.93 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 18 | 3.93 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 2 | 3.93 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 2 | 3.93 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 2 | 3.93 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 16 | 3.93 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 9 | 3.93 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 9 | 3.93 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 11 | 3.93 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 11 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 11 | 3.93 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 5 | 3.93 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 5 | 3.93 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 14 | 3.93 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 13 | 3.93 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 19 | 3.93 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 19 | 3.93 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 19 | 3.93 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 5 | 3.93 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 1 | 3.93 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 5 | 3.93 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 4 | 3.93 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 3 | 3.93 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 5 | 3.93 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 5 | 3.93 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 5 | 3.93 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 16 | 3.93 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 19 | 3.93 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 11 | 3.93 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 11 | 3.93 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 20 | 3.93 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 20 | 3.93 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 16 | 3.93 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 16 | 3.93 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 16 | 3.93 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 3 | 3.93 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 3 | 3.93 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 3 | 3.93 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 19 | 3.93 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 8 | 3.93 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 3 | 3.93 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 2 | 3.93 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 14 | 3.93 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 14 | 3.93 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 14 | 3.93 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 13 | 3.93 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 5 | 3.93 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 8 | 3.93 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 19 | 3.93 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 20 | 3.93 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 17 | 3.93 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 17 | 3.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 16 | 3.93 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 16 | 3.93 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 20 | 3.93 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 20 | 3.93 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 7 | 3.93 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 6 | 3.93 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 12 | 3.93 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 8 | 3.93 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 8 | 3.93 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 8 | 3.93 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 8 | 3.93 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 8 | 3.93 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 8 | 3.93 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 8 | 3.93 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 8 | 3.93 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 8 | 3.93 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 16 | 3.93 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 16 | 3.93 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 16 | 3.93 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 16 | 3.93 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 16 | 3.93 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 16 | 3.93 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 5 | 3.93 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 2 | 3.93 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 14 | 3.93 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 14 | 3.93 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 9 | 3.93 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 9 | 3.93 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 6 | 3.93 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 6 | 3.93 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 6 | 3.93 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 15 | 3.93 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 17 | 3.93 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 4 | 3.92 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 3.92 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 3.92 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 2 | 3.92 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 2 | 3.92 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 4 | 3.92 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 4 | 3.92 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 15 | 3.92 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 15 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 15 | 3.92 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 15 | 3.92 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 15 | 3.92 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 15 | 3.92 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 14 | 3.92 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 14 | 3.92 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 18 | 3.92 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 18 | 3.92 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 5 | 3.92 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 5 | 3.92 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 3 | 3.92 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 3 | 3.92 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 8 | 3.92 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 8 | 3.92 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 19 | 3.92 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 19 | 3.92 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 1 | 3.92 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 1 | 3.92 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 5 | 3.92 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 5 | 3.92 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 5 | 3.92 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 5 | 3.92 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 10 | 3.92 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 10 | 3.92 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 6 | 3.92 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 6 | 3.92 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 6 | 3.92 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 6 | 3.92 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 6 | 3.92 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 6 | 3.92 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 7 | 3.92 |
| (1,9253) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 7 | 3.92 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 15 | 3.92 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 15 | 3.92 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 16 | 3.92 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 16 | 3.92 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 16 | 3.92 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 16 | 3.92 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 16 | 3.92 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 16 | 3.92 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 16 | 3.92 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 16 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 19 | 3.92 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 19 | 3.92 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 19 | 3.92 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 19 | 3.92 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 19 | 3.92 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 19 | 3.92 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 19 | 3.92 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 19 | 3.92 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 19 | 3.92 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 19 | 3.92 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 2 | 3.92 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 2 | 3.92 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 8 | 3.92 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 8 | 3.92 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 6 | 3.92 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 6 | 3.92 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 6 | 3.92 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 6 | 3.92 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 6 | 3.92 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 6 | 3.92 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 14 | 3.92 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 14 | 3.92 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 14 | 3.92 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 14 | 3.92 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 14 | 3.92 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 14 | 3.92 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 18 | 3.92 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 18 | 3.92 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 4 | 3.92 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 4 | 3.92 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 4 | 3.92 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 4 | 3.92 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 4 | 3.92 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 4 | 3.92 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 18 | 3.92 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 18 | 3.92 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 18 | 3.92 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 18 | 3.92 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 8 | 3.92 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 8 | 3.92 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 3 | 3.92 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 3 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 6 | 3.92 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 6 | 3.92 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 20 | 3.92 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 20 | 3.92 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 20 | 3.92 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 4 | 3.92 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 12 | 3.92 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 1 | 3.92 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 1 | 3.92 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 1 | 3.92 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 1 | 3.92 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 1 | 3.92 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 1 | 3.92 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 1 | 3.92 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 1 | 3.92 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 1 | 3.92 |
| (1,8414) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 10 | 3.92 |
| (1,8414) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 10 | 3.92 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 16 | 3.92 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 16 | 3.92 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 16 | 3.92 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 20 | 3.92 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 20 | 3.92 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 20 | 3.92 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 1 | 3.92 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 1 | 3.92 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 1 | 3.92 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 1 | 3.92 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 1 | 3.92 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 1 | 3.92 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 5 | 3.92 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 5 | 3.92 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 17 | 3.92 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 17 | 3.92 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 16 | 3.92 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 16 | 3.92 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 16 | 3.92 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 1 | 3.92 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 15 | 3.92 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 16 | 3.92 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 16 | 3.92 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 16 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 7 | 3.92 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 7 | 3.92 |
| (1,8259) | 1:117:A:LYS:H | 1:121:A:ASP:H | 16 | 3.92 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 8 | 3.92 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 17 | 3.92 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 6 | 3.92 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 6 | 3.92 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 6 | 3.92 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 6 | 3.92 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 6 | 3.92 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 6 | 3.92 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 2 | 3.92 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 2 | 3.92 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 14 | 3.92 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 14 | 3.92 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 14 | 3.92 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 17 | 3.92 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 17 | 3.92 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 13 | 3.92 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 13 | 3.92 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 13 | 3.92 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 1 | 3.92 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 1 | 3.92 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 1 | 3.92 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 9 | 3.92 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 12 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 8 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 8 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 8 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 8 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 8 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 8 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 8 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 8 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 8 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 14 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 14 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 14 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 14 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 14 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 14 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 14 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 14 | 3.92 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 14 | 3.92 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 9 | 3.92 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 9 | 3.92 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 9 | 3.92 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 12 | 3.92 |
| (1,8039) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 1 | 3.92 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 10 | 3.92 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 3 | 3.92 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 14 | 3.92 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 13 | 3.92 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 13 | 3.92 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 18 | 3.92 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 18 | 3.92 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 11 | 3.92 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 11 | 3.92 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 11 | 3.92 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 20 | 3.92 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 20 | 3.92 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 20 | 3.92 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 3 | 3.92 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 3 | 3.92 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 3 | 3.92 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 3 | 3.92 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 3 | 3.92 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 3 | 3.92 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 3 | 3.92 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 3 | 3.92 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 3 | 3.92 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 18 | 3.92 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 10 | 3.92 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 3 | 3.92 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 3 | 3.92 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 3 | 3.92 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 17 | 3.92 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 17 | 3.92 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 6 | 3.92 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 6 | 3.92 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 6 | 3.92 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 6 | 3.92 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 6 | 3.92 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 6 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 6 | 3.92 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 6 | 3.92 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 6 | 3.92 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 6 | 3.92 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 6 | 3.92 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 1 | 3.92 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 15 | 3.92 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 4 | 3.92 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 4 | 3.92 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 16 | 3.92 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 4 | 3.92 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 4 | 3.92 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 13 | 3.92 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 20 | 3.92 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 20 | 3.92 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 7 | 3.92 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 9 | 3.92 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 12 | 3.92 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 12 | 3.92 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 12 | 3.92 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 1 | 3.92 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 1 | 3.92 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 6 | 3.92 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 6 | 3.92 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 7 | 3.92 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 7 | 3.92 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 11 | 3.92 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 11 | 3.92 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 5 | 3.92 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 5 | 3.92 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 5 | 3.92 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 5 | 3.92 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 20 | 3.92 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 20 | 3.92 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 6 | 3.92 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 3 | 3.92 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 3 | 3.92 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 3 | 3.92 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 5 | 3.92 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 5 | 3.92 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 5 | 3.92 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 2 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 11 | 3.92 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 10 | 3.92 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 10 | 3.92 |
| (1,7126) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 10 | 3.92 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 19 | 3.92 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 4 | 3.92 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 4 | 3.92 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 1 | 3.92 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 3 | 3.92 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 18 | 3.92 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 18 | 3.92 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 18 | 3.92 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 1 | 3.92 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 1 | 3.92 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 1 | 3.92 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 12 | 3.92 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 12 | 3.92 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 12 | 3.92 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 6 | 3.92 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 17 | 3.92 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 17 | 3.92 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 17 | 3.92 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 17 | 3.92 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 12 | 3.92 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 12 | 3.92 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 6 | 3.92 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 5 | 3.92 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 5 | 3.92 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 5 | 3.92 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 5 | 3.92 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 5 | 3.92 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 5 | 3.92 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 5 | 3.92 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 5 | 3.92 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 5 | 3.92 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 17 | 3.92 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 18 | 3.92 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 14 | 3.92 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 14 | 3.92 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 14 | 3.92 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 14 | 3.92 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 14 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 14 | 3.92 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 12 | 3.92 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 4 | 3.92 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 17 | 3.92 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 12 | 3.92 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 12 | 3.92 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 12 | 3.92 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 4 | 3.92 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 6 | 3.92 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 19 | 3.92 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 1 | 3.92 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 9 | 3.92 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 9 | 3.92 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 5 | 3.92 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 5 | 3.92 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 5 | 3.92 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 2 | 3.92 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 13 | 3.92 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 13 | 3.92 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 13 | 3.92 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 7 | 3.92 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 7 | 3.92 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 7 | 3.92 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 6 | 3.92 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 6 | 3.92 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 6 | 3.92 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 7 | 3.92 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 7 | 3.92 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 7 | 3.92 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 10 | 3.92 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 10 | 3.92 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 10 | 3.92 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 19 | 3.92 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 19 | 3.92 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 19 | 3.92 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 9 | 3.92 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 17 | 3.92 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 5 | 3.92 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 5 | 3.92 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 5 | 3.92 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 2 | 3.92 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 2 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 2 | 3.92 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 3 | 3.92 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 3 | 3.92 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 8 | 3.92 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 12 | 3.92 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 9 | 3.92 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 4 | 3.92 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 15 | 3.92 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 2 | 3.92 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 2 | 3.92 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 2 | 3.92 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 9 | 3.92 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 12 | 3.92 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 12 | 3.92 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 12 | 3.92 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 12 | 3.92 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 12 | 3.92 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 12 | 3.92 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 12 | 3.92 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 12 | 3.92 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 12 | 3.92 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 12 | 3.92 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 12 | 3.92 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 12 | 3.92 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 7 | 3.92 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 12 | 3.92 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 12 | 3.92 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 12 | 3.92 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 15 | 3.92 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 15 | 3.92 |
| (1,5528) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 15 | 3.92 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 7 | 3.92 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 3 | 3.92 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 3 | 3.92 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 3 | 3.92 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 18 | 3.92 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 18 | 3.92 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 18 | 3.92 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 17 | 3.92 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 6 | 3.92 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 6 | 3.92 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 17 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 17 | 3.92 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 19 | 3.92 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 19 | 3.92 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 19 | 3.92 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 19 | 3.92 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 19 | 3.92 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 19 | 3.92 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 7 | 3.92 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 8 | 3.92 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 8 | 3.92 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 8 | 3.92 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 8 | 3.92 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 8 | 3.92 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 8 | 3.92 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 10 | 3.92 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 9 | 3.92 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 9 | 3.92 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 9 | 3.92 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 14 | 3.92 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 14 | 3.92 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 14 | 3.92 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 18 | 3.92 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 12 | 3.92 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 12 | 3.92 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 12 | 3.92 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 6 | 3.92 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 4 | 3.92 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 17 | 3.92 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 12 | 3.92 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 14 | 3.92 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 12 | 3.92 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 12 | 3.92 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 12 | 3.92 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 1 | 3.92 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 1 | 3.92 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 1 | 3.92 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 1 | 3.92 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 1 | 3.92 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 1 | 3.92 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 4 | 3.92 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 4 | 3.92 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 4 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 14 | 3.92 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 14 | 3.92 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 14 | 3.92 |
| (1,4820) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 16 | 3.92 |
| (1,4820) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 16 | 3.92 |
| (1,4820) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 16 | 3.92 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 19 | 3.92 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 19 | 3.92 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 19 | 3.92 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 20 | 3.92 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 12 | 3.92 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 12 | 3.92 |
| (1,4649) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 12 | 3.92 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 10 | 3.92 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 10 | 3.92 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 10 | 3.92 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 2 | 3.92 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 2 | 3.92 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 18 | 3.92 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 3.92 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 3.92 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 15 | 3.92 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 15 | 3.92 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 15 | 3.92 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 15 | 3.92 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 15 | 3.92 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 15 | 3.92 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 20 | 3.92 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 20 | 3.92 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 20 | 3.92 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 17 | 3.92 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 17 | 3.92 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 17 | 3.92 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 3 | 3.92 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 16 | 3.92 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 16 | 3.92 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 16 | 3.92 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 16 | 3.92 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 5 | 3.92 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 5 | 3.92 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 3 | 3.92 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 3 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 8 | 3.92 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 8 | 3.92 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 19 | 3.92 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 19 | 3.92 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 7 | 3.92 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 7 | 3.92 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 7 | 3.92 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 7 | 3.92 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 5 | 3.92 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 5 | 3.92 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 5 | 3.92 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 5 | 3.92 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 12 | 3.92 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 5 | 3.92 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 5 | 3.92 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 18 | 3.92 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 18 | 3.92 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 15 | 3.92 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 6 | 3.92 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 6 | 3.92 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 7 | 3.92 |
| (1,4238) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 7 | 3.92 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 2 | 3.92 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 2 | 3.92 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 18 | 3.92 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 16 | 3.92 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 16 | 3.92 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 16 | 3.92 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 16 | 3.92 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 16 | 3.92 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 16 | 3.92 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 6 | 3.92 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 16 | 3.92 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 16 | 3.92 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 5 | 3.92 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 5 | 3.92 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 5 | 3.92 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 5 | 3.92 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 5 | 3.92 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 5 | 3.92 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 2 | 3.92 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 2 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 2 | 3.92 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 2 | 3.92 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 2 | 3.92 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 5 | 3.92 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 5 | 3.92 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 5 | 3.92 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 18 | 3.92 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 18 | 3.92 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 10 | 3.92 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 10 | 3.92 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 14 | 3.92 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 4 | 3.92 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 4 | 3.92 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 18 | 3.92 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 18 | 3.92 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 4 | 3.92 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 4 | 3.92 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 4 | 3.92 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 4 | 3.92 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 4 | 3.92 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 4 | 3.92 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 6 | 3.92 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 6 | 3.92 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 6 | 3.92 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 6 | 3.92 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 6 | 3.92 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 6 | 3.92 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 7 | 3.92 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 11 | 3.92 |
| (1,3697) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 15 | 3.92 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 8 | 3.92 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 8 | 3.92 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 3 | 3.92 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 3 | 3.92 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 10 | 3.92 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 10 | 3.92 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 10 | 3.92 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 12 | 3.92 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 12 | 3.92 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 20 | 3.92 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 20 | 3.92 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 18 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 11 | 3.92 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 3 | 3.92 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 3 | 3.92 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 3 | 3.92 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 5 | 3.92 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 5 | 3.92 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 5 | 3.92 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 2 | 3.92 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 11 | 3.92 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 10 | 3.92 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 10 | 3.92 |
| (1,3222) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 10 | 3.92 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 19 | 3.92 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 4 | 3.92 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 4 | 3.92 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 1 | 3.92 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 3 | 3.92 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 9 | 3.92 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 9 | 3.92 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 4 | 3.92 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 3 | 3.92 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 3 | 3.92 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 3 | 3.92 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 18 | 3.92 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 18 | 3.92 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 18 | 3.92 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 1 | 3.92 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 1 | 3.92 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 1 | 3.92 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 12 | 3.92 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 12 | 3.92 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 12 | 3.92 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 6 | 3.92 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 1 | 3.92 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 1 | 3.92 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 17 | 3.92 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 17 | 3.92 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 17 | 3.92 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 17 | 3.92 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 12 | 3.92 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 12 | 3.92 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 11 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 4 | 3.92 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 6 | 3.92 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 5 | 3.92 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 5 | 3.92 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 5 | 3.92 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 5 | 3.92 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 5 | 3.92 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 5 | 3.92 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 5 | 3.92 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 5 | 3.92 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 5 | 3.92 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 17 | 3.92 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 15 | 3.92 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 15 | 3.92 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 15 | 3.92 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 18 | 3.92 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 14 | 3.92 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 14 | 3.92 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 14 | 3.92 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 14 | 3.92 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 14 | 3.92 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 14 | 3.92 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 12 | 3.92 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 4 | 3.92 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 17 | 3.92 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 12 | 3.92 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 12 | 3.92 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 12 | 3.92 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 4 | 3.92 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 6 | 3.92 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 19 | 3.92 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 1 | 3.92 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 5 | 3.92 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 5 | 3.92 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 5 | 3.92 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 2 | 3.92 |
| (1,2328) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 9 | 3.92 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 3 | 3.92 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 3 | 3.92 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 3 | 3.92 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 13 | 3.92 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 13 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 13 | 3.92 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 7 | 3.92 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 7 | 3.92 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 7 | 3.92 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 6 | 3.92 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 6 | 3.92 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 6 | 3.92 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 18 | 3.92 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 18 | 3.92 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 18 | 3.92 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 8 | 3.92 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 7 | 3.92 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 7 | 3.92 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 7 | 3.92 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 10 | 3.92 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 10 | 3.92 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 10 | 3.92 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 19 | 3.92 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 19 | 3.92 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 19 | 3.92 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 14 | 3.92 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 3 | 3.92 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 19 | 3.92 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 19 | 3.92 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 19 | 3.92 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 9 | 3.92 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 15 | 3.92 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 15 | 3.92 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 15 | 3.92 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 17 | 3.92 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 19 | 3.92 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 19 | 3.92 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 19 | 3.92 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 5 | 3.92 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 8 | 3.92 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 15 | 3.92 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 5 | 3.92 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 5 | 3.92 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 5 | 3.92 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 5 | 3.92 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 8 | 3.92 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 2 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 2 | 3.92 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 2 | 3.92 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 3 | 3.92 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 3 | 3.92 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 13 | 3.92 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 8 | 3.92 |
| (1,1192) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 8 | 3.92 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 11 | 3.92 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 7 | 3.92 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 13 | 3.92 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 12 | 3.92 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 9 | 3.92 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 2 | 3.92 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 2 | 3.92 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 2 | 3.92 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 4 | 3.92 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 15 | 3.92 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 3.92 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 3.92 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 3.92 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 2 | 3.92 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 2 | 3.92 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 2 | 3.92 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 9 | 3.92 |
| (1,810) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 3.92 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 12 | 3.92 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 12 | 3.92 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 12 | 3.92 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 15 | 3.92 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 15 | 3.92 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 12 | 3.92 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 12 | 3.92 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 12 | 3.92 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 12 | 3.92 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 12 | 3.92 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 12 | 3.92 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 12 | 3.92 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 12 | 3.92 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 12 | 3.92 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 7 | 3.92 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 12 | 3.92 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 12 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 12 | 3.92 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 15 | 3.92 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 15 | 3.92 |
| (1,684) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 15 | 3.92 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 7 | 3.92 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 3 | 3.92 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 3 | 3.92 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 3 | 3.92 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 18 | 3.92 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 18 | 3.92 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 18 | 3.92 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 17 | 3.92 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 3 | 3.92 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 6 | 3.92 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 6 | 3.92 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 17 | 3.92 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 17 | 3.92 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 19 | 3.92 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 19 | 3.92 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 19 | 3.92 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 19 | 3.92 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 19 | 3.92 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 19 | 3.92 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 7 | 3.92 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 1 | 3.92 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 1 | 3.92 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 1 | 3.92 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 1 | 3.92 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 1 | 3.92 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 1 | 3.92 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 11 | 3.92 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 14 | 3.92 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 12 | 3.91 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 6 | 3.91 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 6 | 3.91 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 7 | 3.91 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 2 | 3.91 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 2 | 3.91 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 2 | 3.91 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 18 | 3.91 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 18 | 3.91 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 3 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 3 | 3.91 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 5 | 3.91 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 5 | 3.91 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 17 | 3.91 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 17 | 3.91 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 3 | 3.91 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 3 | 3.91 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 13 | 3.91 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 13 | 3.91 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 7 | 3.91 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 7 | 3.91 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 11 | 3.91 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 11 | 3.91 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 11 | 3.91 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 11 | 3.91 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 11 | 3.91 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 11 | 3.91 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 7 | 3.91 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 7 | 3.91 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 15 | 3.91 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 15 | 3.91 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 13 | 3.91 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 13 | 3.91 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 10 | 3.91 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 10 | 3.91 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 1 | 3.91 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 1 | 3.91 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 9 | 3.91 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 9 | 3.91 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 9 | 3.91 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 9 | 3.91 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 19 | 3.91 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 19 | 3.91 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 19 | 3.91 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 19 | 3.91 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 19 | 3.91 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 19 | 3.91 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 8 | 3.91 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 8 | 3.91 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 8 | 3.91 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 8 | 3.91 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 4 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 4 | 3.91 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 2 | 3.91 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 2 | 3.91 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 7 | 3.91 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 7 | 3.91 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 1 | 3.91 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 1 | 3.91 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 17 | 3.91 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 17 | 3.91 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 11 | 3.91 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 11 | 3.91 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 3 | 3.91 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 3 | 3.91 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 3 | 3.91 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 3 | 3.91 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 3 | 3.91 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 3 | 3.91 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 7 | 3.91 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 7 | 3.91 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 14 | 3.91 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 14 | 3.91 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 14 | 3.91 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 14 | 3.91 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 7 | 3.91 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 7 | 3.91 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 7 | 3.91 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 7 | 3.91 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 15 | 3.91 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 15 | 3.91 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 8 | 3.91 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 8 | 3.91 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 8 | 3.91 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 8 | 3.91 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 8 | 3.91 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 8 | 3.91 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 9 | 3.91 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 9 | 3.91 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 13 | 3.91 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 13 | 3.91 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 17 | 3.91 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 17 | 3.91 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 14 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 14 | 3.91 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 14 | 3.91 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 14 | 3.91 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 2 | 3.91 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 2 | 3.91 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 15 | 3.91 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 15 | 3.91 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 10 | 3.91 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 10 | 3.91 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 11 | 3.91 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 11 | 3.91 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 16 | 3.91 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 16 | 3.91 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 3 | 3.91 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 3 | 3.91 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 18 | 3.91 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 18 | 3.91 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 4 | 3.91 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 4 | 3.91 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 4 | 3.91 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 4 | 3.91 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 1 | 3.91 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 1 | 3.91 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 13 | 3.91 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 13 | 3.91 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 13 | 3.91 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 13 | 3.91 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 3 | 3.91 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 3 | 3.91 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 10 | 3.91 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 10 | 3.91 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB2 | 9 | 3.91 |
| (1,8585) | 1:11:A:TRP:HA | 1:12:A:GLU:HB3 | 9 | 3.91 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 3 | 3.91 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 3 | 3.91 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 14 | 3.91 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 14 | 3.91 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 18 | 3.91 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 18 | 3.91 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 11 | 3.91 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 11 | 3.91 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 11 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 11 | 3.91 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 10 | 3.91 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 10 | 3.91 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 12 | 3.91 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 12 | 3.91 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 11 | 3.91 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 11 | 3.91 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 8 | 3.91 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 20 | 3.91 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 3 | 3.91 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 9 | 3.91 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 9 | 3.91 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 9 | 3.91 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 8 | 3.91 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 8 | 3.91 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 8 | 3.91 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 3 | 3.91 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 3 | 3.91 |
| (1,8293) | 1:126:A:SER:HA | 1:127:A:ARG:HG3 | 2 | 3.91 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 17 | 3.91 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 17 | 3.91 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 17 | 3.91 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 17 | 3.91 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 17 | 3.91 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 17 | 3.91 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 8 | 3.91 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 8 | 3.91 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 8 | 3.91 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 8 | 3.91 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 15 | 3.91 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 9 | 3.91 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 19 | 3.91 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 19 | 3.91 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 19 | 3.91 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 12 | 3.91 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 5 | 3.91 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 5 | 3.91 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 5 | 3.91 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 14 | 3.91 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 14 | 3.91 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 14 | 3.91 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 14 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 14 | 3.91 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 14 | 3.91 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 8 | 3.91 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 14 | 3.91 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 11 | 3.91 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 11 | 3.91 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 9 | 3.91 |
| (1,7894) | 1:66:A:GLN:H | 1:82:A:LYS:H | 6 | 3.91 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 13 | 3.91 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 12 | 3.91 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 5 | 3.91 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 4 | 3.91 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 9 | 3.91 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 9 | 3.91 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 20 | 3.91 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 20 | 3.91 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 20 | 3.91 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 20 | 3.91 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 9 | 3.91 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 11 | 3.91 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 15 | 3.91 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 15 | 3.91 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 15 | 3.91 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 15 | 3.91 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 15 | 3.91 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 15 | 3.91 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 15 | 3.91 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 15 | 3.91 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 15 | 3.91 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 5 | 3.91 |
| (1,7622) | 1:26:A:ASN:HB3 | 1:28:A:ILE:HB | 19 | 3.91 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 12 | 3.91 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 19 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 19 | 3.91 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 6 | 3.91 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 1 | 3.91 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 1 | 3.91 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 1 | 3.91 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 12 | 3.91 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 12 | 3.91 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 3 | 3.91 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 3 | 3.91 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 10 | 3.91 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 10 | 3.91 |
| (1,7479) | 1:12:A:GLU:H | 1:26:A:ASN:H | 7 | 3.91 |
| (1,7464) | 1:11:A:TRP:HB2 | 1:37:A:PRO:HB2 | 11 | 3.91 |
| (1,7464) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HB2 | 11 | 3.91 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 4 | 3.91 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 4 | 3.91 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 9 | 3.91 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 9 | 3.91 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 9 | 3.91 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 11 | 3.91 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 11 | 3.91 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 11 | 3.91 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 13 | 3.91 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 13 | 3.91 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 2 | 3.91 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 8 | 3.91 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 12 | 3.91 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 12 | 3.91 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 14 | 3.91 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 3.91 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 9 | 3.91 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 9 | 3.91 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 14 | 3.91 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 14 | 3.91 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 14 | 3.91 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 17 | 3.91 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 17 | 3.91 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 9 | 3.91 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 9 | 3.91 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 2 | 3.91 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 4 | 3.91 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 7 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 7 | 3.91 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 7 | 3.91 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 5 | 3.91 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 5 | 3.91 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 5 | 3.91 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 8 | 3.91 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 8 | 3.91 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 8 | 3.91 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 11 | 3.91 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 10 | 3.91 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 18 | 3.91 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 17 | 3.91 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 4 | 3.91 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 15 | 3.91 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 16 | 3.91 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 12 | 3.91 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 5 | 3.91 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 6 | 3.91 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 15 | 3.91 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 15 | 3.91 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 15 | 3.91 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 6 | 3.91 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 6 | 3.91 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 6 | 3.91 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 20 | 3.91 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 12 | 3.91 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 12 | 3.91 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 12 | 3.91 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 8 | 3.91 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 8 | 3.91 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 8 | 3.91 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 14 | 3.91 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 14 | 3.91 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 14 | 3.91 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 11 | 3.91 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 11 | 3.91 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 11 | 3.91 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 13 | 3.91 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 13 | 3.91 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 13 | 3.91 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 2 | 3.91 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 2 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 6 | 3.91 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 6 | 3.91 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 6 | 3.91 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 18 | 3.91 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 18 | 3.91 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 18 | 3.91 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 6 | 3.91 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 6 | 3.91 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 6 | 3.91 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 14 | 3.91 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 14 | 3.91 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 14 | 3.91 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 4 | 3.91 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 9 | 3.91 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 3 | 3.91 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 5 | 3.91 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 5 | 3.91 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 9 | 3.91 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 16 | 3.91 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 8 | 3.91 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 8 | 3.91 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 15 | 3.91 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 15 | 3.91 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 15 | 3.91 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 12 | 3.91 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 12 | 3.91 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 12 | 3.91 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 6 | 3.91 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 16 | 3.91 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 4 | 3.91 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 5 | 3.91 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 14 | 3.91 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 15 | 3.91 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 11 | 3.91 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 13 | 3.91 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 7 | 3.91 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 7 | 3.91 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 7 | 3.91 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 7 | 3.91 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 7 | 3.91 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 7 | 3.91 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 11 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 11 | 3.91 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 11 | 3.91 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 1 | 3.91 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 2 | 3.91 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 13 | 3.91 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 17 | 3.91 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 17 | 3.91 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 17 | 3.91 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 4 | 3.91 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 4 | 3.91 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 4 | 3.91 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 8 | 3.91 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 8 | 3.91 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 8 | 3.91 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 2 | 3.91 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 20 | 3.91 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 20 | 3.91 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 8 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 18 | 3.91 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 18 | 3.91 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 7 | 3.91 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 7 | 3.91 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 7 | 3.91 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 5 | 3.91 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 5 | 3.91 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 12 | 3.91 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 6 | 3.91 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 6 | 3.91 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 6 | 3.91 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 8 | 3.91 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 8 | 3.91 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 8 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 1 | 3.91 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 1 | 3.91 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 1 | 3.91 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 15 | 3.91 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 15 | 3.91 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 15 | 3.91 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 18 | 3.91 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 11 | 3.91 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 6 | 3.91 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 5 | 3.91 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 20 | 3.91 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 16 | 3.91 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 12 | 3.91 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 12 | 3.91 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 12 | 3.91 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 12 | 3.91 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 12 | 3.91 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 12 | 3.91 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 10 | 3.91 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 8 | 3.91 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 8 | 3.91 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 16 | 3.91 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 5 | 3.91 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 5 | 3.91 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 5 | 3.91 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 13 | 3.91 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 13 | 3.91 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 13 | 3.91 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 2 | 3.91 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 2 | 3.91 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 2 | 3.91 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 4 | 3.91 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 4 | 3.91 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 4 | 3.91 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 4 | 3.91 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 4 | 3.91 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 4 | 3.91 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 4 | 3.91 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 4 | 3.91 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 4 | 3.91 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 17 | 3.91 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 3 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 7 | 3.91 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 7 | 3.91 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 7 | 3.91 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 11 | 3.91 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 11 | 3.91 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 11 | 3.91 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 16 | 3.91 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 16 | 3.91 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 18 | 3.91 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 18 | 3.91 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 18 | 3.91 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 3 | 3.91 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 3 | 3.91 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 3 | 3.91 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 2 | 3.91 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 2 | 3.91 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 3 | 3.91 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 3 | 3.91 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 13 | 3.91 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 13 | 3.91 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 5 | 3.91 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 5 | 3.91 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 5 | 3.91 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 16 | 3.91 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 11 | 3.91 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 11 | 3.91 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 11 | 3.91 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 11 | 3.91 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 11 | 3.91 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 11 | 3.91 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 4 | 3.91 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 4 | 3.91 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 6 | 3.91 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 13 | 3.91 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 13 | 3.91 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 1 | 3.91 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 20 | 3.91 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 20 | 3.91 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 20 | 3.91 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 20 | 3.91 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 9 | 3.91 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 9 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 9 | 3.91 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 9 | 3.91 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 6 | 3.91 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 6 | 3.91 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 6 | 3.91 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 8 | 3.91 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 8 | 3.91 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 8 | 3.91 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 8 | 3.91 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 3.91 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 3.91 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 3.91 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 3.91 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 15 | 3.91 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 4 | 3.91 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 4 | 3.91 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 17 | 3.91 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 17 | 3.91 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 17 | 3.91 |
| (1,4102) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 4 | 3.91 |
| (1,4102) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 4 | 3.91 |
| (1,4102) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 4 | 3.91 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 4 | 3.91 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 4 | 3.91 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 4 | 3.91 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 19 | 3.91 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 19 | 3.91 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 19 | 3.91 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 19 | 3.91 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 19 | 3.91 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 7 | 3.91 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 7 | 3.91 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 7 | 3.91 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 7 | 3.91 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 14 | 3.91 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 14 | 3.91 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 14 | 3.91 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 14 | 3.91 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 14 | 3.91 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 14 | 3.91 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 1 | 3.91 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 9 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 3 | 3.91 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 3 | 3.91 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 3 | 3.91 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 3 | 3.91 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 2 | 3.91 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 2 | 3.91 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 2 | 3.91 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 2 | 3.91 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 2 | 3.91 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 2 | 3.91 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 1 | 3.91 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 18 | 3.91 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 18 | 3.91 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 18 | 3.91 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 8 | 3.91 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 8 | 3.91 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 8 | 3.91 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 8 | 3.91 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 8 | 3.91 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 8 | 3.91 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 2 | 3.91 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 2 | 3.91 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 15 | 3.91 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 15 | 3.91 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 10 | 3.91 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 10 | 3.91 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 11 | 3.91 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 11 | 3.91 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 16 | 3.91 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 16 | 3.91 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 3 | 3.91 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 3 | 3.91 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 4 | 3.91 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 11 | 3.91 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 17 | 3.91 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 17 | 3.91 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 11 | 3.91 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 11 | 3.91 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 12 | 3.91 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 12 | 3.91 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 12 | 3.91 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 12 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 9 | 3.91 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 13 | 3.91 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 13 | 3.91 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 13 | 3.91 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 13 | 3.91 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 3 | 3.91 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 3 | 3.91 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 10 | 3.91 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 10 | 3.91 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 14 | 3.91 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 14 | 3.91 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 18 | 3.91 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 18 | 3.91 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 10 | 3.91 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 10 | 3.91 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 12 | 3.91 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 12 | 3.91 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 7 | 3.91 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 7 | 3.91 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 7 | 3.91 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 11 | 3.91 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 11 | 3.91 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 3.91 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 7 | 3.91 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 12 | 3.91 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 12 | 3.91 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 11 | 3.91 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 14 | 3.91 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 17 | 3.91 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 17 | 3.91 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 17 | 3.91 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 14 | 3.91 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 14 | 3.91 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 14 | 3.91 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 18 | 3.91 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 18 | 3.91 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 18 | 3.91 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 1 | 3.91 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 11 | 3.91 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 17 | 3.91 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 3.91 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 9 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 9 | 3.91 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 14 | 3.91 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 14 | 3.91 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 14 | 3.91 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 17 | 3.91 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 17 | 3.91 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 14 | 3.91 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 8 | 3.91 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 2 | 3.91 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 2 | 3.91 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 4 | 3.91 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 7 | 3.91 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 7 | 3.91 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 7 | 3.91 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 5 | 3.91 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 5 | 3.91 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 5 | 3.91 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 8 | 3.91 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 8 | 3.91 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 8 | 3.91 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 11 | 3.91 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 10 | 3.91 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 18 | 3.91 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 17 | 3.91 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 17 | 3.91 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 12 | 3.91 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 14 | 3.91 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 15 | 3.91 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 15 | 3.91 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 16 | 3.91 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 12 | 3.91 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 4 | 3.91 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 5 | 3.91 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 6 | 3.91 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 1 | 3.91 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 7 | 3.91 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 7 | 3.91 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 7 | 3.91 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 15 | 3.91 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 15 | 3.91 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 15 | 3.91 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 6 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 6 | 3.91 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 6 | 3.91 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 20 | 3.91 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 12 | 3.91 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 12 | 3.91 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 12 | 3.91 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 8 | 3.91 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 8 | 3.91 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 8 | 3.91 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 14 | 3.91 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 14 | 3.91 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 14 | 3.91 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 11 | 3.91 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 11 | 3.91 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 11 | 3.91 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 13 | 3.91 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 13 | 3.91 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 13 | 3.91 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 10 | 3.91 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 10 | 3.91 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 10 | 3.91 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 16 | 3.91 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 16 | 3.91 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 16 | 3.91 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 12 | 3.91 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 12 | 3.91 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 12 | 3.91 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 9 | 3.91 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 2 | 3.91 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 2 | 3.91 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 6 | 3.91 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 6 | 3.91 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 6 | 3.91 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 15 | 3.91 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 10 | 3.91 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 18 | 3.91 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 18 | 3.91 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 18 | 3.91 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 6 | 3.91 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 6 | 3.91 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 6 | 3.91 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 14 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 14 | 3.91 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 14 | 3.91 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 7 | 3.91 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 7 | 3.91 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 7 | 3.91 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 4 | 3.91 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 2 | 3.91 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 9 | 3.91 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 11 | 3.91 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 15 | 3.91 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 8 | 3.91 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 8 | 3.91 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 8 | 3.91 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 8 | 3.91 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 8 | 3.91 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 8 | 3.91 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 9 | 3.91 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 16 | 3.91 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 18 | 3.91 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 1 | 3.91 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 3 | 3.91 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 16 | 3.91 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 5 | 3.91 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 5 | 3.91 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 9 | 3.91 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 7 | 3.91 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 7 | 3.91 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 7 | 3.91 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 9 | 3.91 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 15 | 3.91 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 14 | 3.91 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 14 | 3.91 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 14 | 3.91 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 16 | 3.91 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 8 | 3.91 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 8 | 3.91 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 9 | 3.91 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 6 | 3.91 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 15 | 3.91 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 15 | 3.91 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 15 | 3.91 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 12 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 12 | 3.91 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 12 | 3.91 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 6 | 3.91 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 16 | 3.91 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 4 | 3.91 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 5 | 3.91 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 14 | 3.91 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 15 | 3.91 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 11 | 3.91 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 11 | 3.91 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 13 | 3.91 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 10 | 3.91 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 14 | 3.91 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 7 | 3.91 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 7 | 3.91 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 7 | 3.91 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 7 | 3.91 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 7 | 3.91 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 7 | 3.91 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 10 | 3.91 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 10 | 3.91 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 14 | 3.91 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 14 | 3.91 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 3 | 3.91 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 17 | 3.91 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 17 | 3.91 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 17 | 3.91 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 11 | 3.91 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 11 | 3.91 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 11 | 3.91 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 1 | 3.91 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 2 | 3.91 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 13 | 3.91 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 17 | 3.91 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 17 | 3.91 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 17 | 3.91 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 4 | 3.91 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 4 | 3.91 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 4 | 3.91 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 8 | 3.91 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 8 | 3.91 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 8 | 3.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 12 | 3.91 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 11 | 3.91 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 2 | 3.91 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 20 | 3.91 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 20 | 3.91 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 8 | 3.91 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 5 | 3.91 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 5 | 3.91 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 5 | 3.91 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 4 | 3.91 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 4 | 3.91 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 6 | 3.91 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 13 | 3.91 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 7 | 3.91 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 11 | 3.91 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 19 | 3.91 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 9 | 3.9 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 9 | 3.9 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 5 | 3.9 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 5 | 3.9 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 17 | 3.9 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 17 | 3.9 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 10 | 3.9 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 10 | 3.9 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 12 | 3.9 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 12 | 3.9 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 13 | 3.9 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 13 | 3.9 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 16 | 3.9 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 16 | 3.9 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 12 | 3.9 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 12 | 3.9 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 13 | 3.9 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 13 | 3.9 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 13 | 3.9 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 13 | 3.9 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 18 | 3.9 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 18 | 3.9 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 18 | 3.9 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 18 | 3.9 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 8 | 3.9 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 8 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 3 | 3.9 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 3 | 3.9 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 8 | 3.9 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 8 | 3.9 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 2 | 3.9 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 2 | 3.9 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 11 | 3.9 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 11 | 3.9 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 17 | 3.9 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 17 | 3.9 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 17 | 3.9 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 17 | 3.9 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 17 | 3.9 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 17 | 3.9 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 15 | 3.9 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 15 | 3.9 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 18 | 3.9 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 18 | 3.9 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 3 | 3.9 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 3 | 3.9 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 3 | 3.9 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 3 | 3.9 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 3 | 3.9 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 3 | 3.9 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 15 | 3.9 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 15 | 3.9 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 19 | 3.9 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 19 | 3.9 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB2 | 1 | 3.9 |
| (1,9092) | 1:86:A:LEU:H | 1:87:A:GLU:HB3 | 1 | 3.9 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 14 | 3.9 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 14 | 3.9 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 18 | 3.9 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 18 | 3.9 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 18 | 3.9 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 18 | 3.9 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 18 | 3.9 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 18 | 3.9 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 20 | 3.9 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 20 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 3 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 3 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 3 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 3 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 3 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 3 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 9 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 9 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 9 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 9 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 9 | 3.9 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 9 | 3.9 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 4 | 3.9 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 4 | 3.9 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 6 | 3.9 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 6 | 3.9 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 12 | 3.9 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 12 | 3.9 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 12 | 3.9 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 12 | 3.9 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 12 | 3.9 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 12 | 3.9 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 15 | 3.9 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 15 | 3.9 |
| (1,8917) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 4 | 3.9 |
| (1,8917) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 4 | 3.9 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 15 | 3.9 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 15 | 3.9 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 15 | 3.9 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 15 | 3.9 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 19 | 3.9 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 19 | 3.9 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 17 | 3.9 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 17 | 3.9 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 6 | 3.9 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 6 | 3.9 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 5 | 3.9 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 5 | 3.9 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 16 | 3.9 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 16 | 3.9 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 6 | 3.9 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 6 | 3.9 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 20 | 3.9 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 20 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 11 | 3.9 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 11 | 3.9 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 11 | 3.9 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 11 | 3.9 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 11 | 3.9 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 11 | 3.9 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 15 | 3.9 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 15 | 3.9 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 15 | 3.9 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 15 | 3.9 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 15 | 3.9 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 15 | 3.9 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 3.9 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 3.9 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 3.9 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 3.9 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 1 | 3.9 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 1 | 3.9 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 3 | 3.9 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 3 | 3.9 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 3 | 3.9 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 3 | 3.9 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 1 | 3.9 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 1 | 3.9 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 2 | 3.9 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 2 | 3.9 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 16 | 3.9 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 16 | 3.9 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 8 | 3.9 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 8 | 3.9 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 3 | 3.9 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 3 | 3.9 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 17 | 3.9 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 17 | 3.9 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 17 | 3.9 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 17 | 3.9 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 17 | 3.9 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 17 | 3.9 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 17 | 3.9 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 17 | 3.9 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 17 | 3.9 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 4 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 4 | 3.9 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 4 | 3.9 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 12 | 3.9 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 12 | 3.9 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 12 | 3.9 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 5 | 3.9 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 9 | 3.9 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 18 | 3.9 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG21 | 13 | 3.9 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG22 | 13 | 3.9 |
| (1,8373) | 1:137:A:ALA:HA | 1:150:A:VAL:HG23 | 13 | 3.9 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 11 | 3.9 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 11 | 3.9 |
| (1,8338) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD2 | 10 | 3.9 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 20 | 3.9 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 20 | 3.9 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 20 | 3.9 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 15 | 3.9 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 1 | 3.9 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 1 | 3.9 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 7 | 3.9 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 8 | 3.9 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 8 | 3.9 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 4 | 3.9 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 18 | 3.9 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 2 | 3.9 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 2 | 3.9 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 2 | 3.9 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 4 | 3.9 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 8 | 3.9 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 12 | 3.9 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 1 | 3.9 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 17 | 3.9 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 17 | 3.9 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 17 | 3.9 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 12 | 3.9 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 2 | 3.9 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 2 | 3.9 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 2 | 3.9 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 9 | 3.9 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 9 | 3.9 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 9 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD21 | 9 | 3.9 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD22 | 9 | 3.9 |
| (1,7803) | 1:60:A:LEU:H | 1:60:A:LEU:HD23 | 9 | 3.9 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 6 | 3.9 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 6 | 3.9 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 3 | 3.9 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 3 | 3.9 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 14 | 3.9 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 14 | 3.9 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 14 | 3.9 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 4 | 3.9 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 19 | 3.9 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 15 | 3.9 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 15 | 3.9 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 15 | 3.9 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 15 | 3.9 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 15 | 3.9 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 17 | 3.9 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 7 | 3.9 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 3 | 3.9 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 3 | 3.9 |
| (1,7499) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 3 | 3.9 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 1 | 3.9 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 1 | 3.9 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 2 | 3.9 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 2 | 3.9 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 12 | 3.9 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 8 | 3.9 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 10 | 3.9 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 10 | 3.9 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 10 | 3.9 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 6 | 3.9 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 6 | 3.9 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 6 | 3.9 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 6 | 3.9 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 6 | 3.9 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 13 | 3.9 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 5 | 3.9 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 11 | 3.9 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 11 | 3.9 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 17 | 3.9 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 18 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 4 | 3.9 |
| (1,7125) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 16 | 3.9 |
| (1,7125) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 16 | 3.9 |
| (1,7125) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 16 | 3.9 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 1 | 3.9 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 1 | 3.9 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 2 | 3.9 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 13 | 3.9 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 19 | 3.9 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 17 | 3.9 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 1 | 3.9 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 1 | 3.9 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 1 | 3.9 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 8 | 3.9 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 8 | 3.9 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 8 | 3.9 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 3 | 3.9 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 3 | 3.9 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 3 | 3.9 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 4 | 3.9 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 4 | 3.9 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 4 | 3.9 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 5 | 3.9 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 16 | 3.9 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 16 | 3.9 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 8 | 3.9 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 12 | 3.9 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 13 | 3.9 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 5 | 3.9 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 7 | 3.9 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 15 | 3.9 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 19 | 3.9 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 16 | 3.9 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 16 | 3.9 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 16 | 3.9 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 4 | 3.9 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 8 | 3.9 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 8 | 3.9 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 8 | 3.9 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 6 | 3.9 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 6 | 3.9 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 6 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 20 | 3.9 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 20 | 3.9 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 20 | 3.9 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 18 | 3.9 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 18 | 3.9 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 18 | 3.9 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 1 | 3.9 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 9 | 3.9 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 9 | 3.9 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 9 | 3.9 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 15 | 3.9 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 15 | 3.9 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 15 | 3.9 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 12 | 3.9 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 12 | 3.9 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 12 | 3.9 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 6 | 3.9 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 6 | 3.9 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 6 | 3.9 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 18 | 3.9 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 19 | 3.9 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 6 | 3.9 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 6 | 3.9 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 6 | 3.9 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 6 | 3.9 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 6 | 3.9 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 6 | 3.9 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 16 | 3.9 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 16 | 3.9 |
| (1,5994) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 16 | 3.9 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 1 | 3.9 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 20 | 3.9 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 7 | 3.9 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 7 | 3.9 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 7 | 3.9 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 7 | 3.9 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 7 | 3.9 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 7 | 3.9 |
| (1,5818) | 1:117:A:LYS:H | 1:119:A:ARG:H | 11 | 3.9 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 9 | 3.9 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 9 | 3.9 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 9 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 4 | 3.9 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 3.9 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 16 | 3.9 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 15 | 3.9 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 7 | 3.9 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 16 | 3.9 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 3 | 3.9 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 3 | 3.9 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 3 | 3.9 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 3 | 3.9 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 3 | 3.9 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 3 | 3.9 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 11 | 3.9 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 7 | 3.9 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 18 | 3.9 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 8 | 3.9 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 14 | 3.9 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 14 | 3.9 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 14 | 3.9 |
| (1,5500) | 1:94:A:GLN:H | 1:96:A:ILE:H | 15 | 3.9 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 11 | 3.9 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 11 | 3.9 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 11 | 3.9 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 11 | 3.9 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 11 | 3.9 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 3 | 3.9 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 3 | 3.9 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 3 | 3.9 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 3 | 3.9 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 3 | 3.9 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 3 | 3.9 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 11 | 3.9 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 11 | 3.9 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 11 | 3.9 |
| (1,5391) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 7 | 3.9 |
| (1,5391) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 7 | 3.9 |
| (1,5391) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 7 | 3.9 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 17 | 3.9 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 17 | 3.9 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 17 | 3.9 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 1 | 3.9 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 4 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 4 | 3.9 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 4 | 3.9 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 18 | 3.9 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 18 | 3.9 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 18 | 3.9 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 11 | 3.9 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 10 | 3.9 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 9 | 3.9 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 15 | 3.9 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 15 | 3.9 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 15 | 3.9 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 19 | 3.9 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 19 | 3.9 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 19 | 3.9 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 20 | 3.9 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 4 | 3.9 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 4 | 3.9 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 4 | 3.9 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 8 | 3.9 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 8 | 3.9 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 8 | 3.9 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 9 | 3.9 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 9 | 3.9 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 9 | 3.9 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 11 | 3.9 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 11 | 3.9 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 11 | 3.9 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 15 | 3.9 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 12 | 3.9 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 12 | 3.9 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 12 | 3.9 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 8 | 3.9 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 9 | 3.9 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 9 | 3.9 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 9 | 3.9 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 13 | 3.9 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 2 | 3.9 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 2 | 3.9 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 6 | 3.9 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 6 | 3.9 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 6 | 3.9 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 3 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 3 | 3.9 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 3 | 3.9 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 9 | 3.9 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 9 | 3.9 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 9 | 3.9 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 8 | 3.9 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 5 | 3.9 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 14 | 3.9 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 15 | 3.9 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 15 | 3.9 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 15 | 3.9 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 19 | 3.9 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 19 | 3.9 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 19 | 3.9 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 5 | 3.9 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 5 | 3.9 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 1 | 3.9 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 1 | 3.9 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 1 | 3.9 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 12 | 3.9 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 12 | 3.9 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 12 | 3.9 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 7 | 3.9 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 15 | 3.9 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 15 | 3.9 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 15 | 3.9 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 18 | 3.9 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 18 | 3.9 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 13 | 3.9 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 13 | 3.9 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 13 | 3.9 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 13 | 3.9 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 4 | 3.9 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 8 | 3.9 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 3 | 3.9 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 3 | 3.9 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 8 | 3.9 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 8 | 3.9 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 2 | 3.9 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 2 | 3.9 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 9 | 3.9 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 9 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 3.9 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 3.9 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 3.9 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 3.9 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 3.9 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 3.9 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 15 | 3.9 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 11 | 3.9 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 11 | 3.9 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 17 | 3.9 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 17 | 3.9 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 17 | 3.9 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 17 | 3.9 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 17 | 3.9 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 17 | 3.9 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 5 | 3.9 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 5 | 3.9 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 5 | 3.9 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 5 | 3.9 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 5 | 3.9 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 5 | 3.9 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 8 | 3.9 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 8 | 3.9 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 8 | 3.9 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 3 | 3.9 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 3 | 3.9 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 12 | 3.9 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 12 | 3.9 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 12 | 3.9 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 12 | 3.9 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 3 | 3.9 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 3 | 3.9 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 3 | 3.9 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 3 | 3.9 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 3 | 3.9 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 3 | 3.9 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 8 | 3.9 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 8 | 3.9 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 8 | 3.9 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 7 | 3.9 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 15 | 3.9 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 15 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 19 | 3.9 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 19 | 3.9 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 6 | 3.9 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 13 | 3.9 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 8 | 3.9 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 8 | 3.9 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 9 | 3.9 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 9 | 3.9 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 12 | 3.9 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 4 | 3.9 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 4 | 3.9 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 4 | 3.9 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 18 | 3.9 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 18 | 3.9 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 18 | 3.9 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 18 | 3.9 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 18 | 3.9 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 18 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 3 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 3 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 3 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 3 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 3 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 3 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 9 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 9 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 9 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 9 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 9 | 3.9 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 9 | 3.9 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 8 | 3.9 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 8 | 3.9 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 4 | 3.9 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 4 | 3.9 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 15 | 3.9 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 15 | 3.9 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 13 | 3.9 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 13 | 3.9 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 19 | 3.9 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 19 | 3.9 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 17 | 3.9 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 17 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 6 | 3.9 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 6 | 3.9 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 9 | 3.9 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 6 | 3.9 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 6 | 3.9 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 5 | 3.9 |
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 14 | 3.9 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 15 | 3.9 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 15 | 3.9 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 15 | 3.9 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 15 | 3.9 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 15 | 3.9 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 15 | 3.9 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 3.9 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 3.9 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 3.9 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 3.9 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 1 | 3.9 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 1 | 3.9 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 3 | 3.9 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 3 | 3.9 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 3 | 3.9 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 3 | 3.9 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 7 | 3.9 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 7 | 3.9 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 1 | 3.9 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 1 | 3.9 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 1 | 3.9 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 18 | 3.9 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 3.9 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 18 | 3.9 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 1 | 3.9 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 1 | 3.9 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 2 | 3.9 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 2 | 3.9 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 16 | 3.9 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 13 | 3.9 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 9 | 3.9 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 6 | 3.9 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 16 | 3.9 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 16 | 3.9 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 16 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 18 | 3.9 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 2 | 3.9 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 2 | 3.9 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 4 | 3.9 |
| (1,3220) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 16 | 3.9 |
| (1,3220) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 16 | 3.9 |
| (1,3220) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 16 | 3.9 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 1 | 3.9 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 1 | 3.9 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 3 | 3.9 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 3 | 3.9 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 3 | 3.9 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 2 | 3.9 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 2 | 3.9 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 2 | 3.9 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 2 | 3.9 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 13 | 3.9 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 19 | 3.9 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 17 | 3.9 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 1 | 3.9 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 1 | 3.9 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 1 | 3.9 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 8 | 3.9 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 8 | 3.9 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 8 | 3.9 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 3 | 3.9 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 3 | 3.9 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 3 | 3.9 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 9 | 3.9 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 9 | 3.9 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 9 | 3.9 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 4 | 3.9 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 4 | 3.9 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 4 | 3.9 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 5 | 3.9 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 16 | 3.9 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 16 | 3.9 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 8 | 3.9 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 6 | 3.9 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 12 | 3.9 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 20 | 3.9 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 20 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 20 | 3.9 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 6 | 3.9 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 16 | 3.9 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 9 | 3.9 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 13 | 3.9 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 5 | 3.9 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 7 | 3.9 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 14 | 3.9 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 15 | 3.9 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 19 | 3.9 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 16 | 3.9 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 16 | 3.9 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 16 | 3.9 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 4 | 3.9 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 19 | 3.9 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 16 | 3.9 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 8 | 3.9 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 8 | 3.9 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 8 | 3.9 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 8 | 3.9 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 6 | 3.9 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 6 | 3.9 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 6 | 3.9 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 20 | 3.9 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 20 | 3.9 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 20 | 3.9 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 18 | 3.9 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 18 | 3.9 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 18 | 3.9 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 1 | 3.9 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 10 | 3.9 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 10 | 3.9 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 10 | 3.9 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 10 | 3.9 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 10 | 3.9 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 10 | 3.9 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 10 | 3.9 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 10 | 3.9 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 10 | 3.9 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 16 | 3.9 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 9 | 3.9 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 9 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 9 | 3.9 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 15 | 3.9 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 15 | 3.9 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 15 | 3.9 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 1 | 3.9 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 1 | 3.9 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 1 | 3.9 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 7 | 3.9 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 7 | 3.9 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 7 | 3.9 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 12 | 3.9 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 12 | 3.9 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 12 | 3.9 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 6 | 3.9 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 6 | 3.9 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 6 | 3.9 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 18 | 3.9 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 19 | 3.9 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 13 | 3.9 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 18 | 3.9 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 6 | 3.9 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 6 | 3.9 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 6 | 3.9 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 6 | 3.9 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 6 | 3.9 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 6 | 3.9 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 16 | 3.9 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 16 | 3.9 |
| (1,1488) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 16 | 3.9 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 1 | 3.9 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 1 | 3.9 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 15 | 3.9 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 20 | 3.9 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 7 | 3.9 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 7 | 3.9 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 7 | 3.9 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 7 | 3.9 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 7 | 3.9 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 7 | 3.9 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 1 | 3.9 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 10 | 3.9 |
| (1,1182) | 1:117:A:LYS:H | 1:119:A:ARG:H | 11 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 9 | 3.9 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 9 | 3.9 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 9 | 3.9 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 7 | 3.9 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 7 | 3.9 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 7 | 3.9 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 4 | 3.9 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 3.9 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 15 | 3.9 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 12 | 3.9 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 12 | 3.9 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 12 | 3.9 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 3.9 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 16 | 3.9 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 15 | 3.9 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 7 | 3.9 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 16 | 3.9 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 13 | 3.9 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 13 | 3.9 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 13 | 3.9 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 13 | 3.9 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 13 | 3.9 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 13 | 3.9 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 3 | 3.9 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 3 | 3.9 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 3 | 3.9 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 3 | 3.9 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 3 | 3.9 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 3 | 3.9 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 18 | 3.9 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 18 | 3.9 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 11 | 3.9 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 7 | 3.9 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 18 | 3.9 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 8 | 3.9 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 14 | 3.9 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 14 | 3.9 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 14 | 3.9 |
| (1,650) | 1:94:A:GLN:H | 1:96:A:ILE:H | 15 | 3.9 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 11 | 3.9 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 11 | 3.9 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 11 | 3.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 11 | 3.9 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 11 | 3.9 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 3 | 3.9 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 3 | 3.9 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 3 | 3.9 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 3 | 3.9 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 3 | 3.9 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 3 | 3.9 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 3 | 3.9 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 14 | 3.9 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 5 | 3.89 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 11 | 3.89 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 11 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 1 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 1 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 6 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 6 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 7 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 7 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 8 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 8 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 9 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 9 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 11 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 11 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 14 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 14 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 18 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 18 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 19 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 19 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA2 | 20 | 3.89 |
| (1,9578) | 1:147:A:SER:HA | 1:148:A:GLY:HA3 | 20 | 3.89 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 7 | 3.89 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 7 | 3.89 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 3 | 3.89 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 3 | 3.89 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 14 | 3.89 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 14 | 3.89 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 17 | 3.89 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 17 | 3.89 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 17 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 17 | 3.89 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 11 | 3.89 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 11 | 3.89 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 11 | 3.89 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 11 | 3.89 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 11 | 3.89 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 11 | 3.89 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 7 | 3.89 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 7 | 3.89 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 4 | 3.89 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 4 | 3.89 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 4 | 3.89 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 4 | 3.89 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 14 | 3.89 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 14 | 3.89 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 14 | 3.89 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 14 | 3.89 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 14 | 3.89 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 14 | 3.89 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 12 | 3.89 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 12 | 3.89 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 12 | 3.89 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 12 | 3.89 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 9 | 3.89 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 9 | 3.89 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 9 | 3.89 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 9 | 3.89 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 9 | 3.89 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 9 | 3.89 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 7 | 3.89 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 7 | 3.89 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 7 | 3.89 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 7 | 3.89 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 8 | 3.89 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 8 | 3.89 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 8 | 3.89 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 8 | 3.89 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 8 | 3.89 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 8 | 3.89 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 20 | 3.89 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 20 | 3.89 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 20 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 20 | 3.89 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 4 | 3.89 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 4 | 3.89 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 14 | 3.89 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 14 | 3.89 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 14 | 3.89 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 14 | 3.89 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 14 | 3.89 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 14 | 3.89 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 17 | 3.89 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 17 | 3.89 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 8 | 3.89 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 8 | 3.89 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 8 | 3.89 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 8 | 3.89 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 8 | 3.89 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 8 | 3.89 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 18 | 3.89 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 18 | 3.89 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 2 | 3.89 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 2 | 3.89 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 4 | 3.89 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 4 | 3.89 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 10 | 3.89 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 10 | 3.89 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 16 | 3.89 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 16 | 3.89 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 4 | 3.89 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 4 | 3.89 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 5 | 3.89 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 5 | 3.89 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 3 | 3.89 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 3 | 3.89 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 15 | 3.89 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 15 | 3.89 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 15 | 3.89 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 15 | 3.89 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 15 | 3.89 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 15 | 3.89 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 10 | 3.89 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 10 | 3.89 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 8 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 8 | 3.89 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 8 | 3.89 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 8 | 3.89 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 8 | 3.89 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 8 | 3.89 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 1 | 3.89 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 1 | 3.89 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 1 | 3.89 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 1 | 3.89 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 1 | 3.89 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 1 | 3.89 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 3 | 3.89 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 3 | 3.89 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 2 | 3.89 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 2 | 3.89 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 13 | 3.89 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 13 | 3.89 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 14 | 3.89 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 14 | 3.89 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 14 | 3.89 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 14 | 3.89 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 4 | 3.89 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 4 | 3.89 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 15 | 3.89 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 15 | 3.89 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 15 | 3.89 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 15 | 3.89 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD2 | 19 | 3.89 |
| (1,8641) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HD3 | 19 | 3.89 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD2 | 19 | 3.89 |
| (1,8641) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HD3 | 19 | 3.89 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 8 | 3.89 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 8 | 3.89 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 19 | 3.89 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 19 | 3.89 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 13 | 3.89 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 12 | 3.89 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 12 | 3.89 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 12 | 3.89 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 12 | 3.89 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 12 | 3.89 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 12 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 12 | 3.89 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 12 | 3.89 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 12 | 3.89 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 9 | 3.89 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 19 | 3.89 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 4 | 3.89 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 11 | 3.89 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 11 | 3.89 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 15 | 3.89 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 15 | 3.89 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 15 | 3.89 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 5 | 3.89 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 5 | 3.89 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 5 | 3.89 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 5 | 3.89 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 5 | 3.89 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 5 | 3.89 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 5 | 3.89 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 12 | 3.89 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 12 | 3.89 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 12 | 3.89 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 12 | 3.89 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 12 | 3.89 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 12 | 3.89 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 12 | 3.89 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 12 | 3.89 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 19 | 3.89 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 19 | 3.89 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 16 | 3.89 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 13 | 3.89 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 13 | 3.89 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 7 | 3.89 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 7 | 3.89 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 12 | 3.89 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 12 | 3.89 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 12 | 3.89 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 12 | 3.89 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 12 | 3.89 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 12 | 3.89 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 12 | 3.89 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 12 | 3.89 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 12 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 9 | 3.89 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 1 | 3.89 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 16 | 3.89 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 16 | 3.89 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 16 | 3.89 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 16 | 3.89 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 16 | 3.89 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 16 | 3.89 |
| (1,7951) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 16 | 3.89 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 11 | 3.89 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 11 | 3.89 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 18 | 3.89 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 12 | 3.89 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 12 | 3.89 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 12 | 3.89 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 10 | 3.89 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 10 | 3.89 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 10 | 3.89 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 16 | 3.89 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 16 | 3.89 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 16 | 3.89 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 16 | 3.89 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 16 | 3.89 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 16 | 3.89 |
| (1,7677) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HG2 | 9 | 3.89 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 9 | 3.89 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 7 | 3.89 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 7 | 3.89 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 19 | 3.89 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 19 | 3.89 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 19 | 3.89 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 10 | 3.89 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 8 | 3.89 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 8 | 3.89 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 15 | 3.89 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 15 | 3.89 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 15 | 3.89 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 7 | 3.89 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 7 | 3.89 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 7 | 3.89 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 1 | 3.89 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 1 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 1 | 3.89 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 18 | 3.89 |
| (1,7362) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 18 | 3.89 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 13 | 3.89 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 13 | 3.89 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 13 | 3.89 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 5 | 3.89 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 5 | 3.89 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 5 | 3.89 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 4 | 3.89 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 16 | 3.89 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 16 | 3.89 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 4 | 3.89 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 4 | 3.89 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 4 | 3.89 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 14 | 3.89 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 9 | 3.89 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 4 | 3.89 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 4 | 3.89 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 1 | 3.89 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 17 | 3.89 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 17 | 3.89 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 17 | 3.89 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 9 | 3.89 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 9 | 3.89 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 9 | 3.89 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 5 | 3.89 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 13 | 3.89 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 16 | 3.89 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 1 | 3.89 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 12 | 3.89 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 12 | 3.89 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 12 | 3.89 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 8 | 3.89 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 1 | 3.89 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 17 | 3.89 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 4 | 3.89 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 4 | 3.89 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 4 | 3.89 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 11 | 3.89 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 16 | 3.89 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 18 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 1 | 3.89 |
| (1,6499) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 8 | 3.89 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 14 | 3.89 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 14 | 3.89 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 14 | 3.89 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 8 | 3.89 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 8 | 3.89 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 8 | 3.89 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 10 | 3.89 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 10 | 3.89 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 10 | 3.89 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 20 | 3.89 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 20 | 3.89 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 20 | 3.89 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 10 | 3.89 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 14 | 3.89 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 14 | 3.89 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 14 | 3.89 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 14 | 3.89 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 14 | 3.89 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 14 | 3.89 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 7 | 3.89 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 7 | 3.89 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 7 | 3.89 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 15 | 3.89 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 15 | 3.89 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 15 | 3.89 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 3 | 3.89 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 20 | 3.89 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 20 | 3.89 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 4 | 3.89 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 7 | 3.89 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 12 | 3.89 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 12 | 3.89 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 12 | 3.89 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 14 | 3.89 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 5 | 3.89 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 8 | 3.89 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 17 | 3.89 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 17 | 3.89 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 17 | 3.89 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 11 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 11 | 3.89 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 12 | 3.89 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 12 | 3.89 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 12 | 3.89 |
| (1,5766) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 5 | 3.89 |
| (1,5766) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 5 | 3.89 |
| (1,5766) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 5 | 3.89 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 10 | 3.89 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 12 | 3.89 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 11 | 3.89 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 12 | 3.89 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 12 | 3.89 |
| (1,5719) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 12 | 3.89 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 5 | 3.89 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 7 | 3.89 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 8 | 3.89 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 1 | 3.89 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 1 | 3.89 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 20 | 3.89 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 18 | 3.89 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 1 | 3.89 |
| (1,5483) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 1 | 3.89 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 12 | 3.89 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 1 | 3.89 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 1 | 3.89 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 1 | 3.89 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 14 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 2 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 2 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 2 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 2 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 2 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 2 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 2 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 2 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 2 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 6 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 6 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 6 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 6 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 6 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 6 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 6 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 6 | 3.89 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 6 | 3.89 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 10 | 3.89 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 10 | 3.89 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 10 | 3.89 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 11 | 3.89 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 11 | 3.89 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 11 | 3.89 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 18 | 3.89 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 1 | 3.89 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 14 | 3.89 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 14 | 3.89 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 14 | 3.89 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 14 | 3.89 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 14 | 3.89 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 14 | 3.89 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 14 | 3.89 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 14 | 3.89 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 14 | 3.89 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 10 | 3.89 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 12 | 3.89 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 12 | 3.89 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 12 | 3.89 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 5 | 3.89 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 5 | 3.89 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 5 | 3.89 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 9 | 3.89 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 9 | 3.89 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 9 | 3.89 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 15 | 3.89 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 15 | 3.89 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 15 | 3.89 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 7 | 3.89 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 18 | 3.89 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 20 | 3.89 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 8 | 3.89 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 13 | 3.89 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 17 | 3.89 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 4 | 3.89 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 4 | 3.89 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 4 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 6 | 3.89 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 6 | 3.89 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 6 | 3.89 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 16 | 3.89 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 16 | 3.89 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 16 | 3.89 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 14 | 3.89 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 14 | 3.89 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 14 | 3.89 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 11 | 3.89 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 11 | 3.89 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 11 | 3.89 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 1 | 3.89 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 19 | 3.89 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 4 | 3.89 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 4 | 3.89 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 4 | 3.89 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 12 | 3.89 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 12 | 3.89 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 7 | 3.89 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 7 | 3.89 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 18 | 3.89 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 18 | 3.89 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 9 | 3.89 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 9 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 9 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 9 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 9 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 9 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 10 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 10 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 10 | 3.89 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 10 | 3.89 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 6 | 3.89 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 6 | 3.89 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 6 | 3.89 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 4 | 3.89 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 9 | 3.89 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 9 | 3.89 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 9 | 3.89 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 10 | 3.89 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 10 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 10 | 3.89 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 6 | 3.89 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 6 | 3.89 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 6 | 3.89 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 3 | 3.89 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 3 | 3.89 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 3 | 3.89 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 3 | 3.89 |
| (1,4446) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 19 | 3.89 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 17 | 3.89 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 17 | 3.89 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 17 | 3.89 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 17 | 3.89 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 11 | 3.89 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 11 | 3.89 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 11 | 3.89 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 11 | 3.89 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 11 | 3.89 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 11 | 3.89 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 7 | 3.89 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 7 | 3.89 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 7 | 3.89 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 3 | 3.89 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 3 | 3.89 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 14 | 3.89 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 14 | 3.89 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 14 | 3.89 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 14 | 3.89 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 14 | 3.89 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 14 | 3.89 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 4 | 3.89 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 12 | 3.89 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 12 | 3.89 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 12 | 3.89 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 12 | 3.89 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 20 | 3.89 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 20 | 3.89 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 3.89 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 3.89 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 3.89 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 3.89 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 3.89 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 6 | 3.89 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 6 | 3.89 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 17 | 3.89 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 17 | 3.89 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 17 | 3.89 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 17 | 3.89 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 17 | 3.89 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 17 | 3.89 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 8 | 3.89 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 8 | 3.89 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 8 | 3.89 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 8 | 3.89 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 8 | 3.89 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 8 | 3.89 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 8 | 3.89 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 8 | 3.89 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 8 | 3.89 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 11 | 3.89 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 14 | 3.89 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 14 | 3.89 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 14 | 3.89 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 14 | 3.89 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 14 | 3.89 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 14 | 3.89 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 17 | 3.89 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 17 | 3.89 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 8 | 3.89 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 8 | 3.89 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 8 | 3.89 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 8 | 3.89 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 8 | 3.89 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 8 | 3.89 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 6 | 3.89 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 6 | 3.89 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 18 | 3.89 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 18 | 3.89 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 4 | 3.89 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 19 | 3.89 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 2 | 3.89 |
| (1,3934) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 16 | 3.89 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 8 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 8 | 3.89 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 7 | 3.89 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 7 | 3.89 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 6 | 3.89 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 3 | 3.89 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 3 | 3.89 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 18 | 3.89 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 19 | 3.89 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 3 | 3.89 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 3 | 3.89 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 10 | 3.89 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 10 | 3.89 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 8 | 3.89 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 8 | 3.89 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 8 | 3.89 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 8 | 3.89 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 8 | 3.89 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 8 | 3.89 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 6 | 3.89 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 1 | 3.89 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 1 | 3.89 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 1 | 3.89 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 1 | 3.89 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 1 | 3.89 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 1 | 3.89 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 15 | 3.89 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 15 | 3.89 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 15 | 3.89 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 15 | 3.89 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 1 | 3.89 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 1 | 3.89 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 8 | 3.89 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 8 | 3.89 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 18 | 3.89 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 5 | 3.89 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 5 | 3.89 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 5 | 3.89 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 4 | 3.89 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 16 | 3.89 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 16 | 3.89 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 11 | 3.89 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 4 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 4 | 3.89 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 4 | 3.89 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 14 | 3.89 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 19 | 3.89 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 9 | 3.89 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 4 | 3.89 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 4 | 3.89 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 1 | 3.89 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 17 | 3.89 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 17 | 3.89 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 17 | 3.89 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 12 | 3.89 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 7 | 3.89 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 9 | 3.89 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 9 | 3.89 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 9 | 3.89 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 5 | 3.89 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 13 | 3.89 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 16 | 3.89 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 1 | 3.89 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 19 | 3.89 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 12 | 3.89 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 12 | 3.89 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 12 | 3.89 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 11 | 3.89 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 6 | 3.89 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 10 | 3.89 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 2 | 3.89 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 17 | 3.89 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 8 | 3.89 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 17 | 3.89 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 4 | 3.89 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 4 | 3.89 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 4 | 3.89 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 11 | 3.89 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 16 | 3.89 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 18 | 3.89 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 2 | 3.89 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 1 | 3.89 |
| (1,2330) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 8 | 3.89 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 14 | 3.89 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 14 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 14 | 3.89 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 9 | 3.89 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 9 | 3.89 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 9 | 3.89 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 7 | 3.89 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 8 | 3.89 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 8 | 3.89 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 8 | 3.89 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 10 | 3.89 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 10 | 3.89 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 10 | 3.89 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 12 | 3.89 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 12 | 3.89 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 12 | 3.89 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 20 | 3.89 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 20 | 3.89 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 20 | 3.89 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 10 | 3.89 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 14 | 3.89 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 14 | 3.89 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 14 | 3.89 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 14 | 3.89 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 14 | 3.89 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 14 | 3.89 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 5 | 3.89 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 5 | 3.89 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 5 | 3.89 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 7 | 3.89 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 18 | 3.89 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 7 | 3.89 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 7 | 3.89 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 7 | 3.89 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 15 | 3.89 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 15 | 3.89 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 15 | 3.89 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 15 | 3.89 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 15 | 3.89 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 15 | 3.89 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 18 | 3.89 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 3 | 3.89 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 20 | 3.89 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 20 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 7 | 3.89 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 6 | 3.89 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 6 | 3.89 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 6 | 3.89 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 12 | 3.89 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 12 | 3.89 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 12 | 3.89 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 3.89 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 14 | 3.89 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 5 | 3.89 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 11 | 3.89 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 20 | 3.89 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 8 | 3.89 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 17 | 3.89 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 17 | 3.89 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 17 | 3.89 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 11 | 3.89 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 11 | 3.89 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 4 | 3.89 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 9 | 3.89 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 9 | 3.89 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 9 | 3.89 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 9 | 3.89 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 12 | 3.89 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 12 | 3.89 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 12 | 3.89 |
| (1,1112) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 5 | 3.89 |
| (1,1112) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 5 | 3.89 |
| (1,1112) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 5 | 3.89 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 8 | 3.89 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 8 | 3.89 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 10 | 3.89 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 12 | 3.89 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 11 | 3.89 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 12 | 3.89 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 12 | 3.89 |
| (1,1004) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 12 | 3.89 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 5 | 3.89 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 7 | 3.89 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 8 | 3.89 |
| (1,856) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 12 | 3.89 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 13 | 3.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 1 | 3.89 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 1 | 3.89 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 20 | 3.89 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 3 | 3.89 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 18 | 3.89 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 19 | 3.89 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 1 | 3.89 |
| (1,598) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 1 | 3.89 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 12 | 3.89 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 1 | 3.89 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 1 | 3.89 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 1 | 3.89 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 11 | 3.89 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 11 | 3.89 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 15 | 3.89 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 15 | 3.89 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 15 | 3.89 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 4 | 3.89 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 12 | 3.88 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 8 | 3.88 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 9 | 3.88 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 11 | 3.88 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 11 | 3.88 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 13 | 3.88 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 13 | 3.88 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 5 | 3.88 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 5 | 3.88 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 18 | 3.88 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 18 | 3.88 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 6 | 3.88 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 6 | 3.88 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 9 | 3.88 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 9 | 3.88 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 10 | 3.88 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 10 | 3.88 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 10 | 3.88 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 10 | 3.88 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 10 | 3.88 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 10 | 3.88 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 4 | 3.88 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 4 | 3.88 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 14 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 14 | 3.88 |
| (1,9372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HA | 1 | 3.88 |
| (1,9372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HA | 1 | 3.88 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 2 | 3.88 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 2 | 3.88 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 2 | 3.88 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 2 | 3.88 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 9 | 3.88 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 9 | 3.88 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 4 | 3.88 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 4 | 3.88 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 4 | 3.88 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 4 | 3.88 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 4 | 3.88 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 4 | 3.88 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 20 | 3.88 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 20 | 3.88 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 20 | 3.88 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 20 | 3.88 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 13 | 3.88 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 13 | 3.88 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 13 | 3.88 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 13 | 3.88 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 20 | 3.88 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 20 | 3.88 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 16 | 3.88 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 16 | 3.88 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 16 | 3.88 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 16 | 3.88 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 16 | 3.88 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 16 | 3.88 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 4 | 3.88 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 4 | 3.88 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 4 | 3.88 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 4 | 3.88 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 4 | 3.88 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 4 | 3.88 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 11 | 3.88 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 11 | 3.88 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 12 | 3.88 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 12 | 3.88 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 12 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 12 | 3.88 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 11 | 3.88 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 11 | 3.88 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 11 | 3.88 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 11 | 3.88 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 11 | 3.88 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 11 | 3.88 |
| (1,9028) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HA | 1 | 3.88 |
| (1,9028) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HA | 1 | 3.88 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 14 | 3.88 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 14 | 3.88 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 14 | 3.88 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 14 | 3.88 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 14 | 3.88 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 14 | 3.88 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 14 | 3.88 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 14 | 3.88 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 15 | 3.88 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 15 | 3.88 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 8 | 3.88 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 8 | 3.88 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 8 | 3.88 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 8 | 3.88 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 8 | 3.88 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 8 | 3.88 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 8 | 3.88 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 8 | 3.88 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 10 | 3.88 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 10 | 3.88 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 10 | 3.88 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 10 | 3.88 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 10 | 3.88 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 10 | 3.88 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 15 | 3.88 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 15 | 3.88 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 9 | 3.88 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 9 | 3.88 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 12 | 3.88 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 12 | 3.88 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 12 | 3.88 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 12 | 3.88 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 7 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 7 | 3.88 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 17 | 3.88 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 17 | 3.88 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 6 | 3.88 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 6 | 3.88 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 10 | 3.88 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 10 | 3.88 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 8 | 3.88 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 8 | 3.88 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 8 | 3.88 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 9 | 3.88 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 9 | 3.88 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 9 | 3.88 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 7 | 3.88 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 15 | 3.88 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 15 | 3.88 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 15 | 3.88 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 9 | 3.88 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 9 | 3.88 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 9 | 3.88 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 17 | 3.88 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 17 | 3.88 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 17 | 3.88 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 8 | 3.88 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 8 | 3.88 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 8 | 3.88 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 8 | 3.88 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 8 | 3.88 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 8 | 3.88 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 4 | 3.88 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 4 | 3.88 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 4 | 3.88 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 7 | 3.88 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 20 | 3.88 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 4 | 3.88 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 19 | 3.88 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 19 | 3.88 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 3 | 3.88 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 14 | 3.88 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 14 | 3.88 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 14 | 3.88 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 13 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 16 | 3.88 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 7 | 3.88 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 3 | 3.88 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 9 | 3.88 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 9 | 3.88 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 9 | 3.88 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 17 | 3.88 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 17 | 3.88 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 17 | 3.88 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 14 | 3.88 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 17 | 3.88 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 19 | 3.88 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 17 | 3.88 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 10 | 3.88 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 10 | 3.88 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 10 | 3.88 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 6 | 3.88 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 6 | 3.88 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 6 | 3.88 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 14 | 3.88 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 14 | 3.88 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 14 | 3.88 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 8 | 3.88 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 8 | 3.88 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 8 | 3.88 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 19 | 3.88 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 19 | 3.88 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 14 | 3.88 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 14 | 3.88 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 15 | 3.88 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 15 | 3.88 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 8 | 3.88 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 8 | 3.88 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 8 | 3.88 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD11 | 8 | 3.88 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD12 | 8 | 3.88 |
| (1,7614) | 1:26:A:ASN:HA | 1:28:A:ILE:HD13 | 8 | 3.88 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 8 | 3.88 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 8 | 3.88 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 9 | 3.88 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 9 | 3.88 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 9 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 20 | 3.88 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 20 | 3.88 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 20 | 3.88 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 2 | 3.88 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 2 | 3.88 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 2 | 3.88 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 4 | 3.88 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 4 | 3.88 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 7 | 3.88 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 7 | 3.88 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 17 | 3.88 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 17 | 3.88 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 13 | 3.88 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 20 | 3.88 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 20 | 3.88 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 3 | 3.88 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 3 | 3.88 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 3 | 3.88 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 4 | 3.88 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 20 | 3.88 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 9 | 3.88 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 9 | 3.88 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 9 | 3.88 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 7 | 3.88 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 7 | 3.88 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 12 | 3.88 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 9 | 3.88 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 10 | 3.88 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 20 | 3.88 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 20 | 3.88 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 20 | 3.88 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 12 | 3.88 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 12 | 3.88 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 12 | 3.88 |
| (1,7129) | 1:90:A:ASN:H | 1:92:A:TYR:H | 1 | 3.88 |
| (1,7034) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 16 | 3.88 |
| (1,7007) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 3 | 3.88 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 10 | 3.88 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 2 | 3.88 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 1 | 3.88 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 18 | 3.88 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 14 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 17 | 3.88 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 6 | 3.88 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 20 | 3.88 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 20 | 3.88 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 20 | 3.88 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 16 | 3.88 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 8 | 3.88 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 8 | 3.88 |
| (1,6808) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 15 | 3.88 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 7 | 3.88 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 7 | 3.88 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 15 | 3.88 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 9 | 3.88 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 9 | 3.88 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 7 | 3.88 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 7 | 3.88 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 17 | 3.88 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 17 | 3.88 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 17 | 3.88 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 20 | 3.88 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 19 | 3.88 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 19 | 3.88 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 19 | 3.88 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 19 | 3.88 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 19 | 3.88 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 19 | 3.88 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 4 | 3.88 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 20 | 3.88 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 20 | 3.88 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 20 | 3.88 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 14 | 3.88 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 14 | 3.88 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 14 | 3.88 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 2 | 3.88 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 2 | 3.88 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 2 | 3.88 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 4 | 3.88 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 4 | 3.88 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 4 | 3.88 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 9 | 3.88 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 9 | 3.88 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 9 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 15 | 3.88 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 15 | 3.88 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 15 | 3.88 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 2 | 3.88 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 2 | 3.88 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 16 | 3.88 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 16 | 3.88 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 18 | 3.88 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 5 | 3.88 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 5 | 3.88 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 5 | 3.88 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 14 | 3.88 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 14 | 3.88 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 14 | 3.88 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 18 | 3.88 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 8 | 3.88 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 13 | 3.88 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 9 | 3.88 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 9 | 3.88 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 3 | 3.88 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 16 | 3.88 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 16 | 3.88 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 16 | 3.88 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 1 | 3.88 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 1 | 3.88 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 1 | 3.88 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 4 | 3.88 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 13 | 3.88 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 13 | 3.88 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 13 | 3.88 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 2 | 3.88 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 19 | 3.88 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 19 | 3.88 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 20 | 3.88 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 20 | 3.88 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 12 | 3.88 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 12 | 3.88 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 12 | 3.88 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 6 | 3.88 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 6 | 3.88 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 18 | 3.88 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 5 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 3 | 3.88 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 17 | 3.88 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 19 | 3.88 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 19 | 3.88 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 19 | 3.88 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 16 | 3.88 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 16 | 3.88 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 16 | 3.88 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 2 | 3.88 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 2 | 3.88 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 2 | 3.88 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 2 | 3.88 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 2 | 3.88 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 2 | 3.88 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 1 | 3.88 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 14 | 3.88 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 17 | 3.88 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 9 | 3.88 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 9 | 3.88 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 9 | 3.88 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 10 | 3.88 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 10 | 3.88 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 10 | 3.88 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 17 | 3.88 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 5 | 3.88 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 5 | 3.88 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 5 | 3.88 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 20 | 3.88 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 20 | 3.88 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 20 | 3.88 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 11 | 3.88 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 11 | 3.88 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 11 | 3.88 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 1 | 3.88 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 1 | 3.88 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 1 | 3.88 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 17 | 3.88 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 15 | 3.88 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 12 | 3.88 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 12 | 3.88 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 12 | 3.88 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 11 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 11 | 3.88 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 11 | 3.88 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 6 | 3.88 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 6 | 3.88 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 6 | 3.88 |
| (1,5206) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 17 | 3.88 |
| (1,5206) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 17 | 3.88 |
| (1,5206) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 17 | 3.88 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 8 | 3.88 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 2 | 3.88 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 3 | 3.88 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 4 | 3.88 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 4 | 3.88 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 4 | 3.88 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 8 | 3.88 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 8 | 3.88 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 8 | 3.88 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 5 | 3.88 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 17 | 3.88 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 17 | 3.88 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 17 | 3.88 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 19 | 3.88 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 5 | 3.88 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 16 | 3.88 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 1 | 3.88 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 9 | 3.88 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 9 | 3.88 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 9 | 3.88 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 20 | 3.88 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 20 | 3.88 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 20 | 3.88 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 20 | 3.88 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 20 | 3.88 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 20 | 3.88 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 20 | 3.88 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 20 | 3.88 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 20 | 3.88 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 9 | 3.88 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 9 | 3.88 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 9 | 3.88 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 7 | 3.88 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 12 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 12 | 3.88 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 12 | 3.88 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 7 | 3.88 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 7 | 3.88 |
| (1,4753) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 7 | 3.88 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 13 | 3.88 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 13 | 3.88 |
| (1,4712) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 13 | 3.88 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 6 | 3.88 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 16 | 3.88 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 16 | 3.88 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 16 | 3.88 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 5 | 3.88 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 17 | 3.88 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 17 | 3.88 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 17 | 3.88 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 4 | 3.88 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 4 | 3.88 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 4 | 3.88 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 4 | 3.88 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 4 | 3.88 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 4 | 3.88 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 5 | 3.88 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 5 | 3.88 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 2 | 3.88 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 11 | 3.88 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 10 | 3.88 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 10 | 3.88 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 10 | 3.88 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 10 | 3.88 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 10 | 3.88 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 10 | 3.88 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 4 | 3.88 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 4 | 3.88 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 9 | 3.88 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 9 | 3.88 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 7 | 3.88 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 7 | 3.88 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 17 | 3.88 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 11 | 3.88 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 3 | 3.88 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 18 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 14 | 3.88 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 14 | 3.88 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 14 | 3.88 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 14 | 3.88 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 14 | 3.88 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 14 | 3.88 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 13 | 3.88 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 13 | 3.88 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 13 | 3.88 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 15 | 3.88 |
| (1,3902) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 14 | 3.88 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 17 | 3.88 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 8 | 3.88 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 8 | 3.88 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 8 | 3.88 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 8 | 3.88 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 8 | 3.88 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 8 | 3.88 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 8 | 3.88 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 8 | 3.88 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 8 | 3.88 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 16 | 3.88 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 6 | 3.88 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 19 | 3.88 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 15 | 3.88 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 15 | 3.88 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 8 | 3.88 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 8 | 3.88 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 8 | 3.88 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 8 | 3.88 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 8 | 3.88 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 8 | 3.88 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 15 | 3.88 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 15 | 3.88 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 15 | 3.88 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 18 | 3.88 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 3 | 3.88 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 3 | 3.88 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 10 | 3.88 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 10 | 3.88 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 18 | 3.88 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 18 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 12 | 3.88 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 3.88 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 12 | 3.88 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 12 | 3.88 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 3.88 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 12 | 3.88 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 7 | 3.88 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 7 | 3.88 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 17 | 3.88 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 17 | 3.88 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 6 | 3.88 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 6 | 3.88 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 6 | 3.88 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 10 | 3.88 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 10 | 3.88 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 18 | 3.88 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 1 | 3.88 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 17 | 3.88 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 9 | 3.88 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 20 | 3.88 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 16 | 3.88 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 1 | 3.88 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 20 | 3.88 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 20 | 3.88 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 20 | 3.88 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 12 | 3.88 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 12 | 3.88 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 12 | 3.88 |
| (1,3226) | 1:90:A:ASN:H | 1:92:A:TYR:H | 1 | 3.88 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 5 | 3.88 |
| (1,3092) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 16 | 3.88 |
| (1,3050) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 3 | 3.88 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 10 | 3.88 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 2 | 3.88 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 1 | 3.88 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 18 | 3.88 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 3 | 3.88 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 14 | 3.88 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 17 | 3.88 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 6 | 3.88 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 20 | 3.88 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 20 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 20 | 3.88 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 16 | 3.88 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 8 | 3.88 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 8 | 3.88 |
| (1,2786) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 15 | 3.88 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 7 | 3.88 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 7 | 3.88 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 15 | 3.88 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 9 | 3.88 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 9 | 3.88 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 7 | 3.88 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 7 | 3.88 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 17 | 3.88 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 17 | 3.88 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 17 | 3.88 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 20 | 3.88 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 8 | 3.88 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 19 | 3.88 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 15 | 3.88 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 19 | 3.88 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 19 | 3.88 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 19 | 3.88 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 19 | 3.88 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 19 | 3.88 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 2 | 3.88 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 4 | 3.88 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 20 | 3.88 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 20 | 3.88 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 20 | 3.88 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 9 | 3.88 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 9 | 3.88 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 9 | 3.88 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 13 | 3.88 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 2 | 3.88 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 2 | 3.88 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 2 | 3.88 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 13 | 3.88 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 13 | 3.88 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 13 | 3.88 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 4 | 3.88 |
| (1,2014) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 4 | 3.88 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 4 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 4 | 3.88 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 4 | 3.88 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 9 | 3.88 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 9 | 3.88 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 9 | 3.88 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 15 | 3.88 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 15 | 3.88 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 15 | 3.88 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 2 | 3.88 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 2 | 3.88 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 16 | 3.88 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 16 | 3.88 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 18 | 3.88 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 5 | 3.88 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 5 | 3.88 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 5 | 3.88 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 14 | 3.88 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 14 | 3.88 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 14 | 3.88 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 18 | 3.88 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 6 | 3.88 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 8 | 3.88 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 13 | 3.88 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 9 | 3.88 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 9 | 3.88 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 3 | 3.88 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 16 | 3.88 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 16 | 3.88 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 16 | 3.88 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 4 | 3.88 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 13 | 3.88 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 13 | 3.88 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 13 | 3.88 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 4 | 3.88 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 2 | 3.88 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 19 | 3.88 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 19 | 3.88 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 20 | 3.88 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 20 | 3.88 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 12 | 3.88 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 12 | 3.88 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 12 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 2 | 3.88 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 6 | 3.88 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 6 | 3.88 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 18 | 3.88 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 15 | 3.88 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 5 | 3.88 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 3 | 3.88 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 17 | 3.88 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 9 | 3.88 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 9 | 3.88 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 9 | 3.88 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 19 | 3.88 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 19 | 3.88 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 19 | 3.88 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 16 | 3.88 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 16 | 3.88 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 16 | 3.88 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 2 | 3.88 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 2 | 3.88 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 2 | 3.88 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 2 | 3.88 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 2 | 3.88 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 2 | 3.88 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 9 | 3.88 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 1 | 3.88 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 14 | 3.88 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 17 | 3.88 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 2 | 3.88 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 15 | 3.88 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 9 | 3.88 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 9 | 3.88 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 9 | 3.88 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 14 | 3.88 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 14 | 3.88 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 14 | 3.88 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 10 | 3.88 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 10 | 3.88 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 10 | 3.88 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 17 | 3.88 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 5 | 3.88 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 5 | 3.88 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 5 | 3.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 8 | 3.88 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 11 | 3.88 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 7 | 3.87 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 7 | 3.87 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 19 | 3.87 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 19 | 3.87 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 17 | 3.87 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 17 | 3.87 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 14 | 3.87 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 14 | 3.87 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 9 | 3.87 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 9 | 3.87 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 6 | 3.87 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 6 | 3.87 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 13 | 3.87 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 13 | 3.87 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 16 | 3.87 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 16 | 3.87 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 18 | 3.87 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 18 | 3.87 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 8 | 3.87 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 8 | 3.87 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 19 | 3.87 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 19 | 3.87 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 19 | 3.87 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 19 | 3.87 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 19 | 3.87 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 19 | 3.87 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 4 | 3.87 |
| (1,9324) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 4 | 3.87 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 4 | 3.87 |
| (1,9324) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 4 | 3.87 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 4 | 3.87 |
| (1,9324) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 4 | 3.87 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB1 | 12 | 3.87 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB2 | 12 | 3.87 |
| (1,9302) | 1:104:A:GLU:HG2 | 1:107:A:ALA:HB3 | 12 | 3.87 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB1 | 12 | 3.87 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB2 | 12 | 3.87 |
| (1,9302) | 1:104:A:GLU:HG3 | 1:107:A:ALA:HB3 | 12 | 3.87 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 10 | 3.87 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 10 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 3 | 3.87 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 3 | 3.87 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 9 | 3.87 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 9 | 3.87 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 9 | 3.87 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 9 | 3.87 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 9 | 3.87 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 9 | 3.87 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 4 | 3.87 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 4 | 3.87 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 4 | 3.87 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 4 | 3.87 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 2 | 3.87 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 2 | 3.87 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD21 | 7 | 3.87 |
| (1,9108) | 1:87:A:GLU:H | 1:90:A:ASN:HD22 | 7 | 3.87 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 19 | 3.87 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 19 | 3.87 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 19 | 3.87 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 19 | 3.87 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 19 | 3.87 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 19 | 3.87 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 1 | 3.87 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 1 | 3.87 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 1 | 3.87 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 1 | 3.87 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 1 | 3.87 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 1 | 3.87 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 2 | 3.87 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 2 | 3.87 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 10 | 3.87 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 10 | 3.87 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 18 | 3.87 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 18 | 3.87 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 14 | 3.87 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 14 | 3.87 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 9 | 3.87 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 9 | 3.87 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 9 | 3.87 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 9 | 3.87 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 9 | 3.87 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 9 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG2 | 8 | 3.87 |
| (1,8996) | 1:76:A:GLU:H | 1:76:A:GLU:HG3 | 8 | 3.87 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 11 | 3.87 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 11 | 3.87 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 11 | 3.87 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 11 | 3.87 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 11 | 3.87 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 11 | 3.87 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 10 | 3.87 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 10 | 3.87 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 11 | 3.87 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 11 | 3.87 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 4 | 3.87 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 4 | 3.87 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 7 | 3.87 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 7 | 3.87 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 4 | 3.87 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 4 | 3.87 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 2 | 3.87 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 2 | 3.87 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 7 | 3.87 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 7 | 3.87 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 3.87 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 3.87 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 18 | 3.87 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 18 | 3.87 |
| (1,8674) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 2 | 3.87 |
| (1,8674) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 2 | 3.87 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 10 | 3.87 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 10 | 3.87 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 10 | 3.87 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 10 | 3.87 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 10 | 3.87 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 10 | 3.87 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 14 | 3.87 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 14 | 3.87 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 20 | 3.87 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 20 | 3.87 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 14 | 3.87 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 14 | 3.87 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 14 | 3.87 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 14 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 7 | 3.87 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 7 | 3.87 |
| (1,8481) | 1:153:A:ASP:H | 1:154:A:SER:HA | 18 | 3.87 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 10 | 3.87 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 10 | 3.87 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 5 | 3.87 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 5 | 3.87 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 5 | 3.87 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 4 | 3.87 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 16 | 3.87 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 5 | 3.87 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 5 | 3.87 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 5 | 3.87 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 15 | 3.87 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 16 | 3.87 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 16 | 3.87 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 3 | 3.87 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 3 | 3.87 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 9 | 3.87 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 3 | 3.87 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 3 | 3.87 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 3 | 3.87 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 3 | 3.87 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 3 | 3.87 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 3 | 3.87 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 18 | 3.87 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 7 | 3.87 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 7 | 3.87 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 7 | 3.87 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 16 | 3.87 |
| (1,8059) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HA | 12 | 3.87 |
| (1,8059) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HA | 12 | 3.87 |
| (1,8059) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HA | 12 | 3.87 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 18 | 3.87 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 18 | 3.87 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 18 | 3.87 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 7 | 3.87 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 7 | 3.87 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 7 | 3.87 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 7 | 3.87 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 7 | 3.87 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 7 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 2 | 3.87 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 2 | 3.87 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 2 | 3.87 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 7 | 3.87 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 7 | 3.87 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 7 | 3.87 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 19 | 3.87 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 19 | 3.87 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 19 | 3.87 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 16 | 3.87 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 16 | 3.87 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 16 | 3.87 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 7 | 3.87 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 5 | 3.87 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 5 | 3.87 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 5 | 3.87 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 2 | 3.87 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 2 | 3.87 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 7 | 3.87 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 7 | 3.87 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 8 | 3.87 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 2 | 3.87 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 2 | 3.87 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 2 | 3.87 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 2 | 3.87 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 2 | 3.87 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 2 | 3.87 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 2 | 3.87 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 2 | 3.87 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 2 | 3.87 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 7 | 3.87 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 7 | 3.87 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 7 | 3.87 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 7 | 3.87 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 7 | 3.87 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 7 | 3.87 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 7 | 3.87 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 7 | 3.87 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 7 | 3.87 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 20 | 3.87 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 20 | 3.87 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 20 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 20 | 3.87 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 20 | 3.87 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 20 | 3.87 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 20 | 3.87 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 20 | 3.87 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 20 | 3.87 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 19 | 3.87 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 18 | 3.87 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 20 | 3.87 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 2 | 3.87 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 2 | 3.87 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 2 | 3.87 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 2 | 3.87 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 12 | 3.87 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 11 | 3.87 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 11 | 3.87 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 11 | 3.87 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 11 | 3.87 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 11 | 3.87 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 11 | 3.87 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 18 | 3.87 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 18 | 3.87 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 18 | 3.87 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 1 | 3.87 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 1 | 3.87 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 1 | 3.87 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 1 | 3.87 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 1 | 3.87 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 1 | 3.87 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 2 | 3.87 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 2 | 3.87 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 2 | 3.87 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 14 | 3.87 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 16 | 3.87 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 10 | 3.87 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 10 | 3.87 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 1 | 3.87 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 2 | 3.87 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 2 | 3.87 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 2 | 3.87 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 8 | 3.87 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 8 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 8 | 3.87 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 8 | 3.87 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 8 | 3.87 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 8 | 3.87 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 6 | 3.87 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 3 | 3.87 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 5 | 3.87 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 1 | 3.87 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 18 | 3.87 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 9 | 3.87 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 15 | 3.87 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 15 | 3.87 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 15 | 3.87 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 8 | 3.87 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 8 | 3.87 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 8 | 3.87 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 13 | 3.87 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 13 | 3.87 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 13 | 3.87 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 4 | 3.87 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 4 | 3.87 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 4 | 3.87 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 16 | 3.87 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 9 | 3.87 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 16 | 3.87 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 16 | 3.87 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 13 | 3.87 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 13 | 3.87 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 1 | 3.87 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 1 | 3.87 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 18 | 3.87 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 20 | 3.87 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 19 | 3.87 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 13 | 3.87 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 4 | 3.87 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 4 | 3.87 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 11 | 3.87 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 11 | 3.87 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 11 | 3.87 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 19 | 3.87 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 4 | 3.87 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 4 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 4 | 3.87 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 19 | 3.87 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 19 | 3.87 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 19 | 3.87 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 15 | 3.87 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 15 | 3.87 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 15 | 3.87 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 12 | 3.87 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 12 | 3.87 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 12 | 3.87 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 15 | 3.87 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 15 | 3.87 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 15 | 3.87 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 6 | 3.87 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 6 | 3.87 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 11 | 3.87 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 16 | 3.87 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 3 | 3.87 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 3 | 3.87 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 3 | 3.87 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 6 | 3.87 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 20 | 3.87 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 20 | 3.87 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 20 | 3.87 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 20 | 3.87 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 20 | 3.87 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 20 | 3.87 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 5 | 3.87 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 7 | 3.87 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 7 | 3.87 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 7 | 3.87 |
| (1,5772) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 2 | 3.87 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 7 | 3.87 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 7 | 3.87 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 7 | 3.87 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 3 | 3.87 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 3 | 3.87 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 3 | 3.87 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 1 | 3.87 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 6 | 3.87 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 6 | 3.87 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 6 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 11 | 3.87 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 18 | 3.87 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 17 | 3.87 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 13 | 3.87 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 13 | 3.87 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 13 | 3.87 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 9 | 3.87 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 2 | 3.87 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 7 | 3.87 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 6 | 3.87 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 6 | 3.87 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 6 | 3.87 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 8 | 3.87 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 8 | 3.87 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 8 | 3.87 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 1 | 3.87 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 1 | 3.87 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 1 | 3.87 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 17 | 3.87 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 17 | 3.87 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 17 | 3.87 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 14 | 3.87 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 14 | 3.87 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 14 | 3.87 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 16 | 3.87 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 18 | 3.87 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 18 | 3.87 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 18 | 3.87 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 18 | 3.87 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 18 | 3.87 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 18 | 3.87 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 18 | 3.87 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 18 | 3.87 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 18 | 3.87 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 6 | 3.87 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 6 | 3.87 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 6 | 3.87 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 15 | 3.87 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 15 | 3.87 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 15 | 3.87 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 15 | 3.87 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 18 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 18 | 3.87 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 11 | 3.87 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 11 | 3.87 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 11 | 3.87 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 18 | 3.87 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 18 | 3.87 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 18 | 3.87 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 7 | 3.87 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 14 | 3.87 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 3 | 3.87 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 12 | 3.87 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 12 | 3.87 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 12 | 3.87 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 11 | 3.87 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 9 | 3.87 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 9 | 3.87 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 9 | 3.87 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 20 | 3.87 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 20 | 3.87 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 20 | 3.87 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 20 | 3.87 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 20 | 3.87 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 20 | 3.87 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 20 | 3.87 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 20 | 3.87 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 20 | 3.87 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 7 | 3.87 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 7 | 3.87 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 7 | 3.87 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 10 | 3.87 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 7 | 3.87 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 3 | 3.87 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 3 | 3.87 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 3 | 3.87 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 2 | 3.87 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 13 | 3.87 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 12 | 3.87 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 12 | 3.87 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 17 | 3.87 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 17 | 3.87 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 17 | 3.87 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 17 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 3.87 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 1 | 3.87 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 1 | 3.87 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 9 | 3.87 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 9 | 3.87 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 8 | 3.87 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 7 | 3.87 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 7 | 3.87 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 7 | 3.87 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 7 | 3.87 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 7 | 3.87 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 7 | 3.87 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 5 | 3.87 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 15 | 3.87 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 8 | 3.87 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 8 | 3.87 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 3.87 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 3.87 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 8 | 3.87 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 8 | 3.87 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 8 | 3.87 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 8 | 3.87 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 8 | 3.87 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 8 | 3.87 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 6 | 3.87 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 1 | 3.87 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 1 | 3.87 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 4 | 3.87 |
| (1,4316) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 4 | 3.87 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 4 | 3.87 |
| (1,4316) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 4 | 3.87 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 4 | 3.87 |
| (1,4316) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 4 | 3.87 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 3.87 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 3.87 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 3.87 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 3.87 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 3.87 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 3.87 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 10 | 3.87 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 10 | 3.87 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 3 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 3 | 3.87 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 14 | 3.87 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 14 | 3.87 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 14 | 3.87 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 14 | 3.87 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 14 | 3.87 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 14 | 3.87 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 9 | 3.87 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 9 | 3.87 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 9 | 3.87 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 9 | 3.87 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 9 | 3.87 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 9 | 3.87 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 19 | 3.87 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 19 | 3.87 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 19 | 3.87 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 19 | 3.87 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 19 | 3.87 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 19 | 3.87 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 1 | 3.87 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 1 | 3.87 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 1 | 3.87 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 1 | 3.87 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 1 | 3.87 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 1 | 3.87 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 14 | 3.87 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 14 | 3.87 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 6 | 3.87 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 9 | 3.87 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 9 | 3.87 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 9 | 3.87 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 9 | 3.87 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 9 | 3.87 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 9 | 3.87 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 6 | 3.87 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 6 | 3.87 |
| (1,3984) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 6 | 3.87 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 2 | 3.87 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 2 | 3.87 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 5 | 3.87 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 5 | 3.87 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 7 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 7 | 3.87 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 9 | 3.87 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 11 | 3.87 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 11 | 3.87 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 2 | 3.87 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 2 | 3.87 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 4 | 3.87 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 4 | 3.87 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 7 | 3.87 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 7 | 3.87 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 3.87 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 3.87 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 18 | 3.87 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 18 | 3.87 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 1 | 3.87 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 1 | 3.87 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 1 | 3.87 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 1 | 3.87 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 10 | 3.87 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 10 | 3.87 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 10 | 3.87 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 10 | 3.87 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 10 | 3.87 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 10 | 3.87 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 11 | 3.87 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 3.87 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 11 | 3.87 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 11 | 3.87 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 3.87 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 11 | 3.87 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 14 | 3.87 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 14 | 3.87 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 20 | 3.87 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 20 | 3.87 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 12 | 3.87 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 12 | 3.87 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 12 | 3.87 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 12 | 3.87 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 12 | 3.87 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 12 | 3.87 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 14 | 3.87 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 16 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 3.87 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 4 | 3.87 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 4 | 3.87 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 4 | 3.87 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 10 | 3.87 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 10 | 3.87 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 1 | 3.87 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 2 | 3.87 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 2 | 3.87 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 2 | 3.87 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 8 | 3.87 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 8 | 3.87 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 8 | 3.87 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 8 | 3.87 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 8 | 3.87 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 8 | 3.87 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 16 | 3.87 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 16 | 3.87 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 16 | 3.87 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 13 | 3.87 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 13 | 3.87 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 13 | 3.87 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 6 | 3.87 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 3 | 3.87 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 5 | 3.87 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 1 | 3.87 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 18 | 3.87 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 9 | 3.87 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 15 | 3.87 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 15 | 3.87 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 15 | 3.87 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 15 | 3.87 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 9 | 3.87 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 8 | 3.87 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 8 | 3.87 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 8 | 3.87 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 13 | 3.87 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 13 | 3.87 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 13 | 3.87 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 4 | 3.87 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 4 | 3.87 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 4 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 16 | 3.87 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 9 | 3.87 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 16 | 3.87 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 16 | 3.87 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 13 | 3.87 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 13 | 3.87 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 1 | 3.87 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 1 | 3.87 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 16 | 3.87 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 16 | 3.87 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 18 | 3.87 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 1 | 3.87 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 1 | 3.87 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 1 | 3.87 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 20 | 3.87 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 19 | 3.87 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 12 | 3.87 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 12 | 3.87 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 12 | 3.87 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 12 | 3.87 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 12 | 3.87 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 12 | 3.87 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 13 | 3.87 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 11 | 3.87 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 11 | 3.87 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 11 | 3.87 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 1 | 3.87 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 12 | 3.87 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 19 | 3.87 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 4 | 3.87 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 4 | 3.87 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 4 | 3.87 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 19 | 3.87 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 19 | 3.87 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 19 | 3.87 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 13 | 3.87 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 12 | 3.87 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 15 | 3.87 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 15 | 3.87 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 15 | 3.87 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 3 | 3.87 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 12 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 12 | 3.87 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 12 | 3.87 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 15 | 3.87 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 15 | 3.87 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 15 | 3.87 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 6 | 3.87 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 6 | 3.87 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 3 | 3.87 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 3 | 3.87 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 3 | 3.87 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 10 | 3.87 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 11 | 3.87 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 16 | 3.87 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 13 | 3.87 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 3 | 3.87 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 3 | 3.87 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 3 | 3.87 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 3 | 3.87 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 12 | 3.87 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 10 | 3.87 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 6 | 3.87 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 15 | 3.87 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 12 | 3.87 |
| (1,1342) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 12 | 3.87 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 12 | 3.87 |
| (1,1342) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 12 | 3.87 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 12 | 3.87 |
| (1,1342) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 12 | 3.87 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 20 | 3.87 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 20 | 3.87 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 20 | 3.87 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 20 | 3.87 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 20 | 3.87 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 20 | 3.87 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 5 | 3.87 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 7 | 3.87 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 7 | 3.87 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 7 | 3.87 |
| (1,1120) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 2 | 3.87 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 7 | 3.87 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 7 | 3.87 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 7 | 3.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 3 | 3.87 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 3 | 3.87 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 3 | 3.87 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 1 | 3.87 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 6 | 3.87 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 6 | 3.87 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 6 | 3.87 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 11 | 3.87 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 18 | 3.87 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 2 | 3.87 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 17 | 3.87 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 3 | 3.87 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 17 | 3.87 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 13 | 3.87 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 13 | 3.87 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 13 | 3.87 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 9 | 3.87 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 18 | 3.87 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 18 | 3.87 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 18 | 3.87 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 20 | 3.87 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 20 | 3.87 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 20 | 3.87 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 16 | 3.87 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 16 | 3.87 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 16 | 3.87 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 11 | 3.87 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 2 | 3.87 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 2 | 3.87 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 2 | 3.86 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 2 | 3.86 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 19 | 3.86 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 19 | 3.86 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 6 | 3.86 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 6 | 3.86 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 1 | 3.86 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 1 | 3.86 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 1 | 3.86 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 1 | 3.86 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 1 | 3.86 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 1 | 3.86 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 13 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 13 | 3.86 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 20 | 3.86 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 20 | 3.86 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 9 | 3.86 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 9 | 3.86 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 19 | 3.86 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 19 | 3.86 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 19 | 3.86 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 19 | 3.86 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 3.86 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 3.86 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 9 | 3.86 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 9 | 3.86 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 15 | 3.86 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 15 | 3.86 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 15 | 3.86 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 15 | 3.86 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 13 | 3.86 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 13 | 3.86 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 13 | 3.86 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 13 | 3.86 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 13 | 3.86 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 13 | 3.86 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 12 | 3.86 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 12 | 3.86 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 17 | 3.86 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 17 | 3.86 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 17 | 3.86 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 17 | 3.86 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 20 | 3.86 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 20 | 3.86 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 7 | 3.86 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 7 | 3.86 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 14 | 3.86 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 14 | 3.86 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG12 | 5 | 3.86 |
| (1,9138) | 1:89:A:ILE:HG12 | 1:158:A:ILE:HG13 | 5 | 3.86 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG12 | 5 | 3.86 |
| (1,9138) | 1:89:A:ILE:HG13 | 1:158:A:ILE:HG13 | 5 | 3.86 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 13 | 3.86 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 13 | 3.86 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 9 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 9 | 3.86 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 9 | 3.86 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 9 | 3.86 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 9 | 3.86 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 9 | 3.86 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 20 | 3.86 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 20 | 3.86 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 17 | 3.86 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 17 | 3.86 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 11 | 3.86 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 11 | 3.86 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 11 | 3.86 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 11 | 3.86 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 11 | 3.86 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 11 | 3.86 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 10 | 3.86 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 10 | 3.86 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 17 | 3.86 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 17 | 3.86 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 4 | 3.86 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 4 | 3.86 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 4 | 3.86 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 4 | 3.86 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 4 | 3.86 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 4 | 3.86 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 20 | 3.86 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 20 | 3.86 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 8 | 3.86 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 8 | 3.86 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 13 | 3.86 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 13 | 3.86 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 14 | 3.86 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 14 | 3.86 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 18 | 3.86 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 18 | 3.86 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 18 | 3.86 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 18 | 3.86 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 14 | 3.86 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 14 | 3.86 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 12 | 3.86 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 12 | 3.86 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 12 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 12 | 3.86 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 12 | 3.86 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 12 | 3.86 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 17 | 3.86 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 17 | 3.86 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 17 | 3.86 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 17 | 3.86 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 17 | 3.86 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 17 | 3.86 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 6 | 3.86 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 6 | 3.86 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 9 | 3.86 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 9 | 3.86 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 3.86 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 3.86 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 2 | 3.86 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 2 | 3.86 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 2 | 3.86 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 18 | 3.86 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 18 | 3.86 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 18 | 3.86 |
| (1,8457) | 1:147:A:SER:H | 1:161:A:ARG:H | 12 | 3.86 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 11 | 3.86 |
| (1,8390) | 1:139:A:PHE:HB3 | 1:140:A:ALA:H | 8 | 3.86 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 19 | 3.86 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 12 | 3.86 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 17 | 3.86 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 11 | 3.86 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 11 | 3.86 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 14 | 3.86 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 14 | 3.86 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 14 | 3.86 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 14 | 3.86 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 14 | 3.86 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 14 | 3.86 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 13 | 3.86 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 3 | 3.86 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 20 | 3.86 |
| (1,8092) | 1:92:A:TYR:H | 1:94:A:GLN:H | 5 | 3.86 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 16 | 3.86 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 16 | 3.86 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 16 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 8 | 3.86 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 8 | 3.86 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 8 | 3.86 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 9 | 3.86 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 15 | 3.86 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 8 | 3.86 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 19 | 3.86 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 19 | 3.86 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 19 | 3.86 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 19 | 3.86 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 18 | 3.86 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 18 | 3.86 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 18 | 3.86 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 18 | 3.86 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 18 | 3.86 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 18 | 3.86 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 18 | 3.86 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 18 | 3.86 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 18 | 3.86 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 2 | 3.86 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 13 | 3.86 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 13 | 3.86 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 13 | 3.86 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 13 | 3.86 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 13 | 3.86 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 13 | 3.86 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 13 | 3.86 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 13 | 3.86 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 13 | 3.86 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 2 | 3.86 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 2 | 3.86 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 2 | 3.86 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 2 | 3.86 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 1 | 3.86 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 15 | 3.86 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 5 | 3.86 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 10 | 3.86 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 14 | 3.86 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 17 | 3.86 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 17 | 3.86 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 6 | 3.86 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 6 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7438) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HG2 | 19 | 3.86 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 18 | 3.86 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 18 | 3.86 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 18 | 3.86 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 11 | 3.86 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 11 | 3.86 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 11 | 3.86 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 12 | 3.86 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 12 | 3.86 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 5 | 3.86 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 12 | 3.86 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 6 | 3.86 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 6 | 3.86 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 2 | 3.86 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 11 | 3.86 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 4 | 3.86 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 4 | 3.86 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 10 | 3.86 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 10 | 3.86 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 10 | 3.86 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 10 | 3.86 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 13 | 3.86 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 13 | 3.86 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 13 | 3.86 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 8 | 3.86 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 8 | 3.86 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 8 | 3.86 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 10 | 3.86 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 10 | 3.86 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 10 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 8 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 8 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 14 | 3.86 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 14 | 3.86 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 10 | 3.86 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 12 | 3.86 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 14 | 3.86 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 6 | 3.86 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 6 | 3.86 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 6 | 3.86 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 18 | 3.86 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 18 | 3.86 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 18 | 3.86 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 6 | 3.86 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 6 | 3.86 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 6 | 3.86 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 5 | 3.86 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 5 | 3.86 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 5 | 3.86 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 11 | 3.86 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 11 | 3.86 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 11 | 3.86 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 19 | 3.86 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 14 | 3.86 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 14 | 3.86 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 14 | 3.86 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 13 | 3.86 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 13 | 3.86 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 2 | 3.86 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 2 | 3.86 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 11 | 3.86 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 11 | 3.86 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 13 | 3.86 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 10 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 12 | 3.86 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 12 | 3.86 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 12 | 3.86 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 3 | 3.86 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 3 | 3.86 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 3 | 3.86 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 20 | 3.86 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 3 | 3.86 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 4 | 3.86 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 4 | 3.86 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 4 | 3.86 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 11 | 3.86 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 11 | 3.86 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 11 | 3.86 |
| (1,5899) | 1:124:A:ALA:H | 1:125:A:PHE:H | 3 | 3.86 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 12 | 3.86 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 12 | 3.86 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 12 | 3.86 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 12 | 3.86 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 12 | 3.86 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 12 | 3.86 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 20 | 3.86 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 20 | 3.86 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 20 | 3.86 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 20 | 3.86 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 20 | 3.86 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 20 | 3.86 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 20 | 3.86 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 20 | 3.86 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 12 | 3.86 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 10 | 3.86 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 10 | 3.86 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 10 | 3.86 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 15 | 3.86 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 15 | 3.86 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 15 | 3.86 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 10 | 3.86 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 18 | 3.86 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 5 | 3.86 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 16 | 3.86 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 20 | 3.86 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 2 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 2 | 3.86 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 2 | 3.86 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 8 | 3.86 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 8 | 3.86 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 8 | 3.86 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 6 | 3.86 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 6 | 3.86 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 6 | 3.86 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 6 | 3.86 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 6 | 3.86 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 6 | 3.86 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 1 | 3.86 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 1 | 3.86 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 1 | 3.86 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 17 | 3.86 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 17 | 3.86 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 17 | 3.86 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 15 | 3.86 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 15 | 3.86 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 15 | 3.86 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 13 | 3.86 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 13 | 3.86 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 13 | 3.86 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 19 | 3.86 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 19 | 3.86 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 19 | 3.86 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 10 | 3.86 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 10 | 3.86 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 10 | 3.86 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 7 | 3.86 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 9 | 3.86 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 13 | 3.86 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 6 | 3.86 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 10 | 3.86 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 14 | 3.86 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 16 | 3.86 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 20 | 3.86 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 20 | 3.86 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 20 | 3.86 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 5 | 3.86 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 5 | 3.86 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 5 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 3 | 3.86 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 1 | 3.86 |
| (1,4987) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 11 | 3.86 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 1 | 3.86 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 5 | 3.86 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 5 | 3.86 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 5 | 3.86 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 9 | 3.86 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 5 | 3.86 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 5 | 3.86 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 5 | 3.86 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 11 | 3.86 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 11 | 3.86 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 11 | 3.86 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 11 | 3.86 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 11 | 3.86 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 11 | 3.86 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 11 | 3.86 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 11 | 3.86 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 11 | 3.86 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 16 | 3.86 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 6 | 3.86 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 6 | 3.86 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 6 | 3.86 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 8 | 3.86 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 8 | 3.86 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 12 | 3.86 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 14 | 3.86 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 14 | 3.86 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 2 | 3.86 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 2 | 3.86 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 6 | 3.86 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 11 | 3.86 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 6 | 3.86 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 6 | 3.86 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 11 | 3.86 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 14 | 3.86 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 14 | 3.86 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 14 | 3.86 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 1 | 3.86 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 1 | 3.86 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 1 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 1 | 3.86 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 1 | 3.86 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 1 | 3.86 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 13 | 3.86 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 13 | 3.86 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 15 | 3.86 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 9 | 3.86 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 9 | 3.86 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 3 | 3.86 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 3.86 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 3.86 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 3.86 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 3.86 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 13 | 3.86 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 13 | 3.86 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 13 | 3.86 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 13 | 3.86 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 13 | 3.86 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 13 | 3.86 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 3 | 3.86 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 14 | 3.86 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 14 | 3.86 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 3.86 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 3.86 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 3.86 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 3.86 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 3.86 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 3.86 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 17 | 3.86 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 2 | 3.86 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 2 | 3.86 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 8 | 3.86 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 8 | 3.86 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 8 | 3.86 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 18 | 3.86 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 18 | 3.86 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 18 | 3.86 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 18 | 3.86 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 18 | 3.86 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 18 | 3.86 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 11 | 3.86 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 11 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 11 | 3.86 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 1 | 3.86 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 1 | 3.86 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 3.86 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 3.86 |
| (1,4141) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 18 | 3.86 |
| (1,4141) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 18 | 3.86 |
| (1,4141) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 18 | 3.86 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 16 | 3.86 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 16 | 3.86 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 16 | 3.86 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 16 | 3.86 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 9 | 3.86 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 9 | 3.86 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 9 | 3.86 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 9 | 3.86 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 9 | 3.86 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 9 | 3.86 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 13 | 3.86 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 13 | 3.86 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 6 | 3.86 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 6 | 3.86 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 17 | 3.86 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 17 | 3.86 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 3 | 3.86 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 5 | 3.86 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 5 | 3.86 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 5 | 3.86 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 4 | 3.86 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 4 | 3.86 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 4 | 3.86 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 4 | 3.86 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 4 | 3.86 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 4 | 3.86 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 15 | 3.86 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 15 | 3.86 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 15 | 3.86 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 7 | 3.86 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 7 | 3.86 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 12 | 3.86 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 12 | 3.86 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 13 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 13 | 3.86 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 2 | 3.86 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 14 | 3.86 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 14 | 3.86 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 2 | 3.86 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 2 | 3.86 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 18 | 3.86 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 18 | 3.86 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 18 | 3.86 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 18 | 3.86 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 4 | 3.86 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 4 | 3.86 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 17 | 3.86 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 17 | 3.86 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 17 | 3.86 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 17 | 3.86 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 17 | 3.86 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 17 | 3.86 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 12 | 3.86 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 12 | 3.86 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 6 | 3.86 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 6 | 3.86 |
| (1,3538) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 19 | 3.86 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 9 | 3.86 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 9 | 3.86 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 3.86 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 3.86 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 9 | 3.86 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 6 | 3.86 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 6 | 3.86 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 2 | 3.86 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 11 | 3.86 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 4 | 3.86 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 9 | 3.86 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 4 | 3.86 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 4 | 3.86 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 16 | 3.86 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 7 | 3.86 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 10 | 3.86 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 10 | 3.86 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 10 | 3.86 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 10 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 13 | 3.86 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 13 | 3.86 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 13 | 3.86 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 8 | 3.86 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 8 | 3.86 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 8 | 3.86 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 10 | 3.86 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 10 | 3.86 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 10 | 3.86 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 12 | 3.86 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 12 | 3.86 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 9 | 3.86 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 12 | 3.86 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 10 | 3.86 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 12 | 3.86 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 6 | 3.86 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 6 | 3.86 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 6 | 3.86 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 18 | 3.86 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 18 | 3.86 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 18 | 3.86 |
| (1,2258) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 3 | 3.86 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 13 | 3.86 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 19 | 3.86 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 6 | 3.86 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 6 | 3.86 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 6 | 3.86 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 9 | 3.86 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 9 | 3.86 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 9 | 3.86 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 5 | 3.86 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 5 | 3.86 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 5 | 3.86 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 11 | 3.86 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 11 | 3.86 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 11 | 3.86 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 19 | 3.86 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 14 | 3.86 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 2 | 3.86 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 2 | 3.86 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 2 | 3.86 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 14 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 14 | 3.86 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 14 | 3.86 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 12 | 3.86 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 12 | 3.86 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 12 | 3.86 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 13 | 3.86 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 13 | 3.86 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 2 | 3.86 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 2 | 3.86 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 11 | 3.86 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 11 | 3.86 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 13 | 3.86 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 7 | 3.86 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 7 | 3.86 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 7 | 3.86 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 10 | 3.86 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 12 | 3.86 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 12 | 3.86 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 12 | 3.86 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 3 | 3.86 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 3 | 3.86 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 3 | 3.86 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 20 | 3.86 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 3 | 3.86 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 14 | 3.86 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 8 | 3.86 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 8 | 3.86 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 8 | 3.86 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 8 | 3.86 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 8 | 3.86 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 8 | 3.86 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 4 | 3.86 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 4 | 3.86 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 4 | 3.86 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 11 | 3.86 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 11 | 3.86 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 11 | 3.86 |
| (1,1314) | 1:124:A:ALA:H | 1:125:A:PHE:H | 3 | 3.86 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 12 | 3.86 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 12 | 3.86 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 12 | 3.86 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 12 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 12 | 3.86 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 12 | 3.86 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 7 | 3.86 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 20 | 3.86 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 20 | 3.86 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 20 | 3.86 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 20 | 3.86 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 2 | 3.86 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 20 | 3.86 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 20 | 3.86 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 20 | 3.86 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 20 | 3.86 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 12 | 3.86 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 10 | 3.86 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 10 | 3.86 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 10 | 3.86 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 15 | 3.86 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 15 | 3.86 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 15 | 3.86 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 11 | 3.86 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 10 | 3.86 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 18 | 3.86 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 4 | 3.86 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 5 | 3.86 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 3 | 3.86 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 16 | 3.86 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 20 | 3.86 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 12 | 3.86 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 12 | 3.86 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 12 | 3.86 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 18 | 3.86 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 18 | 3.86 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 18 | 3.86 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 2 | 3.86 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 2 | 3.86 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 2 | 3.86 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 8 | 3.86 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 8 | 3.86 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 8 | 3.86 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 6 | 3.86 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 6 | 3.86 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 6 | 3.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 6 | 3.86 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 6 | 3.86 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 6 | 3.86 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 2 | 3.86 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 2 | 3.86 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 4 | 3.86 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 4 | 3.86 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 4 | 3.86 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 5 | 3.85 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 5 | 3.85 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 5 | 3.85 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 2 | 3.85 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 1 | 3.85 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 18 | 3.85 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 18 | 3.85 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 18 | 3.85 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 18 | 3.85 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 18 | 3.85 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 18 | 3.85 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 12 | 3.85 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 12 | 3.85 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 2 | 3.85 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 2 | 3.85 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 12 | 3.85 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 12 | 3.85 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 5 | 3.85 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 5 | 3.85 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 5 | 3.85 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 5 | 3.85 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 5 | 3.85 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 5 | 3.85 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 5 | 3.85 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 5 | 3.85 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 16 | 3.85 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 16 | 3.85 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 16 | 3.85 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 16 | 3.85 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 19 | 3.85 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 19 | 3.85 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 16 | 3.85 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 16 | 3.85 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 11 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 11 | 3.85 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 11 | 3.85 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 11 | 3.85 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 15 | 3.85 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 15 | 3.85 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 13 | 3.85 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 13 | 3.85 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 16 | 3.85 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 16 | 3.85 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 16 | 3.85 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 16 | 3.85 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 4 | 3.85 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 4 | 3.85 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 4 | 3.85 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 4 | 3.85 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 4 | 3.85 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 4 | 3.85 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 19 | 3.85 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 19 | 3.85 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 1 | 3.85 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 1 | 3.85 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 1 | 3.85 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 1 | 3.85 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 1 | 3.85 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 1 | 3.85 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 13 | 3.85 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 13 | 3.85 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 2 | 3.85 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 2 | 3.85 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 18 | 3.85 |
| (1,8954) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 18 | 3.85 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 10 | 3.85 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 10 | 3.85 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 17 | 3.85 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 17 | 3.85 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 1 | 3.85 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 1 | 3.85 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 8 | 3.85 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 8 | 3.85 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 8 | 3.85 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 8 | 3.85 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 8 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 8 | 3.85 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 3.85 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 20 | 3.85 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 9 | 3.85 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 9 | 3.85 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 9 | 3.85 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 9 | 3.85 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 20 | 3.85 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 20 | 3.85 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 17 | 3.85 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 17 | 3.85 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 17 | 3.85 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 14 | 3.85 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 14 | 3.85 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 14 | 3.85 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 14 | 3.85 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 14 | 3.85 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 14 | 3.85 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 14 | 3.85 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 14 | 3.85 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 14 | 3.85 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 10 | 3.85 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 5 | 3.85 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 7 | 3.85 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 2 | 3.85 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 2 | 3.85 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 2 | 3.85 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 11 | 3.85 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 11 | 3.85 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 11 | 3.85 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 2 | 3.85 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 2 | 3.85 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 20 | 3.85 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 20 | 3.85 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 6 | 3.85 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 2 | 3.85 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 3 | 3.85 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 16 | 3.85 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 16 | 3.85 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 11 | 3.85 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 11 | 3.85 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 11 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 7 | 3.85 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 7 | 3.85 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 7 | 3.85 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 7 | 3.85 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 7 | 3.85 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 7 | 3.85 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 7 | 3.85 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 7 | 3.85 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 7 | 3.85 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 9 | 3.85 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 9 | 3.85 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 9 | 3.85 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 17 | 3.85 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 4 | 3.85 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 8 | 3.85 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 15 | 3.85 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 15 | 3.85 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 1 | 3.85 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 1 | 3.85 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 1 | 3.85 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 18 | 3.85 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 18 | 3.85 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 18 | 3.85 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 18 | 3.85 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 18 | 3.85 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 18 | 3.85 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 1 | 3.85 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 19 | 3.85 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 19 | 3.85 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 16 | 3.85 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 16 | 3.85 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 16 | 3.85 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 16 | 3.85 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 18 | 3.85 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 18 | 3.85 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 18 | 3.85 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 18 | 3.85 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 18 | 3.85 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 15 | 3.85 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 6 | 3.85 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 14 | 3.85 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 14 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 14 | 3.85 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 18 | 3.85 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 18 | 3.85 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 20 | 3.85 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 20 | 3.85 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 20 | 3.85 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 20 | 3.85 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 12 | 3.85 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 18 | 3.85 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 5 | 3.85 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 4 | 3.85 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 19 | 3.85 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 6 | 3.85 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 16 | 3.85 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 14 | 3.85 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 14 | 3.85 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 18 | 3.85 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 20 | 3.85 |
| (1,6984) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 20 | 3.85 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 20 | 3.85 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 18 | 3.85 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 6 | 3.85 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 3 | 3.85 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 20 | 3.85 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 17 | 3.85 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 8 | 3.85 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 8 | 3.85 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 8 | 3.85 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 14 | 3.85 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 19 | 3.85 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 19 | 3.85 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 19 | 3.85 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 18 | 3.85 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 18 | 3.85 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 13 | 3.85 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 4 | 3.85 |
| (1,6611) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 17 | 3.85 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 12 | 3.85 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 12 | 3.85 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 12 | 3.85 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 6 | 3.85 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 6 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 6 | 3.85 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 9 | 3.85 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 9 | 3.85 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 9 | 3.85 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 10 | 3.85 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 10 | 3.85 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 10 | 3.85 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 16 | 3.85 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 20 | 3.85 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 20 | 3.85 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 20 | 3.85 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 20 | 3.85 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 20 | 3.85 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 20 | 3.85 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 20 | 3.85 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 20 | 3.85 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 20 | 3.85 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 11 | 3.85 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 11 | 3.85 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 11 | 3.85 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 14 | 3.85 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 14 | 3.85 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 14 | 3.85 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 14 | 3.85 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 5 | 3.85 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 5 | 3.85 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 12 | 3.85 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 12 | 3.85 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 12 | 3.85 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 15 | 3.85 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 15 | 3.85 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 15 | 3.85 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 12 | 3.85 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 10 | 3.85 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 10 | 3.85 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 10 | 3.85 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 3 | 3.85 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 3 | 3.85 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 3 | 3.85 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 3 | 3.85 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 3 | 3.85 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 3 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 8 | 3.85 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 9 | 3.85 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 14 | 3.85 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 14 | 3.85 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 14 | 3.85 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 14 | 3.85 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 14 | 3.85 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 14 | 3.85 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 3 | 3.85 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 8 | 3.85 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 15 | 3.85 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 15 | 3.85 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 15 | 3.85 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 8 | 3.85 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 11 | 3.85 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 14 | 3.85 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 14 | 3.85 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 14 | 3.85 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 13 | 3.85 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 13 | 3.85 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 13 | 3.85 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 17 | 3.85 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 2 | 3.85 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 1 | 3.85 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 16 | 3.85 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 18 | 3.85 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 3.85 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 3.85 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 3.85 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 3.85 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 3.85 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 3.85 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 3.85 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 3.85 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 3.85 |
| (1,5534) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 13 | 3.85 |
| (1,5534) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 13 | 3.85 |
| (1,5534) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 13 | 3.85 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 15 | 3.85 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 6 | 3.85 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 6 | 3.85 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 6 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 5 | 3.85 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 2 | 3.85 |
| (1,5435) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 2 | 3.85 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 2 | 3.85 |
| (1,5435) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 2 | 3.85 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 2 | 3.85 |
| (1,5435) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 2 | 3.85 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 10 | 3.85 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 10 | 3.85 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 10 | 3.85 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 10 | 3.85 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 10 | 3.85 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 10 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 16 | 3.85 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 16 | 3.85 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 14 | 3.85 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 14 | 3.85 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 14 | 3.85 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 7 | 3.85 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 7 | 3.85 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 7 | 3.85 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 20 | 3.85 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 20 | 3.85 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 20 | 3.85 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 14 | 3.85 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 17 | 3.85 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 18 | 3.85 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 15 | 3.85 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 11 | 3.85 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 6 | 3.85 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 12 | 3.85 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 7 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 18 | 3.85 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 19 | 3.85 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 19 | 3.85 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 19 | 3.85 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 8 | 3.85 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 8 | 3.85 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 8 | 3.85 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 13 | 3.85 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 13 | 3.85 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 13 | 3.85 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 12 | 3.85 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 20 | 3.85 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 20 | 3.85 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 20 | 3.85 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 20 | 3.85 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 20 | 3.85 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 20 | 3.85 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 4 | 3.85 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 9 | 3.85 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 13 | 3.85 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 13 | 3.85 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 13 | 3.85 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 12 | 3.85 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 12 | 3.85 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 12 | 3.85 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 5 | 3.85 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 20 | 3.85 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 20 | 3.85 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 20 | 3.85 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 7 | 3.85 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 7 | 3.85 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 7 | 3.85 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 11 | 3.85 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 9 | 3.85 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 5 | 3.85 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 5 | 3.85 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 5 | 3.85 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 14 | 3.85 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 14 | 3.85 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 14 | 3.85 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 3 | 3.85 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 3 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 3 | 3.85 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 12 | 3.85 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 12 | 3.85 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 12 | 3.85 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 2 | 3.85 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 2 | 3.85 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 10 | 3.85 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 10 | 3.85 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 10 | 3.85 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 3 | 3.85 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 3 | 3.85 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 3 | 3.85 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 15 | 3.85 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 15 | 3.85 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 5 | 3.85 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 5 | 3.85 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 5 | 3.85 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 5 | 3.85 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 3.85 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 3.85 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 3.85 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 3.85 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 3.85 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 3.85 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 3.85 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 3.85 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 3.85 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 3.85 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 1 | 3.85 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 19 | 3.85 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 16 | 3.85 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 16 | 3.85 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 16 | 3.85 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 16 | 3.85 |
| (1,4160) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 1 | 3.85 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 6 | 3.85 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 6 | 3.85 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 6 | 3.85 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 6 | 3.85 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 6 | 3.85 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 6 | 3.85 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 4 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 4 | 3.85 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 4 | 3.85 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 4 | 3.85 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 4 | 3.85 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 4 | 3.85 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 1 | 3.85 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 1 | 3.85 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 17 | 3.85 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 17 | 3.85 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 13 | 3.85 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 13 | 3.85 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 1 | 3.85 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 1 | 3.85 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 18 | 3.85 |
| (1,3924) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 18 | 3.85 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 10 | 3.85 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 10 | 3.85 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 7 | 3.85 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 7 | 3.85 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 1 | 3.85 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 1 | 3.85 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 3.85 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 3.85 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 3.85 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 18 | 3.85 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 9 | 3.85 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 9 | 3.85 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 12 | 3.85 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 12 | 3.85 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 4 | 3.85 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 19 | 3.85 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 12 | 3.85 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 12 | 3.85 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 12 | 3.85 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 6 | 3.85 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 16 | 3.85 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 14 | 3.85 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 14 | 3.85 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 8 | 3.85 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 18 | 3.85 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 8 | 3.85 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 18 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 14 | 3.85 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 20 | 3.85 |
| (1,3018) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 20 | 3.85 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 20 | 3.85 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 6 | 3.85 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 3 | 3.85 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 20 | 3.85 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 6 | 3.85 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 17 | 3.85 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 8 | 3.85 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 8 | 3.85 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 8 | 3.85 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 14 | 3.85 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 19 | 3.85 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 19 | 3.85 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 19 | 3.85 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 18 | 3.85 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 18 | 3.85 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 13 | 3.85 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 4 | 3.85 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 15 | 3.85 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 3.85 |
| (1,2496) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 20 | 3.85 |
| (1,2468) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 17 | 3.85 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 9 | 3.85 |
| (1,2306) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 8 | 3.85 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 12 | 3.85 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 12 | 3.85 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 12 | 3.85 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 10 | 3.85 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 6 | 3.85 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 6 | 3.85 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 6 | 3.85 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 9 | 3.85 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 9 | 3.85 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 9 | 3.85 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 10 | 3.85 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 10 | 3.85 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 10 | 3.85 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 16 | 3.85 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 20 | 3.85 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 20 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 20 | 3.85 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 20 | 3.85 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 20 | 3.85 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 20 | 3.85 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 20 | 3.85 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 20 | 3.85 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 20 | 3.85 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 11 | 3.85 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 11 | 3.85 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 11 | 3.85 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 3 | 3.85 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 3 | 3.85 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 3 | 3.85 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 14 | 3.85 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 14 | 3.85 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 14 | 3.85 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 14 | 3.85 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 14 | 3.85 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 14 | 3.85 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 14 | 3.85 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 5 | 3.85 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 5 | 3.85 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 12 | 3.85 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 12 | 3.85 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 12 | 3.85 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 15 | 3.85 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 15 | 3.85 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 15 | 3.85 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 12 | 3.85 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 10 | 3.85 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 10 | 3.85 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 10 | 3.85 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 5 | 3.85 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 5 | 3.85 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 5 | 3.85 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 3 | 3.85 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 3 | 3.85 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 3 | 3.85 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 3 | 3.85 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 3 | 3.85 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 3 | 3.85 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 8 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 3 | 3.85 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 9 | 3.85 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 14 | 3.85 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 14 | 3.85 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 14 | 3.85 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 14 | 3.85 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 14 | 3.85 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 14 | 3.85 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 15 | 3.85 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 3 | 3.85 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 8 | 3.85 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 15 | 3.85 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 15 | 3.85 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 15 | 3.85 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 8 | 3.85 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 11 | 3.85 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 14 | 3.85 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 14 | 3.85 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 14 | 3.85 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 13 | 3.85 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 13 | 3.85 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 13 | 3.85 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 17 | 3.85 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 2 | 3.85 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 1 | 3.85 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 15 | 3.85 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 15 | 3.85 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 15 | 3.85 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 11 | 3.85 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 11 | 3.85 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 11 | 3.85 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 20 | 3.85 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 16 | 3.85 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 18 | 3.85 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 3.85 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 3.85 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 3.85 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 3.85 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 3.85 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 3.85 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 3.85 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 3.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 3.85 |
| (1,694) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 13 | 3.85 |
| (1,694) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 13 | 3.85 |
| (1,694) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 13 | 3.85 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 15 | 3.85 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 6 | 3.85 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 6 | 3.85 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 6 | 3.85 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 16 | 3.85 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 1 | 3.85 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 5 | 3.85 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 2 | 3.85 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 2 | 3.85 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 2 | 3.85 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 2 | 3.85 |
| (1,524) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 2 | 3.85 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 2 | 3.85 |
| (1,524) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 2 | 3.85 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 2 | 3.85 |
| (1,524) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 2 | 3.85 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 10 | 3.85 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 10 | 3.85 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 10 | 3.85 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 10 | 3.85 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 10 | 3.85 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 10 | 3.85 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 13 | 3.85 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 13 | 3.85 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 13 | 3.85 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 4 | 3.85 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 19 | 3.85 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 4 | 3.85 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 1 | 3.85 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 1 | 3.85 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 1 | 3.85 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 12 | 3.85 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 10 | 3.85 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 13 | 3.84 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 13 | 3.84 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 12 | 3.84 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 12 | 3.84 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 9 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 9 | 3.84 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 9 | 3.84 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 9 | 3.84 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 9 | 3.84 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 9 | 3.84 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 2 | 3.84 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 2 | 3.84 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 17 | 3.84 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 17 | 3.84 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 6 | 3.84 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 6 | 3.84 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 1 | 3.84 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 1 | 3.84 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 1 | 3.84 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 1 | 3.84 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 1 | 3.84 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 1 | 3.84 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 18 | 3.84 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 18 | 3.84 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB2 | 20 | 3.84 |
| (1,9493) | 1:133:A:PRO:HD2 | 1:134:A:PHE:HB3 | 20 | 3.84 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 16 | 3.84 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 16 | 3.84 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 10 | 3.84 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 10 | 3.84 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 8 | 3.84 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 8 | 3.84 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 8 | 3.84 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 8 | 3.84 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 15 | 3.84 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 15 | 3.84 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 15 | 3.84 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 15 | 3.84 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 15 | 3.84 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 15 | 3.84 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 10 | 3.84 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 10 | 3.84 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 10 | 3.84 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 10 | 3.84 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 6 | 3.84 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 6 | 3.84 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 2 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 2 | 3.84 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 2 | 3.84 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 2 | 3.84 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 14 | 3.84 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 14 | 3.84 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 14 | 3.84 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 14 | 3.84 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 4 | 3.84 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 4 | 3.84 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 4 | 3.84 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 4 | 3.84 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 4 | 3.84 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 4 | 3.84 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 8 | 3.84 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 8 | 3.84 |
| (1,9068) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 7 | 3.84 |
| (1,9068) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 7 | 3.84 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 15 | 3.84 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 15 | 3.84 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 8 | 3.84 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 8 | 3.84 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 6 | 3.84 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 6 | 3.84 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 16 | 3.84 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 16 | 3.84 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 16 | 3.84 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 16 | 3.84 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 4 | 3.84 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 4 | 3.84 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 4 | 3.84 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 4 | 3.84 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 4 | 3.84 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 4 | 3.84 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 17 | 3.84 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 17 | 3.84 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 17 | 3.84 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 17 | 3.84 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 17 | 3.84 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 17 | 3.84 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 11 | 3.84 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 11 | 3.84 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 18 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 18 | 3.84 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 18 | 3.84 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 18 | 3.84 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 2 | 3.84 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 2 | 3.84 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 2 | 3.84 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 2 | 3.84 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 7 | 3.84 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 3 | 3.84 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 3 | 3.84 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 3 | 3.84 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 3 | 3.84 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 3 | 3.84 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 3 | 3.84 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 3 | 3.84 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 3 | 3.84 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 3 | 3.84 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 17 | 3.84 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 17 | 3.84 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 17 | 3.84 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 17 | 3.84 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 17 | 3.84 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 17 | 3.84 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 17 | 3.84 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 17 | 3.84 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 17 | 3.84 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 1 | 3.84 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 1 | 3.84 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 11 | 3.84 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 11 | 3.84 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 20 | 3.84 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 20 | 3.84 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 20 | 3.84 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 20 | 3.84 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 20 | 3.84 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 20 | 3.84 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 16 | 3.84 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 17 | 3.84 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 4 | 3.84 |
| (1,8205) | 1:106:A:LEU:HD21 | 1:107:A:ALA:H | 4 | 3.84 |
| (1,8205) | 1:106:A:LEU:HD22 | 1:107:A:ALA:H | 4 | 3.84 |
| (1,8205) | 1:106:A:LEU:HD23 | 1:107:A:ALA:H | 4 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 14 | 3.84 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 14 | 3.84 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 8 | 3.84 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 8 | 3.84 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 15 | 3.84 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 6 | 3.84 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 6 | 3.84 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 15 | 3.84 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 15 | 3.84 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 15 | 3.84 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 17 | 3.84 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 17 | 3.84 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 17 | 3.84 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 2 | 3.84 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 5 | 3.84 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 1 | 3.84 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 1 | 3.84 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 1 | 3.84 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 1 | 3.84 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 1 | 3.84 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 1 | 3.84 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 1 | 3.84 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 1 | 3.84 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 1 | 3.84 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 2 | 3.84 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 14 | 3.84 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 19 | 3.84 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 15 | 3.84 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 7 | 3.84 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 7 | 3.84 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 19 | 3.84 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 20 | 3.84 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 14 | 3.84 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 14 | 3.84 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 14 | 3.84 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 2 | 3.84 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 2 | 3.84 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 2 | 3.84 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 2 | 3.84 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 2 | 3.84 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 2 | 3.84 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 2 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 2 | 3.84 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 2 | 3.84 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 17 | 3.84 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 17 | 3.84 |
| (1,7726) | 1:54:A:ARG:HB2 | 1:55:A:VAL:HA | 5 | 3.84 |
| (1,7726) | 1:54:A:ARG:HB3 | 1:55:A:VAL:HA | 5 | 3.84 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 5 | 3.84 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 5 | 3.84 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 5 | 3.84 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 5 | 3.84 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 1 | 3.84 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 20 | 3.84 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 10 | 3.84 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 10 | 3.84 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 10 | 3.84 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 10 | 3.84 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 10 | 3.84 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD1 | 14 | 3.84 |
| (1,7572) | 1:23:A:TYR:HB2 | 1:24:A:TYR:HD2 | 14 | 3.84 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 20 | 3.84 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 20 | 3.84 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 20 | 3.84 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 1 | 3.84 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 1 | 3.84 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 1 | 3.84 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 1 | 3.84 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 1 | 3.84 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 11 | 3.84 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 11 | 3.84 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 11 | 3.84 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 9 | 3.84 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 9 | 3.84 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 19 | 3.84 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 19 | 3.84 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 1 | 3.84 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 1 | 3.84 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 1 | 3.84 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE2 | 3 | 3.84 |
| (1,7280) | 1:13:A:LYS:HA | 1:13:A:LYS:HE3 | 3 | 3.84 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 4 | 3.84 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 4 | 3.84 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 4 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 8 | 3.84 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 7 | 3.84 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 7 | 3.84 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 4 | 3.84 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 6 | 3.84 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 6 | 3.84 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 9 | 3.84 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 8 | 3.84 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 8 | 3.84 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 8 | 3.84 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 12 | 3.84 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 6 | 3.84 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 6 | 3.84 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 1 | 3.84 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 14 | 3.84 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 18 | 3.84 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 4 | 3.84 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 6 | 3.84 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 9 | 3.84 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 5 | 3.84 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 3 | 3.84 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 3 | 3.84 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 3 | 3.84 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 6 | 3.84 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 6 | 3.84 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 6 | 3.84 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 15 | 3.84 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 3 | 3.84 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 3 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 10 | 3.84 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 10 | 3.84 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 1 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 1 | 3.84 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 1 | 3.84 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 13 | 3.84 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 13 | 3.84 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 13 | 3.84 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 1 | 3.84 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 20 | 3.84 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 17 | 3.84 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 9 | 3.84 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 9 | 3.84 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 9 | 3.84 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 17 | 3.84 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 2 | 3.84 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 2 | 3.84 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 2 | 3.84 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 9 | 3.84 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 4 | 3.84 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 10 | 3.84 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 17 | 3.84 |
| (1,6480) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 6 | 3.84 |
| (1,6480) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 6 | 3.84 |
| (1,6480) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 6 | 3.84 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 2 | 3.84 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 2 | 3.84 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 2 | 3.84 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 16 | 3.84 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 16 | 3.84 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 16 | 3.84 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 16 | 3.84 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 16 | 3.84 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 16 | 3.84 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 14 | 3.84 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 14 | 3.84 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 14 | 3.84 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 20 | 3.84 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 20 | 3.84 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 20 | 3.84 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 13 | 3.84 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 3 | 3.84 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 3 | 3.84 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 19 | 3.84 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 19 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 19 | 3.84 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 13 | 3.84 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 13 | 3.84 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 20 | 3.84 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 20 | 3.84 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 20 | 3.84 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 4 | 3.84 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 5 | 3.84 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 5 | 3.84 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 5 | 3.84 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 5 | 3.84 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 5 | 3.84 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 5 | 3.84 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 5 | 3.84 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 5 | 3.84 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 5 | 3.84 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 4 | 3.84 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 4 | 3.84 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 4 | 3.84 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 8 | 3.84 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 8 | 3.84 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 12 | 3.84 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 9 | 3.84 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 9 | 3.84 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 9 | 3.84 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 18 | 3.84 |
| (1,5954) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 4 | 3.84 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 16 | 3.84 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 16 | 3.84 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 16 | 3.84 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 16 | 3.84 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 16 | 3.84 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 16 | 3.84 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 12 | 3.84 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 12 | 3.84 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 17 | 3.84 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 17 | 3.84 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 5 | 3.84 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 5 | 3.84 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 5 | 3.84 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 19 | 3.84 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 19 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 19 | 3.84 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 2 | 3.84 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 15 | 3.84 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 13 | 3.84 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 13 | 3.84 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 13 | 3.84 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 16 | 3.84 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 16 | 3.84 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 16 | 3.84 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 1 | 3.84 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 3 | 3.84 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 3 | 3.84 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 3 | 3.84 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 7 | 3.84 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 9 | 3.84 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 5 | 3.84 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 3.84 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 5 | 3.84 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 19 | 3.84 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 6 | 3.84 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 6 | 3.84 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 6 | 3.84 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 9 | 3.84 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 9 | 3.84 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 9 | 3.84 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 16 | 3.84 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 16 | 3.84 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 16 | 3.84 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 12 | 3.84 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 12 | 3.84 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 12 | 3.84 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 14 | 3.84 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 14 | 3.84 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 14 | 3.84 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 12 | 3.84 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 12 | 3.84 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 12 | 3.84 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 14 | 3.84 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 14 | 3.84 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 14 | 3.84 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 14 | 3.84 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 14 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 14 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 19 | 3.84 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 19 | 3.84 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 1 | 3.84 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 1 | 3.84 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 1 | 3.84 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 15 | 3.84 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 15 | 3.84 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 15 | 3.84 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 10 | 3.84 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 7 | 3.84 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 7 | 3.84 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 7 | 3.84 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 12 | 3.84 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 12 | 3.84 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 12 | 3.84 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 11 | 3.84 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 11 | 3.84 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 11 | 3.84 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 16 | 3.84 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 16 | 3.84 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 16 | 3.84 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 5 | 3.84 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 5 | 3.84 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 5 | 3.84 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 5 | 3.84 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 5 | 3.84 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 5 | 3.84 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 5 | 3.84 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 5 | 3.84 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 5 | 3.84 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 19 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 19 | 3.84 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 19 | 3.84 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 3 | 3.84 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 3 | 3.84 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 3 | 3.84 |
| (1,5171) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 16 | 3.84 |
| (1,5171) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 16 | 3.84 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 18 | 3.84 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 18 | 3.84 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 18 | 3.84 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 1 | 3.84 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 1 | 3.84 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 1 | 3.84 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 14 | 3.84 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 14 | 3.84 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 14 | 3.84 |
| (1,5042) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 10 | 3.84 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 2 | 3.84 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 19 | 3.84 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 11 | 3.84 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 11 | 3.84 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 11 | 3.84 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 15 | 3.84 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 15 | 3.84 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 15 | 3.84 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 11 | 3.84 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 11 | 3.84 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 11 | 3.84 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 4 | 3.84 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 4 | 3.84 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 4 | 3.84 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 4 | 3.84 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 4 | 3.84 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 4 | 3.84 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 4 | 3.84 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 4 | 3.84 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 4 | 3.84 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 16 | 3.84 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 16 | 3.84 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 16 | 3.84 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 16 | 3.84 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 16 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 16 | 3.84 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 16 | 3.84 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 16 | 3.84 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 16 | 3.84 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 11 | 3.84 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 11 | 3.84 |
| (1,4720) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 12 | 3.84 |
| (1,4720) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 12 | 3.84 |
| (1,4720) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 12 | 3.84 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 5 | 3.84 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 6 | 3.84 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 6 | 3.84 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 14 | 3.84 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 13 | 3.84 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 13 | 3.84 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 12 | 3.84 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 12 | 3.84 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 2 | 3.84 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 2 | 3.84 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 5 | 3.84 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 7 | 3.84 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 1 | 3.84 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 1 | 3.84 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 1 | 3.84 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 1 | 3.84 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 1 | 3.84 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 1 | 3.84 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 10 | 3.84 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 10 | 3.84 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 6 | 3.84 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 6 | 3.84 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 10 | 3.84 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 10 | 3.84 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 15 | 3.84 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 15 | 3.84 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 15 | 3.84 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 15 | 3.84 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 15 | 3.84 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 15 | 3.84 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 2 | 3.84 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 2 | 3.84 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 10 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 10 | 3.84 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 10 | 3.84 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 10 | 3.84 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 16 | 3.84 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 16 | 3.84 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 10 | 3.84 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 15 | 3.84 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 6 | 3.84 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 6 | 3.84 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 9 | 3.84 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 5 | 3.84 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 5 | 3.84 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 5 | 3.84 |
| (1,4146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 8 | 3.84 |
| (1,4146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 8 | 3.84 |
| (1,4146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 8 | 3.84 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 14 | 3.84 |
| (1,4046) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 7 | 3.84 |
| (1,4046) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 7 | 3.84 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 7 | 3.84 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 7 | 3.84 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 7 | 3.84 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 7 | 3.84 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 7 | 3.84 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 7 | 3.84 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 11 | 3.84 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 11 | 3.84 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 15 | 3.84 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 15 | 3.84 |
| (1,3950) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 18 | 3.84 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 6 | 3.84 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 6 | 3.84 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 8 | 3.84 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 8 | 3.84 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 8 | 3.84 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 3 | 3.84 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 3 | 3.84 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 3 | 3.84 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 7 | 3.84 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 7 | 3.84 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 7 | 3.84 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 7 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 7 | 3.84 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 7 | 3.84 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 3.84 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 3.84 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 3.84 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 4 | 3.84 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 4 | 3.84 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 4 | 3.84 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 4 | 3.84 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 4 | 3.84 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 4 | 3.84 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 3 | 3.84 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 14 | 3.84 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 14 | 3.84 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 14 | 3.84 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 14 | 3.84 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 18 | 3.84 |
| (1,3647) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 8 | 3.84 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 2 | 3.84 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 13 | 3.84 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 13 | 3.84 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 13 | 3.84 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 13 | 3.84 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 13 | 3.84 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 18 | 3.84 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 18 | 3.84 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 18 | 3.84 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 13 | 3.84 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 13 | 3.84 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 13 | 3.84 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 13 | 3.84 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 13 | 3.84 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 13 | 3.84 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 4 | 3.84 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 4 | 3.84 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 4 | 3.84 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 15 | 3.84 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 8 | 3.84 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 7 | 3.84 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 7 | 3.84 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 8 | 3.84 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 4 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 13 | 3.84 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 13 | 3.84 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 2 | 3.84 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 2 | 3.84 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 2 | 3.84 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 2 | 3.84 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 6 | 3.84 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 6 | 3.84 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 9 | 3.84 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 14 | 3.84 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 14 | 3.84 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 14 | 3.84 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 14 | 3.84 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 14 | 3.84 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 14 | 3.84 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 8 | 3.84 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 8 | 3.84 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 8 | 3.84 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 12 | 3.84 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 6 | 3.84 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 6 | 3.84 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 1 | 3.84 |
| (1,3099) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 8 | 3.84 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 14 | 3.84 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 18 | 3.84 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 16 | 3.84 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 4 | 3.84 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 6 | 3.84 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 9 | 3.84 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 5 | 3.84 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 5 | 3.84 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 3 | 3.84 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 3 | 3.84 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 3 | 3.84 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 6 | 3.84 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 6 | 3.84 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 6 | 3.84 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 20 | 3.84 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 20 | 3.84 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 20 | 3.84 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 15 | 3.84 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 6 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 6 | 3.84 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 3 | 3.84 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 3 | 3.84 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 8 | 3.84 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 1 | 3.84 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 1 | 3.84 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 1 | 3.84 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 13 | 3.84 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 13 | 3.84 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 13 | 3.84 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 3 | 3.84 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 3 | 3.84 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 3 | 3.84 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 13 | 3.84 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 1 | 3.84 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 17 | 3.84 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 9 | 3.84 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 9 | 3.84 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 9 | 3.84 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 17 | 3.84 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 2 | 3.84 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 2 | 3.84 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 2 | 3.84 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 9 | 3.84 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 18 | 3.84 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 4 | 3.84 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 10 | 3.84 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 17 | 3.84 |
| (1,2264) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 6 | 3.84 |
| (1,2264) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 6 | 3.84 |
| (1,2264) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 6 | 3.84 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 2 | 3.84 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 2 | 3.84 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 2 | 3.84 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 16 | 3.84 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 16 | 3.84 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 16 | 3.84 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 8 | 3.84 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 10 | 3.84 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 16 | 3.84 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 16 | 3.84 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 16 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 14 | 3.84 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 14 | 3.84 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 14 | 3.84 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 20 | 3.84 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 20 | 3.84 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 20 | 3.84 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 13 | 3.84 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 3 | 3.84 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 3 | 3.84 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 19 | 3.84 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 19 | 3.84 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 19 | 3.84 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 19 | 3.84 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 19 | 3.84 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 19 | 3.84 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 13 | 3.84 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 13 | 3.84 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 20 | 3.84 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 20 | 3.84 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 20 | 3.84 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 4 | 3.84 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 1 | 3.84 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 5 | 3.84 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 5 | 3.84 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 5 | 3.84 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 5 | 3.84 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 5 | 3.84 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 5 | 3.84 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 5 | 3.84 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 5 | 3.84 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 5 | 3.84 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 4 | 3.84 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 4 | 3.84 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 4 | 3.84 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 8 | 3.84 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 8 | 3.84 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 9 | 3.84 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 9 | 3.84 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 9 | 3.84 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 16 | 3.84 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 16 | 3.84 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 18 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 17 | 3.84 |
| (1,1390) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 4 | 3.84 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 16 | 3.84 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 16 | 3.84 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 16 | 3.84 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 16 | 3.84 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 16 | 3.84 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 16 | 3.84 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 12 | 3.84 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 12 | 3.84 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 17 | 3.84 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 17 | 3.84 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 5 | 3.84 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 5 | 3.84 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 5 | 3.84 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 19 | 3.84 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 19 | 3.84 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 19 | 3.84 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 2 | 3.84 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 15 | 3.84 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 19 | 3.84 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 17 | 3.84 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 17 | 3.84 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 14 | 3.84 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 14 | 3.84 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 14 | 3.84 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 18 | 3.84 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 13 | 3.84 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 13 | 3.84 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 13 | 3.84 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 16 | 3.84 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 16 | 3.84 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 16 | 3.84 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 1 | 3.84 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 3 | 3.84 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 3 | 3.84 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 3 | 3.84 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 7 | 3.84 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 9 | 3.84 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 5 | 3.84 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 3.84 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 1 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 1 | 3.84 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 5 | 3.84 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 19 | 3.84 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 6 | 3.84 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 6 | 3.84 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 6 | 3.84 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 9 | 3.84 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 9 | 3.84 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 9 | 3.84 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 16 | 3.84 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 16 | 3.84 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 16 | 3.84 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 12 | 3.84 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 12 | 3.84 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 12 | 3.84 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 16 | 3.84 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 16 | 3.84 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 16 | 3.84 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 16 | 3.84 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 16 | 3.84 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 16 | 3.84 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 14 | 3.84 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 14 | 3.84 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 14 | 3.84 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 12 | 3.84 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 12 | 3.84 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 12 | 3.84 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 10 | 3.84 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 10 | 3.84 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 10 | 3.84 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 10 | 3.84 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 10 | 3.84 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 10 | 3.84 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 14 | 3.84 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 14 | 3.84 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 14 | 3.84 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 14 | 3.84 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 14 | 3.84 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 14 | 3.84 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 20 | 3.84 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 20 | 3.84 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 20 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 20 | 3.84 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 20 | 3.84 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 20 | 3.84 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 20 | 3.84 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 20 | 3.84 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 20 | 3.84 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 9 | 3.84 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 13 | 3.84 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 3 | 3.84 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 18 | 3.84 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 15 | 3.83 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 18 | 3.83 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 10 | 3.83 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 4 | 3.83 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 4 | 3.83 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 4 | 3.83 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 4 | 3.83 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 4 | 3.83 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 4 | 3.83 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 3.83 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 3.83 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 18 | 3.83 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 18 | 3.83 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 4 | 3.83 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 4 | 3.83 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 4 | 3.83 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 4 | 3.83 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 10 | 3.83 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 10 | 3.83 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 11 | 3.83 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 11 | 3.83 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 11 | 3.83 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 11 | 3.83 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 6 | 3.83 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 6 | 3.83 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 17 | 3.83 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 17 | 3.83 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 17 | 3.83 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 17 | 3.83 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 8 | 3.83 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 8 | 3.83 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 8 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 8 | 3.83 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 3.83 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 3.83 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 5 | 3.83 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 5 | 3.83 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 3 | 3.83 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 3 | 3.83 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 3 | 3.83 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 3 | 3.83 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 3 | 3.83 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 3 | 3.83 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 18 | 3.83 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 18 | 3.83 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 3.83 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 3.83 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 3.83 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 3.83 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 17 | 3.83 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 17 | 3.83 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 13 | 3.83 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 13 | 3.83 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 16 | 3.83 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 16 | 3.83 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 10 | 3.83 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 10 | 3.83 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 10 | 3.83 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 10 | 3.83 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 10 | 3.83 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 10 | 3.83 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 8 | 3.83 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 8 | 3.83 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 7 | 3.83 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 7 | 3.83 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 11 | 3.83 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 11 | 3.83 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 4 | 3.83 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 4 | 3.83 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 4 | 3.83 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 4 | 3.83 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 4 | 3.83 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 4 | 3.83 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 12 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 12 | 3.83 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 17 | 3.83 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 17 | 3.83 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 17 | 3.83 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 17 | 3.83 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 17 | 3.83 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 17 | 3.83 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 15 | 3.83 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 15 | 3.83 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 9 | 3.83 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 9 | 3.83 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 9 | 3.83 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 9 | 3.83 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 9 | 3.83 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 9 | 3.83 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 5 | 3.83 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 5 | 3.83 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 1 | 3.83 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 1 | 3.83 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 7 | 3.83 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 7 | 3.83 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 7 | 3.83 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 7 | 3.83 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 8 | 3.83 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 8 | 3.83 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 8 | 3.83 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 8 | 3.83 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 15 | 3.83 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 15 | 3.83 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 18 | 3.83 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 18 | 3.83 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 18 | 3.83 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 18 | 3.83 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 1 | 3.83 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 1 | 3.83 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 1 | 3.83 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 1 | 3.83 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 1 | 3.83 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 1 | 3.83 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 12 | 3.83 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 12 | 3.83 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 15 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 15 | 3.83 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 15 | 3.83 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 15 | 3.83 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 15 | 3.83 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 15 | 3.83 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 14 | 3.83 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 14 | 3.83 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 16 | 3.83 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 16 | 3.83 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 1 | 3.83 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 1 | 3.83 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 1 | 3.83 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 1 | 3.83 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 2 | 3.83 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 2 | 3.83 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 9 | 3.83 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 9 | 3.83 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 9 | 3.83 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 9 | 3.83 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 9 | 3.83 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 9 | 3.83 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 4 | 3.83 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 4 | 3.83 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 4 | 3.83 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 4 | 3.83 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 4 | 3.83 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 4 | 3.83 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 7 | 3.83 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 7 | 3.83 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 7 | 3.83 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 7 | 3.83 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 2 | 3.83 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 2 | 3.83 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 2 | 3.83 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 17 | 3.83 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 18 | 3.83 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 1 | 3.83 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 1 | 3.83 |
| (1,8476) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 1 | 3.83 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 5 | 3.83 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 5 | 3.83 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 5 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 3 | 3.83 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 3 | 3.83 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 3 | 3.83 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 12 | 3.83 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 12 | 3.83 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 12 | 3.83 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 12 | 3.83 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 12 | 3.83 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 12 | 3.83 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD11 | 1 | 3.83 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD12 | 1 | 3.83 |
| (1,8374) | 1:137:A:ALA:HA | 1:159:A:ILE:HD13 | 1 | 3.83 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 4 | 3.83 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 4 | 3.83 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 7 | 3.83 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 7 | 3.83 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 14 | 3.83 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 14 | 3.83 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 15 | 3.83 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 15 | 3.83 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 8 | 3.83 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 8 | 3.83 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 12 | 3.83 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 12 | 3.83 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 12 | 3.83 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 5 | 3.83 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 5 | 3.83 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 5 | 3.83 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 17 | 3.83 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 17 | 3.83 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 17 | 3.83 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 8 | 3.83 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 8 | 3.83 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 8 | 3.83 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 20 | 3.83 |
| (1,7998) | 1:81:A:THR:HG21 | 1:84:A:GLU:HA | 6 | 3.83 |
| (1,7998) | 1:81:A:THR:HG22 | 1:84:A:GLU:HA | 6 | 3.83 |
| (1,7998) | 1:81:A:THR:HG23 | 1:84:A:GLU:HA | 6 | 3.83 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 15 | 3.83 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 15 | 3.83 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 11 | 3.83 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 9 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7860) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 14 | 3.83 |
| (1,7860) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 14 | 3.83 |
| (1,7860) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 14 | 3.83 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 1 | 3.83 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 1 | 3.83 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 1 | 3.83 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 8 | 3.83 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 8 | 3.83 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 8 | 3.83 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 9 | 3.83 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 9 | 3.83 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 9 | 3.83 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 4 | 3.83 |
| (1,7774) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 16 | 3.83 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 19 | 3.83 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 15 | 3.83 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 15 | 3.83 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 15 | 3.83 |
| (1,7683) | 1:37:A:PRO:HG2 | 1:38:A:SER:HA | 18 | 3.83 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 8 | 3.83 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 18 | 3.83 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 6 | 3.83 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 6 | 3.83 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 6 | 3.83 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 15 | 3.83 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 16 | 3.83 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 6 | 3.83 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 6 | 3.83 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 6 | 3.83 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 18 | 3.83 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 18 | 3.83 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 13 | 3.83 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 13 | 3.83 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 13 | 3.83 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 5 | 3.83 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 5 | 3.83 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 13 | 3.83 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 13 | 3.83 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 13 | 3.83 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 4 | 3.83 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 4 | 3.83 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 4 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 8 | 3.83 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 13 | 3.83 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 13 | 3.83 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 16 | 3.83 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 16 | 3.83 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 15 | 3.83 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 15 | 3.83 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 17 | 3.83 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 17 | 3.83 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 5 | 3.83 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 5 | 3.83 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 14 | 3.83 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 11 | 3.83 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 12 | 3.83 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 12 | 3.83 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 12 | 3.83 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 12 | 3.83 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 12 | 3.83 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 7 | 3.83 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 12 | 3.83 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 5 | 3.83 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 5 | 3.83 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 5 | 3.83 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 19 | 3.83 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 19 | 3.83 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 19 | 3.83 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 12 | 3.83 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 12 | 3.83 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 12 | 3.83 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 17 | 3.83 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 17 | 3.83 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 17 | 3.83 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 3 | 3.83 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 3 | 3.83 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 5 | 3.83 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 5 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 20 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 20 | 3.83 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 20 | 3.83 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 18 | 3.83 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 18 | 3.83 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 18 | 3.83 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 18 | 3.83 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 18 | 3.83 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 18 | 3.83 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 18 | 3.83 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 18 | 3.83 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 18 | 3.83 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 11 | 3.83 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 11 | 3.83 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 11 | 3.83 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 12 | 3.83 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 3 | 3.83 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 7 | 3.83 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 8 | 3.83 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 13 | 3.83 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 13 | 3.83 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 13 | 3.83 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 11 | 3.83 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 9 | 3.83 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 18 | 3.83 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 11 | 3.83 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 6 | 3.83 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 6 | 3.83 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 6 | 3.83 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 12 | 3.83 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 12 | 3.83 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 12 | 3.83 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 12 | 3.83 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 12 | 3.83 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 12 | 3.83 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 12 | 3.83 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 12 | 3.83 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 12 | 3.83 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 13 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 13 | 3.83 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 13 | 3.83 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 19 | 3.83 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 19 | 3.83 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 19 | 3.83 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 14 | 3.83 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 14 | 3.83 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 14 | 3.83 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 1 | 3.83 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 1 | 3.83 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 1 | 3.83 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 18 | 3.83 |
| (1,6171) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 16 | 3.83 |
| (1,6171) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 16 | 3.83 |
| (1,6171) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 16 | 3.83 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 16 | 3.83 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 12 | 3.83 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 12 | 3.83 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 9 | 3.83 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 9 | 3.83 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 9 | 3.83 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 3 | 3.83 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 3 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 8 | 3.83 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 8 | 3.83 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 1 | 3.83 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 1 | 3.83 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 10 | 3.83 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 10 | 3.83 |
| (1,5796) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 10 | 3.83 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 10 | 3.83 |
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 10 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5796) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 10 | 3.83 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 20 | 3.83 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 20 | 3.83 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 20 | 3.83 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 7 | 3.83 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 16 | 3.83 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 17 | 3.83 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 5 | 3.83 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 5 | 3.83 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 5 | 3.83 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 11 | 3.83 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 7 | 3.83 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 7 | 3.83 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 7 | 3.83 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 13 | 3.83 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 12 | 3.83 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 19 | 3.83 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 3 | 3.83 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 3 | 3.83 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 3 | 3.83 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 13 | 3.83 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 5 | 3.83 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 5 | 3.83 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 5 | 3.83 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 5 | 3.83 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 11 | 3.83 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 17 | 3.83 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 17 | 3.83 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 17 | 3.83 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 20 | 3.83 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 20 | 3.83 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 20 | 3.83 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 18 | 3.83 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 15 | 3.83 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 17 | 3.83 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 14 | 3.83 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 11 | 3.83 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 11 | 3.83 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 3 | 3.83 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 3 | 3.83 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 3 | 3.83 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 7 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 7 | 3.83 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 7 | 3.83 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 14 | 3.83 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 14 | 3.83 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 14 | 3.83 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 15 | 3.83 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 15 | 3.83 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 15 | 3.83 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 15 | 3.83 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 15 | 3.83 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 15 | 3.83 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 15 | 3.83 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 15 | 3.83 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 15 | 3.83 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 17 | 3.83 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 17 | 3.83 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 17 | 3.83 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 15 | 3.83 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 1 | 3.83 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 19 | 3.83 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 8 | 3.83 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 3.83 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 3.83 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 1 | 3.83 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 1 | 3.83 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 1 | 3.83 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 12 | 3.83 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 12 | 3.83 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 12 | 3.83 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 12 | 3.83 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 12 | 3.83 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 12 | 3.83 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 4 | 3.83 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 4 | 3.83 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 4 | 3.83 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 4 | 3.83 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 17 | 3.83 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 19 | 3.83 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 19 | 3.83 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 19 | 3.83 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 11 | 3.83 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 11 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 11 | 3.83 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 11 | 3.83 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 6 | 3.83 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 6 | 3.83 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 12 | 3.83 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 12 | 3.83 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 8 | 3.83 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 8 | 3.83 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 8 | 3.83 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 8 | 3.83 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 3.83 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 3.83 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 3 | 3.83 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 3 | 3.83 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 3 | 3.83 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 3 | 3.83 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 3 | 3.83 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 3 | 3.83 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 12 | 3.83 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 3.83 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 3.83 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 3.83 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 3.83 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 17 | 3.83 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 17 | 3.83 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 3.83 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 3.83 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 3.83 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 13 | 3.83 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 13 | 3.83 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 16 | 3.83 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 16 | 3.83 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 10 | 3.83 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 10 | 3.83 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 10 | 3.83 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 10 | 3.83 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 12 | 3.83 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 12 | 3.83 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 12 | 3.83 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 12 | 3.83 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 12 | 3.83 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 12 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 6 | 3.83 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 2 | 3.83 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 2 | 3.83 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 2 | 3.83 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 11 | 3.83 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 11 | 3.83 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 11 | 3.83 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 13 | 3.83 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 13 | 3.83 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 13 | 3.83 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 8 | 3.83 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 8 | 3.83 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 2 | 3.83 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 11 | 3.83 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 17 | 3.83 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 17 | 3.83 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 17 | 3.83 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 17 | 3.83 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 17 | 3.83 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 17 | 3.83 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 1 | 3.83 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 1 | 3.83 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 12 | 3.83 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 12 | 3.83 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 7 | 3.83 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 7 | 3.83 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 7 | 3.83 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 7 | 3.83 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 8 | 3.83 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 8 | 3.83 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 8 | 3.83 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 8 | 3.83 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 10 | 3.83 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 12 | 3.83 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 12 | 3.83 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 19 | 3.83 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 20 | 3.83 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 20 | 3.83 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 20 | 3.83 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 17 | 3.83 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 1 | 3.83 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 1 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 1 | 3.83 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 1 | 3.83 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 2 | 3.83 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 2 | 3.83 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 4 | 3.83 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 3.83 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 9 | 3.83 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 9 | 3.83 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 9 | 3.83 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 9 | 3.83 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 9 | 3.83 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 9 | 3.83 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 4 | 3.83 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 4 | 3.83 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 4 | 3.83 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 4 | 3.83 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 4 | 3.83 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 4 | 3.83 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 7 | 3.83 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 7 | 3.83 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 7 | 3.83 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 7 | 3.83 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 14 | 3.83 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 10 | 3.83 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 13 | 3.83 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 13 | 3.83 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 13 | 3.83 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 4 | 3.83 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 4 | 3.83 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 4 | 3.83 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 17 | 3.83 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 8 | 3.83 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 2 | 3.83 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 2 | 3.83 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 2 | 3.83 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 13 | 3.83 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 13 | 3.83 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 16 | 3.83 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 16 | 3.83 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 15 | 3.83 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 15 | 3.83 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 17 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 17 | 3.83 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 5 | 3.83 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 5 | 3.83 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 2 | 3.83 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 14 | 3.83 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 11 | 3.83 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 12 | 3.83 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 12 | 3.83 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 12 | 3.83 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 8 | 3.83 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 8 | 3.83 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 8 | 3.83 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 12 | 3.83 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 18 | 3.83 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 12 | 3.83 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 7 | 3.83 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 14 | 3.83 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 14 | 3.83 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 1 | 3.83 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 12 | 3.83 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 5 | 3.83 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 5 | 3.83 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 5 | 3.83 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 19 | 3.83 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 19 | 3.83 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 19 | 3.83 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 12 | 3.83 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 12 | 3.83 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 12 | 3.83 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 17 | 3.83 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 17 | 3.83 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 17 | 3.83 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 3 | 3.83 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 3 | 3.83 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 5 | 3.83 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 5 | 3.83 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 16 | 3.83 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 16 | 3.83 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 2 | 3.83 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 18 | 3.83 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 18 | 3.83 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 18 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 18 | 3.83 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 18 | 3.83 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 18 | 3.83 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 18 | 3.83 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 18 | 3.83 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 18 | 3.83 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 11 | 3.83 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 11 | 3.83 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 11 | 3.83 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 11 | 3.83 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 12 | 3.83 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 3 | 3.83 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 1 | 3.83 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 7 | 3.83 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 5 | 3.83 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 8 | 3.83 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 13 | 3.83 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 13 | 3.83 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 13 | 3.83 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 11 | 3.83 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 9 | 3.83 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 18 | 3.83 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 1 | 3.83 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 1 | 3.83 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 1 | 3.83 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 11 | 3.83 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 4 | 3.83 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 6 | 3.83 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 6 | 3.83 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 6 | 3.83 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 12 | 3.83 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 12 | 3.83 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 12 | 3.83 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 12 | 3.83 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 12 | 3.83 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 12 | 3.83 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 12 | 3.83 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 12 | 3.83 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 12 | 3.83 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 13 | 3.83 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 13 | 3.83 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 13 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 19 | 3.83 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 19 | 3.83 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 19 | 3.83 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 14 | 3.83 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 14 | 3.83 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 14 | 3.83 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 17 | 3.83 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 17 | 3.83 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 17 | 3.83 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 9 | 3.83 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 9 | 3.83 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 9 | 3.83 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 6 | 3.83 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 6 | 3.83 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 6 | 3.83 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 14 | 3.83 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 3 | 3.83 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 3 | 3.83 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 3 | 3.83 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 1 | 3.83 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 1 | 3.83 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 1 | 3.83 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 18 | 3.83 |
| (1,1774) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 16 | 3.83 |
| (1,1774) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 16 | 3.83 |
| (1,1774) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 16 | 3.83 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 16 | 3.83 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 12 | 3.83 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 12 | 3.83 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 4 | 3.83 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 4 | 3.83 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 4 | 3.83 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 4 | 3.83 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 14 | 3.83 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 3 | 3.83 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 3 | 3.83 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 1 | 3.83 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 1 | 3.83 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 3 | 3.83 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 10 | 3.83 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 10 | 3.83 |
| (1,1152) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 10 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 10 | 3.83 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 10 | 3.83 |
| (1,1152) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 10 | 3.83 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 20 | 3.83 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 20 | 3.83 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 20 | 3.83 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 7 | 3.83 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 12 | 3.83 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 4 | 3.83 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 4 | 3.83 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 3.83 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 3.83 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 3.83 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 16 | 3.83 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 17 | 3.83 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 11 | 3.83 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 5 | 3.83 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 5 | 3.83 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 5 | 3.83 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 11 | 3.83 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 15 | 3.83 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 15 | 3.83 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 15 | 3.83 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 7 | 3.83 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 7 | 3.83 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 7 | 3.83 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 13 | 3.83 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 18 | 3.83 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 18 | 3.83 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 18 | 3.83 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 11 | 3.83 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 18 | 3.83 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 12 | 3.83 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 19 | 3.83 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 3 | 3.83 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 3 | 3.83 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 3 | 3.83 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 16 | 3.83 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 13 | 3.83 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 18 | 3.83 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 18 | 3.83 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 18 | 3.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 18 | 3.83 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 18 | 3.83 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 18 | 3.83 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 19 | 3.83 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 19 | 3.83 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 19 | 3.83 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 19 | 3.83 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 19 | 3.83 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 19 | 3.83 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 2 | 3.83 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 2 | 3.83 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 2 | 3.83 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 2 | 3.83 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 2 | 3.83 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 2 | 3.83 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 2 | 3.83 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 2 | 3.83 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 2 | 3.83 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 9 | 3.83 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 9 | 3.83 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 20 | 3.82 |
| (3,206) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 1 | 3.82 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 10 | 3.82 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 10 | 3.82 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 10 | 3.82 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 10 | 3.82 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 11 | 3.82 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 11 | 3.82 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 5 | 3.82 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 5 | 3.82 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 6 | 3.82 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 6 | 3.82 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 11 | 3.82 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 11 | 3.82 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 10 | 3.82 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 10 | 3.82 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 10 | 3.82 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 10 | 3.82 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 10 | 3.82 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 10 | 3.82 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 6 | 3.82 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 6 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 1 | 3.82 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 1 | 3.82 |
| (1,9462) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 1 | 3.82 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 1 | 3.82 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 1 | 3.82 |
| (1,9462) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 1 | 3.82 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 11 | 3.82 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 11 | 3.82 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 19 | 3.82 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 19 | 3.82 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 19 | 3.82 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 19 | 3.82 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 8 | 3.82 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 8 | 3.82 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 11 | 3.82 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 11 | 3.82 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 17 | 3.82 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 17 | 3.82 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 8 | 3.82 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 8 | 3.82 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 8 | 3.82 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 8 | 3.82 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 8 | 3.82 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 8 | 3.82 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 11 | 3.82 |
| (1,9308) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 11 | 3.82 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 19 | 3.82 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 19 | 3.82 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 19 | 3.82 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 19 | 3.82 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 8 | 3.82 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 3.82 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 8 | 3.82 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 8 | 3.82 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 8 | 3.82 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 8 | 3.82 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 8 | 3.82 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 8 | 3.82 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 12 | 3.82 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 12 | 3.82 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 12 | 3.82 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 12 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 12 | 3.82 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 12 | 3.82 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 5 | 3.82 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 5 | 3.82 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 12 | 3.82 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 12 | 3.82 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 12 | 3.82 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 12 | 3.82 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 18 | 3.82 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 18 | 3.82 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 17 | 3.82 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 17 | 3.82 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 17 | 3.82 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 17 | 3.82 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 17 | 3.82 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 17 | 3.82 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB2 | 16 | 3.82 |
| (1,9156) | 1:93:A:ILE:HB | 1:94:A:GLN:HB3 | 16 | 3.82 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 6 | 3.82 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 6 | 3.82 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 10 | 3.82 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 10 | 3.82 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 5 | 3.82 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 5 | 3.82 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 6 | 3.82 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 6 | 3.82 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 14 | 3.82 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 14 | 3.82 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 14 | 3.82 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 14 | 3.82 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 14 | 3.82 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 14 | 3.82 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 14 | 3.82 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 14 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 2 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 2 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 2 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 2 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 4 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 4 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 4 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 4 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 9 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 9 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 9 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 9 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 10 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 10 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 10 | 3.82 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 10 | 3.82 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 4 | 3.82 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 4 | 3.82 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 4 | 3.82 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 4 | 3.82 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 15 | 3.82 |
| (1,8895) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 15 | 3.82 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 10 | 3.82 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 10 | 3.82 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 5 | 3.82 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 5 | 3.82 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 12 | 3.82 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 12 | 3.82 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 19 | 3.82 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 19 | 3.82 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 6 | 3.82 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 6 | 3.82 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 15 | 3.82 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 15 | 3.82 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 16 | 3.82 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 16 | 3.82 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 14 | 3.82 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 14 | 3.82 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 3 | 3.82 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 3 | 3.82 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 3 | 3.82 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 3 | 3.82 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 3 | 3.82 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 3 | 3.82 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 3 | 3.82 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 3 | 3.82 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 18 | 3.82 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 18 | 3.82 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 5 | 3.82 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 5 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 18 | 3.82 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 18 | 3.82 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 9 | 3.82 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 9 | 3.82 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 18 | 3.82 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 18 | 3.82 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 18 | 3.82 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 18 | 3.82 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 18 | 3.82 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 18 | 3.82 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 13 | 3.82 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 13 | 3.82 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 13 | 3.82 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 6 | 3.82 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 17 | 3.82 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 8 | 3.82 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 1 | 3.82 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 1 | 3.82 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 1 | 3.82 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 12 | 3.82 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 12 | 3.82 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 9 | 3.82 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 1 | 3.82 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 1 | 3.82 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 1 | 3.82 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 1 | 3.82 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 1 | 3.82 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 1 | 3.82 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 6 | 3.82 |
| (1,8193) | 1:104:A:GLU:H | 1:106:A:LEU:H | 8 | 3.82 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 5 | 3.82 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 5 | 3.82 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 1 | 3.82 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 1 | 3.82 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 15 | 3.82 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 15 | 3.82 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 18 | 3.82 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 18 | 3.82 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 18 | 3.82 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 18 | 3.82 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 18 | 3.82 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 18 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 18 | 3.82 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 18 | 3.82 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 18 | 3.82 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 12 | 3.82 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD21 | 4 | 3.82 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD22 | 4 | 3.82 |
| (1,8042) | 1:87:A:GLU:H | 1:88:A:LEU:HD23 | 4 | 3.82 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 13 | 3.82 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 13 | 3.82 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 13 | 3.82 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 13 | 3.82 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 13 | 3.82 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 13 | 3.82 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 13 | 3.82 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 13 | 3.82 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 13 | 3.82 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 8 | 3.82 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 15 | 3.82 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 15 | 3.82 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 15 | 3.82 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 15 | 3.82 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 15 | 3.82 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 15 | 3.82 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 5 | 3.82 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 5 | 3.82 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 5 | 3.82 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 14 | 3.82 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 1 | 3.82 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 1 | 3.82 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 5 | 3.82 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 5 | 3.82 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 5 | 3.82 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 13 | 3.82 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 13 | 3.82 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 13 | 3.82 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 11 | 3.82 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 2 | 3.82 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 2 | 3.82 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 2 | 3.82 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 2 | 3.82 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 2 | 3.82 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 2 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 5 | 3.82 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 16 | 3.82 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 18 | 3.82 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 18 | 3.82 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 18 | 3.82 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 13 | 3.82 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 13 | 3.82 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 11 | 3.82 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 13 | 3.82 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 18 | 3.82 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 16 | 3.82 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 6 | 3.82 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 6 | 3.82 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 3 | 3.82 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 17 | 3.82 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 17 | 3.82 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 4 | 3.82 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 4 | 3.82 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 9 | 3.82 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 9 | 3.82 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 10 | 3.82 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 10 | 3.82 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 7 | 3.82 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 7 | 3.82 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 7 | 3.82 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 3 | 3.82 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 17 | 3.82 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 17 | 3.82 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 5 | 3.82 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 19 | 3.82 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 19 | 3.82 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 19 | 3.82 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 9 | 3.82 |
| (1,7158) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 9 | 3.82 |
| (1,7094) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 4 | 3.82 |
| (1,7094) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 4 | 3.82 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 3 | 3.82 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 8 | 3.82 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 11 | 3.82 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 11 | 3.82 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 20 | 3.82 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 19 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 19 | 3.82 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 19 | 3.82 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 4 | 3.82 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 4 | 3.82 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 4 | 3.82 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 14 | 3.82 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 14 | 3.82 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 14 | 3.82 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 18 | 3.82 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 18 | 3.82 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 18 | 3.82 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 10 | 3.82 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 10 | 3.82 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 10 | 3.82 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 17 | 3.82 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 17 | 3.82 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 6 | 3.82 |
| (1,6625) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 9 | 3.82 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 8 | 3.82 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 2 | 3.82 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 9 | 3.82 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 3 | 3.82 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 3 | 3.82 |
| (1,6472) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 3 | 3.82 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 12 | 3.82 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 12 | 3.82 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 12 | 3.82 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 5 | 3.82 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 5 | 3.82 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 5 | 3.82 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 12 | 3.82 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 12 | 3.82 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 12 | 3.82 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 4 | 3.82 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 4 | 3.82 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 4 | 3.82 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 1 | 3.82 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 10 | 3.82 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 10 | 3.82 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 10 | 3.82 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 19 | 3.82 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 10 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 10 | 3.82 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 10 | 3.82 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 1 | 3.82 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 1 | 3.82 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 1 | 3.82 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 16 | 3.82 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 16 | 3.82 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 16 | 3.82 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 9 | 3.82 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 9 | 3.82 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 9 | 3.82 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 1 | 3.82 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 1 | 3.82 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 17 | 3.82 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 17 | 3.82 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 17 | 3.82 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 5 | 3.82 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 5 | 3.82 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 5 | 3.82 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 3 | 3.82 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 3 | 3.82 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 3 | 3.82 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 7 | 3.82 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 7 | 3.82 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 7 | 3.82 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 11 | 3.82 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 6 | 3.82 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 6 | 3.82 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 17 | 3.82 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 17 | 3.82 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 17 | 3.82 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 8 | 3.82 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 14 | 3.82 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 9 | 3.82 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 4 | 3.82 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 9 | 3.82 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 12 | 3.82 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 12 | 3.82 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 12 | 3.82 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 1 | 3.82 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 1 | 3.82 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 1 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 18 | 3.82 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 18 | 3.82 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 3.82 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 3.82 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 3.82 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 14 | 3.82 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 8 | 3.82 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 15 | 3.82 |
| (1,5675) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 11 | 3.82 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 17 | 3.82 |
| (1,5658) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 12 | 3.82 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 9 | 3.82 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 10 | 3.82 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 10 | 3.82 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 10 | 3.82 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 13 | 3.82 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 13 | 3.82 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 13 | 3.82 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 14 | 3.82 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 14 | 3.82 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 14 | 3.82 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 8 | 3.82 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 2 | 3.82 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 18 | 3.82 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 18 | 3.82 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 18 | 3.82 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 10 | 3.82 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 10 | 3.82 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 10 | 3.82 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 15 | 3.82 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 15 | 3.82 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 15 | 3.82 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 5 | 3.82 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 9 | 3.82 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 15 | 3.82 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 15 | 3.82 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 15 | 3.82 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 15 | 3.82 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 15 | 3.82 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 15 | 3.82 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 15 | 3.82 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 15 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 15 | 3.82 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 15 | 3.82 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 15 | 3.82 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 11 | 3.82 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 11 | 3.82 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 11 | 3.82 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 20 | 3.82 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 20 | 3.82 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 20 | 3.82 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 2 | 3.82 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 2 | 3.82 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 2 | 3.82 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 4 | 3.82 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 15 | 3.82 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 15 | 3.82 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 15 | 3.82 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 6 | 3.82 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 6 | 3.82 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 6 | 3.82 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 8 | 3.82 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 8 | 3.82 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 8 | 3.82 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 5 | 3.82 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 5 | 3.82 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 5 | 3.82 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 8 | 3.82 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 18 | 3.82 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 16 | 3.82 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 19 | 3.82 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 14 | 3.82 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 14 | 3.82 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 14 | 3.82 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 17 | 3.82 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 17 | 3.82 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 17 | 3.82 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 1 | 3.82 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 11 | 3.82 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 18 | 3.82 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 19 | 3.82 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 13 | 3.82 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 13 | 3.82 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 13 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 13 | 3.82 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 13 | 3.82 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 13 | 3.82 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 13 | 3.82 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 13 | 3.82 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 13 | 3.82 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 3 | 3.82 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 3 | 3.82 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 3 | 3.82 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 3 | 3.82 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 3 | 3.82 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 3 | 3.82 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 3 | 3.82 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 3 | 3.82 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 3 | 3.82 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 14 | 3.82 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 14 | 3.82 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 14 | 3.82 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 1 | 3.82 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 1 | 3.82 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 1 | 3.82 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 2 | 3.82 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 19 | 3.82 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 7 | 3.82 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 11 | 3.82 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 19 | 3.82 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 19 | 3.82 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 19 | 3.82 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 8 | 3.82 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 8 | 3.82 |
| (1,4711) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 8 | 3.82 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 2 | 3.82 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 2 | 3.82 |
| (1,4703) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 2 | 3.82 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 13 | 3.82 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 13 | 3.82 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 13 | 3.82 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 13 | 3.82 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 13 | 3.82 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 13 | 3.82 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 13 | 3.82 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 6 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 6 | 3.82 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 10 | 3.82 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 10 | 3.82 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 10 | 3.82 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 5 | 3.82 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 5 | 3.82 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 17 | 3.82 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 17 | 3.82 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 17 | 3.82 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 10 | 3.82 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 10 | 3.82 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 19 | 3.82 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 19 | 3.82 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 10 | 3.82 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 10 | 3.82 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 10 | 3.82 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 10 | 3.82 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 10 | 3.82 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 10 | 3.82 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 10 | 3.82 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 1 | 3.82 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 1 | 3.82 |
| (1,4454) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 1 | 3.82 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 1 | 3.82 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 1 | 3.82 |
| (1,4454) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 1 | 3.82 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 11 | 3.82 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 11 | 3.82 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 19 | 3.82 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 19 | 3.82 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 19 | 3.82 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 19 | 3.82 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 9 | 3.82 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 9 | 3.82 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 1 | 3.82 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 13 | 3.82 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 11 | 3.82 |
| (1,4296) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 11 | 3.82 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 8 | 3.82 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 3.82 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 6 | 3.82 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 6 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 6 | 3.82 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 8 | 3.82 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 8 | 3.82 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 8 | 3.82 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 8 | 3.82 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 8 | 3.82 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 8 | 3.82 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 18 | 3.82 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 18 | 3.82 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 18 | 3.82 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 18 | 3.82 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 18 | 3.82 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 18 | 3.82 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 12 | 3.82 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 12 | 3.82 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 12 | 3.82 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 12 | 3.82 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 12 | 3.82 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 12 | 3.82 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 10 | 3.82 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 14 | 3.82 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 16 | 3.82 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 12 | 3.82 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 13 | 3.82 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 11 | 3.82 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 11 | 3.82 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 11 | 3.82 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 18 | 3.82 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 18 | 3.82 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 18 | 3.82 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 17 | 3.82 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 17 | 3.82 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 17 | 3.82 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 17 | 3.82 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 17 | 3.82 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 17 | 3.82 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 10 | 3.82 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 10 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 2 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 2 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 2 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 2 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 4 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 4 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 4 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 4 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 9 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 9 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 9 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 9 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 10 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 10 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 10 | 3.82 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 10 | 3.82 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 4 | 3.82 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 4 | 3.82 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 4 | 3.82 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 4 | 3.82 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 17 | 3.82 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 15 | 3.82 |
| (1,3854) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 15 | 3.82 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 7 | 3.82 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 7 | 3.82 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 7 | 3.82 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 12 | 3.82 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 12 | 3.82 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 4 | 3.82 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 13 | 3.82 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 13 | 3.82 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 13 | 3.82 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 13 | 3.82 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 13 | 3.82 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 13 | 3.82 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 4 | 3.82 |
| (1,3618) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 8 | 3.82 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 17 | 3.82 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 3 | 3.82 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 3 | 3.82 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 3 | 3.82 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 3 | 3.82 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 3 | 3.82 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 3 | 3.82 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 3 | 3.82 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 3 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 9 | 3.82 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 9 | 3.82 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 6 | 3.82 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 5 | 3.82 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 5 | 3.82 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 18 | 3.82 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 18 | 3.82 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 9 | 3.82 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 9 | 3.82 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 14 | 3.82 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 13 | 3.82 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 15 | 3.82 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 12 | 3.82 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 3.82 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 3.82 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 3.82 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 5 | 3.82 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 13 | 3.82 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 13 | 3.82 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 13 | 3.82 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 4 | 3.82 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 18 | 3.82 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 19 | 3.82 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 19 | 3.82 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 19 | 3.82 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 9 | 3.82 |
| (1,3268) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 9 | 3.82 |
| (1,3174) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 4 | 3.82 |
| (1,3174) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 4 | 3.82 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 3 | 3.82 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 8 | 3.82 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 11 | 3.82 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 11 | 3.82 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 20 | 3.82 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 19 | 3.82 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 19 | 3.82 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 19 | 3.82 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 4 | 3.82 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 4 | 3.82 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 4 | 3.82 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 14 | 3.82 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 14 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 14 | 3.82 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 18 | 3.82 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 18 | 3.82 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 18 | 3.82 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 17 | 3.82 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 10 | 3.82 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 10 | 3.82 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 10 | 3.82 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 17 | 3.82 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 17 | 3.82 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 6 | 3.82 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 13 | 3.82 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 13 | 3.82 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 13 | 3.82 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 14 | 3.82 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 14 | 3.82 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 14 | 3.82 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 4 | 3.82 |
| (1,2488) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 9 | 3.82 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 8 | 3.82 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 2 | 3.82 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 16 | 3.82 |
| (1,2386) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 20 | 3.82 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 9 | 3.82 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 13 | 3.82 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 3 | 3.82 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 3 | 3.82 |
| (1,2252) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 3 | 3.82 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 2 | 3.82 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 12 | 3.82 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 12 | 3.82 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 12 | 3.82 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 5 | 3.82 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 5 | 3.82 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 5 | 3.82 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 5 | 3.82 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 12 | 3.82 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 12 | 3.82 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 12 | 3.82 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 16 | 3.82 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 11 | 3.82 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 17 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 4 | 3.82 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 4 | 3.82 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 4 | 3.82 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 3.82 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 3.82 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 3.82 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 1 | 3.82 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 10 | 3.82 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 10 | 3.82 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 10 | 3.82 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 19 | 3.82 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 10 | 3.82 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 10 | 3.82 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 10 | 3.82 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 1 | 3.82 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 1 | 3.82 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 1 | 3.82 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 16 | 3.82 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 16 | 3.82 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 16 | 3.82 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 9 | 3.82 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 9 | 3.82 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 9 | 3.82 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 1 | 3.82 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 1 | 3.82 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 17 | 3.82 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 17 | 3.82 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 17 | 3.82 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 5 | 3.82 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 5 | 3.82 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 5 | 3.82 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 12 | 3.82 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 3 | 3.82 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 3 | 3.82 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 3 | 3.82 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 7 | 3.82 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 7 | 3.82 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 7 | 3.82 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 11 | 3.82 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 4 | 3.82 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 4 | 3.82 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 4 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 12 | 3.82 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 6 | 3.82 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 6 | 3.82 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 17 | 3.82 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 17 | 3.82 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 17 | 3.82 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 3.82 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 3.82 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 3 | 3.82 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 3 | 3.82 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 3 | 3.82 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 8 | 3.82 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 11 | 3.82 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 10 | 3.82 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 14 | 3.82 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 9 | 3.82 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 4 | 3.82 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 4 | 3.82 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 13 | 3.82 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 9 | 3.82 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 12 | 3.82 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 12 | 3.82 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 12 | 3.82 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 17 | 3.82 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 17 | 3.82 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 17 | 3.82 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 1 | 3.82 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 1 | 3.82 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 1 | 3.82 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 18 | 3.82 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 18 | 3.82 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 7 | 3.82 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 3.82 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 3.82 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 3.82 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 3 | 3.82 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 17 | 3.82 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 1 | 3.82 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 1 | 3.82 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 10 | 3.82 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 14 | 3.82 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 6 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 8 | 3.82 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 15 | 3.82 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 12 | 3.82 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 2 | 3.82 |
| (1,938) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 11 | 3.82 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 17 | 3.82 |
| (1,894) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 12 | 3.82 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 9 | 3.82 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 8 | 3.82 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 8 | 3.82 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 8 | 3.82 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 10 | 3.82 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 10 | 3.82 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 10 | 3.82 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 13 | 3.82 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 13 | 3.82 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 13 | 3.82 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 14 | 3.82 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 14 | 3.82 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 14 | 3.82 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 8 | 3.82 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 12 | 3.82 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 2 | 3.82 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 1 | 3.82 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 1 | 3.82 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 1 | 3.82 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 18 | 3.82 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 18 | 3.82 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 18 | 3.82 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 10 | 3.82 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 10 | 3.82 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 10 | 3.82 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 15 | 3.82 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 15 | 3.82 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 15 | 3.82 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 5 | 3.82 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 16 | 3.82 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 9 | 3.82 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 15 | 3.82 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 10 | 3.82 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 10 | 3.82 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 10 | 3.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 10 | 3.82 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 1 | 3.82 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 12 | 3.81 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 3 | 3.81 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 19 | 3.81 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 19 | 3.81 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 19 | 3.81 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 19 | 3.81 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 19 | 3.81 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 19 | 3.81 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 8 | 3.81 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 8 | 3.81 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 6 | 3.81 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 6 | 3.81 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 6 | 3.81 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 6 | 3.81 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 2 | 3.81 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 2 | 3.81 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 18 | 3.81 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 18 | 3.81 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 18 | 3.81 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 18 | 3.81 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 5 | 3.81 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 5 | 3.81 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 19 | 3.81 |
| (1,9456) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 19 | 3.81 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 15 | 3.81 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 15 | 3.81 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 10 | 3.81 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 10 | 3.81 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 3 | 3.81 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 3 | 3.81 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 3 | 3.81 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 3 | 3.81 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 13 | 3.81 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 13 | 3.81 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 13 | 3.81 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 13 | 3.81 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 13 | 3.81 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 13 | 3.81 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB2 | 15 | 3.81 |
| (1,9325) | 1:107:A:ALA:HB1 | 1:108:A:SER:HB3 | 15 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB2 | 15 | 3.81 |
| (1,9325) | 1:107:A:ALA:HB2 | 1:108:A:SER:HB3 | 15 | 3.81 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB2 | 15 | 3.81 |
| (1,9325) | 1:107:A:ALA:HB3 | 1:108:A:SER:HB3 | 15 | 3.81 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 3 | 3.81 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 3 | 3.81 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 12 | 3.81 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 12 | 3.81 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 15 | 3.81 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 15 | 3.81 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 14 | 3.81 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 14 | 3.81 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 14 | 3.81 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 14 | 3.81 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD11 | 10 | 3.81 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD12 | 10 | 3.81 |
| (1,9280) | 1:103:A:PHE:HB2 | 1:106:A:LEU:HD13 | 10 | 3.81 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD11 | 10 | 3.81 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD12 | 10 | 3.81 |
| (1,9280) | 1:103:A:PHE:HB3 | 1:106:A:LEU:HD13 | 10 | 3.81 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 4 | 3.81 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 4 | 3.81 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 5 | 3.81 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 5 | 3.81 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 5 | 3.81 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 5 | 3.81 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 18 | 3.81 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 18 | 3.81 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 10 | 3.81 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 10 | 3.81 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 17 | 3.81 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 17 | 3.81 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 17 | 3.81 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 17 | 3.81 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 5 | 3.81 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 5 | 3.81 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 5 | 3.81 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 5 | 3.81 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 5 | 3.81 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 5 | 3.81 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 16 | 3.81 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 16 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 19 | 3.81 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 19 | 3.81 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 6 | 3.81 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 6 | 3.81 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 6 | 3.81 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 6 | 3.81 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 12 | 3.81 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 12 | 3.81 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 12 | 3.81 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 12 | 3.81 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 1 | 3.81 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 1 | 3.81 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 1 | 3.81 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 1 | 3.81 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 1 | 3.81 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 1 | 3.81 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 4 | 3.81 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 4 | 3.81 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 20 | 3.81 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 20 | 3.81 |
| (1,8871) | 1:63:A:LYS:HB2 | 1:64:A:HIS:HA | 16 | 3.81 |
| (1,8871) | 1:63:A:LYS:HB3 | 1:64:A:HIS:HA | 16 | 3.81 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 18 | 3.81 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 18 | 3.81 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 18 | 3.81 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 18 | 3.81 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 18 | 3.81 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 18 | 3.81 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 8 | 3.81 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 8 | 3.81 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 8 | 3.81 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 8 | 3.81 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 15 | 3.81 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 15 | 3.81 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 15 | 3.81 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 15 | 3.81 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 15 | 3.81 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 15 | 3.81 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 7 | 3.81 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 7 | 3.81 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 5 | 3.81 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 5 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 14 | 3.81 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 14 | 3.81 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 1 | 3.81 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 1 | 3.81 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 1 | 3.81 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 1 | 3.81 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 2 | 3.81 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 2 | 3.81 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 2 | 3.81 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 2 | 3.81 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 2 | 3.81 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 2 | 3.81 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 2 | 3.81 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 2 | 3.81 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 9 | 3.81 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 9 | 3.81 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 9 | 3.81 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 9 | 3.81 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 9 | 3.81 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 9 | 3.81 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 15 | 3.81 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 15 | 3.81 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 12 | 3.81 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 12 | 3.81 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 13 | 3.81 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 13 | 3.81 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 15 | 3.81 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 15 | 3.81 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 20 | 3.81 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 20 | 3.81 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 20 | 3.81 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 5 | 3.81 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 8 | 3.81 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 8 | 3.81 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 2 | 3.81 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 12 | 3.81 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 12 | 3.81 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 18 | 3.81 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 19 | 3.81 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 17 | 3.81 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 17 | 3.81 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 3 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 3 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 2 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 2 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 2 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 2 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 2 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 2 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 2 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 2 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 2 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 19 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 19 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 19 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 19 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 19 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 19 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 19 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 19 | 3.81 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 19 | 3.81 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 9 | 3.81 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 9 | 3.81 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 9 | 3.81 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 19 | 3.81 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 18 | 3.81 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 6 | 3.81 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 6 | 3.81 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 6 | 3.81 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 4 | 3.81 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 8 | 3.81 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 3 | 3.81 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 7 | 3.81 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 1 | 3.81 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 1 | 3.81 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 1 | 3.81 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 5 | 3.81 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 5 | 3.81 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 5 | 3.81 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 19 | 3.81 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 1 | 3.81 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 20 | 3.81 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 20 | 3.81 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 1 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 1 | 3.81 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 1 | 3.81 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 1 | 3.81 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 1 | 3.81 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 1 | 3.81 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 1 | 3.81 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 1 | 3.81 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 1 | 3.81 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 13 | 3.81 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 13 | 3.81 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 11 | 3.81 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 13 | 3.81 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 13 | 3.81 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 10 | 3.81 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 10 | 3.81 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 4 | 3.81 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 4 | 3.81 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 4 | 3.81 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 15 | 3.81 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 15 | 3.81 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 15 | 3.81 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 3 | 3.81 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 9 | 3.81 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 9 | 3.81 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 9 | 3.81 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 14 | 3.81 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 14 | 3.81 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 14 | 3.81 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 14 | 3.81 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 4 | 3.81 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 4 | 3.81 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 4 | 3.81 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 4 | 3.81 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 4 | 3.81 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 19 | 3.81 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 19 | 3.81 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 7 | 3.81 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 4 | 3.81 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 3 | 3.81 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 14 | 3.81 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 14 | 3.81 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 5 | 3.81 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 20 | 3.81 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 20 | 3.81 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 20 | 3.81 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 1 | 3.81 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 1 | 3.81 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 1 | 3.81 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 16 | 3.81 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 16 | 3.81 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 16 | 3.81 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 16 | 3.81 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 16 | 3.81 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 16 | 3.81 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 19 | 3.81 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 19 | 3.81 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 19 | 3.81 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 17 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 10 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 10 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 10 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 14 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 14 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 14 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 16 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 16 | 3.81 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 16 | 3.81 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 8 | 3.81 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 6 | 3.81 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 12 | 3.81 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 1 | 3.81 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 10 | 3.81 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 18 | 3.81 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 8 | 3.81 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 2 | 3.81 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 9 | 3.81 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 9 | 3.81 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 9 | 3.81 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 15 | 3.81 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 15 | 3.81 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 15 | 3.81 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 15 | 3.81 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 15 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 15 | 3.81 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 15 | 3.81 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 15 | 3.81 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 15 | 3.81 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 9 | 3.81 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 9 | 3.81 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 9 | 3.81 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 4 | 3.81 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 4 | 3.81 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 4 | 3.81 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 4 | 3.81 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 4 | 3.81 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 4 | 3.81 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 4 | 3.81 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 4 | 3.81 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 4 | 3.81 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 7 | 3.81 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 7 | 3.81 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 7 | 3.81 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 17 | 3.81 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 17 | 3.81 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 17 | 3.81 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 4 | 3.81 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 4 | 3.81 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 4 | 3.81 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 1 | 3.81 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 1 | 3.81 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 1 | 3.81 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 10 | 3.81 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 10 | 3.81 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 10 | 3.81 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 14 | 3.81 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 14 | 3.81 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 14 | 3.81 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 8 | 3.81 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 8 | 3.81 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 8 | 3.81 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 8 | 3.81 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 8 | 3.81 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 8 | 3.81 |
| (1,6121) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 3.81 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 18 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 18 | 3.81 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 18 | 3.81 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 4 | 3.81 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 9 | 3.81 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 9 | 3.81 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 9 | 3.81 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 1 | 3.81 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 17 | 3.81 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 12 | 3.81 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 14 | 3.81 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 14 | 3.81 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 14 | 3.81 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 6 | 3.81 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 6 | 3.81 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 6 | 3.81 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 6 | 3.81 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 6 | 3.81 |
| (1,5884) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 6 | 3.81 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 4 | 3.81 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 4 | 3.81 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 4 | 3.81 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 5 | 3.81 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 5 | 3.81 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 19 | 3.81 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 6 | 3.81 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 6 | 3.81 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 6 | 3.81 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 19 | 3.81 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 14 | 3.81 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 16 | 3.81 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 4 | 3.81 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 9 | 3.81 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 8 | 3.81 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 8 | 3.81 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 8 | 3.81 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 4 | 3.81 |
| (1,5540) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 11 | 3.81 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 5 | 3.81 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 5 | 3.81 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 5 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 1 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 1 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 1 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 4 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 4 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 4 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 5 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 5 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 5 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 14 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 14 | 3.81 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 14 | 3.81 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 15 | 3.81 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 15 | 3.81 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 15 | 3.81 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 15 | 3.81 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 15 | 3.81 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 15 | 3.81 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 15 | 3.81 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 15 | 3.81 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 15 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 14 | 3.81 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 14 | 3.81 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 19 | 3.81 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 19 | 3.81 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 19 | 3.81 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 19 | 3.81 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 19 | 3.81 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 19 | 3.81 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 19 | 3.81 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 19 | 3.81 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 19 | 3.81 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 9 | 3.81 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 9 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 9 | 3.81 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 3 | 3.81 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 3 | 3.81 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 3 | 3.81 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 6 | 3.81 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 17 | 3.81 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 17 | 3.81 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 17 | 3.81 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 13 | 3.81 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 20 | 3.81 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 10 | 3.81 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 4 | 3.81 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 11 | 3.81 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 2 | 3.81 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 2 | 3.81 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 2 | 3.81 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 10 | 3.81 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 17 | 3.81 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 17 | 3.81 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 17 | 3.81 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 10 | 3.81 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 10 | 3.81 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 10 | 3.81 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 18 | 3.81 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 18 | 3.81 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 18 | 3.81 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 14 | 3.81 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 14 | 3.81 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 14 | 3.81 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 6 | 3.81 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 12 | 3.81 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 15 | 3.81 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 5 | 3.81 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 4 | 3.81 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 11 | 3.81 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 11 | 3.81 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 11 | 3.81 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 19 | 3.81 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 11 | 3.81 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 11 | 3.81 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 11 | 3.81 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 11 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 11 | 3.81 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 11 | 3.81 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 16 | 3.81 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 20 | 3.81 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 11 | 3.81 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 19 | 3.81 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 17 | 3.81 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 19 | 3.81 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 19 | 3.81 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 19 | 3.81 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 19 | 3.81 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 19 | 3.81 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 19 | 3.81 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 12 | 3.81 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 3 | 3.81 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 3 | 3.81 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 3 | 3.81 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 14 | 3.81 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 14 | 3.81 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 14 | 3.81 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 18 | 3.81 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 18 | 3.81 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 18 | 3.81 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 18 | 3.81 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 19 | 3.81 |
| (1,4444) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 19 | 3.81 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 15 | 3.81 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 15 | 3.81 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 3 | 3.81 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 3 | 3.81 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 3 | 3.81 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 3 | 3.81 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 12 | 3.81 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 3 | 3.81 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 3 | 3.81 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 12 | 3.81 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 12 | 3.81 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 15 | 3.81 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 15 | 3.81 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 4 | 3.81 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 4 | 3.81 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 6 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 17 | 3.81 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 17 | 3.81 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 17 | 3.81 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 17 | 3.81 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 3.81 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 3.81 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 17 | 3.81 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 11 | 3.81 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 11 | 3.81 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 11 | 3.81 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 5 | 3.81 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 5 | 3.81 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 5 | 3.81 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 5 | 3.81 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 5 | 3.81 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 5 | 3.81 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 1 | 3.81 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 1 | 3.81 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 6 | 3.81 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 6 | 3.81 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 6 | 3.81 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 6 | 3.81 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 12 | 3.81 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 12 | 3.81 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 12 | 3.81 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 12 | 3.81 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 4 | 3.81 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 4 | 3.81 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 5 | 3.81 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 12 | 3.81 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 17 | 3.81 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 20 | 3.81 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 20 | 3.81 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 1 | 3.81 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 1 | 3.81 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 13 | 3.81 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 13 | 3.81 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 13 | 3.81 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 18 | 3.81 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 18 | 3.81 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 18 | 3.81 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 18 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 18 | 3.81 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 18 | 3.81 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 14 | 3.81 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 5 | 3.81 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 5 | 3.81 |
| (1,3762) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 5 | 3.81 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 15 | 3.81 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 15 | 3.81 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 15 | 3.81 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 15 | 3.81 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 15 | 3.81 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 15 | 3.81 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 3 | 3.81 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 3 | 3.81 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 3.81 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 3.81 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 3.81 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 3.81 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 3.81 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 3.81 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 4 | 3.81 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 4 | 3.81 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 5 | 3.81 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 5 | 3.81 |
| (1,3636) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 1 | 3.81 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 16 | 3.81 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 16 | 3.81 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 7 | 3.81 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 3 | 3.81 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 14 | 3.81 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 14 | 3.81 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 18 | 3.81 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 3.81 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 18 | 3.81 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 18 | 3.81 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 3.81 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 18 | 3.81 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 6 | 3.81 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 6 | 3.81 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 1 | 3.81 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 1 | 3.81 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 1 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 1 | 3.81 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 2 | 3.81 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 2 | 3.81 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 2 | 3.81 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 2 | 3.81 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 2 | 3.81 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 2 | 3.81 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 9 | 3.81 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 9 | 3.81 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 9 | 3.81 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 9 | 3.81 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 9 | 3.81 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 9 | 3.81 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 15 | 3.81 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 15 | 3.81 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 10 | 3.81 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 15 | 3.81 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 15 | 3.81 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 4 | 3.81 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 4 | 3.81 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 4 | 3.81 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 18 | 3.81 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 18 | 3.81 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 18 | 3.81 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 19 | 3.81 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 4 | 3.81 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 4 | 3.81 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 19 | 3.81 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 19 | 3.81 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 11 | 3.81 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 7 | 3.81 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 17 | 3.81 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 4 | 3.81 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 3 | 3.81 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 14 | 3.81 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 14 | 3.81 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 3.81 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 19 | 3.81 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 5 | 3.81 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 20 | 3.81 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 20 | 3.81 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 20 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 1 | 3.81 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 1 | 3.81 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 1 | 3.81 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 16 | 3.81 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 16 | 3.81 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 16 | 3.81 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 16 | 3.81 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 16 | 3.81 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 16 | 3.81 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 19 | 3.81 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 19 | 3.81 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 19 | 3.81 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 17 | 3.81 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 19 | 3.81 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 19 | 3.81 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 3 | 3.81 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 11 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 10 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 10 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 10 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 14 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 14 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 14 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 16 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 16 | 3.81 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 16 | 3.81 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 3 | 3.81 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 12 | 3.81 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 13 | 3.81 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 8 | 3.81 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 6 | 3.81 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 14 | 3.81 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 12 | 3.81 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 1 | 3.81 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 8 | 3.81 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 2 | 3.81 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 9 | 3.81 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 9 | 3.81 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 9 | 3.81 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 14 | 3.81 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 15 | 3.81 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 15 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 15 | 3.81 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 15 | 3.81 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 15 | 3.81 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 15 | 3.81 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 15 | 3.81 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 15 | 3.81 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 15 | 3.81 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 19 | 3.81 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 4 | 3.81 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 4 | 3.81 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 4 | 3.81 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 20 | 3.81 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 9 | 3.81 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 9 | 3.81 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 9 | 3.81 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 17 | 3.81 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 17 | 3.81 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 17 | 3.81 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 18 | 3.81 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 18 | 3.81 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 18 | 3.81 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 4 | 3.81 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 4 | 3.81 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 4 | 3.81 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 4 | 3.81 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 4 | 3.81 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 4 | 3.81 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 4 | 3.81 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 4 | 3.81 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 4 | 3.81 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 3 | 3.81 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 3 | 3.81 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 3 | 3.81 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 3 | 3.81 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 3 | 3.81 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 3 | 3.81 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 7 | 3.81 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 7 | 3.81 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 7 | 3.81 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 17 | 3.81 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 17 | 3.81 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 17 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 4 | 3.81 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 4 | 3.81 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 4 | 3.81 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 2 | 3.81 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 2 | 3.81 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 2 | 3.81 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 1 | 3.81 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 1 | 3.81 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 1 | 3.81 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 10 | 3.81 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 10 | 3.81 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 10 | 3.81 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 14 | 3.81 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 14 | 3.81 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 14 | 3.81 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 8 | 3.81 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 8 | 3.81 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 8 | 3.81 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 8 | 3.81 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 8 | 3.81 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 8 | 3.81 |
| (1,1706) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 3.81 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 15 | 3.81 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 15 | 3.81 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 15 | 3.81 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 18 | 3.81 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 18 | 3.81 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 18 | 3.81 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 4 | 3.81 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 9 | 3.81 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 9 | 3.81 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 9 | 3.81 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 14 | 3.81 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 1 | 3.81 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 9 | 3.81 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 9 | 3.81 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 9 | 3.81 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 17 | 3.81 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 2 | 3.81 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 2 | 3.81 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 2 | 3.81 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 12 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 14 | 3.81 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 14 | 3.81 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 14 | 3.81 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 6 | 3.81 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 6 | 3.81 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 6 | 3.81 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 1 | 3.81 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 1 | 3.81 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 1 | 3.81 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 1 | 3.81 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 1 | 3.81 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 1 | 3.81 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 6 | 3.81 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 6 | 3.81 |
| (1,1298) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 6 | 3.81 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 4 | 3.81 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 4 | 3.81 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 4 | 3.81 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 5 | 3.81 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 5 | 3.81 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 19 | 3.81 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 19 | 3.81 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 6 | 3.81 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 6 | 3.81 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 6 | 3.81 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 15 | 3.81 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 19 | 3.81 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 14 | 3.81 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 2 | 3.81 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 3 | 3.81 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 5 | 3.81 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 16 | 3.81 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 4 | 3.81 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 9 | 3.81 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 9 | 3.81 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 9 | 3.81 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 9 | 3.81 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 9 | 3.81 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 9 | 3.81 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 9 | 3.81 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 8 | 3.81 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 8 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 8 | 3.81 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 4 | 3.81 |
| (1,700) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 11 | 3.81 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 5 | 3.81 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 5 | 3.81 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 5 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 1 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 1 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 1 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 4 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 4 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 4 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 5 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 5 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 5 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 14 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 14 | 3.81 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 14 | 3.81 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 17 | 3.81 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 16 | 3.81 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 15 | 3.81 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 15 | 3.81 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 15 | 3.81 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 15 | 3.81 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 15 | 3.81 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 15 | 3.81 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 15 | 3.81 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 15 | 3.81 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 15 | 3.81 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 8 | 3.81 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 8 | 3.81 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 8 | 3.81 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 4 | 3.81 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 4 | 3.81 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 13 | 3.81 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 16 | 3.81 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 16 | 3.81 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 2 | 3.81 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 2 | 3.81 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 2 | 3.81 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 10 | 3.81 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 10 | 3.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 10 | 3.81 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 4 | 3.81 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 4 | 3.81 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 4 | 3.81 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 1 | 3.81 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 18 | 3.8 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 11 | 3.8 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 2 | 3.8 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 2 | 3.8 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 12 | 3.8 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 4 | 3.8 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 9 | 3.8 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 20 | 3.8 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 14 | 3.8 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 17 | 3.8 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 3 | 3.8 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 3 | 3.8 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 1 | 3.8 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 1 | 3.8 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 5 | 3.8 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 5 | 3.8 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 5 | 3.8 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 5 | 3.8 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 5 | 3.8 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 5 | 3.8 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 13 | 3.8 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 13 | 3.8 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 14 | 3.8 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 14 | 3.8 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 19 | 3.8 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 19 | 3.8 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 19 | 3.8 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 19 | 3.8 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 19 | 3.8 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 19 | 3.8 |
| (1,9507) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 4 | 3.8 |
| (1,9507) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 4 | 3.8 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 3 | 3.8 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 3 | 3.8 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 3 | 3.8 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 3 | 3.8 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 3 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 3 | 3.8 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 3 | 3.8 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 3 | 3.8 |
| (1,9440) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 9 | 3.8 |
| (1,9440) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 9 | 3.8 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 5 | 3.8 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 5 | 3.8 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 7 | 3.8 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 7 | 3.8 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 4 | 3.8 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 4 | 3.8 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 2 | 3.8 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 2 | 3.8 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 2 | 3.8 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 2 | 3.8 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 6 | 3.8 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 6 | 3.8 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 6 | 3.8 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 6 | 3.8 |
| (1,9386) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 16 | 3.8 |
| (1,9386) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 16 | 3.8 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 7 | 3.8 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 7 | 3.8 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 7 | 3.8 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 7 | 3.8 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 3.8 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 3.8 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 20 | 3.8 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 20 | 3.8 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 4 | 3.8 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 4 | 3.8 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 2 | 3.8 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 2 | 3.8 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 13 | 3.8 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 13 | 3.8 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 5 | 3.8 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 5 | 3.8 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 5 | 3.8 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 5 | 3.8 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 5 | 3.8 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 5 | 3.8 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 20 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 20 | 3.8 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 10 | 3.8 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 10 | 3.8 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 10 | 3.8 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 10 | 3.8 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 10 | 3.8 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 10 | 3.8 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 13 | 3.8 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 13 | 3.8 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 6 | 3.8 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 6 | 3.8 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 20 | 3.8 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 20 | 3.8 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 1 | 3.8 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 1 | 3.8 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 1 | 3.8 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 1 | 3.8 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 1 | 3.8 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 1 | 3.8 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 18 | 3.8 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 18 | 3.8 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 3 | 3.8 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 3 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 5 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 5 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 5 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 5 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 11 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 11 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 11 | 3.8 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 11 | 3.8 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 3.8 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 3.8 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 3.8 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 3.8 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 3.8 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 3.8 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 18 | 3.8 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 18 | 3.8 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 2 | 3.8 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 2 | 3.8 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 2 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 2 | 3.8 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 2 | 3.8 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 2 | 3.8 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 2 | 3.8 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 2 | 3.8 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 2 | 3.8 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 2 | 3.8 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 4 | 3.8 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 4 | 3.8 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 4 | 3.8 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 4 | 3.8 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 4 | 3.8 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 4 | 3.8 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 1 | 3.8 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 1 | 3.8 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 7 | 3.8 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 7 | 3.8 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 12 | 3.8 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 12 | 3.8 |
| (1,8737) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 12 | 3.8 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 12 | 3.8 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 12 | 3.8 |
| (1,8737) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 12 | 3.8 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 1 | 3.8 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 1 | 3.8 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 1 | 3.8 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 1 | 3.8 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 15 | 3.8 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 15 | 3.8 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 15 | 3.8 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 15 | 3.8 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 1 | 3.8 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 1 | 3.8 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 13 | 3.8 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 13 | 3.8 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 13 | 3.8 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 13 | 3.8 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 6 | 3.8 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 4 | 3.8 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 4 | 3.8 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 4 | 3.8 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 15 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 15 | 3.8 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 15 | 3.8 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 9 | 3.8 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 9 | 3.8 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 9 | 3.8 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 9 | 3.8 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 9 | 3.8 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 9 | 3.8 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 9 | 3.8 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 9 | 3.8 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 9 | 3.8 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 20 | 3.8 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 17 | 3.8 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 3 | 3.8 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 11 | 3.8 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 19 | 3.8 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 20 | 3.8 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 19 | 3.8 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 12 | 3.8 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 12 | 3.8 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 12 | 3.8 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 10 | 3.8 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 10 | 3.8 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 16 | 3.8 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 16 | 3.8 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 17 | 3.8 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 4 | 3.8 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 10 | 3.8 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 10 | 3.8 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 10 | 3.8 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 10 | 3.8 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 10 | 3.8 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 10 | 3.8 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 10 | 3.8 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 10 | 3.8 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 10 | 3.8 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 5 | 3.8 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 5 | 3.8 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 5 | 3.8 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 5 | 3.8 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 5 | 3.8 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 5 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 5 | 3.8 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 5 | 3.8 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 5 | 3.8 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 3 | 3.8 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 6 | 3.8 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 9 | 3.8 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 3 | 3.8 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 3 | 3.8 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 3 | 3.8 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 5 | 3.8 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 5 | 3.8 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 5 | 3.8 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 11 | 3.8 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 11 | 3.8 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 11 | 3.8 |
| (1,7930) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 7 | 3.8 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 1 | 3.8 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 1 | 3.8 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 1 | 3.8 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 3 | 3.8 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 3 | 3.8 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 3 | 3.8 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 4 | 3.8 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 4 | 3.8 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 4 | 3.8 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 2 | 3.8 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 15 | 3.8 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 15 | 3.8 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 15 | 3.8 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 15 | 3.8 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 18 | 3.8 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 14 | 3.8 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 14 | 3.8 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 14 | 3.8 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 14 | 3.8 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 14 | 3.8 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 14 | 3.8 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 14 | 3.8 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 14 | 3.8 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 14 | 3.8 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 5 | 3.8 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 13 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 4 | 3.8 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 12 | 3.8 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 17 | 3.8 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 17 | 3.8 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 8 | 3.8 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 4 | 3.8 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 4 | 3.8 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 14 | 3.8 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 1 | 3.8 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 6 | 3.8 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 6 | 3.8 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 6 | 3.8 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 19 | 3.8 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 16 | 3.8 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 16 | 3.8 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 16 | 3.8 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 19 | 3.8 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 19 | 3.8 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 18 | 3.8 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 19 | 3.8 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 2 | 3.8 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 2 | 3.8 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 14 | 3.8 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 7 | 3.8 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 4 | 3.8 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 4 | 3.8 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 4 | 3.8 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 7 | 3.8 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 7 | 3.8 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 7 | 3.8 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 10 | 3.8 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 10 | 3.8 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 10 | 3.8 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 11 | 3.8 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 11 | 3.8 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 16 | 3.8 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 7 | 3.8 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 7 | 3.8 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 7 | 3.8 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 12 | 3.8 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 12 | 3.8 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 12 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 20 | 3.8 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 20 | 3.8 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 20 | 3.8 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 19 | 3.8 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 18 | 3.8 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 18 | 3.8 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 18 | 3.8 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 17 | 3.8 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 16 | 3.8 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 16 | 3.8 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 16 | 3.8 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 16 | 3.8 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 5 | 3.8 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 5 | 3.8 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 17 | 3.8 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 2 | 3.8 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 2 | 3.8 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 2 | 3.8 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 8 | 3.8 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 8 | 3.8 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 8 | 3.8 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 13 | 3.8 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 13 | 3.8 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 13 | 3.8 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 12 | 3.8 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 9 | 3.8 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 9 | 3.8 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 9 | 3.8 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 13 | 3.8 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 13 | 3.8 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 13 | 3.8 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 1 | 3.8 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 1 | 3.8 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 1 | 3.8 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 4 | 3.8 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 4 | 3.8 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 4 | 3.8 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 16 | 3.8 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 8 | 3.8 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 8 | 3.8 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 8 | 3.8 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 6 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 6 | 3.8 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 6 | 3.8 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 17 | 3.8 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 17 | 3.8 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 17 | 3.8 |
| (1,6269) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 17 | 3.8 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 17 | 3.8 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 17 | 3.8 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 17 | 3.8 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 3 | 3.8 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 3 | 3.8 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 3 | 3.8 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 9 | 3.8 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 9 | 3.8 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 9 | 3.8 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 10 | 3.8 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 10 | 3.8 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 10 | 3.8 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 5 | 3.8 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 4 | 3.8 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 4 | 3.8 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 4 | 3.8 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 16 | 3.8 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 19 | 3.8 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 19 | 3.8 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 19 | 3.8 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 8 | 3.8 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 8 | 3.8 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 8 | 3.8 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 12 | 3.8 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 12 | 3.8 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 12 | 3.8 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 14 | 3.8 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 17 | 3.8 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 17 | 3.8 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 17 | 3.8 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 17 | 3.8 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 17 | 3.8 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 17 | 3.8 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 8 | 3.8 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 8 | 3.8 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 16 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 18 | 3.8 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 18 | 3.8 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 18 | 3.8 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 20 | 3.8 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 20 | 3.8 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 20 | 3.8 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 9 | 3.8 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 9 | 3.8 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 9 | 3.8 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 9 | 3.8 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 9 | 3.8 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 9 | 3.8 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 4 | 3.8 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 4 | 3.8 |
| (1,5816) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 4 | 3.8 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 4 | 3.8 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 4 | 3.8 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 17 | 3.8 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 13 | 3.8 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 13 | 3.8 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 13 | 3.8 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 3 | 3.8 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 6 | 3.8 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 9 | 3.8 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 15 | 3.8 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 6 | 3.8 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 4 | 3.8 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 4 | 3.8 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 4 | 3.8 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 12 | 3.8 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 12 | 3.8 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 12 | 3.8 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 1 | 3.8 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 16 | 3.8 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 7 | 3.8 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 18 | 3.8 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 18 | 3.8 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 19 | 3.8 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 2 | 3.8 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 20 | 3.8 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 5 | 3.8 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 18 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 7 | 3.8 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 7 | 3.8 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 7 | 3.8 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 8 | 3.8 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 8 | 3.8 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 8 | 3.8 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 3.8 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 3.8 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 3.8 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 17 | 3.8 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 17 | 3.8 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 17 | 3.8 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 19 | 3.8 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 19 | 3.8 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 19 | 3.8 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 7 | 3.8 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 7 | 3.8 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 7 | 3.8 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 7 | 3.8 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 7 | 3.8 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 7 | 3.8 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 2 | 3.8 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 2 | 3.8 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 2 | 3.8 |
| (1,5421) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 11 | 3.8 |
| (1,5421) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 11 | 3.8 |
| (1,5421) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 11 | 3.8 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 20 | 3.8 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 20 | 3.8 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 20 | 3.8 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 9 | 3.8 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 9 | 3.8 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 9 | 3.8 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 11 | 3.8 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 11 | 3.8 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 11 | 3.8 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 10 | 3.8 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 18 | 3.8 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 18 | 3.8 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 18 | 3.8 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 20 | 3.8 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 20 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 20 | 3.8 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 11 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 3 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 3 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 3 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 13 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 13 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 13 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 19 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 19 | 3.8 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 19 | 3.8 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 1 | 3.8 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 1 | 3.8 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 1 | 3.8 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 12 | 3.8 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 5 | 3.8 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 5 | 3.8 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 5 | 3.8 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 12 | 3.8 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 3 | 3.8 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 3 | 3.8 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 3 | 3.8 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 11 | 3.8 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 11 | 3.8 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 11 | 3.8 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 5 | 3.8 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 5 | 3.8 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 1 | 3.8 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 1 | 3.8 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 1 | 3.8 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 13 | 3.8 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 13 | 3.8 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 13 | 3.8 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 4 | 3.8 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 4 | 3.8 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 4 | 3.8 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 12 | 3.8 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 12 | 3.8 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 12 | 3.8 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 14 | 3.8 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 14 | 3.8 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 14 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 15 | 3.8 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 13 | 3.8 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 14 | 3.8 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 14 | 3.8 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 11 | 3.8 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 2 | 3.8 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 2 | 3.8 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 2 | 3.8 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.8 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 19 | 3.8 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 19 | 3.8 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 19 | 3.8 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 5 | 3.8 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 5 | 3.8 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 5 | 3.8 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 5 | 3.8 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 5 | 3.8 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 5 | 3.8 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 13 | 3.8 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 13 | 3.8 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 12 | 3.8 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 12 | 3.8 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 12 | 3.8 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 19 | 3.8 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 19 | 3.8 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 19 | 3.8 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 19 | 3.8 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 19 | 3.8 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 19 | 3.8 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 2 | 3.8 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 2 | 3.8 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 2 | 3.8 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 2 | 3.8 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 2 | 3.8 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 2 | 3.8 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 4 | 3.8 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 4 | 3.8 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 4 | 3.8 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 4 | 3.8 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 4 | 3.8 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 4 | 3.8 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 7 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 7 | 3.8 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 7 | 3.8 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 7 | 3.8 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 7 | 3.8 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 7 | 3.8 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 4 | 3.8 |
| (1,4460) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 4 | 3.8 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 3 | 3.8 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 3 | 3.8 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 3 | 3.8 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 3 | 3.8 |
| (1,4424) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 9 | 3.8 |
| (1,4424) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 9 | 3.8 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 5 | 3.8 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 5 | 3.8 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 16 | 3.8 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 7 | 3.8 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 7 | 3.8 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 12 | 3.8 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 7 | 3.8 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 7 | 3.8 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 7 | 3.8 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 7 | 3.8 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 3.8 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 3.8 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 20 | 3.8 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 20 | 3.8 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 4 | 3.8 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 4 | 3.8 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 2 | 3.8 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 2 | 3.8 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 3 | 3.8 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 3 | 3.8 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 3 | 3.8 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 3 | 3.8 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 3 | 3.8 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 3 | 3.8 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 3 | 3.8 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 3 | 3.8 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 3 | 3.8 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 15 | 3.8 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 15 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 15 | 3.8 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 5 | 3.8 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 5 | 3.8 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 5 | 3.8 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 5 | 3.8 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 5 | 3.8 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 5 | 3.8 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 19 | 3.8 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 19 | 3.8 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 19 | 3.8 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 19 | 3.8 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 19 | 3.8 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 19 | 3.8 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 9 | 3.8 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 9 | 3.8 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 9 | 3.8 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 10 | 3.8 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 10 | 3.8 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 10 | 3.8 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 10 | 3.8 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 10 | 3.8 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 10 | 3.8 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 6 | 3.8 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 6 | 3.8 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 12 | 3.8 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 12 | 3.8 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 3 | 3.8 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 3 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 5 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 5 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 5 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 5 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 11 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 11 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 11 | 3.8 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 11 | 3.8 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 3.8 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 3.8 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 3.8 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 3.8 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 3.8 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 18 | 3.8 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 18 | 3.8 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 7 | 3.8 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 3 | 3.8 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 3 | 3.8 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 2 | 3.8 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 2 | 3.8 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 2 | 3.8 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 2 | 3.8 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 1 | 3.8 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 1 | 3.8 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 1 | 3.8 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 1 | 3.8 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 1 | 3.8 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 1 | 3.8 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 6 | 3.8 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 6 | 3.8 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 4 | 3.8 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 4 | 3.8 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 4 | 3.8 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 4 | 3.8 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 4 | 3.8 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 4 | 3.8 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 1 | 3.8 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 1 | 3.8 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 8 | 3.8 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 9 | 3.8 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 9 | 3.8 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 14 | 3.8 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 12 | 3.8 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 12 | 3.8 |
| (1,3700) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 12 | 3.8 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 12 | 3.8 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 12 | 3.8 |
| (1,3700) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 12 | 3.8 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 3.8 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 4 | 3.8 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 4 | 3.8 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 3 | 3.8 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 3 | 3.8 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 14 | 3.8 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 4 | 3.8 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 4 | 3.8 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 4 | 3.8 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 18 | 3.8 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 19 | 3.8 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 13 | 3.8 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 13 | 3.8 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 13 | 3.8 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 2 | 3.8 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 2 | 3.8 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 14 | 3.8 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 7 | 3.8 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 4 | 3.8 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 4 | 3.8 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 4 | 3.8 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 7 | 3.8 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 7 | 3.8 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 7 | 3.8 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 9 | 3.8 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 10 | 3.8 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 10 | 3.8 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 10 | 3.8 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 6 | 3.8 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 11 | 3.8 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 7 | 3.8 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 7 | 3.8 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 7 | 3.8 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 12 | 3.8 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 12 | 3.8 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 12 | 3.8 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 20 | 3.8 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 20 | 3.8 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 20 | 3.8 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 19 | 3.8 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 18 | 3.8 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 18 | 3.8 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 18 | 3.8 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 17 | 3.8 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 2 | 3.8 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 2 | 3.8 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 5 | 3.8 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 5 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 17 | 3.8 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 2 | 3.8 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 2 | 3.8 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 2 | 3.8 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 8 | 3.8 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 8 | 3.8 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 8 | 3.8 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 13 | 3.8 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 13 | 3.8 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 13 | 3.8 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 12 | 3.8 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 17 | 3.8 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 9 | 3.8 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 9 | 3.8 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 9 | 3.8 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 14 | 3.8 |
| (1,2336) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 5 | 3.8 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 12 | 3.8 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 6 | 3.8 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 13 | 3.8 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 13 | 3.8 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 13 | 3.8 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 1 | 3.8 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 1 | 3.8 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 1 | 3.8 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 4 | 3.8 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 4 | 3.8 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 4 | 3.8 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 16 | 3.8 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 8 | 3.8 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 8 | 3.8 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 8 | 3.8 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 6 | 3.8 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 6 | 3.8 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 6 | 3.8 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 17 | 3.8 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 17 | 3.8 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 17 | 3.8 |
| (1,1932) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 17 | 3.8 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 20 | 3.8 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 20 | 3.8 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 20 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 20 | 3.8 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 20 | 3.8 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 20 | 3.8 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 20 | 3.8 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 20 | 3.8 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 20 | 3.8 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 17 | 3.8 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 17 | 3.8 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 17 | 3.8 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 3 | 3.8 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 3 | 3.8 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 3 | 3.8 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 9 | 3.8 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 9 | 3.8 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 9 | 3.8 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 10 | 3.8 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 10 | 3.8 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 10 | 3.8 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 5 | 3.8 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 7 | 3.8 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 7 | 3.8 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 7 | 3.8 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 10 | 3.8 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 10 | 3.8 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 10 | 3.8 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 4 | 3.8 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 4 | 3.8 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 4 | 3.8 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 16 | 3.8 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 19 | 3.8 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 19 | 3.8 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 19 | 3.8 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 8 | 3.8 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 8 | 3.8 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 8 | 3.8 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 12 | 3.8 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 12 | 3.8 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 12 | 3.8 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 14 | 3.8 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 17 | 3.8 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 17 | 3.8 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 17 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 17 | 3.8 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 17 | 3.8 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 17 | 3.8 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 8 | 3.8 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 8 | 3.8 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 16 | 3.8 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 13 | 3.8 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 18 | 3.8 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 18 | 3.8 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 18 | 3.8 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 20 | 3.8 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 20 | 3.8 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 20 | 3.8 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 9 | 3.8 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 9 | 3.8 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 9 | 3.8 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 9 | 3.8 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 9 | 3.8 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 9 | 3.8 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 3 | 3.8 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 4 | 3.8 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 4 | 3.8 |
| (1,1180) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 4 | 3.8 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 4 | 3.8 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 4 | 3.8 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 17 | 3.8 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 13 | 3.8 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 13 | 3.8 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 13 | 3.8 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 17 | 3.8 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 17 | 3.8 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 3 | 3.8 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 6 | 3.8 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 9 | 3.8 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 15 | 3.8 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 13 | 3.8 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 6 | 3.8 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 4 | 3.8 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 4 | 3.8 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 4 | 3.8 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 12 | 3.8 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 12 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 12 | 3.8 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 18 | 3.8 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 1 | 3.8 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 16 | 3.8 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 7 | 3.8 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 18 | 3.8 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 5 | 3.8 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 5 | 3.8 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 18 | 3.8 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 19 | 3.8 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 2 | 3.8 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 20 | 3.8 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 5 | 3.8 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 15 | 3.8 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 16 | 3.8 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 18 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 7 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 7 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 7 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 8 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 8 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 8 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 3.8 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 3.8 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 17 | 3.8 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 17 | 3.8 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 17 | 3.8 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 19 | 3.8 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 19 | 3.8 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 19 | 3.8 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 16 | 3.8 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 16 | 3.8 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 16 | 3.8 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 13 | 3.8 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 13 | 3.8 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 13 | 3.8 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 7 | 3.8 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 7 | 3.8 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 7 | 3.8 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 7 | 3.8 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 7 | 3.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 7 | 3.8 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 18 | 3.8 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 19 | 3.8 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 19 | 3.8 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 19 | 3.8 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 6 | 3.8 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 6 | 3.8 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 6 | 3.8 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 2 | 3.79 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 8 | 3.79 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 8 | 3.79 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 11 | 3.79 |
| (3,206) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 18 | 3.79 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 16 | 3.79 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 16 | 3.79 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 3 | 3.79 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 3 | 3.79 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 9 | 3.79 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 9 | 3.79 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 10 | 3.79 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 10 | 3.79 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 11 | 3.79 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 11 | 3.79 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 5 | 3.79 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 5 | 3.79 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 6 | 3.79 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 6 | 3.79 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 15 | 3.79 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 15 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 6 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 6 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 6 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 6 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 6 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 6 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 10 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 10 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 10 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 10 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 10 | 3.79 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 10 | 3.79 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 10 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 10 | 3.79 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 1 | 3.79 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 1 | 3.79 |
| (1,9262) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 3.79 |
| (1,9262) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 3.79 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 3 | 3.79 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 3 | 3.79 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 7 | 3.79 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 7 | 3.79 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 7 | 3.79 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 7 | 3.79 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 7 | 3.79 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 7 | 3.79 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 15 | 3.79 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 15 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 1 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 1 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 1 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 1 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 13 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 13 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 13 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 13 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 3.79 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 3.79 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 10 | 3.79 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 10 | 3.79 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 18 | 3.79 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 18 | 3.79 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 10 | 3.79 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 10 | 3.79 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 1 | 3.79 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 1 | 3.79 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 1 | 3.79 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 1 | 3.79 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 1 | 3.79 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 1 | 3.79 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 11 | 3.79 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 11 | 3.79 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 11 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 11 | 3.79 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 11 | 3.79 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 11 | 3.79 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 2 | 3.79 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 2 | 3.79 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 17 | 3.79 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 17 | 3.79 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 19 | 3.79 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 19 | 3.79 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 8 | 3.79 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 8 | 3.79 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 13 | 3.79 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 13 | 3.79 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 1 | 3.79 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 1 | 3.79 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 3.79 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 3.79 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 4 | 3.79 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 4 | 3.79 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 3 | 3.79 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 3 | 3.79 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 3 | 3.79 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 3 | 3.79 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 3 | 3.79 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 3 | 3.79 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 3 | 3.79 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 3 | 3.79 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 12 | 3.79 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 12 | 3.79 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 16 | 3.79 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 16 | 3.79 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 16 | 3.79 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 9 | 3.79 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 9 | 3.79 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 9 | 3.79 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 19 | 3.79 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 19 | 3.79 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 19 | 3.79 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 10 | 3.79 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 10 | 3.79 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 10 | 3.79 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 10 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 10 | 3.79 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 10 | 3.79 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 10 | 3.79 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 10 | 3.79 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 10 | 3.79 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 11 | 3.79 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 11 | 3.79 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 11 | 3.79 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 5 | 3.79 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 5 | 3.79 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 5 | 3.79 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 5 | 3.79 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 5 | 3.79 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 5 | 3.79 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 4 | 3.79 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 4 | 3.79 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 4 | 3.79 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 7 | 3.79 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 2 | 3.79 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 5 | 3.79 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 10 | 3.79 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 11 | 3.79 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 13 | 3.79 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 13 | 3.79 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG21 | 6 | 3.79 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG22 | 6 | 3.79 |
| (1,7979) | 1:78:A:ILE:HG21 | 1:79:A:THR:HG23 | 6 | 3.79 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG21 | 6 | 3.79 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG22 | 6 | 3.79 |
| (1,7979) | 1:78:A:ILE:HG22 | 1:79:A:THR:HG23 | 6 | 3.79 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG21 | 6 | 3.79 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG22 | 6 | 3.79 |
| (1,7979) | 1:78:A:ILE:HG23 | 1:79:A:THR:HG23 | 6 | 3.79 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 5 | 3.79 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG21 | 20 | 3.79 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG22 | 20 | 3.79 |
| (1,7921) | 1:70:A:PRO:HA | 1:78:A:ILE:HG23 | 20 | 3.79 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 19 | 3.79 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 19 | 3.79 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 5 | 3.79 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 7 | 3.79 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 7 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 7 | 3.79 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 17 | 3.79 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 17 | 3.79 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 17 | 3.79 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 4 | 3.79 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 4 | 3.79 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 4 | 3.79 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 3 | 3.79 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 3 | 3.79 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 3 | 3.79 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 19 | 3.79 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 19 | 3.79 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 19 | 3.79 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD1 | 10 | 3.79 |
| (1,7832) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HD2 | 10 | 3.79 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD1 | 10 | 3.79 |
| (1,7832) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HD2 | 10 | 3.79 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD1 | 10 | 3.79 |
| (1,7832) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HD2 | 10 | 3.79 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 18 | 3.79 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 18 | 3.79 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 18 | 3.79 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 18 | 3.79 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 18 | 3.79 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 18 | 3.79 |
| (1,7680) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD3 | 18 | 3.79 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 17 | 3.79 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 7 | 3.79 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 20 | 3.79 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 11 | 3.79 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 5 | 3.79 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 3 | 3.79 |
| (1,7592) | 1:25:A:PHE:HE1 | 1:26:A:ASN:H | 9 | 3.79 |
| (1,7592) | 1:25:A:PHE:HE2 | 1:26:A:ASN:H | 9 | 3.79 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 15 | 3.79 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE1 | 5 | 3.79 |
| (1,7531) | 1:14:A:ARG:H | 1:24:A:TYR:HE2 | 5 | 3.79 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 7 | 3.79 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 16 | 3.79 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 2 | 3.79 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 2 | 3.79 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 2 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 2 | 3.79 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 2 | 3.79 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 2 | 3.79 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 13 | 3.79 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 13 | 3.79 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 15 | 3.79 |
| (1,7331) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 7 | 3.79 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 5 | 3.79 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 5 | 3.79 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 13 | 3.79 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 12 | 3.79 |
| (1,7177) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 15 | 3.79 |
| (1,7177) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 15 | 3.79 |
| (1,7177) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 15 | 3.79 |
| (1,7170) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 3.79 |
| (1,7170) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 3.79 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 20 | 3.79 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 19 | 3.79 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 14 | 3.79 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 1 | 3.79 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 13 | 3.79 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 13 | 3.79 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 13 | 3.79 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 12 | 3.79 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 12 | 3.79 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 12 | 3.79 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 10 | 3.79 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 10 | 3.79 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 10 | 3.79 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 10 | 3.79 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 10 | 3.79 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 10 | 3.79 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 1 | 3.79 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 1 | 3.79 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 1 | 3.79 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 10 | 3.79 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 10 | 3.79 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 10 | 3.79 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 20 | 3.79 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 18 | 3.79 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 10 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 5 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 5 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 5 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 7 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 7 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 7 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 9 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 9 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 9 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 15 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 15 | 3.79 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 15 | 3.79 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 20 | 3.79 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 20 | 3.79 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 20 | 3.79 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 18 | 3.79 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 5 | 3.79 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 5 | 3.79 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 5 | 3.79 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 12 | 3.79 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 11 | 3.79 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 11 | 3.79 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 11 | 3.79 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 14 | 3.79 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 14 | 3.79 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 14 | 3.79 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 8 | 3.79 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 8 | 3.79 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 8 | 3.79 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 12 | 3.79 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 12 | 3.79 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 12 | 3.79 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 4 | 3.79 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 4 | 3.79 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 4 | 3.79 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 17 | 3.79 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 14 | 3.79 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 6 | 3.79 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 17 | 3.79 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 10 | 3.79 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 10 | 3.79 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 10 | 3.79 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 2 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 2 | 3.79 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 2 | 3.79 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 14 | 3.79 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 14 | 3.79 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 14 | 3.79 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 14 | 3.79 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 14 | 3.79 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 14 | 3.79 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 14 | 3.79 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 14 | 3.79 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 14 | 3.79 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 19 | 3.79 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 19 | 3.79 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 19 | 3.79 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 5 | 3.79 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 5 | 3.79 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 5 | 3.79 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 6 | 3.79 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 18 | 3.79 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 18 | 3.79 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 11 | 3.79 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 11 | 3.79 |
| (1,6058) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 11 | 3.79 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 20 | 3.79 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 20 | 3.79 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 20 | 3.79 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 1 | 3.79 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 7 | 3.79 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 18 | 3.79 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 8 | 3.79 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 8 | 3.79 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 8 | 3.79 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 6 | 3.79 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 11 | 3.79 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 11 | 3.79 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 11 | 3.79 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 11 | 3.79 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 2 | 3.79 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 2 | 3.79 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 2 | 3.79 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 13 | 3.79 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 13 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 13 | 3.79 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 18 | 3.79 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 18 | 3.79 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 18 | 3.79 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 20 | 3.79 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 18 | 3.79 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 1 | 3.79 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 6 | 3.79 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 6 | 3.79 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 6 | 3.79 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 6 | 3.79 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 6 | 3.79 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 6 | 3.79 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 5 | 3.79 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 18 | 3.79 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 5 | 3.79 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 13 | 3.79 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 5 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 2 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 2 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 2 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 11 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 11 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 11 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 12 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 12 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 12 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 17 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 17 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 17 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 18 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 18 | 3.79 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 18 | 3.79 |
| (1,5489) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 10 | 3.79 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 20 | 3.79 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 20 | 3.79 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 20 | 3.79 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 8 | 3.79 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 8 | 3.79 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 8 | 3.79 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 8 | 3.79 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 8 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 8 | 3.79 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 8 | 3.79 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 3 | 3.79 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 2 | 3.79 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 2 | 3.79 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 2 | 3.79 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 10 | 3.79 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 10 | 3.79 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 10 | 3.79 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 16 | 3.79 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 16 | 3.79 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 16 | 3.79 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 13 | 3.79 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 13 | 3.79 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 13 | 3.79 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 11 | 3.79 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 6 | 3.79 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 6 | 3.79 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 6 | 3.79 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 9 | 3.79 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 9 | 3.79 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 9 | 3.79 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 7 | 3.79 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 12 | 3.79 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 14 | 3.79 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 9 | 3.79 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 18 | 3.79 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 18 | 3.79 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 15 | 3.79 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 16 | 3.79 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 16 | 3.79 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 16 | 3.79 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 18 | 3.79 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 11 | 3.79 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 11 | 3.79 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 11 | 3.79 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 3 | 3.79 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 3 | 3.79 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 7 | 3.79 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 6 | 3.79 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 9 | 3.79 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 9 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 11 | 3.79 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 11 | 3.79 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 11 | 3.79 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 11 | 3.79 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 11 | 3.79 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 11 | 3.79 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 6 | 3.79 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 6 | 3.79 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 6 | 3.79 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 5 | 3.79 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 2 | 3.79 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 1 | 3.79 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 1 | 3.79 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 1 | 3.79 |
| (1,4252) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 3.79 |
| (1,4252) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 3.79 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 18 | 3.79 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 17 | 3.79 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 4 | 3.79 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 4 | 3.79 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 7 | 3.79 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 7 | 3.79 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 7 | 3.79 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 7 | 3.79 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 7 | 3.79 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 7 | 3.79 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 5 | 3.79 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 5 | 3.79 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 5 | 3.79 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 19 | 3.79 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 19 | 3.79 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 19 | 3.79 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 7 | 3.79 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 5 | 3.79 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 5 | 3.79 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 5 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 1 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 1 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 1 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 1 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 13 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 13 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 13 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 13 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 3.79 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 3.79 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 1 | 3.79 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 1 | 3.79 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 1 | 3.79 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 1 | 3.79 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 1 | 3.79 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 1 | 3.79 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 9 | 3.79 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 9 | 3.79 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 9 | 3.79 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 9 | 3.79 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 9 | 3.79 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 9 | 3.79 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 19 | 3.79 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 19 | 3.79 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 3 | 3.79 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 3 | 3.79 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 3 | 3.79 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 3 | 3.79 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 3 | 3.79 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 3 | 3.79 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 11 | 3.79 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 11 | 3.79 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 11 | 3.79 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 11 | 3.79 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 11 | 3.79 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 11 | 3.79 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 2 | 3.79 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 2 | 3.79 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 8 | 3.79 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 8 | 3.79 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 13 | 3.79 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 13 | 3.79 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 1 | 3.79 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 1 | 3.79 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 3.79 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 8 | 3.79 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 8 | 3.79 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 8 | 3.79 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 8 | 3.79 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 8 | 3.79 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 8 | 3.79 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 4 | 3.79 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 5 | 3.79 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 5 | 3.79 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 5 | 3.79 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 12 | 3.79 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 12 | 3.79 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 5 | 3.79 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 5 | 3.79 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 5 | 3.79 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 13 | 3.79 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 5 | 3.79 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 5 | 3.79 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 5 | 3.79 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 12 | 3.79 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 5 | 3.79 |
| (1,3300) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 15 | 3.79 |
| (1,3300) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 15 | 3.79 |
| (1,3300) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 15 | 3.79 |
| (1,3286) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 3.79 |
| (1,3286) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 3.79 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 20 | 3.79 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 4 | 3.79 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 4 | 3.79 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 4 | 3.79 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 11 | 3.79 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 11 | 3.79 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 11 | 3.79 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 13 | 3.79 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 16 | 3.79 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 19 | 3.79 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 14 | 3.79 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 1 | 3.79 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 13 | 3.79 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 18 | 3.79 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 18 | 3.79 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 18 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 13 | 3.79 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 13 | 3.79 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 13 | 3.79 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 12 | 3.79 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 12 | 3.79 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 12 | 3.79 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 10 | 3.79 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 10 | 3.79 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 10 | 3.79 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 10 | 3.79 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 10 | 3.79 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 10 | 3.79 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 1 | 3.79 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 1 | 3.79 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 1 | 3.79 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 10 | 3.79 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 10 | 3.79 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 10 | 3.79 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 20 | 3.79 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 18 | 3.79 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 17 | 3.79 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 17 | 3.79 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 10 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 5 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 5 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 5 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 7 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 7 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 7 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 9 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 9 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 9 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 15 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 15 | 3.79 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 15 | 3.79 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 9 | 3.79 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 11 | 3.79 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 15 | 3.79 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 15 | 3.79 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 15 | 3.79 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 20 | 3.79 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 20 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 20 | 3.79 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 18 | 3.79 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 5 | 3.79 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 5 | 3.79 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 5 | 3.79 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 12 | 3.79 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 11 | 3.79 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 11 | 3.79 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 11 | 3.79 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 14 | 3.79 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 14 | 3.79 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 14 | 3.79 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 15 | 3.79 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 15 | 3.79 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 15 | 3.79 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 3.79 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 3.79 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 3.79 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 8 | 3.79 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 8 | 3.79 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 8 | 3.79 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 5 | 3.79 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 6 | 3.79 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 12 | 3.79 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 12 | 3.79 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 12 | 3.79 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 4 | 3.79 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 4 | 3.79 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 4 | 3.79 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 17 | 3.79 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 14 | 3.79 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 6 | 3.79 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 17 | 3.79 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 10 | 3.79 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 10 | 3.79 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 10 | 3.79 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 2 | 3.79 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 2 | 3.79 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 2 | 3.79 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 9 | 3.79 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 9 | 3.79 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 9 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 14 | 3.79 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 14 | 3.79 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 14 | 3.79 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 14 | 3.79 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 14 | 3.79 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 14 | 3.79 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 14 | 3.79 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 14 | 3.79 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 14 | 3.79 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 14 | 3.79 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 14 | 3.79 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 14 | 3.79 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 19 | 3.79 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 19 | 3.79 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 19 | 3.79 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 5 | 3.79 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 5 | 3.79 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 5 | 3.79 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 6 | 3.79 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 18 | 3.79 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 18 | 3.79 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 14 | 3.79 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 11 | 3.79 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 11 | 3.79 |
| (1,1620) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 11 | 3.79 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 20 | 3.79 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 20 | 3.79 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 20 | 3.79 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 1 | 3.79 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 11 | 3.79 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 1 | 3.79 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 1 | 3.79 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 1 | 3.79 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 7 | 3.79 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 4 | 3.79 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 18 | 3.79 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 4 | 3.79 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 4 | 3.79 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 8 | 3.79 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 8 | 3.79 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 8 | 3.79 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 13 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 17 | 3.79 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 6 | 3.79 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 14 | 3.79 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 14 | 3.79 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 14 | 3.79 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 2 | 3.79 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 11 | 3.79 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 11 | 3.79 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 11 | 3.79 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 11 | 3.79 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 16 | 3.79 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 19 | 3.79 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 10 | 3.79 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 2 | 3.79 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 2 | 3.79 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 2 | 3.79 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 13 | 3.79 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 13 | 3.79 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 13 | 3.79 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 18 | 3.79 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 18 | 3.79 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 18 | 3.79 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 20 | 3.79 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 18 | 3.79 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 1 | 3.79 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 6 | 3.79 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 6 | 3.79 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 6 | 3.79 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 6 | 3.79 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 6 | 3.79 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 6 | 3.79 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 6 | 3.79 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 6 | 3.79 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 6 | 3.79 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 6 | 3.79 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 6 | 3.79 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 6 | 3.79 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 16 | 3.79 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 18 | 3.79 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 5 | 3.79 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 18 | 3.79 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 5 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 13 | 3.79 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 19 | 3.79 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 19 | 3.79 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 19 | 3.79 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 5 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 2 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 2 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 2 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 11 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 11 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 11 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 12 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 12 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 12 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 17 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 17 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 17 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 18 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 18 | 3.79 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 18 | 3.79 |
| (1,626) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 10 | 3.79 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 20 | 3.79 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 20 | 3.79 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 20 | 3.79 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 8 | 3.79 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 8 | 3.79 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 8 | 3.79 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 8 | 3.79 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 8 | 3.79 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 8 | 3.79 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 15 | 3.79 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 15 | 3.79 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 15 | 3.79 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 15 | 3.79 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 15 | 3.79 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 15 | 3.79 |
| (1,223) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 5 | 3.79 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 3.79 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 3.79 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 3.79 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 19 | 3.79 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 9 | 3.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 12 | 3.78 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 12 | 3.78 |
| (4,47) | 1:15:A:MET:CB | 1:101:A:GLU:H | 13 | 3.78 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 18 | 3.78 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 18 | 3.78 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 18 | 3.78 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 18 | 3.78 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 18 | 3.78 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 18 | 3.78 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 5 | 3.78 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 5 | 3.78 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 17 | 3.78 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 17 | 3.78 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 17 | 3.78 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 17 | 3.78 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 17 | 3.78 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 17 | 3.78 |
| (1,9513) | 1:138:A:SER:HB2 | 1:139:A:PHE:HA | 8 | 3.78 |
| (1,9513) | 1:138:A:SER:HB3 | 1:139:A:PHE:HA | 8 | 3.78 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 16 | 3.78 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 16 | 3.78 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 14 | 3.78 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 14 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 2 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 2 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 2 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 2 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 2 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 2 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 18 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 18 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 18 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 18 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 18 | 3.78 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 18 | 3.78 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 19 | 3.78 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 19 | 3.78 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 17 | 3.78 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 17 | 3.78 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 17 | 3.78 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 17 | 3.78 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 10 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 10 | 3.78 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 10 | 3.78 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 10 | 3.78 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 10 | 3.78 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 10 | 3.78 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 11 | 3.78 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 11 | 3.78 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 12 | 3.78 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 12 | 3.78 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 12 | 3.78 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 12 | 3.78 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 17 | 3.78 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 17 | 3.78 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 3 | 3.78 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 3 | 3.78 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 1 | 3.78 |
| (1,9181) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 1 | 3.78 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 9 | 3.78 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 9 | 3.78 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 11 | 3.78 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 11 | 3.78 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 1 | 3.78 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 1 | 3.78 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 19 | 3.78 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 19 | 3.78 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 11 | 3.78 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 11 | 3.78 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 11 | 3.78 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 11 | 3.78 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 11 | 3.78 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 11 | 3.78 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 1 | 3.78 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 1 | 3.78 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 10 | 3.78 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 10 | 3.78 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 10 | 3.78 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 10 | 3.78 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 17 | 3.78 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 17 | 3.78 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 17 | 3.78 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 17 | 3.78 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 3 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 3 | 3.78 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 3 | 3.78 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 3 | 3.78 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 19 | 3.78 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 19 | 3.78 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 19 | 3.78 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 19 | 3.78 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 15 | 3.78 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 15 | 3.78 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 4 | 3.78 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 4 | 3.78 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 3.78 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 20 | 3.78 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 19 | 3.78 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 19 | 3.78 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 19 | 3.78 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 19 | 3.78 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 14 | 3.78 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 14 | 3.78 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB2 | 8 | 3.78 |
| (1,8823) | 1:59:A:HIS:HA | 1:60:A:LEU:HB3 | 8 | 3.78 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 3 | 3.78 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 3 | 3.78 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 6 | 3.78 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 6 | 3.78 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 6 | 3.78 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 6 | 3.78 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 4 | 3.78 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 4 | 3.78 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 18 | 3.78 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 18 | 3.78 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 8 | 3.78 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 8 | 3.78 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 8 | 3.78 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 8 | 3.78 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 15 | 3.78 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 15 | 3.78 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 15 | 3.78 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 15 | 3.78 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 15 | 3.78 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 15 | 3.78 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 20 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 20 | 3.78 |
| (1,8573) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 20 | 3.78 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 20 | 3.78 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 20 | 3.78 |
| (1,8573) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 20 | 3.78 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 6 | 3.78 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 6 | 3.78 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 19 | 3.78 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 19 | 3.78 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 9 | 3.78 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 9 | 3.78 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 9 | 3.78 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 10 | 3.78 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 10 | 3.78 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 10 | 3.78 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 14 | 3.78 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 14 | 3.78 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 14 | 3.78 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 16 | 3.78 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 16 | 3.78 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 16 | 3.78 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 16 | 3.78 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 16 | 3.78 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 16 | 3.78 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 16 | 3.78 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 16 | 3.78 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 16 | 3.78 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 5 | 3.78 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 11 | 3.78 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 16 | 3.78 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 16 | 3.78 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 16 | 3.78 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 16 | 3.78 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 16 | 3.78 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 16 | 3.78 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 2 | 3.78 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 2 | 3.78 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 2 | 3.78 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 13 | 3.78 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 13 | 3.78 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 8 | 3.78 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 18 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 18 | 3.78 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 18 | 3.78 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 18 | 3.78 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 18 | 3.78 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 18 | 3.78 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 4 | 3.78 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 12 | 3.78 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 2 | 3.78 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 20 | 3.78 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 20 | 3.78 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 20 | 3.78 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 15 | 3.78 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 5 | 3.78 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 5 | 3.78 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 5 | 3.78 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 5 | 3.78 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 11 | 3.78 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 11 | 3.78 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 11 | 3.78 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 11 | 3.78 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 11 | 3.78 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 11 | 3.78 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 11 | 3.78 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 11 | 3.78 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 11 | 3.78 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 12 | 3.78 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 12 | 3.78 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 12 | 3.78 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 19 | 3.78 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 19 | 3.78 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 19 | 3.78 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 20 | 3.78 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 20 | 3.78 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 20 | 3.78 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 8 | 3.78 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 8 | 3.78 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 8 | 3.78 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 8 | 3.78 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 9 | 3.78 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 9 | 3.78 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 17 | 3.78 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 17 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 17 | 3.78 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 12 | 3.78 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 12 | 3.78 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 12 | 3.78 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 19 | 3.78 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 19 | 3.78 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 19 | 3.78 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 12 | 3.78 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 17 | 3.78 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 17 | 3.78 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 17 | 3.78 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 17 | 3.78 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 17 | 3.78 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 17 | 3.78 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 17 | 3.78 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 17 | 3.78 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 17 | 3.78 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 17 | 3.78 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 17 | 3.78 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 17 | 3.78 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 3 | 3.78 |
| (1,7758) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 3 | 3.78 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 17 | 3.78 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 16 | 3.78 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 16 | 3.78 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 16 | 3.78 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 16 | 3.78 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 2 | 3.78 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 20 | 3.78 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 9 | 3.78 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 17 | 3.78 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 17 | 3.78 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 20 | 3.78 |
| (1,7457) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 13 | 3.78 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB2 | 17 | 3.78 |
| (1,7394) | 1:3:A:ASP:HA | 1:4:A:GLU:HB3 | 17 | 3.78 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 15 | 3.78 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 15 | 3.78 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 15 | 3.78 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 1 | 3.78 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 1 | 3.78 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 1 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 11 | 3.78 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 11 | 3.78 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 11 | 3.78 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 17 | 3.78 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 17 | 3.78 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 17 | 3.78 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 9 | 3.78 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 9 | 3.78 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 15 | 3.78 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 15 | 3.78 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 15 | 3.78 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 2 | 3.78 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 3 | 3.78 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 3 | 3.78 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 3 | 3.78 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 19 | 3.78 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 8 | 3.78 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 8 | 3.78 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 8 | 3.78 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 9 | 3.78 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 9 | 3.78 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 9 | 3.78 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 7 | 3.78 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 8 | 3.78 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 13 | 3.78 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 13 | 3.78 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 13 | 3.78 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 12 | 3.78 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 12 | 3.78 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 12 | 3.78 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 5 | 3.78 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 4 | 3.78 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 3 | 3.78 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 3 | 3.78 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 3 | 3.78 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 9 | 3.78 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 15 | 3.78 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 15 | 3.78 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 15 | 3.78 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 4 | 3.78 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 19 | 3.78 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 12 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 17 | 3.78 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 17 | 3.78 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 17 | 3.78 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 9 | 3.78 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 9 | 3.78 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 9 | 3.78 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 15 | 3.78 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 15 | 3.78 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 15 | 3.78 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 8 | 3.78 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 8 | 3.78 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 8 | 3.78 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 18 | 3.78 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 18 | 3.78 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 18 | 3.78 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 7 | 3.78 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 7 | 3.78 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 7 | 3.78 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 5 | 3.78 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 13 | 3.78 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 17 | 3.78 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 18 | 3.78 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 18 | 3.78 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 18 | 3.78 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 19 | 3.78 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 19 | 3.78 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 19 | 3.78 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 13 | 3.78 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 13 | 3.78 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 14 | 3.78 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 14 | 3.78 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 14 | 3.78 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 7 | 3.78 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 7 | 3.78 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 7 | 3.78 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 5 | 3.78 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 5 | 3.78 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 5 | 3.78 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 5 | 3.78 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 5 | 3.78 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 5 | 3.78 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 5 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 5 | 3.78 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 5 | 3.78 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 8 | 3.78 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 13 | 3.78 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 16 | 3.78 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 16 | 3.78 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 16 | 3.78 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 17 | 3.78 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 17 | 3.78 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 17 | 3.78 |
| (1,5821) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 11 | 3.78 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 4 | 3.78 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 10 | 3.78 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 13 | 3.78 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 1 | 3.78 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 7 | 3.78 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 3.78 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 3.78 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 18 | 3.78 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 7 | 3.78 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 7 | 3.78 |
| (1,5610) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 7 | 3.78 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 4 | 3.78 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 20 | 3.78 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 9 | 3.78 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 9 | 3.78 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 9 | 3.78 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 9 | 3.78 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 9 | 3.78 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 9 | 3.78 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 9 | 3.78 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 9 | 3.78 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 9 | 3.78 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 19 | 3.78 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 19 | 3.78 |
| (1,5515) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 19 | 3.78 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 1 | 3.78 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 1 | 3.78 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 1 | 3.78 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 15 | 3.78 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 15 | 3.78 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 15 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 20 | 3.78 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 8 | 3.78 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 8 | 3.78 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 8 | 3.78 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 6 | 3.78 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 1 | 3.78 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 1 | 3.78 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 1 | 3.78 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 4 | 3.78 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 4 | 3.78 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 4 | 3.78 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 2 | 3.78 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 2 | 3.78 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 2 | 3.78 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 4 | 3.78 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 4 | 3.78 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 4 | 3.78 |
| (1,5218) | 1:83:A:GLU:H | 1:86:A:LEU:H | 20 | 3.78 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 19 | 3.78 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 13 | 3.78 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 13 | 3.78 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 13 | 3.78 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 16 | 3.78 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 16 | 3.78 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 16 | 3.78 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 9 | 3.78 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 1 | 3.78 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 3 | 3.78 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 6 | 3.78 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 1 | 3.78 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 11 | 3.78 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 11 | 3.78 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 11 | 3.78 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 20 | 3.78 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 20 | 3.78 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 20 | 3.78 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 5 | 3.78 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 5 | 3.78 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 5 | 3.78 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 5 | 3.78 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 5 | 3.78 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 5 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 5 | 3.78 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 5 | 3.78 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 5 | 3.78 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 10 | 3.78 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 10 | 3.78 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 10 | 3.78 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 3 | 3.78 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 9 | 3.78 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 9 | 3.78 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 9 | 3.78 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 9 | 3.78 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 4 | 3.78 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 16 | 3.78 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 16 | 3.78 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 16 | 3.78 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 18 | 3.78 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 18 | 3.78 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 18 | 3.78 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 18 | 3.78 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 18 | 3.78 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 18 | 3.78 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 11 | 3.78 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 11 | 3.78 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 11 | 3.78 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 3.78 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 3.78 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 3.78 |
| (1,4529) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 1 | 3.78 |
| (1,4529) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 1 | 3.78 |
| (1,4529) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 1 | 3.78 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 5 | 3.78 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 5 | 3.78 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 17 | 3.78 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 17 | 3.78 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 17 | 3.78 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 17 | 3.78 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 17 | 3.78 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 17 | 3.78 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 5 | 3.78 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 5 | 3.78 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 5 | 3.78 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 5 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 5 | 3.78 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 5 | 3.78 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 1 | 3.78 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 16 | 3.78 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 16 | 3.78 |
| (1,4404) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 14 | 3.78 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 19 | 3.78 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 19 | 3.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 4 | 3.78 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 10 | 3.78 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 3 | 3.78 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 13 | 3.78 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 14 | 3.78 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 14 | 3.78 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 14 | 3.78 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 17 | 3.78 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 17 | 3.78 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 17 | 3.78 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 17 | 3.78 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 13 | 3.78 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 13 | 3.78 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 13 | 3.78 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 13 | 3.78 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 1 | 3.78 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 1 | 3.78 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 1 | 3.78 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 1 | 3.78 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 12 | 3.78 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 12 | 3.78 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 12 | 3.78 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 12 | 3.78 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 15 | 3.78 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 1 | 3.78 |
| (1,4158) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 1 | 3.78 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 3 | 3.78 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 3 | 3.78 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 3 | 3.78 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 3.78 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 3.78 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 3.78 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 9 | 3.78 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 9 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 3 | 3.78 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 3 | 3.78 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 3 | 3.78 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 14 | 3.78 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 14 | 3.78 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 17 | 3.78 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 17 | 3.78 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 8 | 3.78 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 17 | 3.78 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 17 | 3.78 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 3 | 3.78 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 3 | 3.78 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 3 | 3.78 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 3 | 3.78 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 19 | 3.78 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 19 | 3.78 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 19 | 3.78 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 19 | 3.78 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 16 | 3.78 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 4 | 3.78 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 4 | 3.78 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 3.78 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 20 | 3.78 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 19 | 3.78 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 19 | 3.78 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 19 | 3.78 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 19 | 3.78 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 7 | 3.78 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 7 | 3.78 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 7 | 3.78 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 7 | 3.78 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 7 | 3.78 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 7 | 3.78 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 6 | 3.78 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 6 | 3.78 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 6 | 3.78 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 6 | 3.78 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 6 | 3.78 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 6 | 3.78 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 3.78 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 19 | 3.78 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 19 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 17 | 3.78 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 17 | 3.78 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 17 | 3.78 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 17 | 3.78 |
| (1,3651) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 9 | 3.78 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 12 | 3.78 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 2 | 3.78 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 2 | 3.78 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 8 | 3.78 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 8 | 3.78 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 8 | 3.78 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 8 | 3.78 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 15 | 3.78 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 15 | 3.78 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 15 | 3.78 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 15 | 3.78 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 15 | 3.78 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 15 | 3.78 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 6 | 3.78 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 6 | 3.78 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 1 | 3.78 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 1 | 3.78 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 1 | 3.78 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 18 | 3.78 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 8 | 3.78 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 8 | 3.78 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 8 | 3.78 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 10 | 3.78 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 6 | 3.78 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 6 | 3.78 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 17 | 3.78 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 17 | 3.78 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 17 | 3.78 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 20 | 3.78 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 20 | 3.78 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 20 | 3.78 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 20 | 3.78 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 20 | 3.78 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 20 | 3.78 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 9 | 3.78 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 9 | 3.78 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 9 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 10 | 3.78 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 14 | 3.78 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 6 | 3.78 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 6 | 3.78 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 6 | 3.78 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 18 | 3.78 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 20 | 3.78 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 20 | 3.78 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 7 | 3.78 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 6 | 3.78 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 6 | 3.78 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 19 | 3.78 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 19 | 3.78 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 8 | 3.78 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 10 | 3.78 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 16 | 3.78 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 16 | 3.78 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 16 | 3.78 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 13 | 3.78 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 13 | 3.78 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 13 | 3.78 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 12 | 3.78 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 12 | 3.78 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 12 | 3.78 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 5 | 3.78 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 17 | 3.78 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 17 | 3.78 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 11 | 3.78 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 11 | 3.78 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 3 | 3.78 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 3 | 3.78 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 4 | 3.78 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 3 | 3.78 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 3 | 3.78 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 3 | 3.78 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 9 | 3.78 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 8 | 3.78 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 4 | 3.78 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 4 | 3.78 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 4 | 3.78 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 6 | 3.78 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 16 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 16 | 3.78 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 16 | 3.78 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 16 | 3.78 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 16 | 3.78 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 16 | 3.78 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 6 | 3.78 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 15 | 3.78 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 15 | 3.78 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 15 | 3.78 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 4 | 3.78 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 19 | 3.78 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 12 | 3.78 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 17 | 3.78 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 17 | 3.78 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 17 | 3.78 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 2 | 3.78 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 9 | 3.78 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 9 | 3.78 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 9 | 3.78 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 15 | 3.78 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 15 | 3.78 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 15 | 3.78 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 8 | 3.78 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 8 | 3.78 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 8 | 3.78 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 18 | 3.78 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 18 | 3.78 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 18 | 3.78 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 7 | 3.78 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 7 | 3.78 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 7 | 3.78 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 5 | 3.78 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 13 | 3.78 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 17 | 3.78 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 18 | 3.78 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 18 | 3.78 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 18 | 3.78 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 8 | 3.78 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 8 | 3.78 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 8 | 3.78 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 19 | 3.78 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 19 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 19 | 3.78 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 13 | 3.78 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 13 | 3.78 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 14 | 3.78 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 14 | 3.78 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 14 | 3.78 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 8 | 3.78 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 7 | 3.78 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 7 | 3.78 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 7 | 3.78 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 13 | 3.78 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 10 | 3.78 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 10 | 3.78 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 10 | 3.78 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 5 | 3.78 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 5 | 3.78 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 5 | 3.78 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 5 | 3.78 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 5 | 3.78 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 5 | 3.78 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 5 | 3.78 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 5 | 3.78 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 5 | 3.78 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 7 | 3.78 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 19 | 3.78 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 4 | 3.78 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 8 | 3.78 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 13 | 3.78 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 16 | 3.78 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 16 | 3.78 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 16 | 3.78 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 17 | 3.78 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 17 | 3.78 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 17 | 3.78 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 19 | 3.78 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 12 | 3.78 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 8 | 3.78 |
| (1,1196) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 11 | 3.78 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 10 | 3.78 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 13 | 3.78 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 4 | 3.78 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 1 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 15 | 3.78 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 17 | 3.78 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 5 | 3.78 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 7 | 3.78 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 3.78 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 3.78 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 18 | 3.78 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 6 | 3.78 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 5 | 3.78 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 5 | 3.78 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 5 | 3.78 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 5 | 3.78 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 5 | 3.78 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 5 | 3.78 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 4 | 3.78 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 4 | 3.78 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 7 | 3.78 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 7 | 3.78 |
| (1,802) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 7 | 3.78 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 4 | 3.78 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 20 | 3.78 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 9 | 3.78 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 9 | 3.78 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 9 | 3.78 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 9 | 3.78 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 9 | 3.78 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 9 | 3.78 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 9 | 3.78 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 9 | 3.78 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 9 | 3.78 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 19 | 3.78 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 19 | 3.78 |
| (1,668) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 19 | 3.78 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 1 | 3.78 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 1 | 3.78 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 1 | 3.78 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 11 | 3.78 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 7 | 3.78 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 8 | 3.78 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 19 | 3.78 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 1 | 3.78 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 1 | 3.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 1 | 3.78 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 12 | 3.78 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 20 | 3.78 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 20 | 3.78 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 20 | 3.78 |
| (4,86) | 1:15:A:MET:CB | 1:145:A:GLU:H | 20 | 3.77 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 12 | 3.77 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 16 | 3.77 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 16 | 3.77 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 16 | 3.77 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 16 | 3.77 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 16 | 3.77 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 16 | 3.77 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 16 | 3.77 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 8 | 3.77 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 8 | 3.77 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 8 | 3.77 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 8 | 3.77 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 8 | 3.77 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 8 | 3.77 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 2 | 3.77 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 2 | 3.77 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 2 | 3.77 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 2 | 3.77 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 2 | 3.77 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 2 | 3.77 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 1 | 3.77 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 1 | 3.77 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB2 | 12 | 3.77 |
| (1,9529) | 1:141:A:LEU:HD11 | 1:142:A:ARG:HB3 | 12 | 3.77 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB2 | 12 | 3.77 |
| (1,9529) | 1:141:A:LEU:HD12 | 1:142:A:ARG:HB3 | 12 | 3.77 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB2 | 12 | 3.77 |
| (1,9529) | 1:141:A:LEU:HD13 | 1:142:A:ARG:HB3 | 12 | 3.77 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 9 | 3.77 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 9 | 3.77 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 9 | 3.77 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 9 | 3.77 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 3 | 3.77 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 3 | 3.77 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 3 | 3.77 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 3 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 3 | 3.77 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 3 | 3.77 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 8 | 3.77 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 8 | 3.77 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 8 | 3.77 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 8 | 3.77 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 18 | 3.77 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 18 | 3.77 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 9 | 3.77 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 9 | 3.77 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 2 | 3.77 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 2 | 3.77 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 3.77 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 3.77 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 3.77 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 1 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 1 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 1 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 1 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 1 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 1 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 8 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 8 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 8 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 8 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 8 | 3.77 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 8 | 3.77 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 8 | 3.77 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 8 | 3.77 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 20 | 3.77 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 20 | 3.77 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 9 | 3.77 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 9 | 3.77 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 19 | 3.77 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 19 | 3.77 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 19 | 3.77 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 19 | 3.77 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 8 | 3.77 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 8 | 3.77 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 12 | 3.77 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 12 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 3.77 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 20 | 3.77 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 3.77 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 20 | 3.77 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 3.77 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 20 | 3.77 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 4 | 3.77 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 4 | 3.77 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 4 | 3.77 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 4 | 3.77 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 4 | 3.77 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 4 | 3.77 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 4 | 3.77 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 4 | 3.77 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 10 | 3.77 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 10 | 3.77 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 14 | 3.77 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 14 | 3.77 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 15 | 3.77 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 15 | 3.77 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 20 | 3.77 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 20 | 3.77 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 19 | 3.77 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 19 | 3.77 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 13 | 3.77 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 13 | 3.77 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 13 | 3.77 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 13 | 3.77 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 13 | 3.77 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 13 | 3.77 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 14 | 3.77 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 14 | 3.77 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 10 | 3.77 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 10 | 3.77 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 10 | 3.77 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 10 | 3.77 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 14 | 3.77 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 14 | 3.77 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 15 | 3.77 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 15 | 3.77 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 15 | 3.77 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 15 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 12 | 3.77 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 12 | 3.77 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 12 | 3.77 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 12 | 3.77 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 20 | 3.77 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 20 | 3.77 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 20 | 3.77 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 20 | 3.77 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 4 | 3.77 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 4 | 3.77 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 6 | 3.77 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 6 | 3.77 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 6 | 3.77 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 6 | 3.77 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 8 | 3.77 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 8 | 3.77 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 19 | 3.77 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 5 | 3.77 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 5 | 3.77 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 5 | 3.77 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD11 | 10 | 3.77 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD12 | 10 | 3.77 |
| (1,8456) | 1:147:A:SER:HA | 1:159:A:ILE:HD13 | 10 | 3.77 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 10 | 3.77 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 1 | 3.77 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 1 | 3.77 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 1 | 3.77 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 6 | 3.77 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 6 | 3.77 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 6 | 3.77 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 19 | 3.77 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 19 | 3.77 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 19 | 3.77 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 10 | 3.77 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 17 | 3.77 |
| (1,8343) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 5 | 3.77 |
| (1,8343) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 5 | 3.77 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 6 | 3.77 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 10 | 3.77 |
| (1,8226) | 1:108:A:SER:HA | 1:120:A:GLY:H | 4 | 3.77 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 15 | 3.77 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 17 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 9 | 3.77 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 10 | 3.77 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 20 | 3.77 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 12 | 3.77 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 12 | 3.77 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 12 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 3 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 3 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 3 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 4 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 4 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 4 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 10 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 10 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 10 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 15 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 15 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 15 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 16 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 16 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 16 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 18 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 18 | 3.77 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 18 | 3.77 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 4 | 3.77 |
| (1,8087) | 1:92:A:TYR:HA | 1:94:A:GLN:H | 12 | 3.77 |
| (1,8078) | 1:90:A:ASN:HA | 1:92:A:TYR:H | 17 | 3.77 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 6 | 3.77 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 6 | 3.77 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 6 | 3.77 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 8 | 3.77 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 8 | 3.77 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 8 | 3.77 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 2 | 3.77 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 15 | 3.77 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 15 | 3.77 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 15 | 3.77 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 15 | 3.77 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 15 | 3.77 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 15 | 3.77 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 4 | 3.77 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 4 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 4 | 3.77 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 4 | 3.77 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 6 | 3.77 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 6 | 3.77 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 6 | 3.77 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 7 | 3.77 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 7 | 3.77 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 7 | 3.77 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 9 | 3.77 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 9 | 3.77 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 6 | 3.77 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 6 | 3.77 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 6 | 3.77 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 6 | 3.77 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 1 | 3.77 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 4 | 3.77 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 4 | 3.77 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 4 | 3.77 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 4 | 3.77 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 3 | 3.77 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 2 | 3.77 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 14 | 3.77 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 6 | 3.77 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB2 | 11 | 3.77 |
| (1,7543) | 1:16:A:SER:H | 1:17:A:ARG:HB3 | 11 | 3.77 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 3 | 3.77 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 11 | 3.77 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 2 | 3.77 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 2 | 3.77 |
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 2 | 3.77 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 2 | 3.77 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 2 | 3.77 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 2 | 3.77 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 2 | 3.77 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 2 | 3.77 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 2 | 3.77 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 14 | 3.77 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 14 | 3.77 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 14 | 3.77 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 15 | 3.77 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 15 | 3.77 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 15 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 19 | 3.77 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 19 | 3.77 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 19 | 3.77 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 16 | 3.77 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 16 | 3.77 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 8 | 3.77 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 13 | 3.77 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 7 | 3.77 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 7 | 3.77 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 7 | 3.77 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 10 | 3.77 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 10 | 3.77 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 10 | 3.77 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 10 | 3.77 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 10 | 3.77 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 10 | 3.77 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 10 | 3.77 |
| (1,7275) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 14 | 3.77 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 3 | 3.77 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 7 | 3.77 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 10 | 3.77 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 11 | 3.77 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 11 | 3.77 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 14 | 3.77 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 14 | 3.77 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 2 | 3.77 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 12 | 3.77 |
| (1,6970) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 17 | 3.77 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 11 | 3.77 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 11 | 3.77 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 11 | 3.77 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 7 | 3.77 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 7 | 3.77 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 7 | 3.77 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 14 | 3.77 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 6 | 3.77 |
| (1,6717) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 10 | 3.77 |
| (1,6717) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 10 | 3.77 |
| (1,6717) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 10 | 3.77 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 18 | 3.77 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 18 | 3.77 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 18 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 10 | 3.77 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 17 | 3.77 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 6 | 3.77 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 11 | 3.77 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 16 | 3.77 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 16 | 3.77 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 16 | 3.77 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 14 | 3.77 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 14 | 3.77 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 14 | 3.77 |
| (1,6289) | 1:150:A:VAL:H | 1:157:A:HIS:H | 13 | 3.77 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 7 | 3.77 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 8 | 3.77 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 8 | 3.77 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 8 | 3.77 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 11 | 3.77 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 11 | 3.77 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 11 | 3.77 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 7 | 3.77 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 7 | 3.77 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 7 | 3.77 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 7 | 3.77 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 7 | 3.77 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 7 | 3.77 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 7 | 3.77 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 15 | 3.77 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 11 | 3.77 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 15 | 3.77 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 15 | 3.77 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 15 | 3.77 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 7 | 3.77 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 7 | 3.77 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 7 | 3.77 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 12 | 3.77 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 12 | 3.77 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 12 | 3.77 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 14 | 3.77 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 14 | 3.77 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 14 | 3.77 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 16 | 3.77 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 16 | 3.77 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 16 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 3 | 3.77 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 3 | 3.77 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 3 | 3.77 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 2 | 3.77 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 2 | 3.77 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 1 | 3.77 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 11 | 3.77 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 11 | 3.77 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 5 | 3.77 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 14 | 3.77 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 14 | 3.77 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 14 | 3.77 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 19 | 3.77 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 16 | 3.77 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 20 | 3.77 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 2 | 3.77 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 5 | 3.77 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 18 | 3.77 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 9 | 3.77 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 9 | 3.77 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 9 | 3.77 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 4 | 3.77 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 4 | 3.77 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 4 | 3.77 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 6 | 3.77 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 6 | 3.77 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 6 | 3.77 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 13 | 3.77 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 6 | 3.77 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 6 | 3.77 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 6 | 3.77 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 6 | 3.77 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 6 | 3.77 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 6 | 3.77 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 3 | 3.77 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 13 | 3.77 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 9 | 3.77 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 9 | 3.77 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 4 | 3.77 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 4 | 3.77 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 4 | 3.77 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 12 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 19 | 3.77 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 19 | 3.77 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 19 | 3.77 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 16 | 3.77 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 14 | 3.77 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 14 | 3.77 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 14 | 3.77 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 14 | 3.77 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 14 | 3.77 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 14 | 3.77 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 13 | 3.77 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 13 | 3.77 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 13 | 3.77 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 9 | 3.77 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 13 | 3.77 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 7 | 3.77 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 7 | 3.77 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 7 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 5 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 5 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 5 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 7 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 7 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 7 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 13 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 13 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 13 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 15 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 15 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 15 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 16 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 16 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 16 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 17 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 17 | 3.77 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 17 | 3.77 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 16 | 3.77 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 3 | 3.77 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 3 | 3.77 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 3 | 3.77 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 6 | 3.77 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 6 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 6 | 3.77 |
| (1,5308) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 7 | 3.77 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 1 | 3.77 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 9 | 3.77 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 9 | 3.77 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 9 | 3.77 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 19 | 3.77 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 14 | 3.77 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 14 | 3.77 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 14 | 3.77 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 14 | 3.77 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 9 | 3.77 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 9 | 3.77 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 9 | 3.77 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 1 | 3.77 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 11 | 3.77 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 11 | 3.77 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 11 | 3.77 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 1 | 3.77 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 20 | 3.77 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 20 | 3.77 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 20 | 3.77 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 7 | 3.77 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 7 | 3.77 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 7 | 3.77 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 1 | 3.77 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 1 | 3.77 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 1 | 3.77 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 7 | 3.77 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 7 | 3.77 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 7 | 3.77 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 16 | 3.77 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 16 | 3.77 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 16 | 3.77 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 20 | 3.77 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 20 | 3.77 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 20 | 3.77 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 3 | 3.77 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 3 | 3.77 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 19 | 3.77 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 19 | 3.77 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 1 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 19 | 3.77 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 20 | 3.77 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 20 | 3.77 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 20 | 3.77 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 15 | 3.77 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 14 | 3.77 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 10 | 3.77 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 3 | 3.77 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 18 | 3.77 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 3 | 3.77 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 3 | 3.77 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 3 | 3.77 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 4 | 3.77 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 4 | 3.77 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 11 | 3.77 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 11 | 3.77 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 5 | 3.77 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 2 | 3.77 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 12 | 3.77 |
| (1,4514) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 15 | 3.77 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 9 | 3.77 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 9 | 3.77 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 9 | 3.77 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 9 | 3.77 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 9 | 3.77 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 3 | 3.77 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 3 | 3.77 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 3 | 3.77 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 3 | 3.77 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 3 | 3.77 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 3 | 3.77 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 13 | 3.77 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 13 | 3.77 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 13 | 3.77 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 13 | 3.77 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 13 | 3.77 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 13 | 3.77 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 9 | 3.77 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 9 | 3.77 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 3.77 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 3.77 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 3.77 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 8 | 3.77 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 8 | 3.77 |
| (1,4368) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 19 | 3.77 |
| (1,4368) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 19 | 3.77 |
| (1,4368) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 19 | 3.77 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 13 | 3.77 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 20 | 3.77 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 9 | 3.77 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 9 | 3.77 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 9 | 3.77 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 3 | 3.77 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 3 | 3.77 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 3 | 3.77 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 3.77 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 20 | 3.77 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 3.77 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 20 | 3.77 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 3.77 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 20 | 3.77 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 4 | 3.77 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 4 | 3.77 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 13 | 3.77 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 13 | 3.77 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 4 | 3.77 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 4 | 3.77 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 4 | 3.77 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 4 | 3.77 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 4 | 3.77 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 4 | 3.77 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 18 | 3.77 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 7 | 3.77 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 7 | 3.77 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 7 | 3.77 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 7 | 3.77 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 7 | 3.77 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 7 | 3.77 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 14 | 3.77 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 14 | 3.77 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 10 | 3.77 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 16 | 3.77 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 2 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 2 | 3.77 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 19 | 3.77 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 19 | 3.77 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 13 | 3.77 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 13 | 3.77 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 13 | 3.77 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 13 | 3.77 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 13 | 3.77 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 13 | 3.77 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 9 | 3.77 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 10 | 3.77 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 10 | 3.77 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 3 | 3.77 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 3 | 3.77 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 3 | 3.77 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 3 | 3.77 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 3 | 3.77 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 3 | 3.77 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 12 | 3.77 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 12 | 3.77 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 12 | 3.77 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 15 | 3.77 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 15 | 3.77 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 15 | 3.77 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 15 | 3.77 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 12 | 3.77 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 20 | 3.77 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 20 | 3.77 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 7 | 3.77 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 7 | 3.77 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 7 | 3.77 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 14 | 3.77 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 4 | 3.77 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 4 | 3.77 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 4 | 3.77 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 2 | 3.77 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 2 | 3.77 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 3.77 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 3.77 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 8 | 3.77 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 8 | 3.77 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 1 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 3 | 3.77 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 2 | 3.77 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 6 | 3.77 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 7 | 3.77 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 10 | 3.77 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 11 | 3.77 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 11 | 3.77 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 14 | 3.77 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 14 | 3.77 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 2 | 3.77 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 12 | 3.77 |
| (1,3000) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 17 | 3.77 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 11 | 3.77 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 11 | 3.77 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 11 | 3.77 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 7 | 3.77 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 7 | 3.77 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 7 | 3.77 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 14 | 3.77 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 6 | 3.77 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 17 | 3.77 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 17 | 3.77 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 17 | 3.77 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 17 | 3.77 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 17 | 3.77 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 17 | 3.77 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 4 | 3.77 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 4 | 3.77 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 14 | 3.77 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 14 | 3.77 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 14 | 3.77 |
| (1,2630) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 10 | 3.77 |
| (1,2630) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 10 | 3.77 |
| (1,2630) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 10 | 3.77 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 10 | 3.77 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 3 | 3.77 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 3 | 3.77 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 3 | 3.77 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 18 | 3.77 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 18 | 3.77 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 18 | 3.77 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 10 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 10 | 3.77 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 17 | 3.77 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 6 | 3.77 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 11 | 3.77 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 6 | 3.77 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 11 | 3.77 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 12 | 3.77 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 8 | 3.77 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 20 | 3.77 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 16 | 3.77 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 16 | 3.77 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 16 | 3.77 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 14 | 3.77 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 14 | 3.77 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 14 | 3.77 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 12 | 3.77 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 12 | 3.77 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 8 | 3.77 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 8 | 3.77 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 8 | 3.77 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 7 | 3.77 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 8 | 3.77 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 8 | 3.77 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 8 | 3.77 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 11 | 3.77 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 11 | 3.77 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 11 | 3.77 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 7 | 3.77 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 7 | 3.77 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 7 | 3.77 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 7 | 3.77 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 7 | 3.77 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 7 | 3.77 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 4 | 3.77 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 1 | 3.77 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 16 | 3.77 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 7 | 3.77 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 15 | 3.77 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 11 | 3.77 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 8 | 3.77 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 9 | 3.77 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 12 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 15 | 3.77 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 15 | 3.77 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 15 | 3.77 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 7 | 3.77 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 7 | 3.77 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 7 | 3.77 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 15 | 3.77 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 12 | 3.77 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 12 | 3.77 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 12 | 3.77 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 14 | 3.77 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 14 | 3.77 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 14 | 3.77 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 16 | 3.77 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 16 | 3.77 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 16 | 3.77 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 3 | 3.77 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 3 | 3.77 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 3 | 3.77 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 2 | 3.77 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 2 | 3.77 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 1 | 3.77 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 11 | 3.77 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 11 | 3.77 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 9 | 3.77 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 9 | 3.77 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 9 | 3.77 |
| (1,1036) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 8 | 3.77 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 5 | 3.77 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 16 | 3.77 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 16 | 3.77 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 16 | 3.77 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 14 | 3.77 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 14 | 3.77 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 14 | 3.77 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 19 | 3.77 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 16 | 3.77 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 20 | 3.77 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 2 | 3.77 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 5 | 3.77 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 18 | 3.77 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 9 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 9 | 3.77 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 9 | 3.77 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 4 | 3.77 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 4 | 3.77 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 4 | 3.77 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 6 | 3.77 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 6 | 3.77 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 6 | 3.77 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 13 | 3.77 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 6 | 3.77 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 6 | 3.77 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 6 | 3.77 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 6 | 3.77 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 6 | 3.77 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 6 | 3.77 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 3 | 3.77 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 13 | 3.77 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 9 | 3.77 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 9 | 3.77 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 4 | 3.77 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 4 | 3.77 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 4 | 3.77 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 12 | 3.77 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 19 | 3.77 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 19 | 3.77 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 19 | 3.77 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 16 | 3.77 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 16 | 3.77 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 8 | 3.77 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 14 | 3.77 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 14 | 3.77 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 14 | 3.77 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 14 | 3.77 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 14 | 3.77 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 14 | 3.77 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 13 | 3.77 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 13 | 3.77 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 13 | 3.77 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 18 | 3.77 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 7 | 3.77 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 7 | 3.77 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 4 | 3.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 16 | 3.77 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 16 | 3.77 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 16 | 3.77 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 16 | 3.77 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 16 | 3.77 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 16 | 3.77 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 17 | 3.76 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 1 | 3.76 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 1 | 3.76 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 1 | 3.76 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 1 | 3.76 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 1 | 3.76 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 1 | 3.76 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 7 | 3.76 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 7 | 3.76 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 3.76 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 3.76 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 8 | 3.76 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 8 | 3.76 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 7 | 3.76 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 7 | 3.76 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 7 | 3.76 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 7 | 3.76 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 7 | 3.76 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 7 | 3.76 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 20 | 3.76 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 20 | 3.76 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 15 | 3.76 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 15 | 3.76 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 15 | 3.76 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 15 | 3.76 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 15 | 3.76 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 15 | 3.76 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 10 | 3.76 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 10 | 3.76 |
| (1,9211) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 11 | 3.76 |
| (1,9211) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 11 | 3.76 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 1 | 3.76 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 1 | 3.76 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 1 | 3.76 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 1 | 3.76 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 1 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 1 | 3.76 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 12 | 3.76 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 12 | 3.76 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 12 | 3.76 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 12 | 3.76 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 12 | 3.76 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 12 | 3.76 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 7 | 3.76 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 7 | 3.76 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 14 | 3.76 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 14 | 3.76 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 14 | 3.76 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 14 | 3.76 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 14 | 3.76 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 14 | 3.76 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 3 | 3.76 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 3 | 3.76 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 18 | 3.76 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 18 | 3.76 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 18 | 3.76 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 18 | 3.76 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 3 | 3.76 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 3 | 3.76 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 15 | 3.76 |
| (1,9038) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 15 | 3.76 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 15 | 3.76 |
| (1,9038) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 15 | 3.76 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 14 | 3.76 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 14 | 3.76 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 1 | 3.76 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 1 | 3.76 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 1 | 3.76 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 1 | 3.76 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 11 | 3.76 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 11 | 3.76 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 13 | 3.76 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 13 | 3.76 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 5 | 3.76 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 5 | 3.76 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 5 | 3.76 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 5 | 3.76 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 5 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 5 | 3.76 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 15 | 3.76 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 15 | 3.76 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 15 | 3.76 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 15 | 3.76 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 15 | 3.76 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 15 | 3.76 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 15 | 3.76 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 15 | 3.76 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 7 | 3.76 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 7 | 3.76 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 7 | 3.76 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 7 | 3.76 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 7 | 3.76 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 7 | 3.76 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 16 | 3.76 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 16 | 3.76 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 16 | 3.76 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 16 | 3.76 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 16 | 3.76 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 16 | 3.76 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 17 | 3.76 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 17 | 3.76 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 1 | 3.76 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 1 | 3.76 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 10 | 3.76 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 10 | 3.76 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 14 | 3.76 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 14 | 3.76 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 10 | 3.76 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 10 | 3.76 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 10 | 3.76 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 10 | 3.76 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 5 | 3.76 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 5 | 3.76 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 3.76 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 3.76 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB2 | 4 | 3.76 |
| (1,8529) | 1:2:A:ALA:H | 1:3:A:ASP:HB3 | 4 | 3.76 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 17 | 3.76 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 17 | 3.76 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 8 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 19 | 3.76 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 16 | 3.76 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 16 | 3.76 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 16 | 3.76 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 2 | 3.76 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 2 | 3.76 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 11 | 3.76 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 11 | 3.76 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 11 | 3.76 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 6 | 3.76 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 18 | 3.76 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 14 | 3.76 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 14 | 3.76 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 14 | 3.76 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 17 | 3.76 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 17 | 3.76 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 17 | 3.76 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 5 | 3.76 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 5 | 3.76 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 5 | 3.76 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 3 | 3.76 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 12 | 3.76 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 12 | 3.76 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 12 | 3.76 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 6 | 3.76 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 6 | 3.76 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 13 | 3.76 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 13 | 3.76 |
| (1,8253) | 1:116:A:ALA:HA | 1:119:A:ARG:H | 16 | 3.76 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 15 | 3.76 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 19 | 3.76 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 3 | 3.76 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 3 | 3.76 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 3 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 7 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 7 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 7 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 11 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 11 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 11 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 17 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 17 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 17 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 19 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 19 | 3.76 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 19 | 3.76 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 20 | 3.76 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 15 | 3.76 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 19 | 3.76 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 1 | 3.76 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 1 | 3.76 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 1 | 3.76 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 8 | 3.76 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 8 | 3.76 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 8 | 3.76 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 15 | 3.76 |
| (1,7974) | 1:78:A:ILE:HD11 | 1:79:A:THR:H | 10 | 3.76 |
| (1,7974) | 1:78:A:ILE:HD12 | 1:79:A:THR:H | 10 | 3.76 |
| (1,7974) | 1:78:A:ILE:HD13 | 1:79:A:THR:H | 10 | 3.76 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 1 | 3.76 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 4 | 3.76 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 4 | 3.76 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 4 | 3.76 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 14 | 3.76 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 14 | 3.76 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 14 | 3.76 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 19 | 3.76 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 19 | 3.76 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 19 | 3.76 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 2 | 3.76 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 2 | 3.76 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 2 | 3.76 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 12 | 3.76 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 12 | 3.76 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 12 | 3.76 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 1 | 3.76 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 6 | 3.76 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 6 | 3.76 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 6 | 3.76 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 6 | 3.76 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 6 | 3.76 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 6 | 3.76 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 6 | 3.76 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 6 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 6 | 3.76 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 10 | 3.76 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 4 | 3.76 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 6 | 3.76 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 6 | 3.76 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 6 | 3.76 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 6 | 3.76 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 6 | 3.76 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 6 | 3.76 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 10 | 3.76 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 10 | 3.76 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 10 | 3.76 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 10 | 3.76 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 3 | 3.76 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 2 | 3.76 |
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 2 | 3.76 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 16 | 3.76 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 19 | 3.76 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 19 | 3.76 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 10 | 3.76 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 8 | 3.76 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 8 | 3.76 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 11 | 3.76 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 11 | 3.76 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 11 | 3.76 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 7 | 3.76 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 7 | 3.76 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG11 | 16 | 3.76 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG12 | 16 | 3.76 |
| (1,7542) | 1:16:A:SER:H | 1:22:A:VAL:HG13 | 16 | 3.76 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 7 | 3.76 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 2 | 3.76 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 2 | 3.76 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 2 | 3.76 |
| (1,7423) | 1:7:A:LEU:HD21 | 1:8:A:PRO:HD2 | 13 | 3.76 |
| (1,7423) | 1:7:A:LEU:HD22 | 1:8:A:PRO:HD2 | 13 | 3.76 |
| (1,7423) | 1:7:A:LEU:HD23 | 1:8:A:PRO:HD2 | 13 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 16 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 16 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 16 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 16 | 3.76 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 16 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 16 | 3.76 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 8 | 3.76 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 8 | 3.76 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 8 | 3.76 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 3 | 3.76 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 3 | 3.76 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 3 | 3.76 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 6 | 3.76 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 6 | 3.76 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 6 | 3.76 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 10 | 3.76 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 10 | 3.76 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 10 | 3.76 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 20 | 3.76 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 20 | 3.76 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 20 | 3.76 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 19 | 3.76 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 19 | 3.76 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 19 | 3.76 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 11 | 3.76 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 13 | 3.76 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 13 | 3.76 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 12 | 3.76 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 12 | 3.76 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 20 | 3.76 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 20 | 3.76 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 10 | 3.76 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 10 | 3.76 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 12 | 3.76 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 7 | 3.76 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 3 | 3.76 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 5 | 3.76 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 5 | 3.76 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 5 | 3.76 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 12 | 3.76 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 13 | 3.76 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 15 | 3.76 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 3 | 3.76 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 2 | 3.76 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 2 | 3.76 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 2 | 3.76 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 18 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 9 | 3.76 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 9 | 3.76 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 9 | 3.76 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 9 | 3.76 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 9 | 3.76 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 9 | 3.76 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 9 | 3.76 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 9 | 3.76 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 9 | 3.76 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 2 | 3.76 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 14 | 3.76 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 8 | 3.76 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 12 | 3.76 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 5 | 3.76 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 5 | 3.76 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 5 | 3.76 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 5 | 3.76 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 20 | 3.76 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 13 | 3.76 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 18 | 3.76 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 2 | 3.76 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 15 | 3.76 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 15 | 3.76 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 15 | 3.76 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 15 | 3.76 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 15 | 3.76 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 15 | 3.76 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 20 | 3.76 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 20 | 3.76 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 20 | 3.76 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 13 | 3.76 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 2 | 3.76 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 12 | 3.76 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 12 | 3.76 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 12 | 3.76 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 17 | 3.76 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 17 | 3.76 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 17 | 3.76 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 11 | 3.76 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 11 | 3.76 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 11 | 3.76 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 6 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 10 | 3.76 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 11 | 3.76 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 16 | 3.76 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 1 | 3.76 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 1 | 3.76 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 17 | 3.76 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 17 | 3.76 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 17 | 3.76 |
| (1,6289) | 1:150:A:VAL:H | 1:157:A:HIS:H | 15 | 3.76 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 3 | 3.76 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 3 | 3.76 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 3 | 3.76 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 11 | 3.76 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 11 | 3.76 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 11 | 3.76 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 20 | 3.76 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 20 | 3.76 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 20 | 3.76 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 16 | 3.76 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 16 | 3.76 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 16 | 3.76 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 11 | 3.76 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 11 | 3.76 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 11 | 3.76 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 11 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 3 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 3 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 3 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 10 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 10 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 10 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 14 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 14 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 14 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 16 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 16 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 16 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 17 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 17 | 3.76 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 17 | 3.76 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 13 | 3.76 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 13 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 13 | 3.76 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 3 | 3.76 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 15 | 3.76 |
| (1,6130) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 15 | 3.76 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 1 | 3.76 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 10 | 3.76 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 17 | 3.76 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 19 | 3.76 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 16 | 3.76 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 16 | 3.76 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 16 | 3.76 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 17 | 3.76 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 17 | 3.76 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 17 | 3.76 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 17 | 3.76 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 17 | 3.76 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 17 | 3.76 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 17 | 3.76 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 17 | 3.76 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 17 | 3.76 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 6 | 3.76 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 6 | 3.76 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 6 | 3.76 |
| (1,5970) | 1:128:A:GLY:H | 1:130:A:MET:H | 3 | 3.76 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 6 | 3.76 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 5 | 3.76 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 5 | 3.76 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 2 | 3.76 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 2 | 3.76 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 2 | 3.76 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 4 | 3.76 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 4 | 3.76 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 6 | 3.76 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 6 | 3.76 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 6 | 3.76 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 8 | 3.76 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 1 | 3.76 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 1 | 3.76 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 1 | 3.76 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 1 | 3.76 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 13 | 3.76 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 12 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 12 | 3.76 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 12 | 3.76 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 12 | 3.76 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 12 | 3.76 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 12 | 3.76 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 13 | 3.76 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 13 | 3.76 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 13 | 3.76 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 15 | 3.76 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 15 | 3.76 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 15 | 3.76 |
| (1,5622) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 12 | 3.76 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 15 | 3.76 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 15 | 3.76 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 15 | 3.76 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 15 | 3.76 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 15 | 3.76 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 15 | 3.76 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 16 | 3.76 |
| (1,5544) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 1 | 3.76 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 4 | 3.76 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 19 | 3.76 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 8 | 3.76 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 8 | 3.76 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 14 | 3.76 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 14 | 3.76 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 14 | 3.76 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 14 | 3.76 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 14 | 3.76 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 14 | 3.76 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 6 | 3.76 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 6 | 3.76 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 6 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 19 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 19 | 3.76 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 19 | 3.76 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 20 | 3.76 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 20 | 3.76 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 20 | 3.76 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 20 | 3.76 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 20 | 3.76 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 20 | 3.76 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 19 | 3.76 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 19 | 3.76 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 19 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 1 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 1 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 1 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 2 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 2 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 2 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 4 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 4 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 4 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 12 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 12 | 3.76 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 12 | 3.76 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 16 | 3.76 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 16 | 3.76 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 16 | 3.76 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 7 | 3.76 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 7 | 3.76 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 7 | 3.76 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 12 | 3.76 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 12 | 3.76 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 12 | 3.76 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 12 | 3.76 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 12 | 3.76 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 12 | 3.76 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 12 | 3.76 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 12 | 3.76 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 12 | 3.76 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 19 | 3.76 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 19 | 3.76 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 19 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 15 | 3.76 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 15 | 3.76 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 15 | 3.76 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 18 | 3.76 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 18 | 3.76 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 18 | 3.76 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 8 | 3.76 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 16 | 3.76 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 16 | 3.76 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 16 | 3.76 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 2 | 3.76 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 2 | 3.76 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 2 | 3.76 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 12 | 3.76 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 12 | 3.76 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 12 | 3.76 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 5 | 3.76 |
| (1,4948) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 2 | 3.76 |
| (1,4948) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 2 | 3.76 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 16 | 3.76 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 16 | 3.76 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 12 | 3.76 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 12 | 3.76 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 12 | 3.76 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 7 | 3.76 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 7 | 3.76 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 7 | 3.76 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 15 | 3.76 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 15 | 3.76 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 15 | 3.76 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 17 | 3.76 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 17 | 3.76 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 17 | 3.76 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 19 | 3.76 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 20 | 3.76 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 9 | 3.76 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 9 | 3.76 |
| (1,4754) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 9 | 3.76 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 16 | 3.76 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 16 | 3.76 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 7 | 3.76 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 7 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 7 | 3.76 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 1 | 3.76 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 1 | 3.76 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 1 | 3.76 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 1 | 3.76 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 1 | 3.76 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 1 | 3.76 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 3.76 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 3.76 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 11 | 3.76 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 8 | 3.76 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 8 | 3.76 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 7 | 3.76 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 7 | 3.76 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 7 | 3.76 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 7 | 3.76 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 7 | 3.76 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 7 | 3.76 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 4 | 3.76 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 5 | 3.76 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 11 | 3.76 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 11 | 3.76 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 3.76 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 3.76 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 6 | 3.76 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 6 | 3.76 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 16 | 3.76 |
| (1,4196) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 11 | 3.76 |
| (1,4196) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 11 | 3.76 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 1 | 3.76 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 1 | 3.76 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 1 | 3.76 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 1 | 3.76 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 1 | 3.76 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 1 | 3.76 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 12 | 3.76 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 12 | 3.76 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 12 | 3.76 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 12 | 3.76 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 12 | 3.76 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 12 | 3.76 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 6 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 6 | 3.76 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 6 | 3.76 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 7 | 3.76 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 7 | 3.76 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 3 | 3.76 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 3 | 3.76 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 14 | 3.76 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 18 | 3.76 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 18 | 3.76 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 18 | 3.76 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 18 | 3.76 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 3 | 3.76 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 3 | 3.76 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 14 | 3.76 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 14 | 3.76 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 5 | 3.76 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 17 | 3.76 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 1 | 3.76 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 1 | 3.76 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 11 | 3.76 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 11 | 3.76 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 5 | 3.76 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 5 | 3.76 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 5 | 3.76 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 5 | 3.76 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 5 | 3.76 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 5 | 3.76 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 17 | 3.76 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 17 | 3.76 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 17 | 3.76 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 17 | 3.76 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 17 | 3.76 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 17 | 3.76 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 19 | 3.76 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 19 | 3.76 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 19 | 3.76 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 1 | 3.76 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 1 | 3.76 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 1 | 3.76 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 12 | 3.76 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 12 | 3.76 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 12 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 15 | 3.76 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 15 | 3.76 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 15 | 3.76 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 15 | 3.76 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 15 | 3.76 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 15 | 3.76 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 15 | 3.76 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 15 | 3.76 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 14 | 3.76 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 14 | 3.76 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 6 | 3.76 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 6 | 3.76 |
| (1,3768) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 15 | 3.76 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 13 | 3.76 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 18 | 3.76 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 18 | 3.76 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 17 | 3.76 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 17 | 3.76 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 10 | 3.76 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 10 | 3.76 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 14 | 3.76 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 14 | 3.76 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 11 | 3.76 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 5 | 3.76 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 5 | 3.76 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 3.76 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 3.76 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 16 | 3.76 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 3 | 3.76 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 6 | 3.76 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 14 | 3.76 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 12 | 3.76 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 12 | 3.76 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 16 | 3.76 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 19 | 3.76 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 20 | 3.76 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 20 | 3.76 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 10 | 3.76 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 10 | 3.76 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 12 | 3.76 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 7 | 3.76 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 3 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 5 | 3.76 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 5 | 3.76 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 5 | 3.76 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 12 | 3.76 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 14 | 3.76 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 14 | 3.76 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 13 | 3.76 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 15 | 3.76 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 3 | 3.76 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 2 | 3.76 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 2 | 3.76 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 2 | 3.76 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 18 | 3.76 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 20 | 3.76 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 20 | 3.76 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 18 | 3.76 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 9 | 3.76 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 9 | 3.76 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 9 | 3.76 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 9 | 3.76 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 9 | 3.76 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 9 | 3.76 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 9 | 3.76 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 9 | 3.76 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 9 | 3.76 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 13 | 3.76 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 2 | 3.76 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 7 | 3.76 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 19 | 3.76 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 14 | 3.76 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 8 | 3.76 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 12 | 3.76 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 1 | 3.76 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 1 | 3.76 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 1 | 3.76 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 5 | 3.76 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 5 | 3.76 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 5 | 3.76 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 5 | 3.76 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 20 | 3.76 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 13 | 3.76 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 18 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 7 | 3.76 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 2 | 3.76 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 15 | 3.76 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 15 | 3.76 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 15 | 3.76 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 15 | 3.76 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 15 | 3.76 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 15 | 3.76 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 20 | 3.76 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 20 | 3.76 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 20 | 3.76 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 13 | 3.76 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 15 | 3.76 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 2 | 3.76 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 3 | 3.76 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 9 | 3.76 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 12 | 3.76 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 12 | 3.76 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 12 | 3.76 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 17 | 3.76 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 17 | 3.76 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 17 | 3.76 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 12 | 3.76 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 16 | 3.76 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 11 | 3.76 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 11 | 3.76 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 11 | 3.76 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 6 | 3.76 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 10 | 3.76 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 3 | 3.76 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 3 | 3.76 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 3 | 3.76 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 11 | 3.76 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 16 | 3.76 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 1 | 3.76 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 1 | 3.76 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 17 | 3.76 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 17 | 3.76 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 17 | 3.76 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 3 | 3.76 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 3 | 3.76 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 3 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 11 | 3.76 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 11 | 3.76 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 11 | 3.76 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 15 | 3.76 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 3 | 3.76 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 3 | 3.76 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 3 | 3.76 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 20 | 3.76 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 20 | 3.76 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 20 | 3.76 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 18 | 3.76 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 16 | 3.76 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 16 | 3.76 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 16 | 3.76 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 11 | 3.76 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 11 | 3.76 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 11 | 3.76 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 11 | 3.76 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 10 | 3.76 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 10 | 3.76 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 10 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 3 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 3 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 3 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 10 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 10 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 10 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 14 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 14 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 14 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 16 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 16 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 16 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 17 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 17 | 3.76 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 17 | 3.76 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 13 | 3.76 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 13 | 3.76 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 13 | 3.76 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 3 | 3.76 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 15 | 3.76 |
| (1,1722) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 15 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 1 | 3.76 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 10 | 3.76 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 17 | 3.76 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 19 | 3.76 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 16 | 3.76 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 16 | 3.76 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 16 | 3.76 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 2 | 3.76 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 2 | 3.76 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 2 | 3.76 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 17 | 3.76 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 17 | 3.76 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 17 | 3.76 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 17 | 3.76 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 17 | 3.76 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 17 | 3.76 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 17 | 3.76 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 17 | 3.76 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 17 | 3.76 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 6 | 3.76 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 6 | 3.76 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 6 | 3.76 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 10 | 3.76 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 10 | 3.76 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 4 | 3.76 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 4 | 3.76 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 4 | 3.76 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 4 | 3.76 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 4 | 3.76 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 4 | 3.76 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 11 | 3.76 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 8 | 3.76 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 8 | 3.76 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 8 | 3.76 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 8 | 3.76 |
| (1,1430) | 1:128:A:GLY:H | 1:130:A:MET:H | 3 | 3.76 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 20 | 3.76 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 6 | 3.76 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 17 | 3.76 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 5 | 3.76 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 5 | 3.76 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 2 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 2 | 3.76 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 2 | 3.76 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 4 | 3.76 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 4 | 3.76 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 1 | 3.76 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 10 | 3.76 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 8 | 3.76 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 4 | 3.76 |
| (1,1174) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 13 | 3.76 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 6 | 3.76 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 6 | 3.76 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 6 | 3.76 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 8 | 3.76 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 1 | 3.76 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 1 | 3.76 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 1 | 3.76 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 1 | 3.76 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 18 | 3.76 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 9 | 3.76 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 12 | 3.76 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 12 | 3.76 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 12 | 3.76 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 12 | 3.76 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 12 | 3.76 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 12 | 3.76 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 12 | 3.76 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 12 | 3.76 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 12 | 3.76 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 12 | 3.76 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 12 | 3.76 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 12 | 3.76 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 13 | 3.76 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 13 | 3.76 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 13 | 3.76 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 15 | 3.76 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 15 | 3.76 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 15 | 3.76 |
| (1,826) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 12 | 3.76 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 15 | 3.76 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 15 | 3.76 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 15 | 3.76 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 15 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 15 | 3.76 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 15 | 3.76 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 16 | 3.76 |
| (1,704) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 1 | 3.76 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 4 | 3.76 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 19 | 3.76 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 16 | 3.76 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 8 | 3.76 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 8 | 3.76 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 14 | 3.76 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 14 | 3.76 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 14 | 3.76 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 14 | 3.76 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 14 | 3.76 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 14 | 3.76 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 6 | 3.76 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 6 | 3.76 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 6 | 3.76 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 1 | 3.76 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 20 | 3.76 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 20 | 3.76 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 20 | 3.76 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 20 | 3.76 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 20 | 3.76 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 20 | 3.76 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 20 | 3.76 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 20 | 3.76 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 20 | 3.76 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 20 | 3.76 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 20 | 3.76 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 20 | 3.76 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 11 | 3.76 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 11 | 3.76 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 11 | 3.76 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 11 | 3.76 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 11 | 3.76 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 11 | 3.76 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 11 | 3.76 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 11 | 3.76 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 11 | 3.76 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 18 | 3.76 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 3 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 3 | 3.76 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 5 | 3.75 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 11 | 3.75 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 2 | 3.75 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 10 | 3.75 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 10 | 3.75 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 17 | 3.75 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 17 | 3.75 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 7 | 3.75 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 7 | 3.75 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 16 | 3.75 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 16 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 7 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 11 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 20 | 3.75 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 20 | 3.75 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 2 | 3.75 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 2 | 3.75 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 2 | 3.75 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 2 | 3.75 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 11 | 3.75 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 11 | 3.75 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 11 | 3.75 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 11 | 3.75 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 12 | 3.75 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 12 | 3.75 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 13 | 3.75 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 13 | 3.75 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 1 | 3.75 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 1 | 3.75 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 7 | 3.75 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 7 | 3.75 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 19 | 3.75 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 19 | 3.75 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 19 | 3.75 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 19 | 3.75 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 19 | 3.75 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 19 | 3.75 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 1 | 3.75 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 1 | 3.75 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 1 | 3.75 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 1 | 3.75 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB2 | 19 | 3.75 |
| (1,9224) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HB3 | 19 | 3.75 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB2 | 19 | 3.75 |
| (1,9224) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HB3 | 19 | 3.75 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB2 | 19 | 3.75 |
| (1,9224) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HB3 | 19 | 3.75 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 2 | 3.75 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 2 | 3.75 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE21 | 18 | 3.75 |
| (1,9183) | 1:94:A:GLN:HA | 1:94:A:GLN:HE22 | 18 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 16 | 3.75 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 16 | 3.75 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 17 | 3.75 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 17 | 3.75 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 19 | 3.75 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 19 | 3.75 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 12 | 3.75 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 12 | 3.75 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 1 | 3.75 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 1 | 3.75 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 1 | 3.75 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 1 | 3.75 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 1 | 3.75 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 1 | 3.75 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 8 | 3.75 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 8 | 3.75 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 18 | 3.75 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 18 | 3.75 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 5 | 3.75 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 5 | 3.75 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 5 | 3.75 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 5 | 3.75 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 5 | 3.75 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 5 | 3.75 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 17 | 3.75 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 17 | 3.75 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 18 | 3.75 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 18 | 3.75 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 9 | 3.75 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 9 | 3.75 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 15 | 3.75 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 15 | 3.75 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 15 | 3.75 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 15 | 3.75 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 6 | 3.75 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 6 | 3.75 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 6 | 3.75 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 6 | 3.75 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 7 | 3.75 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 7 | 3.75 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 8 | 3.75 |
| (1,8650) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 8 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 13 | 3.75 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 13 | 3.75 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 15 | 3.75 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 15 | 3.75 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 15 | 3.75 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 15 | 3.75 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 15 | 3.75 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 15 | 3.75 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 15 | 3.75 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 15 | 3.75 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 2 | 3.75 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 2 | 3.75 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 20 | 3.75 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 20 | 3.75 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 3 | 3.75 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 3 | 3.75 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 5 | 3.75 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 5 | 3.75 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 6 | 3.75 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 6 | 3.75 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 5 | 3.75 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 4 | 3.75 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 4 | 3.75 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 4 | 3.75 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 9 | 3.75 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 7 | 3.75 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 7 | 3.75 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 7 | 3.75 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 7 | 3.75 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 7 | 3.75 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 7 | 3.75 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 7 | 3.75 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 7 | 3.75 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 7 | 3.75 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 13 | 3.75 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 13 | 3.75 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 13 | 3.75 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 11 | 3.75 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 3 | 3.75 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 3 | 3.75 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 3 | 3.75 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 3 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 3 | 3.75 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 3 | 3.75 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 2 | 3.75 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 2 | 3.75 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 12 | 3.75 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 12 | 3.75 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 7 | 3.75 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 7 | 3.75 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 7 | 3.75 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 14 | 3.75 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 14 | 3.75 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 14 | 3.75 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 11 | 3.75 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 6 | 3.75 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 6 | 3.75 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 7 | 3.75 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 7 | 3.75 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 1 | 3.75 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 1 | 3.75 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 1 | 3.75 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 6 | 3.75 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 6 | 3.75 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 6 | 3.75 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 14 | 3.75 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 14 | 3.75 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 14 | 3.75 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 3 | 3.75 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 12 | 3.75 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 12 | 3.75 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 12 | 3.75 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 12 | 3.75 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 12 | 3.75 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 12 | 3.75 |
| (1,7924) | 1:71:A:SER:H | 1:72:A:SER:H | 10 | 3.75 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 10 | 3.75 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 10 | 3.75 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 10 | 3.75 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 10 | 3.75 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 10 | 3.75 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 10 | 3.75 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 10 | 3.75 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 10 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 10 | 3.75 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 13 | 3.75 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 8 | 3.75 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 8 | 3.75 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 8 | 3.75 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 8 | 3.75 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 8 | 3.75 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 8 | 3.75 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 8 | 3.75 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 2 | 3.75 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 2 | 3.75 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 17 | 3.75 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 18 | 3.75 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 15 | 3.75 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 15 | 3.75 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 15 | 3.75 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 2 | 3.75 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 11 | 3.75 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 11 | 3.75 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 4 | 3.75 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 4 | 3.75 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 4 | 3.75 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 4 | 3.75 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 4 | 3.75 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 4 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 5 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 5 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 5 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 9 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 9 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 9 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 18 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 18 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 18 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 20 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 20 | 3.75 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 20 | 3.75 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 7 | 3.75 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 7 | 3.75 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 7 | 3.75 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 12 | 3.75 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 1 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 5 | 3.75 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 9 | 3.75 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 18 | 3.75 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 8 | 3.75 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 15 | 3.75 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 15 | 3.75 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 15 | 3.75 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 20 | 3.75 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 20 | 3.75 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 9 | 3.75 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 10 | 3.75 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 17 | 3.75 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 7 | 3.75 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 12 | 3.75 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 2 | 3.75 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 2 | 3.75 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 2 | 3.75 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 9 | 3.75 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 9 | 3.75 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 9 | 3.75 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 19 | 3.75 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 20 | 3.75 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 19 | 3.75 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 12 | 3.75 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 13 | 3.75 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 15 | 3.75 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 15 | 3.75 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 15 | 3.75 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 14 | 3.75 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 17 | 3.75 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 17 | 3.75 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 17 | 3.75 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 20 | 3.75 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 11 | 3.75 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 4 | 3.75 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 4 | 3.75 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 4 | 3.75 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 20 | 3.75 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 20 | 3.75 |
| (1,6373) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 20 | 3.75 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 17 | 3.75 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 17 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 17 | 3.75 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 7 | 3.75 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 7 | 3.75 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 7 | 3.75 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 11 | 3.75 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 11 | 3.75 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 11 | 3.75 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 13 | 3.75 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 11 | 3.75 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 11 | 3.75 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 11 | 3.75 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 14 | 3.75 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 14 | 3.75 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 14 | 3.75 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 15 | 3.75 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 1 | 3.75 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 1 | 3.75 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 20 | 3.75 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 20 | 3.75 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 20 | 3.75 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 6 | 3.75 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 6 | 3.75 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 15 | 3.75 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 9 | 3.75 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 9 | 3.75 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 9 | 3.75 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 9 | 3.75 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 9 | 3.75 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 12 | 3.75 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 1 | 3.75 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 18 | 3.75 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 1 | 3.75 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 17 | 3.75 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 7 | 3.75 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 7 | 3.75 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 7 | 3.75 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 5 | 3.75 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 13 | 3.75 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 13 | 3.75 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 13 | 3.75 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 13 | 3.75 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 13 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 13 | 3.75 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 18 | 3.75 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 18 | 3.75 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 18 | 3.75 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 7 | 3.75 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 4 | 3.75 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 18 | 3.75 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 9 | 3.75 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 9 | 3.75 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 9 | 3.75 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 17 | 3.75 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 17 | 3.75 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 2 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 8 | 3.75 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 8 | 3.75 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 13 | 3.75 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 13 | 3.75 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 6 | 3.75 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 6 | 3.75 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 6 | 3.75 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 9 | 3.75 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 9 | 3.75 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 9 | 3.75 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 9 | 3.75 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 9 | 3.75 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 9 | 3.75 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 9 | 3.75 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 9 | 3.75 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 9 | 3.75 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 8 | 3.75 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 8 | 3.75 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 8 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 20 | 3.75 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 20 | 3.75 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 20 | 3.75 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 19 | 3.75 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 3 | 3.75 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 7 | 3.75 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 7 | 3.75 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 7 | 3.75 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 6 | 3.75 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 20 | 3.75 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 16 | 3.75 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 16 | 3.75 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 16 | 3.75 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 3.75 |
| (1,5021) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 11 | 3.75 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 17 | 3.75 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 5 | 3.75 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 5 | 3.75 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 5 | 3.75 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 5 | 3.75 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 4 | 3.75 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 6 | 3.75 |
| (1,4709) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 3 | 3.75 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 19 | 3.75 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 19 | 3.75 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 19 | 3.75 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 19 | 3.75 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 19 | 3.75 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 19 | 3.75 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 9 | 3.75 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 9 | 3.75 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 9 | 3.75 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 7 | 3.75 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 7 | 3.75 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 7 | 3.75 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 13 | 3.75 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 13 | 3.75 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 13 | 3.75 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 7 | 3.75 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 17 | 3.75 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 17 | 3.75 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 16 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 7 | 3.75 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 7 | 3.75 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 3.75 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 3.75 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 10 | 3.75 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 10 | 3.75 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 12 | 3.75 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 12 | 3.75 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 13 | 3.75 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 13 | 3.75 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 1 | 3.75 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 1 | 3.75 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 17 | 3.75 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 17 | 3.75 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 17 | 3.75 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 17 | 3.75 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 17 | 3.75 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 17 | 3.75 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 17 | 3.75 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 9 | 3.75 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 7 | 3.75 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 7 | 3.75 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 1 | 3.75 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 1 | 3.75 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 1 | 3.75 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 1 | 3.75 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 16 | 3.75 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 16 | 3.75 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 2 | 3.75 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 2 | 3.75 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 11 | 3.75 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 11 | 3.75 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 11 | 3.75 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 9 | 3.75 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 9 | 3.75 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 9 | 3.75 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 14 | 3.75 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 16 | 3.75 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 16 | 3.75 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 16 | 3.75 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 8 | 3.75 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 15 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 19 | 3.75 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 19 | 3.75 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 20 | 3.75 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 20 | 3.75 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 6 | 3.75 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 18 | 3.75 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 15 | 3.75 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 15 | 3.75 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 1 | 3.75 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 1 | 3.75 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 1 | 3.75 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 8 | 3.75 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 8 | 3.75 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 5 | 3.75 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 5 | 3.75 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 5 | 3.75 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 5 | 3.75 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 5 | 3.75 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 5 | 3.75 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 17 | 3.75 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 17 | 3.75 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 6 | 3.75 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 6 | 3.75 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 6 | 3.75 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 6 | 3.75 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 6 | 3.75 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 7 | 3.75 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 7 | 3.75 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 7 | 3.75 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 12 | 3.75 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 12 | 3.75 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 8 | 3.75 |
| (1,3616) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 8 | 3.75 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 7 | 3.75 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 7 | 3.75 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 15 | 3.75 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 15 | 3.75 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 15 | 3.75 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 15 | 3.75 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 15 | 3.75 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 15 | 3.75 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 3.75 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 3 | 3.75 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 3 | 3.75 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 4 | 3.75 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 4 | 3.75 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 10 | 3.75 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 10 | 3.75 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 10 | 3.75 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 1 | 3.75 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 3 | 3.75 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 5 | 3.75 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 5 | 3.75 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 5 | 3.75 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 3.75 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 5 | 3.75 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 9 | 3.75 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 18 | 3.75 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 15 | 3.75 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 11 | 3.75 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 8 | 3.75 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 15 | 3.75 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 17 | 3.75 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 15 | 3.75 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 15 | 3.75 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 15 | 3.75 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 20 | 3.75 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 20 | 3.75 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 7 | 3.75 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 7 | 3.75 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 3 | 3.75 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 12 | 3.75 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 9 | 3.75 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 10 | 3.75 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 17 | 3.75 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 15 | 3.75 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 7 | 3.75 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 12 | 3.75 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 2 | 3.75 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 2 | 3.75 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 2 | 3.75 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 9 | 3.75 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 9 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 9 | 3.75 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 19 | 3.75 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 14 | 3.75 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 20 | 3.75 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 19 | 3.75 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 12 | 3.75 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 13 | 3.75 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 14 | 3.75 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 12 | 3.75 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 12 | 3.75 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 12 | 3.75 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 15 | 3.75 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 15 | 3.75 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 15 | 3.75 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 18 | 3.75 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 14 | 3.75 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 11 | 3.75 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 7 | 3.75 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 1 | 3.75 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 13 | 3.75 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 13 | 3.75 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 13 | 3.75 |
| (1,2152) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 3 | 3.75 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 17 | 3.75 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 17 | 3.75 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 17 | 3.75 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 20 | 3.75 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 11 | 3.75 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 4 | 3.75 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 4 | 3.75 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 4 | 3.75 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 20 | 3.75 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 20 | 3.75 |
| (1,2070) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 20 | 3.75 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 5 | 3.75 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 17 | 3.75 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 17 | 3.75 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 17 | 3.75 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 7 | 3.75 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 7 | 3.75 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 7 | 3.75 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 11 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 11 | 3.75 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 11 | 3.75 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 13 | 3.75 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 19 | 3.75 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 8 | 3.75 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 8 | 3.75 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 8 | 3.75 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 14 | 3.75 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 14 | 3.75 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 14 | 3.75 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 11 | 3.75 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 11 | 3.75 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 11 | 3.75 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 15 | 3.75 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 14 | 3.75 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 14 | 3.75 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 14 | 3.75 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 15 | 3.75 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 1 | 3.75 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 1 | 3.75 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 20 | 3.75 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 20 | 3.75 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 20 | 3.75 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 4 | 3.75 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 7 | 3.75 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 20 | 3.75 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 6 | 3.75 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 6 | 3.75 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 18 | 3.75 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 15 | 3.75 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 14 | 3.75 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 9 | 3.75 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 9 | 3.75 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 9 | 3.75 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 9 | 3.75 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 9 | 3.75 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 12 | 3.75 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 6 | 3.75 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 10 | 3.75 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 17 | 3.75 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 1 | 3.75 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 18 | 3.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 17 | 3.75 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 5 | 3.75 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 5 | 3.75 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 7 | 3.75 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 7 | 3.75 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 7 | 3.75 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 5 | 3.75 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 13 | 3.75 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 13 | 3.75 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 13 | 3.75 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 13 | 3.75 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 13 | 3.75 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 13 | 3.75 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 18 | 3.75 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 18 | 3.75 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 18 | 3.75 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 7 | 3.75 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 4 | 3.75 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 18 | 3.75 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 9 | 3.75 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 9 | 3.75 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 9 | 3.75 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 17 | 3.75 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 17 | 3.75 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 2 | 3.75 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 1 | 3.75 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 1 | 3.75 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 1 | 3.75 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 14 | 3.75 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 3 | 3.75 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 3 | 3.75 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 3 | 3.75 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 2 | 3.75 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 12 | 3.75 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 11 | 3.75 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 13 | 3.75 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 13 | 3.74 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 9 | 3.74 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 1 | 3.74 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 16 | 3.74 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 16 | 3.74 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 1 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 1 | 3.74 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 17 | 3.74 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 17 | 3.74 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 9 | 3.74 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 9 | 3.74 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 9 | 3.74 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 9 | 3.74 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 9 | 3.74 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 9 | 3.74 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 16 | 3.74 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 16 | 3.74 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 16 | 3.74 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 16 | 3.74 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 16 | 3.74 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 16 | 3.74 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 14 | 3.74 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 14 | 3.74 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 14 | 3.74 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 14 | 3.74 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 14 | 3.74 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 14 | 3.74 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 4 | 3.74 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 4 | 3.74 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 19 | 3.74 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 19 | 3.74 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 10 | 3.74 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 10 | 3.74 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 13 | 3.74 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 13 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 16 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 16 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 16 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 16 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 16 | 3.74 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 16 | 3.74 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 9 | 3.74 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 9 | 3.74 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 8 | 3.74 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 8 | 3.74 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 15 | 3.74 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 15 | 3.74 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 13 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 13 | 3.74 |
| (1,9304) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB3 | 13 | 3.74 |
| (1,9304) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB3 | 13 | 3.74 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 11 | 3.74 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 11 | 3.74 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 11 | 3.74 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 11 | 3.74 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 11 | 3.74 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 11 | 3.74 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 11 | 3.74 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 11 | 3.74 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 11 | 3.74 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 11 | 3.74 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 4 | 3.74 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 4 | 3.74 |
| (1,9215) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HB3 | 6 | 3.74 |
| (1,9215) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HB3 | 6 | 3.74 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 3 | 3.74 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 3 | 3.74 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 7 | 3.74 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 7 | 3.74 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 7 | 3.74 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 7 | 3.74 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 13 | 3.74 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 13 | 3.74 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 6 | 3.74 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 6 | 3.74 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 6 | 3.74 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 6 | 3.74 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 6 | 3.74 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 6 | 3.74 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 9 | 3.74 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 9 | 3.74 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 1 | 3.74 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 1 | 3.74 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 5 | 3.74 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 5 | 3.74 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 20 | 3.74 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 20 | 3.74 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 11 | 3.74 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 11 | 3.74 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 15 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 15 | 3.74 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 15 | 3.74 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 15 | 3.74 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 15 | 3.74 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 15 | 3.74 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 18 | 3.74 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 18 | 3.74 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 20 | 3.74 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 20 | 3.74 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 17 | 3.74 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 17 | 3.74 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 17 | 3.74 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 17 | 3.74 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 3 | 3.74 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 3 | 3.74 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 17 | 3.74 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 17 | 3.74 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 17 | 3.74 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 17 | 3.74 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 3 | 3.74 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 3 | 3.74 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 2 | 3.74 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 2 | 3.74 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 3.74 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 3.74 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 9 | 3.74 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 9 | 3.74 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 13 | 3.74 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 13 | 3.74 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 11 | 3.74 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 11 | 3.74 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 6 | 3.74 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 6 | 3.74 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 6 | 3.74 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 6 | 3.74 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 6 | 3.74 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 6 | 3.74 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 19 | 3.74 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 19 | 3.74 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 9 | 3.74 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 9 | 3.74 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 5 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 5 | 3.74 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 5 | 3.74 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 5 | 3.74 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 3 | 3.74 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 3 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 1 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 1 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 1 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 1 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 1 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 1 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 8 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 8 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 8 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 8 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 8 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 8 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 14 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 14 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 14 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 14 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 14 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 14 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 20 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 20 | 3.74 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 20 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 20 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 20 | 3.74 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 20 | 3.74 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 9 | 3.74 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 3 | 3.74 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 11 | 3.74 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 1 | 3.74 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 1 | 3.74 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 1 | 3.74 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 14 | 3.74 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 14 | 3.74 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 12 | 3.74 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 12 | 3.74 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 18 | 3.74 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 18 | 3.74 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 15 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 15 | 3.74 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 20 | 3.74 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 1 | 3.74 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 16 | 3.74 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 11 | 3.74 |
| (1,8164) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 2 | 3.74 |
| (1,8164) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 2 | 3.74 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 4 | 3.74 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 14 | 3.74 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 14 | 3.74 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 5 | 3.74 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 3 | 3.74 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 16 | 3.74 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 9 | 3.74 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 9 | 3.74 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 9 | 3.74 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 9 | 3.74 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG11 | 15 | 3.74 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG12 | 15 | 3.74 |
| (1,7851) | 1:62:A:VAL:H | 1:62:A:VAL:HG13 | 15 | 3.74 |
| (1,7805) | 1:60:A:LEU:HG | 1:61:A:LEU:H | 9 | 3.74 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 11 | 3.74 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 11 | 3.74 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 11 | 3.74 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 12 | 3.74 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 9 | 3.74 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 9 | 3.74 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 9 | 3.74 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 9 | 3.74 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 9 | 3.74 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 9 | 3.74 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 9 | 3.74 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 1 | 3.74 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 1 | 3.74 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 1 | 3.74 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 1 | 3.74 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 10 | 3.74 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 20 | 3.74 |
| (1,7607) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 8 | 3.74 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 12 | 3.74 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 12 | 3.74 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 12 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 5 | 3.74 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 3 | 3.74 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 19 | 3.74 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 19 | 3.74 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 16 | 3.74 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 16 | 3.74 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 16 | 3.74 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 3 | 3.74 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 3 | 3.74 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 3 | 3.74 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 11 | 3.74 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 11 | 3.74 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 11 | 3.74 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 17 | 3.74 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 17 | 3.74 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 17 | 3.74 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 18 | 3.74 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 18 | 3.74 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 18 | 3.74 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 15 | 3.74 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 15 | 3.74 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 15 | 3.74 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 14 | 3.74 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 14 | 3.74 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 14 | 3.74 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 16 | 3.74 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 17 | 3.74 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 5 | 3.74 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 17 | 3.74 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 17 | 3.74 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 18 | 3.74 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 18 | 3.74 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 18 | 3.74 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 18 | 3.74 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 18 | 3.74 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 18 | 3.74 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 1 | 3.74 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 16 | 3.74 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 16 | 3.74 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 16 | 3.74 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 18 | 3.74 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 11 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 4 | 3.74 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 13 | 3.74 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 13 | 3.74 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 13 | 3.74 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 7 | 3.74 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 7 | 3.74 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 18 | 3.74 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 18 | 3.74 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 15 | 3.74 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 10 | 3.74 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 10 | 3.74 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 10 | 3.74 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 14 | 3.74 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 14 | 3.74 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 14 | 3.74 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 2 | 3.74 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 2 | 3.74 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 2 | 3.74 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 10 | 3.74 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 15 | 3.74 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 15 | 3.74 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 4 | 3.74 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 4 | 3.74 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 4 | 3.74 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 4 | 3.74 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 1 | 3.74 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 12 | 3.74 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 2 | 3.74 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 7 | 3.74 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 5 | 3.74 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 5 | 3.74 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 5 | 3.74 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 8 | 3.74 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 8 | 3.74 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 8 | 3.74 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 8 | 3.74 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 8 | 3.74 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 8 | 3.74 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 8 | 3.74 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 8 | 3.74 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 8 | 3.74 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 18 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 18 | 3.74 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 18 | 3.74 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 19 | 3.74 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 19 | 3.74 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 19 | 3.74 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 16 | 3.74 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 11 | 3.74 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 4 | 3.74 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 4 | 3.74 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 4 | 3.74 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 12 | 3.74 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 12 | 3.74 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 12 | 3.74 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 1 | 3.74 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 11 | 3.74 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 11 | 3.74 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 17 | 3.74 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 17 | 3.74 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 19 | 3.74 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 19 | 3.74 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 19 | 3.74 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 8 | 3.74 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 8 | 3.74 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 8 | 3.74 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 8 | 3.74 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 8 | 3.74 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 8 | 3.74 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 8 | 3.74 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 8 | 3.74 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 8 | 3.74 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 1 | 3.74 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 1 | 3.74 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 1 | 3.74 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 5 | 3.74 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 5 | 3.74 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 5 | 3.74 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 18 | 3.74 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 18 | 3.74 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 4 | 3.74 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 4 | 3.74 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 4 | 3.74 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 7 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 20 | 3.74 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 20 | 3.74 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 20 | 3.74 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 12 | 3.74 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 12 | 3.74 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 12 | 3.74 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 10 | 3.74 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 10 | 3.74 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 10 | 3.74 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 10 | 3.74 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 10 | 3.74 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 10 | 3.74 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 7 | 3.74 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 7 | 3.74 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 7 | 3.74 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 7 | 3.74 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 7 | 3.74 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 7 | 3.74 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 11 | 3.74 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 14 | 3.74 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 19 | 3.74 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 19 | 3.74 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 20 | 3.74 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 15 | 3.74 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 9 | 3.74 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 9 | 3.74 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 5 | 3.74 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 10 | 3.74 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 3 | 3.74 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 3 | 3.74 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 3 | 3.74 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 17 | 3.74 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 16 | 3.74 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 16 | 3.74 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 16 | 3.74 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 20 | 3.74 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 20 | 3.74 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 14 | 3.74 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 14 | 3.74 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 2 | 3.74 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 2 | 3.74 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 2 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 6 | 3.74 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 6 | 3.74 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 6 | 3.74 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 14 | 3.74 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 14 | 3.74 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 14 | 3.74 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 12 | 3.74 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 7 | 3.74 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 7 | 3.74 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 7 | 3.74 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 10 | 3.74 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 18 | 3.74 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 9 | 3.74 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 11 | 3.74 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 11 | 3.74 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 11 | 3.74 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 8 | 3.74 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 8 | 3.74 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 8 | 3.74 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 6 | 3.74 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 6 | 3.74 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 6 | 3.74 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 14 | 3.74 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 14 | 3.74 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 14 | 3.74 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 3 | 3.74 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 3 | 3.74 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 3 | 3.74 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 9 | 3.74 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 9 | 3.74 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 9 | 3.74 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 1 | 3.74 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 1 | 3.74 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 1 | 3.74 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 4 | 3.74 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 4 | 3.74 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 4 | 3.74 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 7 | 3.74 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 7 | 3.74 |
| (1,5312) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 7 | 3.74 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 14 | 3.74 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 17 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 17 | 3.74 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 17 | 3.74 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 18 | 3.74 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 18 | 3.74 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 18 | 3.74 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 18 | 3.74 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 18 | 3.74 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 18 | 3.74 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 18 | 3.74 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 18 | 3.74 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 18 | 3.74 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 20 | 3.74 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 20 | 3.74 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 6 | 3.74 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 6 | 3.74 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 6 | 3.74 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 6 | 3.74 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 6 | 3.74 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 6 | 3.74 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 3 | 3.74 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 1 | 3.74 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 1 | 3.74 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 1 | 3.74 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 12 | 3.74 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 12 | 3.74 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 12 | 3.74 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 9 | 3.74 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 13 | 3.74 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 9 | 3.74 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 9 | 3.74 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 9 | 3.74 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 9 | 3.74 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 9 | 3.74 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 9 | 3.74 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 9 | 3.74 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 9 | 3.74 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 9 | 3.74 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 2 | 3.74 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 2 | 3.74 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 2 | 3.74 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 2 | 3.74 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 4 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 20 | 3.74 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 20 | 3.74 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 6 | 3.74 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 6 | 3.74 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 6 | 3.74 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 8 | 3.74 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 8 | 3.74 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 8 | 3.74 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 17 | 3.74 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 17 | 3.74 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 10 | 3.74 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 10 | 3.74 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 9 | 3.74 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 9 | 3.74 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 9 | 3.74 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 9 | 3.74 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 9 | 3.74 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 9 | 3.74 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 14 | 3.74 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 14 | 3.74 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 14 | 3.74 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 14 | 3.74 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 14 | 3.74 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 14 | 3.74 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 4 | 3.74 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 4 | 3.74 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 19 | 3.74 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 19 | 3.74 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 8 | 3.74 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 8 | 3.74 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 5 | 3.74 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 11 | 3.74 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 11 | 3.74 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 11 | 3.74 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 11 | 3.74 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 11 | 3.74 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 11 | 3.74 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 11 | 3.74 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 11 | 3.74 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 11 | 3.74 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 11 | 3.74 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 15 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 15 | 3.74 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 15 | 3.74 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 4 | 3.74 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 12 | 3.74 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 3.74 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 3 | 3.74 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 3 | 3.74 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 13 | 3.74 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 13 | 3.74 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 13 | 3.74 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 6 | 3.74 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 7 | 3.74 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 7 | 3.74 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 7 | 3.74 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 7 | 3.74 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 6 | 3.74 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 6 | 3.74 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 6 | 3.74 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 6 | 3.74 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 6 | 3.74 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 6 | 3.74 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 4 | 3.74 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 4 | 3.74 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 4 | 3.74 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 4 | 3.74 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 4 | 3.74 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 4 | 3.74 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 1 | 3.74 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 1 | 3.74 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 1 | 3.74 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 9 | 3.74 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 9 | 3.74 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 11 | 3.74 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 11 | 3.74 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 12 | 3.74 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 12 | 3.74 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 12 | 3.74 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 18 | 3.74 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 18 | 3.74 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 20 | 3.74 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 20 | 3.74 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 17 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 17 | 3.74 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 17 | 3.74 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 17 | 3.74 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 7 | 3.74 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 6 | 3.74 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 6 | 3.74 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 6 | 3.74 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 6 | 3.74 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 6 | 3.74 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 6 | 3.74 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 3.74 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 3.74 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 3.74 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 3 | 3.74 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 17 | 3.74 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 17 | 3.74 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 17 | 3.74 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 17 | 3.74 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 11 | 3.74 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 14 | 3.74 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 3.74 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 3.74 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 5 | 3.74 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 8 | 3.74 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 13 | 3.74 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 13 | 3.74 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 11 | 3.74 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 11 | 3.74 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 11 | 3.74 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 11 | 3.74 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 11 | 3.74 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 11 | 3.74 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 6 | 3.74 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 6 | 3.74 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 6 | 3.74 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 6 | 3.74 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 6 | 3.74 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 6 | 3.74 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 13 | 3.74 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 3 | 3.74 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 3 | 3.74 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 18 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 18 | 3.74 |
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 18 | 3.74 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 16 | 3.74 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 18 | 3.74 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 18 | 3.74 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 18 | 3.74 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 1 | 3.74 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 17 | 3.74 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 16 | 3.74 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 16 | 3.74 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 16 | 3.74 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 18 | 3.74 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 5 | 3.74 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 5 | 3.74 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 5 | 3.74 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 11 | 3.74 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 17 | 3.74 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 1 | 3.74 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 17 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 15 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 15 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 15 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 15 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 15 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 15 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 19 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 19 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 19 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 19 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 19 | 3.74 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 19 | 3.74 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 4 | 3.74 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 3 | 3.74 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 13 | 3.74 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 13 | 3.74 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 13 | 3.74 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 13 | 3.74 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 10 | 3.74 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 7 | 3.74 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 7 | 3.74 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 18 | 3.74 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 18 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 2 | 3.74 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 15 | 3.74 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 14 | 3.74 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 15 | 3.74 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 10 | 3.74 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 10 | 3.74 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 10 | 3.74 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 14 | 3.74 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 14 | 3.74 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 14 | 3.74 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 2 | 3.74 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 2 | 3.74 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 2 | 3.74 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 3 | 3.74 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 3 | 3.74 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 10 | 3.74 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 15 | 3.74 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 15 | 3.74 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 4 | 3.74 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 4 | 3.74 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 4 | 3.74 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 2 | 3.74 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 19 | 3.74 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 19 | 3.74 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 19 | 3.74 |
| (1,2618) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 2 | 3.74 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 4 | 3.74 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 11 | 3.74 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 11 | 3.74 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 11 | 3.74 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 1 | 3.74 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 12 | 3.74 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 2 | 3.74 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 7 | 3.74 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 16 | 3.74 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 18 | 3.74 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 5 | 3.74 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 5 | 3.74 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 5 | 3.74 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 8 | 3.74 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 8 | 3.74 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 8 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 8 | 3.74 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 8 | 3.74 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 8 | 3.74 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 8 | 3.74 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 8 | 3.74 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 8 | 3.74 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 18 | 3.74 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 18 | 3.74 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 18 | 3.74 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 19 | 3.74 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 19 | 3.74 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 19 | 3.74 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 16 | 3.74 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 11 | 3.74 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 2 | 3.74 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 4 | 3.74 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 4 | 3.74 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 4 | 3.74 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 12 | 3.74 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 12 | 3.74 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 12 | 3.74 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 1 | 3.74 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 11 | 3.74 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 11 | 3.74 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 17 | 3.74 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 17 | 3.74 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 19 | 3.74 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 19 | 3.74 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 19 | 3.74 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 16 | 3.74 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 8 | 3.74 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 8 | 3.74 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 8 | 3.74 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 8 | 3.74 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 8 | 3.74 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 8 | 3.74 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 8 | 3.74 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 8 | 3.74 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 8 | 3.74 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 4 | 3.74 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 2 | 3.74 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 2 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 2 | 3.74 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 18 | 3.74 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 18 | 3.74 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 18 | 3.74 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 1 | 3.74 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 1 | 3.74 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 1 | 3.74 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 5 | 3.74 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 5 | 3.74 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 5 | 3.74 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 18 | 3.74 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 18 | 3.74 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 4 | 3.74 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 4 | 3.74 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 4 | 3.74 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 5 | 3.74 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 5 | 3.74 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 5 | 3.74 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 7 | 3.74 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 20 | 3.74 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 20 | 3.74 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 20 | 3.74 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 10 | 3.74 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 12 | 3.74 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 12 | 3.74 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 3 | 3.74 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 12 | 3.74 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 12 | 3.74 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 12 | 3.74 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 10 | 3.74 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 10 | 3.74 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 10 | 3.74 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 10 | 3.74 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 10 | 3.74 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 10 | 3.74 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 16 | 3.74 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 16 | 3.74 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 16 | 3.74 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 14 | 3.74 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 14 | 3.74 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 14 | 3.74 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 7 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 7 | 3.74 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 7 | 3.74 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 7 | 3.74 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 7 | 3.74 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 7 | 3.74 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 11 | 3.74 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 14 | 3.74 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 11 | 3.74 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 15 | 3.74 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 19 | 3.74 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 19 | 3.74 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 20 | 3.74 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 15 | 3.74 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 15 | 3.74 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 3 | 3.74 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 17 | 3.74 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 17 | 3.74 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 17 | 3.74 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 9 | 3.74 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 9 | 3.74 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 6 | 3.74 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 9 | 3.74 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 14 | 3.74 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 15 | 3.74 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 18 | 3.74 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 7 | 3.74 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 5 | 3.74 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 10 | 3.74 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 3 | 3.74 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 3 | 3.74 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 3 | 3.74 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 17 | 3.74 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 13 | 3.74 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 5 | 3.74 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 16 | 3.74 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 16 | 3.74 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 16 | 3.74 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 20 | 3.74 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 20 | 3.74 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 11 | 3.74 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 11 | 3.74 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 14 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 20 | 3.74 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 20 | 3.74 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 20 | 3.74 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 20 | 3.74 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 20 | 3.74 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 20 | 3.74 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 14 | 3.74 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 2 | 3.74 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 2 | 3.74 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 2 | 3.74 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 6 | 3.74 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 6 | 3.74 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 6 | 3.74 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 14 | 3.74 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 14 | 3.74 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 14 | 3.74 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 12 | 3.74 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 7 | 3.74 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 7 | 3.74 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 7 | 3.74 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 10 | 3.74 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 18 | 3.74 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 9 | 3.74 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 11 | 3.74 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 11 | 3.74 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 11 | 3.74 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 11 | 3.74 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 11 | 3.74 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 11 | 3.74 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 6 | 3.74 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 20 | 3.74 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 16 | 3.74 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 16 | 3.74 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 16 | 3.74 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 16 | 3.74 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 16 | 3.74 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 16 | 3.74 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 17 | 3.74 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 17 | 3.74 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 19 | 3.74 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 19 | 3.74 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 19 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 18 | 3.74 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 18 | 3.74 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 18 | 3.74 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 14 | 3.74 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 16 | 3.73 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 18 | 3.73 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 19 | 3.73 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 11 | 3.73 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 11 | 3.73 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 6 | 3.73 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 6 | 3.73 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 6 | 3.73 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 6 | 3.73 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 6 | 3.73 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 6 | 3.73 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 15 | 3.73 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 15 | 3.73 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 15 | 3.73 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 15 | 3.73 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 18 | 3.73 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 18 | 3.73 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 9 | 3.73 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 9 | 3.73 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 9 | 3.73 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 9 | 3.73 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 8 | 3.73 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 8 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 5 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 5 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 5 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 5 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 5 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 5 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 7 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 7 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 7 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 7 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 7 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 7 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 20 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 20 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 20 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 20 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 20 | 3.73 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 20 | 3.73 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 4 | 3.73 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 4 | 3.73 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 12 | 3.73 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 12 | 3.73 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 12 | 3.73 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 12 | 3.73 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 20 | 3.73 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 20 | 3.73 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 20 | 3.73 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 20 | 3.73 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 4 | 3.73 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 4 | 3.73 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 4 | 3.73 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 4 | 3.73 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 19 | 3.73 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 19 | 3.73 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 19 | 3.73 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 19 | 3.73 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 19 | 3.73 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 19 | 3.73 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 14 | 3.73 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 14 | 3.73 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 14 | 3.73 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 14 | 3.73 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 14 | 3.73 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 14 | 3.73 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 12 | 3.73 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 12 | 3.73 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 12 | 3.73 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 12 | 3.73 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 7 | 3.73 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 7 | 3.73 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 7 | 3.73 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 7 | 3.73 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 7 | 3.73 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 7 | 3.73 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 7 | 3.73 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 7 | 3.73 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 10 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 10 | 3.73 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 10 | 3.73 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 10 | 3.73 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 10 | 3.73 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 10 | 3.73 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 4 | 3.73 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 4 | 3.73 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 6 | 3.73 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 6 | 3.73 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 7 | 3.73 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 7 | 3.73 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 16 | 3.73 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 16 | 3.73 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 13 | 3.73 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 13 | 3.73 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 13 | 3.73 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 13 | 3.73 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 13 | 3.73 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 13 | 3.73 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 3 | 3.73 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 3 | 3.73 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 9 | 3.73 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 9 | 3.73 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 9 | 3.73 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 9 | 3.73 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 9 | 3.73 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 9 | 3.73 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 8 | 3.73 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 8 | 3.73 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 2 | 3.73 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 2 | 3.73 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 18 | 3.73 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 18 | 3.73 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 18 | 3.73 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 18 | 3.73 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 12 | 3.73 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 12 | 3.73 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 13 | 3.73 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 13 | 3.73 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 13 | 3.73 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 13 | 3.73 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 13 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 13 | 3.73 |
| (1,8575) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 5 | 3.73 |
| (1,8575) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 5 | 3.73 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 6 | 3.73 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 6 | 3.73 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 17 | 3.73 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 17 | 3.73 |
| (1,8522) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 3 | 3.73 |
| (1,8522) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 3 | 3.73 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 16 | 3.73 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 16 | 3.73 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 16 | 3.73 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 12 | 3.73 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 18 | 3.73 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 18 | 3.73 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 6 | 3.73 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 6 | 3.73 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 8 | 3.73 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 8 | 3.73 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 9 | 3.73 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 9 | 3.73 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 5 | 3.73 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 5 | 3.73 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 7 | 3.73 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 13 | 3.73 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 8 | 3.73 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 7 | 3.73 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 5 | 3.73 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 18 | 3.73 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 18 | 3.73 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 18 | 3.73 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 18 | 3.73 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 18 | 3.73 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 18 | 3.73 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 9 | 3.73 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 19 | 3.73 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 19 | 3.73 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 19 | 3.73 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 11 | 3.73 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 11 | 3.73 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 11 | 3.73 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 1 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 15 | 3.73 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 15 | 3.73 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 15 | 3.73 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 5 | 3.73 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 5 | 3.73 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 5 | 3.73 |
| (1,7841) | 1:61:A:LEU:HD11 | 1:113:A:CYS:H | 11 | 3.73 |
| (1,7841) | 1:61:A:LEU:HD12 | 1:113:A:CYS:H | 11 | 3.73 |
| (1,7841) | 1:61:A:LEU:HD13 | 1:113:A:CYS:H | 11 | 3.73 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 17 | 3.73 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 3 | 3.73 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 12 | 3.73 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 12 | 3.73 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 10 | 3.73 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 10 | 3.73 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 4 | 3.73 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 4 | 3.73 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 5 | 3.73 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 5 | 3.73 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 11 | 3.73 |
| (1,7575) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 11 | 3.73 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE1 | 8 | 3.73 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE2 | 8 | 3.73 |
| (1,7534) | 1:15:A:MET:HA | 1:15:A:MET:HE3 | 8 | 3.73 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 17 | 3.73 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 6 | 3.73 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 6 | 3.73 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 6 | 3.73 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 19 | 3.73 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 19 | 3.73 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 5 | 3.73 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 5 | 3.73 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 5 | 3.73 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 10 | 3.73 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 10 | 3.73 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 3 | 3.73 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 7 | 3.73 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 16 | 3.73 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 20 | 3.73 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 16 | 3.73 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 9 | 3.73 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 9 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 9 | 3.73 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 1 | 3.73 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 16 | 3.73 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 1 | 3.73 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 1 | 3.73 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 15 | 3.73 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 15 | 3.73 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 5 | 3.73 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 5 | 3.73 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 5 | 3.73 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 1 | 3.73 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 9 | 3.73 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 18 | 3.73 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 4 | 3.73 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 5 | 3.73 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 13 | 3.73 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 13 | 3.73 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 19 | 3.73 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 19 | 3.73 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 18 | 3.73 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 18 | 3.73 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 18 | 3.73 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 11 | 3.73 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 7 | 3.73 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 18 | 3.73 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 13 | 3.73 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 19 | 3.73 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 14 | 3.73 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 20 | 3.73 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 20 | 3.73 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 20 | 3.73 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 8 | 3.73 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 8 | 3.73 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 8 | 3.73 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 15 | 3.73 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 15 | 3.73 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 15 | 3.73 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 15 | 3.73 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 15 | 3.73 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 15 | 3.73 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 15 | 3.73 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 15 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 15 | 3.73 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 5 | 3.73 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 7 | 3.73 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 7 | 3.73 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 10 | 3.73 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 10 | 3.73 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 18 | 3.73 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 18 | 3.73 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 18 | 3.73 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 14 | 3.73 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 14 | 3.73 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 14 | 3.73 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 14 | 3.73 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 14 | 3.73 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 14 | 3.73 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 14 | 3.73 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 14 | 3.73 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 14 | 3.73 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 16 | 3.73 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 7 | 3.73 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 7 | 3.73 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 7 | 3.73 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 8 | 3.73 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 7 | 3.73 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 7 | 3.73 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 14 | 3.73 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 14 | 3.73 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 19 | 3.73 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 19 | 3.73 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 19 | 3.73 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 4 | 3.73 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 4 | 3.73 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 1 | 3.73 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 1 | 3.73 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 1 | 3.73 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 14 | 3.73 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 14 | 3.73 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 14 | 3.73 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 4 | 3.73 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 14 | 3.73 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 13 | 3.73 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 20 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 20 | 3.73 |
| (1,6088) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 20 | 3.73 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 16 | 3.73 |
| (1,6070) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 16 | 3.73 |
| (1,6060) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 20 | 3.73 |
| (1,6060) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 20 | 3.73 |
| (1,6060) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 20 | 3.73 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 7 | 3.73 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 7 | 3.73 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 7 | 3.73 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 9 | 3.73 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 11 | 3.73 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 11 | 3.73 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 11 | 3.73 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 11 | 3.73 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 11 | 3.73 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 11 | 3.73 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 3.73 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 12 | 3.73 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 12 | 3.73 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 12 | 3.73 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 12 | 3.73 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 12 | 3.73 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 12 | 3.73 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 12 | 3.73 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 12 | 3.73 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 12 | 3.73 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 18 | 3.73 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 18 | 3.73 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 7 | 3.73 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 9 | 3.73 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 9 | 3.73 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 9 | 3.73 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 11 | 3.73 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 11 | 3.73 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 11 | 3.73 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 12 | 3.73 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 12 | 3.73 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 12 | 3.73 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 3 | 3.73 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 4 | 3.73 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 4 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 4 | 3.73 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 11 | 3.73 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 11 | 3.73 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 11 | 3.73 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 18 | 3.73 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 18 | 3.73 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 18 | 3.73 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 20 | 3.73 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 18 | 3.73 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 18 | 3.73 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 18 | 3.73 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 18 | 3.73 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 18 | 3.73 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 18 | 3.73 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 18 | 3.73 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 18 | 3.73 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 18 | 3.73 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 14 | 3.73 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 14 | 3.73 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 14 | 3.73 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 11 | 3.73 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 7 | 3.73 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 12 | 3.73 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 12 | 3.73 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 12 | 3.73 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 9 | 3.73 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 9 | 3.73 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 9 | 3.73 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 9 | 3.73 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 9 | 3.73 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 9 | 3.73 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 9 | 3.73 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 9 | 3.73 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 9 | 3.73 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 13 | 3.73 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 13 | 3.73 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 13 | 3.73 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 13 | 3.73 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 13 | 3.73 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 13 | 3.73 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 12 | 3.73 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 6 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 6 | 3.73 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 6 | 3.73 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 13 | 3.73 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 13 | 3.73 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 13 | 3.73 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 1 | 3.73 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 1 | 3.73 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 1 | 3.73 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 14 | 3.73 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 14 | 3.73 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 14 | 3.73 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 15 | 3.73 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 15 | 3.73 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 11 | 3.73 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 7 | 3.73 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 7 | 3.73 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 15 | 3.73 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 17 | 3.73 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 19 | 3.73 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 12 | 3.73 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 12 | 3.73 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 12 | 3.73 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 14 | 3.73 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 8 | 3.73 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 8 | 3.73 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 8 | 3.73 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 15 | 3.73 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 15 | 3.73 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 15 | 3.73 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 18 | 3.73 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 18 | 3.73 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 18 | 3.73 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 5 | 3.73 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 5 | 3.73 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 5 | 3.73 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 20 | 3.73 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 17 | 3.73 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 7 | 3.73 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 7 | 3.73 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 7 | 3.73 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 9 | 3.73 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 9 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 9 | 3.73 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 13 | 3.73 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 13 | 3.73 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 13 | 3.73 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 15 | 3.73 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 15 | 3.73 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 11 | 3.73 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 11 | 3.73 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 8 | 3.73 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 8 | 3.73 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 8 | 3.73 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 6 | 3.73 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 6 | 3.73 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 6 | 3.73 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 6 | 3.73 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 6 | 3.73 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 6 | 3.73 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 15 | 3.73 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 15 | 3.73 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 15 | 3.73 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 15 | 3.73 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 7 | 3.73 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 18 | 3.73 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 18 | 3.73 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 13 | 3.73 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 13 | 3.73 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 9 | 3.73 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 9 | 3.73 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 9 | 3.73 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 9 | 3.73 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 20 | 3.73 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 20 | 3.73 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 20 | 3.73 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 20 | 3.73 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 20 | 3.73 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 20 | 3.73 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 4 | 3.73 |
| (1,4346) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 8 | 3.73 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 17 | 3.73 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 14 | 3.73 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 14 | 3.73 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 14 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 14 | 3.73 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 14 | 3.73 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 14 | 3.73 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 5 | 3.73 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 5 | 3.73 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 5 | 3.73 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 5 | 3.73 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 5 | 3.73 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 5 | 3.73 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 3 | 3.73 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 3 | 3.73 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 3 | 3.73 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 7 | 3.73 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 7 | 3.73 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 10 | 3.73 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 10 | 3.73 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 10 | 3.73 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 10 | 3.73 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 10 | 3.73 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 10 | 3.73 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 4 | 3.73 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 4 | 3.73 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 6 | 3.73 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 6 | 3.73 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 7 | 3.73 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 7 | 3.73 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 16 | 3.73 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 16 | 3.73 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 5 | 3.73 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 4 | 3.73 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 10 | 3.73 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 10 | 3.73 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 10 | 3.73 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 10 | 3.73 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 10 | 3.73 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 10 | 3.73 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 12 | 3.73 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 2 | 3.73 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 2 | 3.73 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 2 | 3.73 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 10 | 3.73 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 2 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 2 | 3.73 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 11 | 3.73 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 11 | 3.73 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 12 | 3.73 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 12 | 3.73 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 6 | 3.73 |
| (1,3624) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 6 | 3.73 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 13 | 3.73 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 13 | 3.73 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 13 | 3.73 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 13 | 3.73 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 13 | 3.73 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 13 | 3.73 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 2 | 3.73 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 2 | 3.73 |
| (1,3526) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 5 | 3.73 |
| (1,3526) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 5 | 3.73 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 17 | 3.73 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 17 | 3.73 |
| (1,3488) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 3 | 3.73 |
| (1,3488) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 3 | 3.73 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 7 | 3.73 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 19 | 3.73 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 9 | 3.73 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 9 | 3.73 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 9 | 3.73 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 18 | 3.73 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 18 | 3.73 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 18 | 3.73 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 16 | 3.73 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 20 | 3.73 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 12 | 3.73 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 7 | 3.73 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 16 | 3.73 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 9 | 3.73 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 9 | 3.73 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 9 | 3.73 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 7 | 3.73 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 1 | 3.73 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 16 | 3.73 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 1 | 3.73 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 1 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 15 | 3.73 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 15 | 3.73 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 5 | 3.73 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 5 | 3.73 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 5 | 3.73 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 1 | 3.73 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 9 | 3.73 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 18 | 3.73 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 4 | 3.73 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 5 | 3.73 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 11 | 3.73 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 11 | 3.73 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 13 | 3.73 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 13 | 3.73 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 19 | 3.73 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 19 | 3.73 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 2 | 3.73 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 18 | 3.73 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 18 | 3.73 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 18 | 3.73 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 16 | 3.73 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 16 | 3.73 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 16 | 3.73 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 11 | 3.73 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 7 | 3.73 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 8 | 3.73 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 8 | 3.73 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 8 | 3.73 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 18 | 3.73 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 13 | 3.73 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 19 | 3.73 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 14 | 3.73 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 20 | 3.73 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 10 | 3.73 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 2 | 3.73 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 15 | 3.73 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 20 | 3.73 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 20 | 3.73 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 20 | 3.73 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 8 | 3.73 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 8 | 3.73 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 8 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 12 | 3.73 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 12 | 3.73 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 12 | 3.73 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 8 | 3.73 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 8 | 3.73 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 8 | 3.73 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 1 | 3.73 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 8 | 3.73 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 8 | 3.73 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 8 | 3.73 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 9 | 3.73 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 9 | 3.73 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 9 | 3.73 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 15 | 3.73 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 15 | 3.73 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 15 | 3.73 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 15 | 3.73 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 15 | 3.73 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 15 | 3.73 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 15 | 3.73 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 15 | 3.73 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 15 | 3.73 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 5 | 3.73 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 16 | 3.73 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 16 | 3.73 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 16 | 3.73 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 7 | 3.73 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 7 | 3.73 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 10 | 3.73 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 10 | 3.73 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 18 | 3.73 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 18 | 3.73 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 18 | 3.73 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 14 | 3.73 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 14 | 3.73 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 14 | 3.73 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 14 | 3.73 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 14 | 3.73 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 14 | 3.73 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 14 | 3.73 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 14 | 3.73 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 14 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 16 | 3.73 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 12 | 3.73 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 12 | 3.73 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 12 | 3.73 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 16 | 3.73 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 16 | 3.73 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 16 | 3.73 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 7 | 3.73 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 7 | 3.73 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 7 | 3.73 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 8 | 3.73 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 7 | 3.73 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 7 | 3.73 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 7 | 3.73 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 14 | 3.73 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 14 | 3.73 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 19 | 3.73 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 19 | 3.73 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 19 | 3.73 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 4 | 3.73 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 4 | 3.73 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 1 | 3.73 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 1 | 3.73 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 1 | 3.73 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 14 | 3.73 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 14 | 3.73 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 14 | 3.73 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 4 | 3.73 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 14 | 3.73 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 13 | 3.73 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 20 | 3.73 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 20 | 3.73 |
| (1,1660) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 20 | 3.73 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 16 | 3.73 |
| (1,1634) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 16 | 3.73 |
| (1,1622) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 20 | 3.73 |
| (1,1622) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 20 | 3.73 |
| (1,1622) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 20 | 3.73 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 7 | 3.73 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 7 | 3.73 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 7 | 3.73 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 9 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 11 | 3.73 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 11 | 3.73 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 11 | 3.73 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 11 | 3.73 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 11 | 3.73 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 11 | 3.73 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 10 | 3.73 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 10 | 3.73 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 10 | 3.73 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 1 | 3.73 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 1 | 3.73 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 1 | 3.73 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 5 | 3.73 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 5 | 3.73 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 5 | 3.73 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 9 | 3.73 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 9 | 3.73 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 9 | 3.73 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 9 | 3.73 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 9 | 3.73 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 9 | 3.73 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 7 | 3.73 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 2 | 3.73 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 2 | 3.73 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 2 | 3.73 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 3.73 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 17 | 3.73 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 12 | 3.73 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 12 | 3.73 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 12 | 3.73 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 12 | 3.73 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 12 | 3.73 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 12 | 3.73 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 12 | 3.73 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 12 | 3.73 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 12 | 3.73 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 18 | 3.73 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 18 | 3.73 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 2 | 3.73 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 3 | 3.73 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 7 | 3.73 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 19 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 9 | 3.73 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 14 | 3.73 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 18 | 3.73 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 7 | 3.73 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 9 | 3.73 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 9 | 3.73 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 9 | 3.73 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 11 | 3.73 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 11 | 3.73 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 11 | 3.73 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 12 | 3.73 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 12 | 3.73 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 12 | 3.73 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 10 | 3.73 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 3 | 3.73 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 1 | 3.73 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 1 | 3.73 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 1 | 3.73 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 4 | 3.73 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 4 | 3.73 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 4 | 3.73 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 11 | 3.73 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 11 | 3.73 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 11 | 3.73 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 19 | 3.73 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 2 | 3.73 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 18 | 3.73 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 12 | 3.73 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 12 | 3.73 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 12 | 3.73 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 12 | 3.73 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 12 | 3.73 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 12 | 3.73 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 12 | 3.73 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 12 | 3.73 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 12 | 3.73 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 18 | 3.73 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 18 | 3.73 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 18 | 3.73 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 7 | 3.73 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 6 | 3.73 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 6 | 3.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 6 | 3.73 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 18 | 3.73 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 1 | 3.73 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 1 | 3.73 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 1 | 3.73 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 9 | 3.73 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 9 | 3.73 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 9 | 3.73 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 16 | 3.73 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 16 | 3.73 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 16 | 3.73 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 20 | 3.72 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 8 | 3.72 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 4 | 3.72 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 5 | 3.72 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 5 | 3.72 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 17 | 3.72 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 17 | 3.72 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 1 | 3.72 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 1 | 3.72 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 2 | 3.72 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 2 | 3.72 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 2 | 3.72 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 2 | 3.72 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 3.72 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 3.72 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 12 | 3.72 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 12 | 3.72 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 2 | 3.72 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 2 | 3.72 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 2 | 3.72 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 2 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 11 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 11 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 11 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 11 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 11 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 11 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 12 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 12 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 12 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 12 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 12 | 3.72 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 12 | 3.72 |
| (1,9378) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 5 | 3.72 |
| (1,9378) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 5 | 3.72 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 12 | 3.72 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 12 | 3.72 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 17 | 3.72 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 17 | 3.72 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 5 | 3.72 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 5 | 3.72 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 5 | 3.72 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 5 | 3.72 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 5 | 3.72 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 5 | 3.72 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 19 | 3.72 |
| (1,9312) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 19 | 3.72 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 3 | 3.72 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 3 | 3.72 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 3 | 3.72 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 3 | 3.72 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 17 | 3.72 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 17 | 3.72 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 17 | 3.72 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 17 | 3.72 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 15 | 3.72 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 15 | 3.72 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 15 | 3.72 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 15 | 3.72 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 14 | 3.72 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 14 | 3.72 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 17 | 3.72 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 17 | 3.72 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 13 | 3.72 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 13 | 3.72 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 13 | 3.72 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 13 | 3.72 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 3 | 3.72 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 3 | 3.72 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 7 | 3.72 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 7 | 3.72 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 10 | 3.72 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 10 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 14 | 3.72 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 14 | 3.72 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 13 | 3.72 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 13 | 3.72 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 15 | 3.72 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 15 | 3.72 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 1 | 3.72 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 1 | 3.72 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 3 | 3.72 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 3 | 3.72 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 8 | 3.72 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 8 | 3.72 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 8 | 3.72 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 8 | 3.72 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 8 | 3.72 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 8 | 3.72 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 7 | 3.72 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 7 | 3.72 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 15 | 3.72 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 15 | 3.72 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 15 | 3.72 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 15 | 3.72 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 14 | 3.72 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 14 | 3.72 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 14 | 3.72 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 14 | 3.72 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 17 | 3.72 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 17 | 3.72 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 5 | 3.72 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 5 | 3.72 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 5 | 3.72 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 5 | 3.72 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 5 | 3.72 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 5 | 3.72 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 17 | 3.72 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 17 | 3.72 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 17 | 3.72 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 17 | 3.72 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 17 | 3.72 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 17 | 3.72 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 15 | 3.72 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 15 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 15 | 3.72 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 15 | 3.72 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 13 | 3.72 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 13 | 3.72 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 1 | 3.72 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 1 | 3.72 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 1 | 3.72 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 1 | 3.72 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 1 | 3.72 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 1 | 3.72 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 19 | 3.72 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 19 | 3.72 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 19 | 3.72 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 19 | 3.72 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 19 | 3.72 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 19 | 3.72 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 6 | 3.72 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 6 | 3.72 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 3 | 3.72 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 3 | 3.72 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 7 | 3.72 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 7 | 3.72 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 7 | 3.72 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 7 | 3.72 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 15 | 3.72 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 15 | 3.72 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 15 | 3.72 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 15 | 3.72 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 15 | 3.72 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 15 | 3.72 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 18 | 3.72 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 18 | 3.72 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 18 | 3.72 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 2 | 3.72 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 16 | 3.72 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 12 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 6 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 6 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 6 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 6 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 6 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 6 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 8 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 8 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 8 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 8 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 8 | 3.72 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 8 | 3.72 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 12 | 3.72 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 3 | 3.72 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 16 | 3.72 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 17 | 3.72 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 17 | 3.72 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 3 | 3.72 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 3 | 3.72 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 4 | 3.72 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 4 | 3.72 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB2 | 11 | 3.72 |
| (1,8233) | 1:113:A:CYS:HA | 1:114:A:SER:HB3 | 11 | 3.72 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 14 | 3.72 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 14 | 3.72 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 14 | 3.72 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 14 | 3.72 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 14 | 3.72 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 14 | 3.72 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 14 | 3.72 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 14 | 3.72 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 14 | 3.72 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 7 | 3.72 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 3 | 3.72 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 3 | 3.72 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 3 | 3.72 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 13 | 3.72 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 13 | 3.72 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 13 | 3.72 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 5 | 3.72 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 18 | 3.72 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 4 | 3.72 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 4 | 3.72 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 4 | 3.72 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 19 | 3.72 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 19 | 3.72 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 19 | 3.72 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 1 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 1 | 3.72 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 19 | 3.72 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 17 | 3.72 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 14 | 3.72 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 14 | 3.72 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 14 | 3.72 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 4 | 3.72 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 4 | 3.72 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 4 | 3.72 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD11 | 5 | 3.72 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD12 | 5 | 3.72 |
| (1,7836) | 1:61:A:LEU:H | 1:61:A:LEU:HD13 | 5 | 3.72 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 19 | 3.72 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 19 | 3.72 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 19 | 3.72 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 19 | 3.72 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 19 | 3.72 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 19 | 3.72 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 19 | 3.72 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 19 | 3.72 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 19 | 3.72 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 4 | 3.72 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 4 | 3.72 |
| (1,7754) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 3 | 3.72 |
| (1,7754) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 3 | 3.72 |
| (1,7754) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 3 | 3.72 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB1 | 12 | 3.72 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB2 | 12 | 3.72 |
| (1,7745) | 1:55:A:VAL:HG21 | 1:124:A:ALA:HB3 | 12 | 3.72 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB1 | 12 | 3.72 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB2 | 12 | 3.72 |
| (1,7745) | 1:55:A:VAL:HG22 | 1:124:A:ALA:HB3 | 12 | 3.72 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB1 | 12 | 3.72 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB2 | 12 | 3.72 |
| (1,7745) | 1:55:A:VAL:HG23 | 1:124:A:ALA:HB3 | 12 | 3.72 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 15 | 3.72 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 19 | 3.72 |
| (1,7596) | 1:25:A:PHE:HE1 | 1:30:A:ASN:H | 14 | 3.72 |
| (1,7596) | 1:25:A:PHE:HE2 | 1:30:A:ASN:H | 14 | 3.72 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 6 | 3.72 |
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 6 | 3.72 |
| (1,7590) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB2 | 20 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7590) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB2 | 20 | 3.72 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 18 | 3.72 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 18 | 3.72 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 18 | 3.72 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 10 | 3.72 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 10 | 3.72 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 7 | 3.72 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 16 | 3.72 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 1 | 3.72 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 7 | 3.72 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 7 | 3.72 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 4 | 3.72 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 4 | 3.72 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 4 | 3.72 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 18 | 3.72 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 18 | 3.72 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 18 | 3.72 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 7 | 3.72 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 7 | 3.72 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 7 | 3.72 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 7 | 3.72 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 7 | 3.72 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 7 | 3.72 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 7 | 3.72 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 6 | 3.72 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 14 | 3.72 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 14 | 3.72 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 5 | 3.72 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 1 | 3.72 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 1 | 3.72 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 1 | 3.72 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 3 | 3.72 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 7 | 3.72 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 7 | 3.72 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 7 | 3.72 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 7 | 3.72 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 7 | 3.72 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 7 | 3.72 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 17 | 3.72 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 17 | 3.72 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 17 | 3.72 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 1 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 1 | 3.72 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 1 | 3.72 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 3 | 3.72 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 3 | 3.72 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 3 | 3.72 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 3 | 3.72 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 7 | 3.72 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 7 | 3.72 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 7 | 3.72 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 7 | 3.72 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 7 | 3.72 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 7 | 3.72 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 7 | 3.72 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 7 | 3.72 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 7 | 3.72 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 7 | 3.72 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 16 | 3.72 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 20 | 3.72 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 18 | 3.72 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 11 | 3.72 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 10 | 3.72 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 4 | 3.72 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 7 | 3.72 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 15 | 3.72 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 8 | 3.72 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 13 | 3.72 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 1 | 3.72 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 1 | 3.72 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 1 | 3.72 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 1 | 3.72 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 11 | 3.72 |
| (1,6343) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 10 | 3.72 |
| (1,6343) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 10 | 3.72 |
| (1,6343) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 10 | 3.72 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 17 | 3.72 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 17 | 3.72 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 17 | 3.72 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 3 | 3.72 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 3 | 3.72 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 3 | 3.72 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 7 | 3.72 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 7 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 7 | 3.72 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 6 | 3.72 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 6 | 3.72 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 6 | 3.72 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 6 | 3.72 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 6 | 3.72 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 6 | 3.72 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 2 | 3.72 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 2 | 3.72 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 2 | 3.72 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 5 | 3.72 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 2 | 3.72 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 2 | 3.72 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 17 | 3.72 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 16 | 3.72 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 16 | 3.72 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 2 | 3.72 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 1 | 3.72 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 19 | 3.72 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 1 | 3.72 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 1 | 3.72 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 1 | 3.72 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 7 | 3.72 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 7 | 3.72 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 10 | 3.72 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 10 | 3.72 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 11 | 3.72 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 8 | 3.72 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 8 | 3.72 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 2 | 3.72 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 2 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 2 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 2 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 2 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 3 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 3 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 3 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 7 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 7 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 7 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 12 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 12 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 12 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 13 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 13 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 13 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 15 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 15 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 15 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 18 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 18 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 18 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 20 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 20 | 3.72 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 20 | 3.72 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 18 | 3.72 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 18 | 3.72 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 18 | 3.72 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 18 | 3.72 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 19 | 3.72 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 3 | 3.72 |
| (1,5707) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 2 | 3.72 |
| (1,5707) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 2 | 3.72 |
| (1,5707) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 2 | 3.72 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 8 | 3.72 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 13 | 3.72 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 19 | 3.72 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 19 | 3.72 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 19 | 3.72 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 19 | 3.72 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 19 | 3.72 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 19 | 3.72 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 14 | 3.72 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 14 | 3.72 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 10 | 3.72 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 5 | 3.72 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 5 | 3.72 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 5 | 3.72 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 5 | 3.72 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 5 | 3.72 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 5 | 3.72 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 5 | 3.72 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 5 | 3.72 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 5 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 13 | 3.72 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 13 | 3.72 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 13 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 10 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 10 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 10 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 15 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 15 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 15 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 17 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 17 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 17 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 19 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 19 | 3.72 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 19 | 3.72 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 17 | 3.72 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 16 | 3.72 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 16 | 3.72 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 16 | 3.72 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 16 | 3.72 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 10 | 3.72 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 10 | 3.72 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 10 | 3.72 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 11 | 3.72 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 11 | 3.72 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 11 | 3.72 |
| (1,5290) | 1:85:A:ALA:H | 1:87:A:GLU:H | 17 | 3.72 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 11 | 3.72 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 11 | 3.72 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 11 | 3.72 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 16 | 3.72 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 16 | 3.72 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 16 | 3.72 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 19 | 3.72 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 19 | 3.72 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 19 | 3.72 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 14 | 3.72 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 14 | 3.72 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 14 | 3.72 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 2 | 3.72 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 2 | 3.72 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 2 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 19 | 3.72 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 19 | 3.72 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 19 | 3.72 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 14 | 3.72 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 14 | 3.72 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 14 | 3.72 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 15 | 3.72 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 1 | 3.72 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 1 | 3.72 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 15 | 3.72 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 17 | 3.72 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 17 | 3.72 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 17 | 3.72 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 4 | 3.72 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 4 | 3.72 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 4 | 3.72 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 20 | 3.72 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 20 | 3.72 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 20 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 2 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 2 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 2 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 2 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 2 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 2 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 2 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 2 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 2 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 20 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 20 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 20 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 20 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 20 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 20 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 20 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 20 | 3.72 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 20 | 3.72 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 11 | 3.72 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 11 | 3.72 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 11 | 3.72 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 2 | 3.72 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 2 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 2 | 3.72 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 16 | 3.72 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 16 | 3.72 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 16 | 3.72 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 20 | 3.72 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 20 | 3.72 |
| (1,4638) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 20 | 3.72 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 5 | 3.72 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 5 | 3.72 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 1 | 3.72 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 1 | 3.72 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 3.72 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 3.72 |
| (1,4374) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 5 | 3.72 |
| (1,4374) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 5 | 3.72 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 12 | 3.72 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 12 | 3.72 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 16 | 3.72 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 16 | 3.72 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 16 | 3.72 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 16 | 3.72 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 16 | 3.72 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 16 | 3.72 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 3 | 3.72 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 16 | 3.72 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 17 | 3.72 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 17 | 3.72 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 1 | 3.72 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 1 | 3.72 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 9 | 3.72 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 15 | 3.72 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 15 | 3.72 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 9 | 3.72 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 9 | 3.72 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 9 | 3.72 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 3 | 3.72 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 3 | 3.72 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 18 | 3.72 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 18 | 3.72 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 8 | 3.72 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 13 | 3.72 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 13 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 13 | 3.72 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 13 | 3.72 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 6 | 3.72 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 6 | 3.72 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 6 | 3.72 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 6 | 3.72 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 6 | 3.72 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 6 | 3.72 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 10 | 3.72 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 10 | 3.72 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 10 | 3.72 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 10 | 3.72 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 10 | 3.72 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 10 | 3.72 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 15 | 3.72 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 15 | 3.72 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 3 | 3.72 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 7 | 3.72 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 7 | 3.72 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 14 | 3.72 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 14 | 3.72 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 14 | 3.72 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 14 | 3.72 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 5 | 3.72 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 5 | 3.72 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 5 | 3.72 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 5 | 3.72 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 5 | 3.72 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 5 | 3.72 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 3 | 3.72 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 3 | 3.72 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 3 | 3.72 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 3 | 3.72 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 3 | 3.72 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 3 | 3.72 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 1 | 3.72 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 1 | 3.72 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 1 | 3.72 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 1 | 3.72 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 1 | 3.72 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 1 | 3.72 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 3 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 3 | 3.72 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 11 | 3.72 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 11 | 3.72 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 2 | 3.72 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 10 | 3.72 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 8 | 3.72 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 7 | 3.72 |
| (1,3320) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 4 | 3.72 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 6 | 3.72 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 1 | 3.72 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 1 | 3.72 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 14 | 3.72 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 14 | 3.72 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 5 | 3.72 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 1 | 3.72 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 1 | 3.72 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 1 | 3.72 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 1 | 3.72 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 20 | 3.72 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 3 | 3.72 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 7 | 3.72 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 7 | 3.72 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 7 | 3.72 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 7 | 3.72 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 7 | 3.72 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 7 | 3.72 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 17 | 3.72 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 17 | 3.72 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 17 | 3.72 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 12 | 3.72 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 12 | 3.72 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 12 | 3.72 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 1 | 3.72 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 1 | 3.72 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 1 | 3.72 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 7 | 3.72 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 7 | 3.72 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 7 | 3.72 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 7 | 3.72 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 7 | 3.72 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 7 | 3.72 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 7 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 7 | 3.72 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 7 | 3.72 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 7 | 3.72 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 16 | 3.72 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 20 | 3.72 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 18 | 3.72 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 11 | 3.72 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 10 | 3.72 |
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 4 | 3.72 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 7 | 3.72 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 15 | 3.72 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 8 | 3.72 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 13 | 3.72 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 19 | 3.72 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 3 | 3.72 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 3 | 3.72 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 3 | 3.72 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 14 | 3.72 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 15 | 3.72 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 3.72 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 3.72 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 3.72 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 1 | 3.72 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 1 | 3.72 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 1 | 3.72 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 1 | 3.72 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 11 | 3.72 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 18 | 3.72 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 18 | 3.72 |
| (1,2022) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 10 | 3.72 |
| (1,2022) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 10 | 3.72 |
| (1,2022) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 10 | 3.72 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 18 | 3.72 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 18 | 3.72 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 18 | 3.72 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 17 | 3.72 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 17 | 3.72 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 17 | 3.72 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 3.72 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 3.72 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 3.72 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 3 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 3 | 3.72 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 3 | 3.72 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 3 | 3.72 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 3 | 3.72 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 3 | 3.72 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 7 | 3.72 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 7 | 3.72 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 7 | 3.72 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 9 | 3.72 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 9 | 3.72 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 9 | 3.72 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 6 | 3.72 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 6 | 3.72 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 6 | 3.72 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 6 | 3.72 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 6 | 3.72 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 6 | 3.72 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 2 | 3.72 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 2 | 3.72 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 2 | 3.72 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 14 | 3.72 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 14 | 3.72 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 14 | 3.72 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 14 | 3.72 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 5 | 3.72 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 17 | 3.72 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 2 | 3.72 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 2 | 3.72 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 17 | 3.72 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 2 | 3.72 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 2 | 3.72 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 2 | 3.72 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 16 | 3.72 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 16 | 3.72 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 2 | 3.72 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 1 | 3.72 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 19 | 3.72 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 1 | 3.72 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 1 | 3.72 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 1 | 3.72 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 3 | 3.72 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 3 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 3 | 3.72 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 3 | 3.72 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 3 | 3.72 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 3 | 3.72 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 7 | 3.72 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 7 | 3.72 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 10 | 3.72 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 10 | 3.72 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 11 | 3.72 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 11 | 3.72 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 11 | 3.72 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 11 | 3.72 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 8 | 3.72 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 8 | 3.72 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 14 | 3.72 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 6 | 3.72 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 2 | 3.72 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 2 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 2 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 2 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 2 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 3 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 3 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 3 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 7 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 7 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 7 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 12 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 12 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 12 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 13 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 13 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 13 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 15 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 15 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 15 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 18 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 18 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 18 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 20 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 20 | 3.72 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 20 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 18 | 3.72 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 18 | 3.72 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 18 | 3.72 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 18 | 3.72 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 19 | 3.72 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 12 | 3.72 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 13 | 3.72 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 11 | 3.72 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 3 | 3.72 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 1 | 3.72 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 10 | 3.72 |
| (1,986) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 2 | 3.72 |
| (1,986) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 2 | 3.72 |
| (1,986) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 2 | 3.72 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 18 | 3.72 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 18 | 3.72 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 18 | 3.72 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 8 | 3.72 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 13 | 3.72 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 20 | 3.72 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 20 | 3.72 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 20 | 3.72 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 20 | 3.72 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 20 | 3.72 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 20 | 3.72 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 19 | 3.72 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 19 | 3.72 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 19 | 3.72 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 19 | 3.72 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 19 | 3.72 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 19 | 3.72 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 11 | 3.72 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 14 | 3.72 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 14 | 3.72 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 10 | 3.72 |
| (1,782) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 13 | 3.72 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 5 | 3.72 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 5 | 3.72 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 5 | 3.72 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 5 | 3.72 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 5 | 3.72 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 5 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 5 | 3.72 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 5 | 3.72 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 5 | 3.72 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 13 | 3.72 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 13 | 3.72 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 13 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 10 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 10 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 10 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 15 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 15 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 15 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 17 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 17 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 17 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 19 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 19 | 3.72 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 19 | 3.72 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 12 | 3.72 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 17 | 3.72 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 7 | 3.72 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 7 | 3.72 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 7 | 3.72 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 16 | 3.72 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 16 | 3.72 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 16 | 3.72 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 16 | 3.72 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 16 | 3.72 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 16 | 3.72 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 16 | 3.72 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 16 | 3.72 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 16 | 3.72 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 5 | 3.72 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 5 | 3.72 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 5 | 3.72 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 5 | 3.72 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 5 | 3.72 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 5 | 3.72 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 5 | 3.72 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 5 | 3.72 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 5 | 3.72 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 16 | 3.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 10 | 3.72 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 14 | 3.72 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 14 | 3.72 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 14 | 3.72 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 14 | 3.72 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 10 | 3.71 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 15 | 3.71 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 13 | 3.71 |
| (4,46) | 1:15:A:MET:CB | 1:99:A:GLY:H | 13 | 3.71 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 15 | 3.71 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 15 | 3.71 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 7 | 3.71 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 7 | 3.71 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.71 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 3.71 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 10 | 3.71 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 10 | 3.71 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 10 | 3.71 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 10 | 3.71 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 10 | 3.71 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 10 | 3.71 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 18 | 3.71 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 18 | 3.71 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 18 | 3.71 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 18 | 3.71 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 3 | 3.71 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 3 | 3.71 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 3 | 3.71 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 3 | 3.71 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 15 | 3.71 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 15 | 3.71 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 15 | 3.71 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 15 | 3.71 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 18 | 3.71 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 18 | 3.71 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 18 | 3.71 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 18 | 3.71 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 18 | 3.71 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 18 | 3.71 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 14 | 3.71 |
| (1,9340) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 14 | 3.71 |
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 14 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9340) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 14 | 3.71 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 18 | 3.71 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 18 | 3.71 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 19 | 3.71 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 19 | 3.71 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 19 | 3.71 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 19 | 3.71 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 9 | 3.71 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 9 | 3.71 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 9 | 3.71 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 9 | 3.71 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 9 | 3.71 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 9 | 3.71 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 11 | 3.71 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 11 | 3.71 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 11 | 3.71 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 11 | 3.71 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 9 | 3.71 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 9 | 3.71 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 9 | 3.71 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 9 | 3.71 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 9 | 3.71 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 9 | 3.71 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 1 | 3.71 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 1 | 3.71 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 20 | 3.71 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 20 | 3.71 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 12 | 3.71 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 12 | 3.71 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 7 | 3.71 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 7 | 3.71 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 15 | 3.71 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 15 | 3.71 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 17 | 3.71 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 17 | 3.71 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 17 | 3.71 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 17 | 3.71 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 17 | 3.71 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 17 | 3.71 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 4 | 3.71 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 4 | 3.71 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 3 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 3 | 3.71 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 6 | 3.71 |
| (1,8950) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 6 | 3.71 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 20 | 3.71 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 20 | 3.71 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 20 | 3.71 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 20 | 3.71 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 20 | 3.71 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 20 | 3.71 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 3 | 3.71 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 3 | 3.71 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 18 | 3.71 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 18 | 3.71 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 18 | 3.71 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 18 | 3.71 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 12 | 3.71 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 12 | 3.71 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 12 | 3.71 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 12 | 3.71 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 12 | 3.71 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 12 | 3.71 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 18 | 3.71 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 18 | 3.71 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 18 | 3.71 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 18 | 3.71 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 18 | 3.71 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 18 | 3.71 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 13 | 3.71 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 13 | 3.71 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 20 | 3.71 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 20 | 3.71 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 20 | 3.71 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 20 | 3.71 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 2 | 3.71 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 2 | 3.71 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 2 | 3.71 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 2 | 3.71 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 4 | 3.71 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 4 | 3.71 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 4 | 3.71 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 4 | 3.71 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 4 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 4 | 3.71 |
| (1,8622) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 10 | 3.71 |
| (1,8622) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 10 | 3.71 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 9 | 3.71 |
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 9 | 3.71 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 2 | 3.71 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 2 | 3.71 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 13 | 3.71 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 19 | 3.71 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 20 | 3.71 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 8 | 3.71 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 10 | 3.71 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 11 | 3.71 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 7 | 3.71 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 7 | 3.71 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 15 | 3.71 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 15 | 3.71 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 15 | 3.71 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 15 | 3.71 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 15 | 3.71 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 15 | 3.71 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 6 | 3.71 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 15 | 3.71 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 12 | 3.71 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 12 | 3.71 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 12 | 3.71 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 13 | 3.71 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 13 | 3.71 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 13 | 3.71 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 13 | 3.71 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 13 | 3.71 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 13 | 3.71 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 13 | 3.71 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 13 | 3.71 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 13 | 3.71 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 13 | 3.71 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 15 | 3.71 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 15 | 3.71 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 18 | 3.71 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 18 | 3.71 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 18 | 3.71 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 14 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 7 | 3.71 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 12 | 3.71 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 15 | 3.71 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 15 | 3.71 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 17 | 3.71 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 17 | 3.71 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 2 | 3.71 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 2 | 3.71 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 2 | 3.71 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 2 | 3.71 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 11 | 3.71 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 17 | 3.71 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 12 | 3.71 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 12 | 3.71 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 12 | 3.71 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 18 | 3.71 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 18 | 3.71 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 1 | 3.71 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 7 | 3.71 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 19 | 3.71 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 14 | 3.71 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 20 | 3.71 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 5 | 3.71 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 5 | 3.71 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 5 | 3.71 |
| (1,7249) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 16 | 3.71 |
| (1,7249) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 16 | 3.71 |
| (1,7249) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 16 | 3.71 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 20 | 3.71 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 2 | 3.71 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 17 | 3.71 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 14 | 3.71 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 9 | 3.71 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 9 | 3.71 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 19 | 3.71 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 19 | 3.71 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 5 | 3.71 |
| (1,7044) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 5 | 3.71 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 15 | 3.71 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 15 | 3.71 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 15 | 3.71 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 17 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 13 | 3.71 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 19 | 3.71 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 4 | 3.71 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 4 | 3.71 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 4 | 3.71 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 1 | 3.71 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 1 | 3.71 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 1 | 3.71 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 20 | 3.71 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 3 | 3.71 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 17 | 3.71 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 17 | 3.71 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 10 | 3.71 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 13 | 3.71 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 6 | 3.71 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 20 | 3.71 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 17 | 3.71 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 13 | 3.71 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 13 | 3.71 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 13 | 3.71 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 18 | 3.71 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 18 | 3.71 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 18 | 3.71 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 7 | 3.71 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 7 | 3.71 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 7 | 3.71 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 11 | 3.71 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 11 | 3.71 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 11 | 3.71 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 3 | 3.71 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 3 | 3.71 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 3 | 3.71 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 9 | 3.71 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 9 | 3.71 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 9 | 3.71 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 7 | 3.71 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 7 | 3.71 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 7 | 3.71 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 15 | 3.71 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 15 | 3.71 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 15 | 3.71 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 7 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 13 | 3.71 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 13 | 3.71 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 3 | 3.71 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 3 | 3.71 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 3 | 3.71 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 11 | 3.71 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 11 | 3.71 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 11 | 3.71 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 16 | 3.71 |
| (1,6221) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 12 | 3.71 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 3 | 3.71 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 3 | 3.71 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 3 | 3.71 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 5 | 3.71 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 5 | 3.71 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 5 | 3.71 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 8 | 3.71 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 8 | 3.71 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 8 | 3.71 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 11 | 3.71 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 15 | 3.71 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 16 | 3.71 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 16 | 3.71 |
| (1,6086) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 16 | 3.71 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 8 | 3.71 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 2 | 3.71 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 2 | 3.71 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 2 | 3.71 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 11 | 3.71 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 10 | 3.71 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 2 | 3.71 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 8 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 1 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 1 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 1 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 4 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 4 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 4 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 8 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 8 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 8 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 16 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 16 | 3.71 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 16 | 3.71 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 3 | 3.71 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 3 | 3.71 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 3 | 3.71 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 12 | 3.71 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 6 | 3.71 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 9 | 3.71 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 10 | 3.71 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 6 | 3.71 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 6 | 3.71 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 6 | 3.71 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 17 | 3.71 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 17 | 3.71 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 17 | 3.71 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 17 | 3.71 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 17 | 3.71 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 17 | 3.71 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 17 | 3.71 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 6 | 3.71 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 12 | 3.71 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 12 | 3.71 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 12 | 3.71 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 12 | 3.71 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 12 | 3.71 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 12 | 3.71 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 10 | 3.71 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 10 | 3.71 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 10 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 1 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 1 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 1 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 5 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 5 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 5 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 7 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 7 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 7 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 11 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 11 | 3.71 |
| (1,5504) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 11 | 3.71 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 3 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 19 | 3.71 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 9 | 3.71 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 9 | 3.71 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 9 | 3.71 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 19 | 3.71 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 6 | 3.71 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 6 | 3.71 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 6 | 3.71 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 20 | 3.71 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 20 | 3.71 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 20 | 3.71 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 15 | 3.71 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 2 | 3.71 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 2 | 3.71 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 2 | 3.71 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 18 | 3.71 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 1 | 3.71 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 1 | 3.71 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 1 | 3.71 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 9 | 3.71 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 9 | 3.71 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 9 | 3.71 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 9 | 3.71 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 9 | 3.71 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 9 | 3.71 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 5 | 3.71 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 8 | 3.71 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 4 | 3.71 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 14 | 3.71 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 13 | 3.71 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 13 | 3.71 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 13 | 3.71 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 19 | 3.71 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 19 | 3.71 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 19 | 3.71 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 13 | 3.71 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 18 | 3.71 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 18 | 3.71 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 18 | 3.71 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 2 | 3.71 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 2 | 3.71 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 2 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 8 | 3.71 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 8 | 3.71 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 8 | 3.71 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 1 | 3.71 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 1 | 3.71 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 1 | 3.71 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 7 | 3.71 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 7 | 3.71 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.71 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 3.71 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 7 | 3.71 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 7 | 3.71 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 13 | 3.71 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 13 | 3.71 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 13 | 3.71 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 13 | 3.71 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 13 | 3.71 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 13 | 3.71 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 1 | 3.71 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 4 | 3.71 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 16 | 3.71 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 16 | 3.71 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 16 | 3.71 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 10 | 3.71 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 10 | 3.71 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 10 | 3.71 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 10 | 3.71 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 10 | 3.71 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 10 | 3.71 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 16 | 3.71 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 16 | 3.71 |
| (1,4506) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 16 | 3.71 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 11 | 3.71 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 11 | 3.71 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 16 | 3.71 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 16 | 3.71 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 7 | 3.71 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 7 | 3.71 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 14 | 3.71 |
| (1,4330) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 14 | 3.71 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 14 | 3.71 |
| (1,4330) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 14 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 18 | 3.71 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 18 | 3.71 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 19 | 3.71 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 19 | 3.71 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 16 | 3.71 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 8 | 3.71 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 19 | 3.71 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 19 | 3.71 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 19 | 3.71 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 19 | 3.71 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 6 | 3.71 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 6 | 3.71 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 10 | 3.71 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 18 | 3.71 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 9 | 3.71 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 9 | 3.71 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 9 | 3.71 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 9 | 3.71 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 9 | 3.71 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 9 | 3.71 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 2 | 3.71 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 2 | 3.71 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 2 | 3.71 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 4 | 3.71 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 15 | 3.71 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 17 | 3.71 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 17 | 3.71 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 17 | 3.71 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 17 | 3.71 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 17 | 3.71 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 17 | 3.71 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 20 | 3.71 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 3.71 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 11 | 3.71 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 11 | 3.71 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 5 | 3.71 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 16 | 3.71 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 19 | 3.71 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 4 | 3.71 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 4 | 3.71 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 4 | 3.71 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 4 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 3 | 3.71 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 3 | 3.71 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 8 | 3.71 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 13 | 3.71 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 13 | 3.71 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 18 | 3.71 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 18 | 3.71 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 18 | 3.71 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 18 | 3.71 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 12 | 3.71 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 12 | 3.71 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 12 | 3.71 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 12 | 3.71 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 12 | 3.71 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 12 | 3.71 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 4 | 3.71 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 10 | 3.71 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 10 | 3.71 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 9 | 3.71 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 9 | 3.71 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 9 | 3.71 |
| (1,3706) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 13 | 3.71 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 3 | 3.71 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 3 | 3.71 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 4 | 3.71 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 4 | 3.71 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 6 | 3.71 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 8 | 3.71 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 8 | 3.71 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 5 | 3.71 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 5 | 3.71 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 5 | 3.71 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 5 | 3.71 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 5 | 3.71 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 5 | 3.71 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 9 | 3.71 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 9 | 3.71 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 5 | 3.71 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 5 | 3.71 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 5 | 3.71 |
| (1,3458) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 16 | 3.71 |
| (1,3458) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 16 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3458) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 16 | 3.71 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 20 | 3.71 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 20 | 3.71 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 16 | 3.71 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 2 | 3.71 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 2 | 3.71 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 13 | 3.71 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 17 | 3.71 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 3 | 3.71 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 14 | 3.71 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 4 | 3.71 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 18 | 3.71 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 5 | 3.71 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 5 | 3.71 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 5 | 3.71 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 9 | 3.71 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 9 | 3.71 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 19 | 3.71 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 19 | 3.71 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 2 | 3.71 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 5 | 3.71 |
| (1,3098) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 5 | 3.71 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 15 | 3.71 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 15 | 3.71 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 15 | 3.71 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 17 | 3.71 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 18 | 3.71 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 13 | 3.71 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 3 | 3.71 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 19 | 3.71 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 7 | 3.71 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 4 | 3.71 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 4 | 3.71 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 4 | 3.71 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 1 | 3.71 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 1 | 3.71 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 1 | 3.71 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 3 | 3.71 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 20 | 3.71 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 16 | 3.71 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 16 | 3.71 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 17 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 17 | 3.71 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 4 | 3.71 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 10 | 3.71 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 13 | 3.71 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 3 | 3.71 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 6 | 3.71 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 20 | 3.71 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 17 | 3.71 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 13 | 3.71 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 13 | 3.71 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 13 | 3.71 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 18 | 3.71 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 18 | 3.71 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 18 | 3.71 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 12 | 3.71 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 7 | 3.71 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 10 | 3.71 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 7 | 3.71 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 7 | 3.71 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 7 | 3.71 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 11 | 3.71 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 11 | 3.71 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 11 | 3.71 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 3 | 3.71 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 3 | 3.71 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 3 | 3.71 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 9 | 3.71 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 9 | 3.71 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 9 | 3.71 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 7 | 3.71 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 7 | 3.71 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 7 | 3.71 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 15 | 3.71 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 15 | 3.71 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 15 | 3.71 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 7 | 3.71 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 18 | 3.71 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 18 | 3.71 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 18 | 3.71 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 13 | 3.71 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 13 | 3.71 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 11 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 3 | 3.71 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 3 | 3.71 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 3 | 3.71 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 11 | 3.71 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 11 | 3.71 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 11 | 3.71 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 16 | 3.71 |
| (1,1850) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 12 | 3.71 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 3 | 3.71 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 3 | 3.71 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 3 | 3.71 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 4 | 3.71 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 4 | 3.71 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 4 | 3.71 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 5 | 3.71 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 5 | 3.71 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 5 | 3.71 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 8 | 3.71 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 8 | 3.71 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 8 | 3.71 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 8 | 3.71 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 8 | 3.71 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 8 | 3.71 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 11 | 3.71 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 15 | 3.71 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 16 | 3.71 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 16 | 3.71 |
| (1,1658) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 16 | 3.71 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 2 | 3.71 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 2 | 3.71 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 2 | 3.71 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 11 | 3.71 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 15 | 3.71 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 15 | 3.71 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 15 | 3.71 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 10 | 3.71 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 17 | 3.71 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 6 | 3.71 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 2 | 3.71 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 8 | 3.71 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 19 | 3.71 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 1 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 11 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 1 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 1 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 1 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 4 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 4 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 4 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 8 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 8 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 8 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 16 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 16 | 3.71 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 16 | 3.71 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 3 | 3.71 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 3 | 3.71 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 3 | 3.71 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 12 | 3.71 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 11 | 3.71 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 8 | 3.71 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 8 | 3.71 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 1 | 3.71 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 4 | 3.71 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 5 | 3.71 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 8 | 3.71 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 10 | 3.71 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 11 | 3.71 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 16 | 3.71 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 17 | 3.71 |
| (1,1078) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 20 | 3.71 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 3 | 3.71 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 9 | 3.71 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 12 | 3.71 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 12 | 3.71 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 12 | 3.71 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 10 | 3.71 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 1 | 3.71 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 8 | 3.71 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 6 | 3.71 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 6 | 3.71 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 6 | 3.71 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 17 | 3.71 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 17 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 17 | 3.71 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 17 | 3.71 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 17 | 3.71 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 17 | 3.71 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 17 | 3.71 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 1 | 3.71 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 6 | 3.71 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 12 | 3.71 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 12 | 3.71 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 12 | 3.71 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 12 | 3.71 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 12 | 3.71 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 12 | 3.71 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 10 | 3.71 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 10 | 3.71 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 10 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 1 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 1 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 1 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 5 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 5 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 5 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 7 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 7 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 7 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 11 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 11 | 3.71 |
| (1,654) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 11 | 3.71 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 3 | 3.71 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 19 | 3.71 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 9 | 3.71 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 9 | 3.71 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 9 | 3.71 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 14 | 3.71 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 14 | 3.71 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 14 | 3.71 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 14 | 3.71 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 14 | 3.71 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 14 | 3.71 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 5 | 3.71 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 5 | 3.71 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 5 | 3.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 9 | 3.71 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 19 | 3.71 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 19 | 3.71 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 19 | 3.71 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 18 | 3.71 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 18 | 3.71 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 18 | 3.71 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 13 | 3.71 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 13 | 3.71 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 12 | 3.7 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 8 | 3.7 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 8 | 3.7 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 8 | 3.7 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 15 | 3.7 |
| (3,876) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 6 | 3.7 |
| (3,876) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 6 | 3.7 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 2 | 3.7 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 2 | 3.7 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 12 | 3.7 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 12 | 3.7 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 12 | 3.7 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 12 | 3.7 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 12 | 3.7 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 12 | 3.7 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 16 | 3.7 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 16 | 3.7 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 6 | 3.7 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 6 | 3.7 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 2 | 3.7 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 2 | 3.7 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 11 | 3.7 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 11 | 3.7 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 9 | 3.7 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 9 | 3.7 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 19 | 3.7 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 19 | 3.7 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 19 | 3.7 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 19 | 3.7 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 18 | 3.7 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 18 | 3.7 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 18 | 3.7 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 18 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 18 | 3.7 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 18 | 3.7 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 8 | 3.7 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 8 | 3.7 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 8 | 3.7 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 8 | 3.7 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 10 | 3.7 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 10 | 3.7 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 5 | 3.7 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 5 | 3.7 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 5 | 3.7 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 5 | 3.7 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 18 | 3.7 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 18 | 3.7 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 18 | 3.7 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 18 | 3.7 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 7 | 3.7 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 7 | 3.7 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 7 | 3.7 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 7 | 3.7 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 7 | 3.7 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 7 | 3.7 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 2 | 3.7 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 2 | 3.7 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 3 | 3.7 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 3 | 3.7 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 17 | 3.7 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 17 | 3.7 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB2 | 19 | 3.7 |
| (1,8965) | 1:74:A:ARG:H | 1:75:A:GLN:HB3 | 19 | 3.7 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 2 | 3.7 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 2 | 3.7 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 2 | 3.7 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 2 | 3.7 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 2 | 3.7 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 2 | 3.7 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 18 | 3.7 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 18 | 3.7 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 18 | 3.7 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 18 | 3.7 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 17 | 3.7 |
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 17 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8912) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 17 | 3.7 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 17 | 3.7 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 17 | 3.7 |
| (1,8912) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 17 | 3.7 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 9 | 3.7 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 9 | 3.7 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 13 | 3.7 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 13 | 3.7 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 13 | 3.7 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 13 | 3.7 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 13 | 3.7 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 13 | 3.7 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 15 | 3.7 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 15 | 3.7 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 18 | 3.7 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 18 | 3.7 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 14 | 3.7 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 14 | 3.7 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 3.7 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 3.7 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD21 | 1 | 3.7 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD22 | 1 | 3.7 |
| (1,8576) | 1:6:A:LYS:HD2 | 1:7:A:LEU:HD23 | 1 | 3.7 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD21 | 1 | 3.7 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD22 | 1 | 3.7 |
| (1,8576) | 1:6:A:LYS:HD3 | 1:7:A:LEU:HD23 | 1 | 3.7 |
| (1,8547) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 8 | 3.7 |
| (1,8547) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 8 | 3.7 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 1 | 3.7 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 1 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 14 | 3.7 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 15 | 3.7 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 18 | 3.7 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 6 | 3.7 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 6 | 3.7 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 6 | 3.7 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 6 | 3.7 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 6 | 3.7 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 6 | 3.7 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 7 | 3.7 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 18 | 3.7 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 18 | 3.7 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 18 | 3.7 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 18 | 3.7 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 18 | 3.7 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 18 | 3.7 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 15 | 3.7 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 15 | 3.7 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 15 | 3.7 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 3 | 3.7 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 2 | 3.7 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 2 | 3.7 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 16 | 3.7 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 16 | 3.7 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 3 | 3.7 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 3 | 3.7 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 16 | 3.7 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 4 | 3.7 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 4 | 3.7 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 4 | 3.7 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 4 | 3.7 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 4 | 3.7 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 4 | 3.7 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 4 | 3.7 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 4 | 3.7 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 4 | 3.7 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 19 | 3.7 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG21 | 5 | 3.7 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG22 | 5 | 3.7 |
| (1,8108) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG23 | 5 | 3.7 |
| (1,8032) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HA | 3 | 3.7 |
| (1,8032) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HA | 3 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8032) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HA | 3 | 3.7 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 6 | 3.7 |
| (1,7996) | 1:81:A:THR:HA | 1:83:A:GLU:H | 6 | 3.7 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 2 | 3.7 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 19 | 3.7 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 8 | 3.7 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 8 | 3.7 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 8 | 3.7 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 8 | 3.7 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 8 | 3.7 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 3 | 3.7 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 3 | 3.7 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 3 | 3.7 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 3 | 3.7 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 3 | 3.7 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 3 | 3.7 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 3 | 3.7 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 3 | 3.7 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 3 | 3.7 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 13 | 3.7 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG21 | 8 | 3.7 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG22 | 8 | 3.7 |
| (1,7732) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HG23 | 8 | 3.7 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG21 | 8 | 3.7 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG22 | 8 | 3.7 |
| (1,7732) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HG23 | 8 | 3.7 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 10 | 3.7 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 10 | 3.7 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 1 | 3.7 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 14 | 3.7 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 12 | 3.7 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 12 | 3.7 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 7 | 3.7 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 5 | 3.7 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 5 | 3.7 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 8 | 3.7 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 8 | 3.7 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 9 | 3.7 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 9 | 3.7 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 17 | 3.7 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 17 | 3.7 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 11 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 11 | 3.7 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 19 | 3.7 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 19 | 3.7 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 13 | 3.7 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 13 | 3.7 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 13 | 3.7 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 13 | 3.7 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 13 | 3.7 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 13 | 3.7 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 13 | 3.7 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 3 | 3.7 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 19 | 3.7 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 19 | 3.7 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 5 | 3.7 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 5 | 3.7 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 5 | 3.7 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 5 | 3.7 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 13 | 3.7 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 12 | 3.7 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 14 | 3.7 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 14 | 3.7 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 14 | 3.7 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 4 | 3.7 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 16 | 3.7 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 14 | 3.7 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 14 | 3.7 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 14 | 3.7 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 17 | 3.7 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 17 | 3.7 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 17 | 3.7 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 2 | 3.7 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 2 | 3.7 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 2 | 3.7 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 17 | 3.7 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 17 | 3.7 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 17 | 3.7 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 19 | 3.7 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 19 | 3.7 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 19 | 3.7 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 15 | 3.7 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 15 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 17 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 17 | 3.7 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 17 | 3.7 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 5 | 3.7 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 8 | 3.7 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 8 | 3.7 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 8 | 3.7 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 13 | 3.7 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 16 | 3.7 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 16 | 3.7 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 16 | 3.7 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 16 | 3.7 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 20 | 3.7 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 19 | 3.7 |
| (1,6551) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 13 | 3.7 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 5 | 3.7 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 11 | 3.7 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 9 | 3.7 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 9 | 3.7 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 9 | 3.7 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 14 | 3.7 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 14 | 3.7 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 19 | 3.7 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 19 | 3.7 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 6 | 3.7 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 19 | 3.7 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 17 | 3.7 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 17 | 3.7 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 17 | 3.7 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 11 | 3.7 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 11 | 3.7 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 11 | 3.7 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 6 | 3.7 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 6 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 6 | 3.7 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 11 | 3.7 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 11 | 3.7 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 11 | 3.7 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 10 | 3.7 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 10 | 3.7 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 10 | 3.7 |
| (1,6161) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 11 | 3.7 |
| (1,6161) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 11 | 3.7 |
| (1,6161) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 11 | 3.7 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 3 | 3.7 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 3 | 3.7 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 3 | 3.7 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 6 | 3.7 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 6 | 3.7 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 6 | 3.7 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 16 | 3.7 |
| (1,6064) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 6 | 3.7 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 10 | 3.7 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 13 | 3.7 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 4 | 3.7 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 7 | 3.7 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 4 | 3.7 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 1 | 3.7 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 13 | 3.7 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 5 | 3.7 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 5 | 3.7 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 5 | 3.7 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 9 | 3.7 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 9 | 3.7 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 9 | 3.7 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 14 | 3.7 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 14 | 3.7 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 14 | 3.7 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 19 | 3.7 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 19 | 3.7 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 19 | 3.7 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 5 | 3.7 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 5 | 3.7 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 5 | 3.7 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 17 | 3.7 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 7 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 12 | 3.7 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 4 | 3.7 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 17 | 3.7 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 17 | 3.7 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 17 | 3.7 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 2 | 3.7 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 2 | 3.7 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 6 | 3.7 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 15 | 3.7 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 13 | 3.7 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 17 | 3.7 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 4 | 3.7 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 4 | 3.7 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 4 | 3.7 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 18 | 3.7 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 18 | 3.7 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 18 | 3.7 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 17 | 3.7 |
| (1,5124) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 9 | 3.7 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 10 | 3.7 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 10 | 3.7 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 10 | 3.7 |
| (1,5075) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 10 | 3.7 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 10 | 3.7 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 17 | 3.7 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 10 | 3.7 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 14 | 3.7 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 14 | 3.7 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 14 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 2 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 2 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 2 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 2 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 2 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 2 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 2 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 2 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 2 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 18 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 18 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 18 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 18 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 18 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 18 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 18 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 18 | 3.7 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 18 | 3.7 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 1 | 3.7 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 10 | 3.7 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 4 | 3.7 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 4 | 3.7 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 4 | 3.7 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 6 | 3.7 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 13 | 3.7 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 13 | 3.7 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 13 | 3.7 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 17 | 3.7 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 17 | 3.7 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 17 | 3.7 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 11 | 3.7 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 2 | 3.7 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 2 | 3.7 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 11 | 3.7 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 11 | 3.7 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 11 | 3.7 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 4 | 3.7 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 4 | 3.7 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 15 | 3.7 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 15 | 3.7 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 15 | 3.7 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 15 | 3.7 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 11 | 3.7 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 11 | 3.7 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 1 | 3.7 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 16 | 3.7 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 18 | 3.7 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 18 | 3.7 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 18 | 3.7 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 18 | 3.7 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 18 | 3.7 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 18 | 3.7 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 4 | 3.7 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 5 | 3.7 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 5 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 5 | 3.7 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 5 | 3.7 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 18 | 3.7 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 18 | 3.7 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 18 | 3.7 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 18 | 3.7 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 3.7 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 3.7 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 7 | 3.7 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 8 | 3.7 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 16 | 3.7 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 16 | 3.7 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 16 | 3.7 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 12 | 3.7 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 12 | 3.7 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 7 | 3.7 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 7 | 3.7 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 5 | 3.7 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 3 | 3.7 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 3 | 3.7 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 4 | 3.7 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 4 | 3.7 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 4 | 3.7 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 3.7 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 20 | 3.7 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 18 | 3.7 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 18 | 3.7 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 18 | 3.7 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 18 | 3.7 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 9 | 3.7 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 9 | 3.7 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 13 | 3.7 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 13 | 3.7 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 13 | 3.7 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 13 | 3.7 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 13 | 3.7 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 13 | 3.7 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 12 | 3.7 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 12 | 3.7 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 4 | 3.7 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 4 | 3.7 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 18 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 18 | 3.7 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 10 | 3.7 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 14 | 3.7 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 14 | 3.7 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 1 | 3.7 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 1 | 3.7 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 5 | 3.7 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 5 | 3.7 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 5 | 3.7 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 19 | 3.7 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 16 | 3.7 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 13 | 3.7 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 12 | 3.7 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 14 | 3.7 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 14 | 3.7 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 14 | 3.7 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 13 | 3.7 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 13 | 3.7 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 4 | 3.7 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 16 | 3.7 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 14 | 3.7 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 14 | 3.7 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 14 | 3.7 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 17 | 3.7 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 17 | 3.7 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 15 | 3.7 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 14 | 3.7 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 18 | 3.7 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 1 | 3.7 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 17 | 3.7 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 17 | 3.7 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 17 | 3.7 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 2 | 3.7 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 2 | 3.7 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 2 | 3.7 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 17 | 3.7 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 17 | 3.7 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 17 | 3.7 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 19 | 3.7 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 19 | 3.7 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 19 | 3.7 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 15 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 15 | 3.7 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 19 | 3.7 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 19 | 3.7 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 19 | 3.7 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 19 | 3.7 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 19 | 3.7 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 19 | 3.7 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 2 | 3.7 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 2 | 3.7 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 5 | 3.7 |
| (1,2696) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 15 | 3.7 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 3.7 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 8 | 3.7 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 8 | 3.7 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 8 | 3.7 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 13 | 3.7 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 16 | 3.7 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 16 | 3.7 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 16 | 3.7 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 16 | 3.7 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 19 | 3.7 |
| (1,2398) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 13 | 3.7 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 5 | 3.7 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 11 | 3.7 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 16 | 3.7 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 9 | 3.7 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 9 | 3.7 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 9 | 3.7 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 10 | 3.7 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 3.7 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 3.7 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 3.7 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 18 | 3.7 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 18 | 3.7 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 18 | 3.7 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 20 | 3.7 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 14 | 3.7 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 14 | 3.7 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 19 | 3.7 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 19 | 3.7 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 8 | 3.7 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 8 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 8 | 3.7 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 6 | 3.7 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 19 | 3.7 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 7 | 3.7 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 17 | 3.7 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 17 | 3.7 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 17 | 3.7 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 16 | 3.7 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 11 | 3.7 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 11 | 3.7 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 11 | 3.7 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 6 | 3.7 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 6 | 3.7 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 6 | 3.7 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 11 | 3.7 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 11 | 3.7 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 11 | 3.7 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 10 | 3.7 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 10 | 3.7 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 10 | 3.7 |
| (1,1764) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 11 | 3.7 |
| (1,1764) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 11 | 3.7 |
| (1,1764) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 11 | 3.7 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 3 | 3.7 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 3 | 3.7 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 3 | 3.7 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 6 | 3.7 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 6 | 3.7 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 6 | 3.7 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 12 | 3.7 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 16 | 3.7 |
| (1,1626) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 6 | 3.7 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 10 | 3.7 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 13 | 3.7 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 12 | 3.7 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 12 | 3.7 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 4 | 3.7 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 17 | 3.7 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 7 | 3.7 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 4 | 3.7 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 1 | 3.7 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 13 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 5 | 3.7 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 5 | 3.7 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 5 | 3.7 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 9 | 3.7 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 9 | 3.7 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 9 | 3.7 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 14 | 3.7 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 14 | 3.7 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 14 | 3.7 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 19 | 3.7 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 19 | 3.7 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 19 | 3.7 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 5 | 3.7 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 3.7 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 1 | 3.7 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 1 | 3.7 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 5 | 3.7 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 17 | 3.7 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 6 | 3.7 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 5 | 3.7 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 17 | 3.7 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 7 | 3.7 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 12 | 3.7 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 4 | 3.7 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 1 | 3.7 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 1 | 3.7 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 1 | 3.7 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 1 | 3.7 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 1 | 3.7 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 1 | 3.7 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 16 | 3.7 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 16 | 3.7 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 16 | 3.7 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 16 | 3.7 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 16 | 3.7 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 16 | 3.7 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 17 | 3.7 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 17 | 3.7 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 17 | 3.7 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 2 | 3.7 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 2 | 3.7 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 3.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 3.7 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 6 | 3.7 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 20 | 3.7 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 9 | 3.7 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 9 | 3.7 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 9 | 3.7 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 15 | 3.7 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 10 | 3.7 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 10 | 3.7 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 10 | 3.7 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 13 | 3.7 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 6 | 3.7 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 6 | 3.7 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 6 | 3.7 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 8 | 3.7 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 8 | 3.7 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 8 | 3.7 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 8 | 3.7 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 8 | 3.7 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 8 | 3.7 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 20 | 3.7 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 20 | 3.7 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 20 | 3.7 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 20 | 3.7 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 20 | 3.7 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 20 | 3.7 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 5 | 3.7 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 5 | 3.7 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 5 | 3.7 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 5 | 3.69 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 4 | 3.69 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 14 | 3.69 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 14 | 3.69 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 2 | 3.69 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 2 | 3.69 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 4 | 3.69 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 4 | 3.69 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 15 | 3.69 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 15 | 3.69 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 14 | 3.69 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 14 | 3.69 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 14 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 14 | 3.69 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 15 | 3.69 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 15 | 3.69 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 15 | 3.69 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 15 | 3.69 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 15 | 3.69 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 15 | 3.69 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 8 | 3.69 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 8 | 3.69 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 6 | 3.69 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 6 | 3.69 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 6 | 3.69 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 6 | 3.69 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 14 | 3.69 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 14 | 3.69 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 12 | 3.69 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 12 | 3.69 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 18 | 3.69 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 18 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 14 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 14 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 14 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 14 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 14 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 14 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 17 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 17 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 17 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 17 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 17 | 3.69 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 17 | 3.69 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 13 | 3.69 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 13 | 3.69 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 13 | 3.69 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 13 | 3.69 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 18 | 3.69 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 18 | 3.69 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 18 | 3.69 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 18 | 3.69 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 5 | 3.69 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 5 | 3.69 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 5 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 5 | 3.69 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 14 | 3.69 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 14 | 3.69 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 14 | 3.69 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 14 | 3.69 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 14 | 3.69 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 14 | 3.69 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 9 | 3.69 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 9 | 3.69 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 9 | 3.69 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 9 | 3.69 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 7 | 3.69 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 7 | 3.69 |
| (1,9114) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HA | 18 | 3.69 |
| (1,9114) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HA | 18 | 3.69 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 8 | 3.69 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 8 | 3.69 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 8 | 3.69 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 8 | 3.69 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 8 | 3.69 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 8 | 3.69 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 16 | 3.69 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 16 | 3.69 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 15 | 3.69 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 15 | 3.69 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 15 | 3.69 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 15 | 3.69 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 15 | 3.69 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 15 | 3.69 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB2 | 1 | 3.69 |
| (1,9018) | 1:79:A:THR:H | 1:80:A:ARG:HB3 | 1 | 3.69 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 19 | 3.69 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 19 | 3.69 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 10 | 3.69 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 10 | 3.69 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 10 | 3.69 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 10 | 3.69 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 6 | 3.69 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 6 | 3.69 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 11 | 3.69 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 11 | 3.69 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 15 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 15 | 3.69 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 15 | 3.69 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 15 | 3.69 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB2 | 4 | 3.69 |
| (1,8836) | 1:60:A:LEU:HB2 | 1:157:A:HIS:HB3 | 4 | 3.69 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB2 | 4 | 3.69 |
| (1,8836) | 1:60:A:LEU:HB3 | 1:157:A:HIS:HB3 | 4 | 3.69 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 15 | 3.69 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 15 | 3.69 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 15 | 3.69 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 15 | 3.69 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 15 | 3.69 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 15 | 3.69 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 3 | 3.69 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 3 | 3.69 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 3 | 3.69 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 3 | 3.69 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 3 | 3.69 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 3 | 3.69 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 5 | 3.69 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 5 | 3.69 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 5 | 3.69 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 5 | 3.69 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 5 | 3.69 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 5 | 3.69 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 5 | 3.69 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 5 | 3.69 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 5 | 3.69 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 5 | 3.69 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB2 | 18 | 3.69 |
| (1,8720) | 1:48:A:GLY:H | 1:49:A:GLN:HB3 | 18 | 3.69 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 13 | 3.69 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 13 | 3.69 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 10 | 3.69 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 10 | 3.69 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 5 | 3.69 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 5 | 3.69 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 5 | 3.69 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 5 | 3.69 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 5 | 3.69 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 5 | 3.69 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 4 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 4 | 3.69 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 4 | 3.69 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 4 | 3.69 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 4 | 3.69 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 4 | 3.69 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 20 | 3.69 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 20 | 3.69 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 20 | 3.69 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 20 | 3.69 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 20 | 3.69 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 20 | 3.69 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 20 | 3.69 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 20 | 3.69 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 20 | 3.69 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 6 | 3.69 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 6 | 3.69 |
| (1,8466) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 6 | 3.69 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 6 | 3.69 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 6 | 3.69 |
| (1,8466) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 6 | 3.69 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 6 | 3.69 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 6 | 3.69 |
| (1,8466) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 6 | 3.69 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 7 | 3.69 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 7 | 3.69 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 7 | 3.69 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 10 | 3.69 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 10 | 3.69 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 10 | 3.69 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 18 | 3.69 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 18 | 3.69 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 18 | 3.69 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 18 | 3.69 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 18 | 3.69 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 18 | 3.69 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE1 | 20 | 3.69 |
| (1,8286) | 1:125:A:PHE:H | 1:125:A:PHE:HE2 | 20 | 3.69 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 9 | 3.69 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 9 | 3.69 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 18 | 3.69 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 18 | 3.69 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 18 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 12 | 3.69 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 12 | 3.69 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 12 | 3.69 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 7 | 3.69 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 4 | 3.69 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 14 | 3.69 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 14 | 3.69 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 13 | 3.69 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 13 | 3.69 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 13 | 3.69 |
| (1,8015) | 1:83:A:GLU:HA | 1:85:A:ALA:H | 17 | 3.69 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 14 | 3.69 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 9 | 3.69 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 20 | 3.69 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 6 | 3.69 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 6 | 3.69 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 6 | 3.69 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 7 | 3.69 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 7 | 3.69 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 7 | 3.69 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 7 | 3.69 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 1 | 3.69 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 8 | 3.69 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 14 | 3.69 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 14 | 3.69 |
| (1,7431) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HB3 | 11 | 3.69 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 12 | 3.69 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 20 | 3.69 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 20 | 3.69 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 20 | 3.69 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 18 | 3.69 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 8 | 3.69 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 8 | 3.69 |
| (1,7285) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 18 | 3.69 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 11 | 3.69 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 1 | 3.69 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 1 | 3.69 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 1 | 3.69 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 4 | 3.69 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 9 | 3.69 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 9 | 3.69 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 19 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 10 | 3.69 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 17 | 3.69 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 8 | 3.69 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 9 | 3.69 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 19 | 3.69 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 2 | 3.69 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 2 | 3.69 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 2 | 3.69 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 15 | 3.69 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 9 | 3.69 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 13 | 3.69 |
| (1,6811) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 2 | 3.69 |
| (1,6811) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 2 | 3.69 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 6 | 3.69 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 16 | 3.69 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 5 | 3.69 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 10 | 3.69 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 14 | 3.69 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 20 | 3.69 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 6 | 3.69 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 20 | 3.69 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 16 | 3.69 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 17 | 3.69 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 17 | 3.69 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 17 | 3.69 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 6 | 3.69 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 6 | 3.69 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 6 | 3.69 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 3 | 3.69 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 7 | 3.69 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 7 | 3.69 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 7 | 3.69 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 7 | 3.69 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 7 | 3.69 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 7 | 3.69 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 7 | 3.69 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 7 | 3.69 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 7 | 3.69 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 10 | 3.69 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 10 | 3.69 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 10 | 3.69 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 7 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 7 | 3.69 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 7 | 3.69 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 6 | 3.69 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 6 | 3.69 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 6 | 3.69 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 17 | 3.69 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 17 | 3.69 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 17 | 3.69 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 19 | 3.69 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 19 | 3.69 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 19 | 3.69 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 14 | 3.69 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 14 | 3.69 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 14 | 3.69 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 16 | 3.69 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 16 | 3.69 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 16 | 3.69 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 2 | 3.69 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 2 | 3.69 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 2 | 3.69 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 2 | 3.69 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 2 | 3.69 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 2 | 3.69 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 15 | 3.69 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 6 | 3.69 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 3 | 3.69 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 7 | 3.69 |
| (1,6011) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 3 | 3.69 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 4 | 3.69 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 4 | 3.69 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 6 | 3.69 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 14 | 3.69 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 5 | 3.69 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 5 | 3.69 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 5 | 3.69 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 9 | 3.69 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 7 | 3.69 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 7 | 3.69 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 7 | 3.69 |
| (1,5748) | 1:109:A:GLN:H | 1:111:A:SER:H | 4 | 3.69 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 17 | 3.69 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 17 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 17 | 3.69 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 18 | 3.69 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 6 | 3.69 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 6 | 3.69 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 6 | 3.69 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 16 | 3.69 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 16 | 3.69 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 16 | 3.69 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 8 | 3.69 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 13 | 3.69 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 13 | 3.69 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 13 | 3.69 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 13 | 3.69 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 13 | 3.69 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 13 | 3.69 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 7 | 3.69 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 7 | 3.69 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 7 | 3.69 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 19 | 3.69 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 19 | 3.69 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 19 | 3.69 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 3 | 3.69 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 3 | 3.69 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 3 | 3.69 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 12 | 3.69 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 12 | 3.69 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 12 | 3.69 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 19 | 3.69 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 19 | 3.69 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 19 | 3.69 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 8 | 3.69 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 8 | 3.69 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 8 | 3.69 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 8 | 3.69 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 8 | 3.69 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 8 | 3.69 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 8 | 3.69 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 8 | 3.69 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 8 | 3.69 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 6 | 3.69 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 11 | 3.69 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 5 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 5 | 3.69 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 5 | 3.69 |
| (1,5306) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 6 | 3.69 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 14 | 3.69 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 14 | 3.69 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 14 | 3.69 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 8 | 3.69 |
| (1,5201) | 1:81:A:THR:H | 1:85:A:ALA:H | 12 | 3.69 |
| (1,5154) | 1:82:A:LYS:H | 1:84:A:GLU:H | 16 | 3.69 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 12 | 3.69 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 16 | 3.69 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 3 | 3.69 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 3 | 3.69 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 3 | 3.69 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 5 | 3.69 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 5 | 3.69 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 5 | 3.69 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 9 | 3.69 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 9 | 3.69 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 9 | 3.69 |
| (1,4934) | 1:65:A:SER:HA | 1:67:A:SER:H | 5 | 3.69 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 4 | 3.69 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 14 | 3.69 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 14 | 3.69 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 14 | 3.69 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 14 | 3.69 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 2 | 3.69 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 2 | 3.69 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 2 | 3.69 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 1 | 3.69 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 1 | 3.69 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 1 | 3.69 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 1 | 3.69 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 1 | 3.69 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 1 | 3.69 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 1 | 3.69 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 1 | 3.69 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 1 | 3.69 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 7 | 3.69 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 10 | 3.69 |
| (1,4760) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 17 | 3.69 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 6 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 2 | 3.69 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 2 | 3.69 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 8 | 3.69 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 19 | 3.69 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 19 | 3.69 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 19 | 3.69 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 19 | 3.69 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 19 | 3.69 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 19 | 3.69 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 15 | 3.69 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 15 | 3.69 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 15 | 3.69 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 15 | 3.69 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 15 | 3.69 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 15 | 3.69 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 5 | 3.69 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 8 | 3.69 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 8 | 3.69 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 17 | 3.69 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 17 | 3.69 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 13 | 3.69 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 13 | 3.69 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 12 | 3.69 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 12 | 3.69 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 18 | 3.69 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 18 | 3.69 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 5 | 3.69 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 5 | 3.69 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 5 | 3.69 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 5 | 3.69 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 5 | 3.69 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 5 | 3.69 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 10 | 3.69 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 18 | 3.69 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 3 | 3.69 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 11 | 3.69 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 13 | 3.69 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 6 | 3.69 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 6 | 3.69 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 6 | 3.69 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 3.69 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 3.69 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 3.69 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 3.69 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 3.69 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 15 | 3.69 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 15 | 3.69 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 15 | 3.69 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 17 | 3.69 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 17 | 3.69 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 16 | 3.69 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 16 | 3.69 |
| (1,4042) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 2 | 3.69 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 5 | 3.69 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 20 | 3.69 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 3.69 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 9 | 3.69 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 9 | 3.69 |
| (1,3929) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 4 | 3.69 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 19 | 3.69 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 19 | 3.69 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 12 | 3.69 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 3 | 3.69 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 11 | 3.69 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 11 | 3.69 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 11 | 3.69 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 11 | 3.69 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 11 | 3.69 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 11 | 3.69 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 15 | 3.69 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 15 | 3.69 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 15 | 3.69 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 15 | 3.69 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 15 | 3.69 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 15 | 3.69 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 1 | 3.69 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 1 | 3.69 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 8 | 3.69 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 8 | 3.69 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 18 | 3.69 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 3 | 3.69 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 3 | 3.69 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 3 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 3 | 3.69 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 3 | 3.69 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 3 | 3.69 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 1 | 3.69 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 13 | 3.69 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 13 | 3.69 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 1 | 3.69 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 18 | 3.69 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 1 | 3.69 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 1 | 3.69 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 5 | 3.69 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 5 | 3.69 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 5 | 3.69 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 5 | 3.69 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 5 | 3.69 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 5 | 3.69 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 1 | 3.69 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 1 | 3.69 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 1 | 3.69 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 4 | 3.69 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 9 | 3.69 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 9 | 3.69 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 19 | 3.69 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 10 | 3.69 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 17 | 3.69 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 8 | 3.69 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 9 | 3.69 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 19 | 3.69 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 8 | 3.69 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 2 | 3.69 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 2 | 3.69 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 2 | 3.69 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 1 | 3.69 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 15 | 3.69 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 13 | 3.69 |
| (1,2982) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 13 | 3.69 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 9 | 3.69 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 19 | 3.69 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 13 | 3.69 |
| (1,2790) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 2 | 3.69 |
| (1,2790) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 2 | 3.69 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 4 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 4 | 3.69 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 11 | 3.69 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 11 | 3.69 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 10 | 3.69 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 10 | 3.69 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 16 | 3.69 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 1 | 3.69 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 16 | 3.69 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 5 | 3.69 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 1 | 3.69 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 10 | 3.69 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 14 | 3.69 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 4 | 3.69 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 6 | 3.69 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 20 | 3.69 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 8 | 3.69 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 9 | 3.69 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 14 | 3.69 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 12 | 3.69 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 9 | 3.69 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 9 | 3.69 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 9 | 3.69 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 14 | 3.69 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 14 | 3.69 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 14 | 3.69 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 16 | 3.69 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 5 | 3.69 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 17 | 3.69 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 17 | 3.69 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 17 | 3.69 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 6 | 3.69 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 6 | 3.69 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 6 | 3.69 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 3 | 3.69 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 7 | 3.69 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 7 | 3.69 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 7 | 3.69 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 7 | 3.69 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 7 | 3.69 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 7 | 3.69 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 7 | 3.69 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 7 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 7 | 3.69 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 15 | 3.69 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 15 | 3.69 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 15 | 3.69 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 15 | 3.69 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 15 | 3.69 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 15 | 3.69 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 15 | 3.69 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 15 | 3.69 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 15 | 3.69 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 10 | 3.69 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 10 | 3.69 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 10 | 3.69 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 10 | 3.69 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 10 | 3.69 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 10 | 3.69 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 7 | 3.69 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 7 | 3.69 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 7 | 3.69 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 6 | 3.69 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 6 | 3.69 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 6 | 3.69 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 17 | 3.69 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 17 | 3.69 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 17 | 3.69 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 19 | 3.69 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 19 | 3.69 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 19 | 3.69 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 14 | 3.69 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 14 | 3.69 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 14 | 3.69 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 16 | 3.69 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 16 | 3.69 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 16 | 3.69 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 2 | 3.69 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 2 | 3.69 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 2 | 3.69 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 2 | 3.69 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 2 | 3.69 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 2 | 3.69 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 15 | 3.69 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 12 | 3.69 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 12 | 3.69 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 12 | 3.69 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 6 | 3.69 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 3 | 3.69 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 7 | 3.69 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 17 | 3.69 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 17 | 3.69 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 17 | 3.69 |
| (1,1518) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 3 | 3.69 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 4 | 3.69 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 4 | 3.69 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 6 | 3.69 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 5 | 3.69 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 14 | 3.69 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 5 | 3.69 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 5 | 3.69 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 5 | 3.69 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 9 | 3.69 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 7 | 3.69 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 7 | 3.69 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 7 | 3.69 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 9 | 3.69 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 9 | 3.69 |
| (1,1050) | 1:109:A:GLN:H | 1:111:A:SER:H | 4 | 3.69 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 17 | 3.69 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 17 | 3.69 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 17 | 3.69 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 18 | 3.69 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 18 | 3.69 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 18 | 3.69 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 18 | 3.69 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 18 | 3.69 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 18 | 3.69 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 18 | 3.69 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 3 | 3.69 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 6 | 3.69 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 6 | 3.69 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 6 | 3.69 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 4 | 3.69 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 4 | 3.69 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 4 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 16 | 3.69 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 16 | 3.69 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 16 | 3.69 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 2 | 3.69 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 4 | 3.69 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 8 | 3.69 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 13 | 3.69 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 13 | 3.69 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 13 | 3.69 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 13 | 3.69 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 13 | 3.69 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 13 | 3.69 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 7 | 3.69 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 7 | 3.69 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 7 | 3.69 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 11 | 3.69 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 11 | 3.69 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 11 | 3.69 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 11 | 3.69 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 11 | 3.69 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 11 | 3.69 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 13 | 3.68 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 6 | 3.68 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 10 | 3.68 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 18 | 3.68 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 12 | 3.68 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 12 | 3.68 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 18 | 3.68 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 1 | 3.68 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 1 | 3.68 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 19 | 3.68 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 19 | 3.68 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 3.68 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 3.68 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 3.68 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 3.68 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 5 | 3.68 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 5 | 3.68 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 5 | 3.68 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 5 | 3.68 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 1 | 3.68 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 1 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 1 | 3.68 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 1 | 3.68 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 1 | 3.68 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 1 | 3.68 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 2 | 3.68 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 2 | 3.68 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA2 | 19 | 3.68 |
| (1,9416) | 1:127:A:ARG:H | 1:128:A:GLY:HA3 | 19 | 3.68 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 10 | 3.68 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 10 | 3.68 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 7 | 3.68 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 7 | 3.68 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 9 | 3.68 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 9 | 3.68 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 4 | 3.68 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 4 | 3.68 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 4 | 3.68 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 4 | 3.68 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 4 | 3.68 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 4 | 3.68 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 9 | 3.68 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 9 | 3.68 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 9 | 3.68 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 9 | 3.68 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 9 | 3.68 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 9 | 3.68 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 6 | 3.68 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 6 | 3.68 |
| (1,9012) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 6 | 3.68 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 6 | 3.68 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 6 | 3.68 |
| (1,9012) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 6 | 3.68 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 5 | 3.68 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 5 | 3.68 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 13 | 3.68 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 13 | 3.68 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 7 | 3.68 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 7 | 3.68 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 7 | 3.68 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 7 | 3.68 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 7 | 3.68 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 7 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 9 | 3.68 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 9 | 3.68 |
| (1,8831) | 1:59:A:HIS:HB2 | 1:160:A:LEU:H | 13 | 3.68 |
| (1,8831) | 1:59:A:HIS:HB3 | 1:160:A:LEU:H | 13 | 3.68 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 5 | 3.68 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 5 | 3.68 |
| (1,8794) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 5 | 3.68 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 5 | 3.68 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 5 | 3.68 |
| (1,8794) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 5 | 3.68 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 20 | 3.68 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 3.68 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 9 | 3.68 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 9 | 3.68 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 9 | 3.68 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 9 | 3.68 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 13 | 3.68 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 13 | 3.68 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 3 | 3.68 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 3 | 3.68 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 14 | 3.68 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 14 | 3.68 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 14 | 3.68 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 14 | 3.68 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 14 | 3.68 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 14 | 3.68 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 6 | 3.68 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 6 | 3.68 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 6 | 3.68 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 6 | 3.68 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 16 | 3.68 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 16 | 3.68 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 16 | 3.68 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 16 | 3.68 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 16 | 3.68 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 16 | 3.68 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 14 | 3.68 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 14 | 3.68 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 15 | 3.68 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 15 | 3.68 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 15 | 3.68 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 12 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 3 | 3.68 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 3 | 3.68 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 3 | 3.68 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 2 | 3.68 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 2 | 3.68 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 13 | 3.68 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 19 | 3.68 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 20 | 3.68 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 1 | 3.68 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 1 | 3.68 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 1 | 3.68 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 17 | 3.68 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 17 | 3.68 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 17 | 3.68 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 13 | 3.68 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 19 | 3.68 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 6 | 3.68 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 6 | 3.68 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 6 | 3.68 |
| (1,8027) | 1:86:A:LEU:HD11 | 1:87:A:GLU:HA | 16 | 3.68 |
| (1,8027) | 1:86:A:LEU:HD12 | 1:87:A:GLU:HA | 16 | 3.68 |
| (1,8027) | 1:86:A:LEU:HD13 | 1:87:A:GLU:HA | 16 | 3.68 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 9 | 3.68 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 2 | 3.68 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 2 | 3.68 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 2 | 3.68 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 7 | 3.68 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 7 | 3.68 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 7 | 3.68 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 7 | 3.68 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 7 | 3.68 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 7 | 3.68 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 7 | 3.68 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 7 | 3.68 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 7 | 3.68 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 10 | 3.68 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 10 | 3.68 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 10 | 3.68 |
| (1,7737) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 16 | 3.68 |
| (1,7737) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 16 | 3.68 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 1 | 3.68 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 1 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 1 | 3.68 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 1 | 3.68 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 13 | 3.68 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 3 | 3.68 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 14 | 3.68 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 14 | 3.68 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 14 | 3.68 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 17 | 3.68 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 17 | 3.68 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 17 | 3.68 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 17 | 3.68 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 17 | 3.68 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 17 | 3.68 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 19 | 3.68 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 19 | 3.68 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 19 | 3.68 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 19 | 3.68 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 19 | 3.68 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 19 | 3.68 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 6 | 3.68 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 6 | 3.68 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 3 | 3.68 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 3 | 3.68 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 3 | 3.68 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 18 | 3.68 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 18 | 3.68 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 12 | 3.68 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 1 | 3.68 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 14 | 3.68 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 17 | 3.68 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 6 | 3.68 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 11 | 3.68 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 11 | 3.68 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 7 | 3.68 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 7 | 3.68 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 7 | 3.68 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 15 | 3.68 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 20 | 3.68 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 20 | 3.68 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 11 | 3.68 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 18 | 3.68 |
| (1,6867) | 1:28:A:ILE:H | 1:30:A:ASN:H | 7 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 13 | 3.68 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 13 | 3.68 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 13 | 3.68 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 6 | 3.68 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 8 | 3.68 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 8 | 3.68 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 5 | 3.68 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 5 | 3.68 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 17 | 3.68 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 15 | 3.68 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 15 | 3.68 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 15 | 3.68 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 18 | 3.68 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 17 | 3.68 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 12 | 3.68 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 14 | 3.68 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 8 | 3.68 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 8 | 3.68 |
| (1,6511) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 8 | 3.68 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 8 | 3.68 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 8 | 3.68 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 8 | 3.68 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 3 | 3.68 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 3 | 3.68 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 3 | 3.68 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 7 | 3.68 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 7 | 3.68 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 7 | 3.68 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 14 | 3.68 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 14 | 3.68 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 14 | 3.68 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 14 | 3.68 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 14 | 3.68 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 14 | 3.68 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 14 | 3.68 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 7 | 3.68 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 7 | 3.68 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 7 | 3.68 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 18 | 3.68 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 18 | 3.68 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 18 | 3.68 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 1 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 1 | 3.68 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 1 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 7 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 7 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 7 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 11 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 11 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 11 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 17 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 17 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 17 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 19 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 19 | 3.68 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 19 | 3.68 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 10 | 3.68 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 10 | 3.68 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 10 | 3.68 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 10 | 3.68 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 10 | 3.68 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 10 | 3.68 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 15 | 3.68 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 7 | 3.68 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 5 | 3.68 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 8 | 3.68 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 1 | 3.68 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 4 | 3.68 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 8 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 3 | 3.68 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 3 | 3.68 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 17 | 3.68 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 17 | 3.68 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 17 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 13 | 3.68 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 11 | 3.68 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 11 | 3.68 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 11 | 3.68 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 1 | 3.68 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 2 | 3.68 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 2 | 3.68 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 2 | 3.68 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 4 | 3.68 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 18 | 3.68 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 5 | 3.68 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 5 | 3.68 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 5 | 3.68 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 2 | 3.68 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 2 | 3.68 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 2 | 3.68 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 10 | 3.68 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 10 | 3.68 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 10 | 3.68 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 9 | 3.68 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 9 | 3.68 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 9 | 3.68 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 8 | 3.68 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 14 | 3.68 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 14 | 3.68 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 14 | 3.68 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 18 | 3.68 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 18 | 3.68 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 18 | 3.68 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 20 | 3.68 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 20 | 3.68 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 20 | 3.68 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 5 | 3.68 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 15 | 3.68 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 15 | 3.68 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 15 | 3.68 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 19 | 3.68 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 19 | 3.68 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 19 | 3.68 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 2 | 3.68 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 2 | 3.68 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 2 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 9 | 3.68 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 9 | 3.68 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 9 | 3.68 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 18 | 3.68 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 15 | 3.68 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 7 | 3.68 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 7 | 3.68 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 7 | 3.68 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 4 | 3.68 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 4 | 3.68 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 4 | 3.68 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 20 | 3.68 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 20 | 3.68 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 20 | 3.68 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 2 | 3.68 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 2 | 3.68 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 2 | 3.68 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 11 | 3.68 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 12 | 3.68 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 12 | 3.68 |
| (1,5092) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 12 | 3.68 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 8 | 3.68 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 8 | 3.68 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 8 | 3.68 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 20 | 3.68 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 4 | 3.68 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 4 | 3.68 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 20 | 3.68 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 5 | 3.68 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 7 | 3.68 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 13 | 3.68 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 13 | 3.68 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 13 | 3.68 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 13 | 3.68 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 16 | 3.68 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 1 | 3.68 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 5 | 3.68 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 5 | 3.68 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 5 | 3.68 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 2 | 3.68 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 2 | 3.68 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 2 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 12 | 3.68 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 3.68 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 3.68 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 3.68 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 3.68 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 9 | 3.68 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 9 | 3.68 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 9 | 3.68 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 9 | 3.68 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 1 | 3.68 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 1 | 3.68 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 1 | 3.68 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 1 | 3.68 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 1 | 3.68 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 1 | 3.68 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 2 | 3.68 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 2 | 3.68 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 10 | 3.68 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 10 | 3.68 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 10 | 3.68 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 10 | 3.68 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 10 | 3.68 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 10 | 3.68 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 19 | 3.68 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 19 | 3.68 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 19 | 3.68 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 9 | 3.68 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 9 | 3.68 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 14 | 3.68 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 14 | 3.68 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 4 | 3.68 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 4 | 3.68 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 7 | 3.68 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 7 | 3.68 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 7 | 3.68 |
| (1,4126) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 2 | 3.68 |
| (1,4126) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 2 | 3.68 |
| (1,4126) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 2 | 3.68 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 14 | 3.68 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 8 | 3.68 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 7 | 3.68 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 7 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 7 | 3.68 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 9 | 3.68 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 9 | 3.68 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 17 | 3.68 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 17 | 3.68 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 19 | 3.68 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 19 | 3.68 |
| (1,3998) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 19 | 3.68 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 6 | 3.68 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 6 | 3.68 |
| (1,3982) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 6 | 3.68 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 6 | 3.68 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 6 | 3.68 |
| (1,3982) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 6 | 3.68 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 5 | 3.68 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 5 | 3.68 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 13 | 3.68 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 13 | 3.68 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 15 | 3.68 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 15 | 3.68 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 15 | 3.68 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 15 | 3.68 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 2 | 3.68 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 3.68 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 7 | 3.68 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 7 | 3.68 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 7 | 3.68 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 7 | 3.68 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 7 | 3.68 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 7 | 3.68 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 5 | 3.68 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 5 | 3.68 |
| (1,3760) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 5 | 3.68 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 5 | 3.68 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 5 | 3.68 |
| (1,3760) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 5 | 3.68 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 20 | 3.68 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 3.68 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 12 | 3.68 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 12 | 3.68 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 9 | 3.68 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 9 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 9 | 3.68 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 9 | 3.68 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 14 | 3.68 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 14 | 3.68 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 14 | 3.68 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 14 | 3.68 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 14 | 3.68 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 14 | 3.68 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 6 | 3.68 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 6 | 3.68 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 6 | 3.68 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 6 | 3.68 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 4 | 3.68 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 9 | 3.68 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 9 | 3.68 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 6 | 3.68 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 16 | 3.68 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 12 | 3.68 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 9 | 3.68 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 9 | 3.68 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 9 | 3.68 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 1 | 3.68 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 14 | 3.68 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 17 | 3.68 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 9 | 3.68 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 13 | 3.68 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 15 | 3.68 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 6 | 3.68 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 11 | 3.68 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 11 | 3.68 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 7 | 3.68 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 7 | 3.68 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 7 | 3.68 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 15 | 3.68 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 20 | 3.68 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 20 | 3.68 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 11 | 3.68 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 18 | 3.68 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 16 | 3.68 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 13 | 3.68 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 13 | 3.68 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 13 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 6 | 3.68 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 8 | 3.68 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 8 | 3.68 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 5 | 3.68 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 5 | 3.68 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 3 | 3.68 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 3 | 3.68 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 4 | 3.68 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 4 | 3.68 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 4 | 3.68 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 4 | 3.68 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 4 | 3.68 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 4 | 3.68 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 4 | 3.68 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 4 | 3.68 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 4 | 3.68 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 4 | 3.68 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 4 | 3.68 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 17 | 3.68 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 20 | 3.68 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 15 | 3.68 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 15 | 3.68 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 15 | 3.68 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 18 | 3.68 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 17 | 3.68 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 12 | 3.68 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 17 | 3.68 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 8 | 3.68 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 8 | 3.68 |
| (1,2350) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 8 | 3.68 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 13 | 3.68 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 4 | 3.68 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 4 | 3.68 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 14 | 3.68 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 17 | 3.68 |
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 17 | 3.68 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 17 | 3.68 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 11 | 3.68 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 8 | 3.68 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 20 | 3.68 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 8 | 3.68 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 8 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 8 | 3.68 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 10 | 3.68 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 11 | 3.68 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 11 | 3.68 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 11 | 3.68 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 3 | 3.68 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 3 | 3.68 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 3 | 3.68 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 9 | 3.68 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 9 | 3.68 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 9 | 3.68 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 7 | 3.68 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 7 | 3.68 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 7 | 3.68 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 14 | 3.68 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 14 | 3.68 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 14 | 3.68 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 14 | 3.68 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 14 | 3.68 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 14 | 3.68 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 14 | 3.68 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 7 | 3.68 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 7 | 3.68 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 7 | 3.68 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 1 | 3.68 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 1 | 3.68 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 1 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 7 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 7 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 7 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 11 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 11 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 11 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 17 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 17 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 17 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 19 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 19 | 3.68 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 19 | 3.68 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 10 | 3.68 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 10 | 3.68 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 10 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 18 | 3.68 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 18 | 3.68 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 18 | 3.68 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 3.68 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 3.68 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 3.68 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 10 | 3.68 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 10 | 3.68 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 10 | 3.68 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 15 | 3.68 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 18 | 3.68 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 18 | 3.68 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 18 | 3.68 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 7 | 3.68 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 5 | 3.68 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 4 | 3.68 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 4 | 3.68 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 4 | 3.68 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 8 | 3.68 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 1 | 3.68 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 4 | 3.68 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 8 | 3.68 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 11 | 3.68 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 17 | 3.68 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 17 | 3.68 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 17 | 3.68 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 4 | 3.68 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 13 | 3.68 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 11 | 3.68 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 11 | 3.68 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 11 | 3.68 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 1 | 3.68 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 2 | 3.68 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 2 | 3.68 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 2 | 3.68 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 1 | 3.68 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 4 | 3.68 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 18 | 3.68 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 17 | 3.68 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 5 | 3.68 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 5 | 3.68 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 5 | 3.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 2 | 3.68 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 2 | 3.68 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 2 | 3.68 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 10 | 3.68 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 10 | 3.68 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 10 | 3.68 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 9 | 3.68 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 9 | 3.68 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 9 | 3.68 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 18 | 3.68 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 18 | 3.68 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 14 | 3.68 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 14 | 3.68 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 14 | 3.68 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 18 | 3.68 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 18 | 3.68 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 18 | 3.68 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 20 | 3.68 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 20 | 3.68 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 20 | 3.68 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 13 | 3.68 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 5 | 3.68 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 15 | 3.68 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 16 | 3.68 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 8 | 3.68 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 8 | 3.68 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 8 | 3.68 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 8 | 3.68 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 8 | 3.68 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 8 | 3.68 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 4 | 3.68 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 4 | 3.68 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 4 | 3.68 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 4 | 3.68 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 4 | 3.68 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 4 | 3.68 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 1 | 3.68 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 17 | 3.68 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 17 | 3.68 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 17 | 3.68 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 16 | 3.67 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 15 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 12 | 3.67 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 2 | 3.67 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 2 | 3.67 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 12 | 3.67 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 12 | 3.67 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 14 | 3.67 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 14 | 3.67 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 14 | 3.67 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 14 | 3.67 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 14 | 3.67 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 14 | 3.67 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 17 | 3.67 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 17 | 3.67 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 9 | 3.67 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 9 | 3.67 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 9 | 3.67 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 9 | 3.67 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 9 | 3.67 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 9 | 3.67 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 1 | 3.67 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 1 | 3.67 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 11 | 3.67 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 11 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 6 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 6 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 6 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 6 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 6 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 6 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 19 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 19 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 19 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 19 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 19 | 3.67 |
| (1,9363) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 19 | 3.67 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 7 | 3.67 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 7 | 3.67 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 7 | 3.67 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 7 | 3.67 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 2 | 3.67 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 2 | 3.67 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 2 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 2 | 3.67 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 4 | 3.67 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 4 | 3.67 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 4 | 3.67 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 4 | 3.67 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 17 | 3.67 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 17 | 3.67 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 17 | 3.67 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 17 | 3.67 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 17 | 3.67 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 17 | 3.67 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 5 | 3.67 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 5 | 3.67 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 5 | 3.67 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 5 | 3.67 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 3.67 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 3.67 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 3.67 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 3.67 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 3.67 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 3.67 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 17 | 3.67 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 17 | 3.67 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 17 | 3.67 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 17 | 3.67 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 17 | 3.67 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 17 | 3.67 |
| (1,9064) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 2 | 3.67 |
| (1,9064) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 2 | 3.67 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 2 | 3.67 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 2 | 3.67 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 16 | 3.67 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 16 | 3.67 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 14 | 3.67 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 14 | 3.67 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 14 | 3.67 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 14 | 3.67 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 14 | 3.67 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 14 | 3.67 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 1 | 3.67 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 1 | 3.67 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 12 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 12 | 3.67 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 13 | 3.67 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 13 | 3.67 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 13 | 3.67 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 13 | 3.67 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 1 | 3.67 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 1 | 3.67 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 2 | 3.67 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 2 | 3.67 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 2 | 3.67 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 2 | 3.67 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 13 | 3.67 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 13 | 3.67 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 13 | 3.67 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 13 | 3.67 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 13 | 3.67 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 13 | 3.67 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 14 | 3.67 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 14 | 3.67 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 17 | 3.67 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 17 | 3.67 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 17 | 3.67 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 17 | 3.67 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 17 | 3.67 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 17 | 3.67 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 2 | 3.67 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 2 | 3.67 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 2 | 3.67 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 14 | 3.67 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 14 | 3.67 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 14 | 3.67 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 1 | 3.67 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 18 | 3.67 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 18 | 3.67 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 18 | 3.67 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 2 | 3.67 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 13 | 3.67 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 3 | 3.67 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 9 | 3.67 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 9 | 3.67 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 8 | 3.67 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 8 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 9 | 3.67 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 9 | 3.67 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 10 | 3.67 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 10 | 3.67 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 12 | 3.67 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 12 | 3.67 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 6 | 3.67 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 6 | 3.67 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 9 | 3.67 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 9 | 3.67 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 9 | 3.67 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 5 | 3.67 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 14 | 3.67 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 14 | 3.67 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 14 | 3.67 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 14 | 3.67 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 14 | 3.67 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 14 | 3.67 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 14 | 3.67 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 18 | 3.67 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 18 | 3.67 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 18 | 3.67 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 4 | 3.67 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 2 | 3.67 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 8 | 3.67 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 11 | 3.67 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 11 | 3.67 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 1 | 3.67 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 1 | 3.67 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 14 | 3.67 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 14 | 3.67 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 10 | 3.67 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 20 | 3.67 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 19 | 3.67 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 19 | 3.67 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 19 | 3.67 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 19 | 3.67 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 13 | 3.67 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 13 | 3.67 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 13 | 3.67 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 9 | 3.67 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 9 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7315) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 17 | 3.67 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 12 | 3.67 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 3 | 3.67 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 2 | 3.67 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 1 | 3.67 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 10 | 3.67 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 17 | 3.67 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 17 | 3.67 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 16 | 3.67 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 16 | 3.67 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 16 | 3.67 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 16 | 3.67 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 16 | 3.67 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 16 | 3.67 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 12 | 3.67 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 12 | 3.67 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 12 | 3.67 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 14 | 3.67 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 14 | 3.67 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 1 | 3.67 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 14 | 3.67 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 7 | 3.67 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 19 | 3.67 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 19 | 3.67 |
| (1,6571) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 1 | 3.67 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 13 | 3.67 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 20 | 3.67 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 13 | 3.67 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 13 | 3.67 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 13 | 3.67 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 8 | 3.67 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 8 | 3.67 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 8 | 3.67 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 19 | 3.67 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 1 | 3.67 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 1 | 3.67 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 1 | 3.67 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 14 | 3.67 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 14 | 3.67 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 14 | 3.67 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 2 | 3.67 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 7 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 8 | 3.67 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 8 | 3.67 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 8 | 3.67 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 12 | 3.67 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 12 | 3.67 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 12 | 3.67 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 4 | 3.67 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 20 | 3.67 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 8 | 3.67 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 8 | 3.67 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 8 | 3.67 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 11 | 3.67 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 11 | 3.67 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 11 | 3.67 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 15 | 3.67 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 15 | 3.67 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 15 | 3.67 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 15 | 3.67 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 15 | 3.67 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 15 | 3.67 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 15 | 3.67 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 15 | 3.67 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 15 | 3.67 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 15 | 3.67 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 16 | 3.67 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 10 | 3.67 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 10 | 3.67 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 17 | 3.67 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 17 | 3.67 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 17 | 3.67 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 11 | 3.67 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 11 | 3.67 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 11 | 3.67 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 16 | 3.67 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 16 | 3.67 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 17 | 3.67 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 17 | 3.67 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 17 | 3.67 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 16 | 3.67 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 16 | 3.67 |
| (1,6045) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 16 | 3.67 |
| (1,6017) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 19 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6017) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 19 | 3.67 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 1 | 3.67 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 3 | 3.67 |
| (1,5981) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 17 | 3.67 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 3.67 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 4 | 3.67 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 4 | 3.67 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 4 | 3.67 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 4 | 3.67 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 4 | 3.67 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 4 | 3.67 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 4 | 3.67 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 10 | 3.67 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 10 | 3.67 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 2 | 3.67 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 2 | 3.67 |
| (1,5683) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 2 | 3.67 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 6 | 3.67 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 11 | 3.67 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 5 | 3.67 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 8 | 3.67 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 8 | 3.67 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 8 | 3.67 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 10 | 3.67 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 13 | 3.67 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 4 | 3.67 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 13 | 3.67 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 7 | 3.67 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 7 | 3.67 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 7 | 3.67 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 20 | 3.67 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 20 | 3.67 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 20 | 3.67 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 10 | 3.67 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 10 | 3.67 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 10 | 3.67 |
| (1,5407) | 1:88:A:LEU:H | 1:91:A:GLY:H | 12 | 3.67 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 5 | 3.67 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 5 | 3.67 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 5 | 3.67 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 13 | 3.67 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 16 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 5 | 3.67 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 18 | 3.67 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 14 | 3.67 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 2 | 3.67 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 2 | 3.67 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 2 | 3.67 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 8 | 3.67 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 8 | 3.67 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 8 | 3.67 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 5 | 3.67 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 6 | 3.67 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 16 | 3.67 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 16 | 3.67 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 16 | 3.67 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 14 | 3.67 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 14 | 3.67 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 14 | 3.67 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 14 | 3.67 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 14 | 3.67 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 14 | 3.67 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 8 | 3.67 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 15 | 3.67 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 7 | 3.67 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 5 | 3.67 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 8 | 3.67 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 18 | 3.67 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 18 | 3.67 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 18 | 3.67 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 14 | 3.67 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 14 | 3.67 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 14 | 3.67 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 18 | 3.67 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 18 | 3.67 |
| (1,4808) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 18 | 3.67 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 18 | 3.67 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 18 | 3.67 |
| (1,4808) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 18 | 3.67 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 18 | 3.67 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 18 | 3.67 |
| (1,4808) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 18 | 3.67 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 18 | 3.67 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 18 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 18 | 3.67 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 18 | 3.67 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 18 | 3.67 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 18 | 3.67 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 18 | 3.67 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 5 | 3.67 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 5 | 3.67 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 5 | 3.67 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 5 | 3.67 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 5 | 3.67 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 5 | 3.67 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 6 | 3.67 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 6 | 3.67 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 9 | 3.67 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 9 | 3.67 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 15 | 3.67 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 12 | 3.67 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 12 | 3.67 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 10 | 3.67 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 10 | 3.67 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 10 | 3.67 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 17 | 3.67 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 5 | 3.67 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 5 | 3.67 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 5 | 3.67 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 5 | 3.67 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 17 | 3.67 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 17 | 3.67 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 9 | 3.67 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 9 | 3.67 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 9 | 3.67 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 9 | 3.67 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 9 | 3.67 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 9 | 3.67 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 1 | 3.67 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 1 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 6 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 6 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 6 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 6 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 6 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 6 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 19 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 19 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 19 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 19 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 19 | 3.67 |
| (1,4366) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 19 | 3.67 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 8 | 3.67 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 15 | 3.67 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 15 | 3.67 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 10 | 3.67 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 7 | 3.67 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 7 | 3.67 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 7 | 3.67 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 7 | 3.67 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 4 | 3.67 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 4 | 3.67 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 4 | 3.67 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 4 | 3.67 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 3 | 3.67 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 15 | 3.67 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 15 | 3.67 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 15 | 3.67 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 14 | 3.67 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 14 | 3.67 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 17 | 3.67 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 17 | 3.67 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 17 | 3.67 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 17 | 3.67 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 17 | 3.67 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 17 | 3.67 |
| (1,4137) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 5 | 3.67 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 1 | 3.67 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 3.67 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 3.67 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 3.67 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 3.67 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 3.67 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 3.67 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 17 | 3.67 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 17 | 3.67 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 17 | 3.67 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 17 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 17 | 3.67 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 17 | 3.67 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 13 | 3.67 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 4 | 3.67 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 3.67 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 2 | 3.67 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 16 | 3.67 |
| (1,3932) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 16 | 3.67 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 2 | 3.67 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 2 | 3.67 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 3 | 3.67 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 1 | 3.67 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 1 | 3.67 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 1 | 3.67 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 1 | 3.67 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 15 | 3.67 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 17 | 3.67 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 17 | 3.67 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 17 | 3.67 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 17 | 3.67 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 17 | 3.67 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 17 | 3.67 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 14 | 3.67 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 14 | 3.67 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 14 | 3.67 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 14 | 3.67 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 14 | 3.67 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 14 | 3.67 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 1 | 3.67 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 5 | 3.67 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 5 | 3.67 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 16 | 3.67 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 16 | 3.67 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 16 | 3.67 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 14 | 3.67 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 14 | 3.67 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 14 | 3.67 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 14 | 3.67 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 14 | 3.67 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 14 | 3.67 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 1 | 3.67 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 1 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 13 | 3.67 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 13 | 3.67 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 2 | 3.67 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 2 | 3.67 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 2 | 3.67 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 2 | 3.67 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 10 | 3.67 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 10 | 3.67 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 18 | 3.67 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 12 | 3.67 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 2 | 3.67 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 12 | 3.67 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 3 | 3.67 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 1 | 3.67 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 2 | 3.67 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 11 | 3.67 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 1 | 3.67 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 10 | 3.67 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 17 | 3.67 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 17 | 3.67 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 16 | 3.67 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 16 | 3.67 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 16 | 3.67 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 16 | 3.67 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 7 | 3.67 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 14 | 3.67 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 16 | 3.67 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 16 | 3.67 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 16 | 3.67 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 12 | 3.67 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 12 | 3.67 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 12 | 3.67 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 14 | 3.67 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 14 | 3.67 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 5 | 3.67 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 5 | 3.67 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 1 | 3.67 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 3 | 3.67 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 14 | 3.67 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 7 | 3.67 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 19 | 3.67 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 19 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2430) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 1 | 3.67 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 13 | 3.67 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 20 | 3.67 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 13 | 3.67 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 13 | 3.67 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 13 | 3.67 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 10 | 3.67 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 8 | 3.67 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 8 | 3.67 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 8 | 3.67 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 19 | 3.67 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 8 | 3.67 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 1 | 3.67 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 1 | 3.67 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 1 | 3.67 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 6 | 3.67 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 2 | 3.67 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 14 | 3.67 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 14 | 3.67 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 14 | 3.67 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 19 | 3.67 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 2 | 3.67 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 7 | 3.67 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 18 | 3.67 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 8 | 3.67 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 8 | 3.67 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 8 | 3.67 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 12 | 3.67 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 12 | 3.67 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 12 | 3.67 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 4 | 3.67 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 20 | 3.67 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 8 | 3.67 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 8 | 3.67 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 8 | 3.67 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 11 | 3.67 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 11 | 3.67 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 11 | 3.67 |
| (1,1921) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 18 | 3.67 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 15 | 3.67 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 15 | 3.67 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 15 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 15 | 3.67 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 15 | 3.67 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 15 | 3.67 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 15 | 3.67 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 15 | 3.67 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 15 | 3.67 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 15 | 3.67 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 16 | 3.67 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 10 | 3.67 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 10 | 3.67 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 3 | 3.67 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 3 | 3.67 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 3 | 3.67 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 17 | 3.67 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 17 | 3.67 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 17 | 3.67 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 11 | 3.67 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 11 | 3.67 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 11 | 3.67 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 10 | 3.67 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 10 | 3.67 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 10 | 3.67 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 16 | 3.67 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 16 | 3.67 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 17 | 3.67 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 17 | 3.67 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 17 | 3.67 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 16 | 3.67 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 16 | 3.67 |
| (1,1594) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 16 | 3.67 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 16 | 3.67 |
| (1,1530) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 19 | 3.67 |
| (1,1530) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 19 | 3.67 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 1 | 3.67 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 17 | 3.67 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 17 | 3.67 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 3 | 3.67 |
| (1,1472) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 17 | 3.67 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 3.67 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 6 | 3.67 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 6 | 3.67 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 6 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 3.67 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 4 | 3.67 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 4 | 3.67 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 4 | 3.67 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 4 | 3.67 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 4 | 3.67 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 4 | 3.67 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 7 | 3.67 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 9 | 3.67 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 11 | 3.67 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 11 | 3.67 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 4 | 3.67 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 10 | 3.67 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 8 | 3.67 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 18 | 3.67 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 10 | 3.67 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 2 | 3.67 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 2 | 3.67 |
| (1,948) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 2 | 3.67 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 6 | 3.67 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 11 | 3.67 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 6 | 3.67 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 5 | 3.67 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 8 | 3.67 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 8 | 3.67 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 8 | 3.67 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 19 | 3.67 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 19 | 3.67 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 7 | 3.67 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 7 | 3.67 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 7 | 3.67 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 10 | 3.67 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 10 | 3.67 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 10 | 3.67 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 10 | 3.67 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 13 | 3.67 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 18 | 3.67 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 4 | 3.67 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 13 | 3.67 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 7 | 3.67 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 7 | 3.67 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 7 | 3.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 20 | 3.67 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 20 | 3.67 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 20 | 3.67 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 9 | 3.67 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 9 | 3.67 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 9 | 3.67 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 14 | 3.67 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 10 | 3.66 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 10 | 3.66 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 4 | 3.66 |
| (4,12) | 1:15:A:MET:CB | 1:60:A:LEU:H | 14 | 3.66 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 10 | 3.66 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 10 | 3.66 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 2 | 3.66 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 2 | 3.66 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 2 | 3.66 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 2 | 3.66 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 2 | 3.66 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 2 | 3.66 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 6 | 3.66 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 6 | 3.66 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 6 | 3.66 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 6 | 3.66 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 6 | 3.66 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 6 | 3.66 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 6 | 3.66 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 6 | 3.66 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 5 | 3.66 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 5 | 3.66 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 12 | 3.66 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 12 | 3.66 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 10 | 3.66 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 10 | 3.66 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 10 | 3.66 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 10 | 3.66 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 10 | 3.66 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 10 | 3.66 |
| (1,9526) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 1 | 3.66 |
| (1,9526) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 1 | 3.66 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 10 | 3.66 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 10 | 3.66 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 10 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 10 | 3.66 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 15 | 3.66 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 15 | 3.66 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 15 | 3.66 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 15 | 3.66 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 16 | 3.66 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 16 | 3.66 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 16 | 3.66 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 16 | 3.66 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 4 | 3.66 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 4 | 3.66 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 5 | 3.66 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 5 | 3.66 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 5 | 3.66 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 5 | 3.66 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 6 | 3.66 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 6 | 3.66 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 6 | 3.66 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 6 | 3.66 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 6 | 3.66 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 6 | 3.66 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 18 | 3.66 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 18 | 3.66 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 18 | 3.66 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 18 | 3.66 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 18 | 3.66 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 18 | 3.66 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE2 | 4 | 3.66 |
| (1,9054) | 1:82:A:LYS:H | 1:82:A:LYS:HE3 | 4 | 3.66 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 7 | 3.66 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 7 | 3.66 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 1 | 3.66 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 1 | 3.66 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 11 | 3.66 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 11 | 3.66 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 14 | 3.66 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 14 | 3.66 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 15 | 3.66 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 15 | 3.66 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 5 | 3.66 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 5 | 3.66 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 3 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 3 | 3.66 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 3 | 3.66 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 3 | 3.66 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 14 | 3.66 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 14 | 3.66 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 14 | 3.66 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 14 | 3.66 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 7 | 3.66 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 7 | 3.66 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 20 | 3.66 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 20 | 3.66 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 19 | 3.66 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 19 | 3.66 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 19 | 3.66 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 19 | 3.66 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 19 | 3.66 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 19 | 3.66 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 12 | 3.66 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 12 | 3.66 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 3 | 3.66 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 3 | 3.66 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 3 | 3.66 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 3 | 3.66 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 3 | 3.66 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 3 | 3.66 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 12 | 3.66 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 12 | 3.66 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 2 | 3.66 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 17 | 3.66 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG21 | 4 | 3.66 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG22 | 4 | 3.66 |
| (1,8348) | 1:133:A:PRO:HA | 1:152:A:THR:HG23 | 4 | 3.66 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 16 | 3.66 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 13 | 3.66 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 13 | 3.66 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 13 | 3.66 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 13 | 3.66 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 14 | 3.66 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 14 | 3.66 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 13 | 3.66 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 6 | 3.66 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 6 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 6 | 3.66 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 5 | 3.66 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 5 | 3.66 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 5 | 3.66 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 8 | 3.66 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 8 | 3.66 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 8 | 3.66 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 20 | 3.66 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 11 | 3.66 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 11 | 3.66 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 9 | 3.66 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 9 | 3.66 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 9 | 3.66 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 1 | 3.66 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 9 | 3.66 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 9 | 3.66 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 9 | 3.66 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 9 | 3.66 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 13 | 3.66 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 13 | 3.66 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 13 | 3.66 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 13 | 3.66 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 5 | 3.66 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 7 | 3.66 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 7 | 3.66 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 7 | 3.66 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 7 | 3.66 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 11 | 3.66 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 11 | 3.66 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 11 | 3.66 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 11 | 3.66 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 3 | 3.66 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 3 | 3.66 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 3 | 3.66 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 3 | 3.66 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 5 | 3.66 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 5 | 3.66 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 1 | 3.66 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 9 | 3.66 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 1 | 3.66 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 9 | 3.66 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 9 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 9 | 3.66 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 9 | 3.66 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 9 | 3.66 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 9 | 3.66 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 20 | 3.66 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 20 | 3.66 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 9 | 3.66 |
| (1,7327) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 16 | 3.66 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 2 | 3.66 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 16 | 3.66 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 18 | 3.66 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 18 | 3.66 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 8 | 3.66 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 13 | 3.66 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 6 | 3.66 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 5 | 3.66 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 5 | 3.66 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 5 | 3.66 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 16 | 3.66 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 16 | 3.66 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 16 | 3.66 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 11 | 3.66 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 11 | 3.66 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 11 | 3.66 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 7 | 3.66 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 5 | 3.66 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 5 | 3.66 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 5 | 3.66 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 5 | 3.66 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 11 | 3.66 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 11 | 3.66 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 11 | 3.66 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 11 | 3.66 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 15 | 3.66 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 10 | 3.66 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 10 | 3.66 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 18 | 3.66 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 18 | 3.66 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 18 | 3.66 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 3 | 3.66 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 3 | 3.66 |
| (1,6657) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 3 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 3 | 3.66 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 3 | 3.66 |
| (1,6657) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 3 | 3.66 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 14 | 3.66 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 14 | 3.66 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 14 | 3.66 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 9 | 3.66 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 5 | 3.66 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 5 | 3.66 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 10 | 3.66 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 1 | 3.66 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 1 | 3.66 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 1 | 3.66 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 14 | 3.66 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 14 | 3.66 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 14 | 3.66 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 15 | 3.66 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 15 | 3.66 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 15 | 3.66 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 19 | 3.66 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 19 | 3.66 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 19 | 3.66 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 19 | 3.66 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 19 | 3.66 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 19 | 3.66 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 19 | 3.66 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 19 | 3.66 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 19 | 3.66 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 19 | 3.66 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 19 | 3.66 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 19 | 3.66 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 15 | 3.66 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 15 | 3.66 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 15 | 3.66 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 18 | 3.66 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 18 | 3.66 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 18 | 3.66 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 18 | 3.66 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 18 | 3.66 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 18 | 3.66 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 19 | 3.66 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 19 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 19 | 3.66 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 19 | 3.66 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 19 | 3.66 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 19 | 3.66 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 19 | 3.66 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 19 | 3.66 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 19 | 3.66 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 1 | 3.66 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 11 | 3.66 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 11 | 3.66 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 11 | 3.66 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 11 | 3.66 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 11 | 3.66 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 11 | 3.66 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 11 | 3.66 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 11 | 3.66 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 11 | 3.66 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 7 | 3.66 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 15 | 3.66 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 15 | 3.66 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 15 | 3.66 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 11 | 3.66 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 11 | 3.66 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 11 | 3.66 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 10 | 3.66 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 10 | 3.66 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 10 | 3.66 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 13 | 3.66 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 11 | 3.66 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 11 | 3.66 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 9 | 3.66 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 3.66 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 12 | 3.66 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 12 | 3.66 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 3 | 3.66 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 3 | 3.66 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 3 | 3.66 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 3 | 3.66 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 3 | 3.66 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 3 | 3.66 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 3 | 3.66 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 3 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 3 | 3.66 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 2 | 3.66 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 2 | 3.66 |
| (1,5866) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 2 | 3.66 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 10 | 3.66 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 12 | 3.66 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 12 | 3.66 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 6 | 3.66 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 6 | 3.66 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 6 | 3.66 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 14 | 3.66 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 16 | 3.66 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 20 | 3.66 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 5 | 3.66 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 5 | 3.66 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 13 | 3.66 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 13 | 3.66 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 13 | 3.66 |
| (1,5727) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 19 | 3.66 |
| (1,5727) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 19 | 3.66 |
| (1,5727) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 19 | 3.66 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 2 | 3.66 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 2 | 3.66 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 2 | 3.66 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 19 | 3.66 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 19 | 3.66 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 19 | 3.66 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 15 | 3.66 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 17 | 3.66 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 1 | 3.66 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 1 | 3.66 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 1 | 3.66 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 1 | 3.66 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 1 | 3.66 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 1 | 3.66 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 10 | 3.66 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 10 | 3.66 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 10 | 3.66 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 15 | 3.66 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 15 | 3.66 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 15 | 3.66 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 2 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 2 | 3.66 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 1 | 3.66 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 19 | 3.66 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 19 | 3.66 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 19 | 3.66 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 9 | 3.66 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 5 | 3.66 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 9 | 3.66 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 18 | 3.66 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 18 | 3.66 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 18 | 3.66 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 18 | 3.66 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 18 | 3.66 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 18 | 3.66 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 18 | 3.66 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 18 | 3.66 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 18 | 3.66 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 9 | 3.66 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 9 | 3.66 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 9 | 3.66 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 11 | 3.66 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 10 | 3.66 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 10 | 3.66 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 10 | 3.66 |
| (1,5234) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 16 | 3.66 |
| (1,5234) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 16 | 3.66 |
| (1,5234) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 16 | 3.66 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 17 | 3.66 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 1 | 3.66 |
| (1,5136) | 1:81:A:THR:HB | 1:83:A:GLU:H | 17 | 3.66 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 2 | 3.66 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 2 | 3.66 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 2 | 3.66 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 18 | 3.66 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 18 | 3.66 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 18 | 3.66 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 13 | 3.66 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 13 | 3.66 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 1 | 3.66 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 7 | 3.66 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 7 | 3.66 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 7 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 8 | 3.66 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 6 | 3.66 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 6 | 3.66 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 10 | 3.66 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 3 | 3.66 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 1 | 3.66 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 1 | 3.66 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 1 | 3.66 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 12 | 3.66 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 12 | 3.66 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 12 | 3.66 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 12 | 3.66 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 12 | 3.66 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 12 | 3.66 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 12 | 3.66 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 12 | 3.66 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 12 | 3.66 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 8 | 3.66 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 13 | 3.66 |
| (1,4695) | 1:55:A:VAL:H | 1:56:A:ARG:H | 11 | 3.66 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 19 | 3.66 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 17 | 3.66 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 5 | 3.66 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 5 | 3.66 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 12 | 3.66 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 12 | 3.66 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 1 | 3.66 |
| (1,4533) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 4 | 3.66 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 19 | 3.66 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 19 | 3.66 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 10 | 3.66 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 10 | 3.66 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 10 | 3.66 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 10 | 3.66 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 13 | 3.66 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 13 | 3.66 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 13 | 3.66 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 13 | 3.66 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 5 | 3.66 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 11 | 3.66 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 3 | 3.66 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 3 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 2 | 3.66 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 2 | 3.66 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 19 | 3.66 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 19 | 3.66 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 6 | 3.66 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 6 | 3.66 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 6 | 3.66 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 6 | 3.66 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 6 | 3.66 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 6 | 3.66 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 19 | 3.66 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 2 | 3.66 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 2 | 3.66 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 2 | 3.66 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 1 | 3.66 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 1 | 3.66 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 1 | 3.66 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 1 | 3.66 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 13 | 3.66 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 3.66 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 3.66 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 8 | 3.66 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 13 | 3.66 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 13 | 3.66 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 13 | 3.66 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 3.66 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 3.66 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 3.66 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 19 | 3.66 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 19 | 3.66 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 19 | 3.66 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 18 | 3.66 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 18 | 3.66 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 18 | 3.66 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 18 | 3.66 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 18 | 3.66 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 18 | 3.66 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 8 | 3.66 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 2 | 3.66 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 1 | 3.66 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 1 | 3.66 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 11 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 11 | 3.66 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 10 | 3.66 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 20 | 3.66 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 13 | 3.66 |
| (1,3868) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 15 | 3.66 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 7 | 3.66 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 17 | 3.66 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 1 | 3.66 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 1 | 3.66 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 13 | 3.66 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 13 | 3.66 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 13 | 3.66 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 9 | 3.66 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 19 | 3.66 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 19 | 3.66 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 19 | 3.66 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 19 | 3.66 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 19 | 3.66 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 19 | 3.66 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 12 | 3.66 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 12 | 3.66 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 3 | 3.66 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 3 | 3.66 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 3 | 3.66 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 3 | 3.66 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 3 | 3.66 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 3 | 3.66 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 9 | 3.66 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 14 | 3.66 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 10 | 3.66 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 1 | 3.66 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 1 | 3.66 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 6 | 3.66 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 7 | 3.66 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 18 | 3.66 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 16 | 3.66 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 18 | 3.66 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 18 | 3.66 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 8 | 3.66 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 5 | 3.66 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 18 | 3.66 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 13 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 6 | 3.66 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 14 | 3.66 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 9 | 3.66 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 11 | 3.66 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 5 | 3.66 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 5 | 3.66 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 5 | 3.66 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 16 | 3.66 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 16 | 3.66 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 16 | 3.66 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 11 | 3.66 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 11 | 3.66 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 11 | 3.66 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 6 | 3.66 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 6 | 3.66 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 7 | 3.66 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 5 | 3.66 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 5 | 3.66 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 5 | 3.66 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 5 | 3.66 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 15 | 3.66 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 10 | 3.66 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 17 | 3.66 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 10 | 3.66 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 18 | 3.66 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 18 | 3.66 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 18 | 3.66 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 12 | 3.66 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 3 | 3.66 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 3 | 3.66 |
| (1,2540) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 3 | 3.66 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 3 | 3.66 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 3 | 3.66 |
| (1,2540) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 3 | 3.66 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 9 | 3.66 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 10 | 3.66 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 10 | 3.66 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 1 | 3.66 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 1 | 3.66 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 1 | 3.66 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 14 | 3.66 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 14 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 14 | 3.66 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 10 | 3.66 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 15 | 3.66 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 13 | 3.66 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 15 | 3.66 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 15 | 3.66 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 15 | 3.66 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 19 | 3.66 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 19 | 3.66 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 19 | 3.66 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 19 | 3.66 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 19 | 3.66 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 19 | 3.66 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 19 | 3.66 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 19 | 3.66 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 19 | 3.66 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 19 | 3.66 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 19 | 3.66 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 19 | 3.66 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 7 | 3.66 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 7 | 3.66 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 7 | 3.66 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 15 | 3.66 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 15 | 3.66 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 15 | 3.66 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 15 | 3.66 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 15 | 3.66 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 15 | 3.66 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 18 | 3.66 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 18 | 3.66 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 18 | 3.66 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 18 | 3.66 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 18 | 3.66 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 18 | 3.66 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 7 | 3.66 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 7 | 3.66 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 7 | 3.66 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 19 | 3.66 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 19 | 3.66 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 19 | 3.66 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 19 | 3.66 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 19 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 19 | 3.66 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 19 | 3.66 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 19 | 3.66 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 19 | 3.66 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 6 | 3.66 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 6 | 3.66 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 6 | 3.66 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 1 | 3.66 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 11 | 3.66 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 11 | 3.66 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 11 | 3.66 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 11 | 3.66 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 11 | 3.66 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 11 | 3.66 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 11 | 3.66 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 11 | 3.66 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 11 | 3.66 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 7 | 3.66 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 15 | 3.66 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 15 | 3.66 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 15 | 3.66 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 16 | 3.66 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 16 | 3.66 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 16 | 3.66 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 11 | 3.66 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 11 | 3.66 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 11 | 3.66 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 10 | 3.66 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 10 | 3.66 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 10 | 3.66 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 13 | 3.66 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 16 | 3.66 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 16 | 3.66 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 16 | 3.66 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 11 | 3.66 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 11 | 3.66 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 3.66 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 12 | 3.66 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 9 | 3.66 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 18 | 3.66 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 9 | 3.66 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 12 | 3.66 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 12 | 3.66 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 3 | 3.66 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 3 | 3.66 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 3 | 3.66 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 3 | 3.66 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 3 | 3.66 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 3 | 3.66 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 3 | 3.66 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 3 | 3.66 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 3 | 3.66 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 2 | 3.66 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 2 | 3.66 |
| (1,1268) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 2 | 3.66 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 10 | 3.66 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 12 | 3.66 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 12 | 3.66 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 6 | 3.66 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 6 | 3.66 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 6 | 3.66 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 14 | 3.66 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 16 | 3.66 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 20 | 3.66 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 19 | 3.66 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 5 | 3.66 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 5 | 3.66 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 5 | 3.66 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 13 | 3.66 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 13 | 3.66 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 13 | 3.66 |
| (1,1012) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 19 | 3.66 |
| (1,1012) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 19 | 3.66 |
| (1,1012) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 19 | 3.66 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 2 | 3.66 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 2 | 3.66 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 2 | 3.66 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 19 | 3.66 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 19 | 3.66 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 19 | 3.66 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 17 | 3.66 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 17 | 3.66 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 17 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 15 | 3.66 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 1 | 3.66 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 1 | 3.66 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 1 | 3.66 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 1 | 3.66 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 1 | 3.66 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 1 | 3.66 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 10 | 3.66 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 10 | 3.66 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 10 | 3.66 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 5 | 3.66 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 18 | 3.66 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 3 | 3.66 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 18 | 3.66 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 5 | 3.66 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 5 | 3.66 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 5 | 3.66 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 5 | 3.66 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 5 | 3.66 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 5 | 3.66 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 18 | 3.66 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 18 | 3.66 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 18 | 3.66 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 18 | 3.66 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 18 | 3.66 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 1 | 3.66 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 16 | 3.66 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 12 | 3.66 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 3 | 3.66 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 13 | 3.66 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 18 | 3.65 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 14 | 3.65 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 14 | 3.65 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 11 | 3.65 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 11 | 3.65 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 7 | 3.65 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 7 | 3.65 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 18 | 3.65 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 18 | 3.65 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 18 | 3.65 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 18 | 3.65 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 18 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 18 | 3.65 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 19 | 3.65 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 19 | 3.65 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 10 | 3.65 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 10 | 3.65 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 4 | 3.65 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 4 | 3.65 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 19 | 3.65 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 19 | 3.65 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 19 | 3.65 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 19 | 3.65 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 19 | 3.65 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 19 | 3.65 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 6 | 3.65 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 6 | 3.65 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 3 | 3.65 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 3 | 3.65 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 3 | 3.65 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 3 | 3.65 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 3 | 3.65 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 3 | 3.65 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 6 | 3.65 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 6 | 3.65 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 13 | 3.65 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 13 | 3.65 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 13 | 3.65 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 13 | 3.65 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 20 | 3.65 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 20 | 3.65 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 20 | 3.65 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 20 | 3.65 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 20 | 3.65 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 20 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 9 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 9 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 9 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 9 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 9 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 9 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 18 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 18 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 18 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 18 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 18 | 3.65 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 18 | 3.65 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 17 | 3.65 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 17 | 3.65 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 3 | 3.65 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 3 | 3.65 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 14 | 3.65 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 14 | 3.65 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 17 | 3.65 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 17 | 3.65 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 4 | 3.65 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 4 | 3.65 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 1 | 3.65 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 1 | 3.65 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 16 | 3.65 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 16 | 3.65 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 2 | 3.65 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 2 | 3.65 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 2 | 3.65 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 2 | 3.65 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 2 | 3.65 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 2 | 3.65 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 11 | 3.65 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 11 | 3.65 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 11 | 3.65 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 11 | 3.65 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 10 | 3.65 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 10 | 3.65 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 15 | 3.65 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 15 | 3.65 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 15 | 3.65 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 15 | 3.65 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 15 | 3.65 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 15 | 3.65 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 17 | 3.65 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 17 | 3.65 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 8 | 3.65 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 8 | 3.65 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 12 | 3.65 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 12 | 3.65 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 4 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 4 | 3.65 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 4 | 3.65 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 4 | 3.65 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 4 | 3.65 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 4 | 3.65 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 6 | 3.65 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 6 | 3.65 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 6 | 3.65 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 6 | 3.65 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 3 | 3.65 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 3 | 3.65 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 4 | 3.65 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 4 | 3.65 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 18 | 3.65 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 18 | 3.65 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 20 | 3.65 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 20 | 3.65 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 20 | 3.65 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 20 | 3.65 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 13 | 3.65 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 13 | 3.65 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 3.65 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 3.65 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 11 | 3.65 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 11 | 3.65 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 14 | 3.65 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 14 | 3.65 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 14 | 3.65 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 14 | 3.65 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 14 | 3.65 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 14 | 3.65 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 2 | 3.65 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 2 | 3.65 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 2 | 3.65 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 2 | 3.65 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 2 | 3.65 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 2 | 3.65 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 4 | 3.65 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 4 | 3.65 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 4 | 3.65 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 4 | 3.65 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 9 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 9 | 3.65 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 9 | 3.65 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 9 | 3.65 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 9 | 3.65 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 9 | 3.65 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 4 | 3.65 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 4 | 3.65 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 4 | 3.65 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 1 | 3.65 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 7 | 3.65 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 7 | 3.65 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 7 | 3.65 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 2 | 3.65 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 2 | 3.65 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 2 | 3.65 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 2 | 3.65 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 2 | 3.65 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 2 | 3.65 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 2 | 3.65 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 2 | 3.65 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 2 | 3.65 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 4 | 3.65 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 19 | 3.65 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 16 | 3.65 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 13 | 3.65 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 11 | 3.65 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 11 | 3.65 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 11 | 3.65 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 11 | 3.65 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 11 | 3.65 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 11 | 3.65 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 11 | 3.65 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 11 | 3.65 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 11 | 3.65 |
| (1,8144) | 1:96:A:ILE:HG21 | 1:101:A:GLU:H | 13 | 3.65 |
| (1,8144) | 1:96:A:ILE:HG22 | 1:101:A:GLU:H | 13 | 3.65 |
| (1,8144) | 1:96:A:ILE:HG23 | 1:101:A:GLU:H | 13 | 3.65 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 18 | 3.65 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 18 | 3.65 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 18 | 3.65 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 20 | 3.65 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 20 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 20 | 3.65 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 12 | 3.65 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 12 | 3.65 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 12 | 3.65 |
| (1,8058) | 1:89:A:ILE:HD11 | 1:150:A:VAL:H | 12 | 3.65 |
| (1,8058) | 1:89:A:ILE:HD12 | 1:150:A:VAL:H | 12 | 3.65 |
| (1,8058) | 1:89:A:ILE:HD13 | 1:150:A:VAL:H | 12 | 3.65 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 19 | 3.65 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 14 | 3.65 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 7 | 3.65 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 7 | 3.65 |
| (1,7821) | 1:60:A:LEU:HD11 | 1:110:A:PHE:H | 9 | 3.65 |
| (1,7821) | 1:60:A:LEU:HD12 | 1:110:A:PHE:H | 9 | 3.65 |
| (1,7821) | 1:60:A:LEU:HD13 | 1:110:A:PHE:H | 9 | 3.65 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 8 | 3.65 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 16 | 3.65 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 16 | 3.65 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 16 | 3.65 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 12 | 3.65 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 20 | 3.65 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 13 | 3.65 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 13 | 3.65 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 19 | 3.65 |
| (1,7492) | 1:13:A:LYS:HA | 1:13:A:LYS:HD3 | 17 | 3.65 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 12 | 3.65 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 6 | 3.65 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 6 | 3.65 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 6 | 3.65 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 6 | 3.65 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 6 | 3.65 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 6 | 3.65 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 7 | 3.65 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 7 | 3.65 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 7 | 3.65 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB1 | 10 | 3.65 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB2 | 10 | 3.65 |
| (1,7386) | 1:1:A:MET:HA | 1:2:A:ALA:HB3 | 10 | 3.65 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 7 | 3.65 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 1 | 3.65 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 1 | 3.65 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 1 | 3.65 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 1 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 1 | 3.65 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 1 | 3.65 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 14 | 3.65 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 1 | 3.65 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 1 | 3.65 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 7 | 3.65 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 16 | 3.65 |
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 12 | 3.65 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 13 | 3.65 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 2 | 3.65 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 2 | 3.65 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 2 | 3.65 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 19 | 3.65 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 10 | 3.65 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 10 | 3.65 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 10 | 3.65 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 3 | 3.65 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 8 | 3.65 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 11 | 3.65 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 11 | 3.65 |
| (1,6786) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 11 | 3.65 |
| (1,6786) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 11 | 3.65 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 8 | 3.65 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 8 | 3.65 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 8 | 3.65 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 8 | 3.65 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 8 | 3.65 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 8 | 3.65 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 8 | 3.65 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 8 | 3.65 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 8 | 3.65 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 4 | 3.65 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 14 | 3.65 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 11 | 3.65 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 11 | 3.65 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 11 | 3.65 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 11 | 3.65 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 11 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 3 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 3 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 3 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 7 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 7 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 7 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 12 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 12 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 12 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 20 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 20 | 3.65 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 20 | 3.65 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 9 | 3.65 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 9 | 3.65 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 9 | 3.65 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 3 | 3.65 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 3 | 3.65 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 3 | 3.65 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 17 | 3.65 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 13 | 3.65 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 13 | 3.65 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 13 | 3.65 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 19 | 3.65 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 19 | 3.65 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 19 | 3.65 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 9 | 3.65 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 5 | 3.65 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 5 | 3.65 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 5 | 3.65 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 10 | 3.65 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 17 | 3.65 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 11 | 3.65 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 19 | 3.65 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 19 | 3.65 |
| (1,6231) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 19 | 3.65 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 4 | 3.65 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 4 | 3.65 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 4 | 3.65 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 4 | 3.65 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 4 | 3.65 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 4 | 3.65 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 1 | 3.65 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 1 | 3.65 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 1 | 3.65 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 18 | 3.65 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 18 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 18 | 3.65 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 1 | 3.65 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 1 | 3.65 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 1 | 3.65 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 7 | 3.65 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 7 | 3.65 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 7 | 3.65 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 5 | 3.65 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 9 | 3.65 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 20 | 3.65 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 1 | 3.65 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 1 | 3.65 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 1 | 3.65 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 1 | 3.65 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 1 | 3.65 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 1 | 3.65 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 1 | 3.65 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 1 | 3.65 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 1 | 3.65 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 4 | 3.65 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 19 | 3.65 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 11 | 3.65 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 18 | 3.65 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 18 | 3.65 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 12 | 3.65 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 5 | 3.65 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 5 | 3.65 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 10 | 3.65 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 10 | 3.65 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 10 | 3.65 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 4 | 3.65 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 14 | 3.65 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 19 | 3.65 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 19 | 3.65 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 19 | 3.65 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 11 | 3.65 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 11 | 3.65 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 11 | 3.65 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 20 | 3.65 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 4 | 3.65 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 4 | 3.65 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 4 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 14 | 3.65 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 14 | 3.65 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 14 | 3.65 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 7 | 3.65 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 7 | 3.65 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 10 | 3.65 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 10 | 3.65 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 10 | 3.65 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 14 | 3.65 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 14 | 3.65 |
| (1,5369) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 14 | 3.65 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 17 | 3.65 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 17 | 3.65 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 17 | 3.65 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 13 | 3.65 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 13 | 3.65 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 13 | 3.65 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 17 | 3.65 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 17 | 3.65 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 17 | 3.65 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 19 | 3.65 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 19 | 3.65 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 19 | 3.65 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 13 | 3.65 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 13 | 3.65 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 13 | 3.65 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 8 | 3.65 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 10 | 3.65 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 10 | 3.65 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 19 | 3.65 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 19 | 3.65 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 19 | 3.65 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 15 | 3.65 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 15 | 3.65 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 15 | 3.65 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 12 | 3.65 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 5 | 3.65 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 9 | 3.65 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 9 | 3.65 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 9 | 3.65 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 9 | 3.65 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 9 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 9 | 3.65 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 9 | 3.65 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 9 | 3.65 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 9 | 3.65 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 7 | 3.65 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 7 | 3.65 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 7 | 3.65 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 17 | 3.65 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 17 | 3.65 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 17 | 3.65 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 13 | 3.65 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 13 | 3.65 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 13 | 3.65 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 16 | 3.65 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 12 | 3.65 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 17 | 3.65 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 17 | 3.65 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 10 | 3.65 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 10 | 3.65 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 10 | 3.65 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 11 | 3.65 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 11 | 3.65 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 10 | 3.65 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 10 | 3.65 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 19 | 3.65 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 19 | 3.65 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 19 | 3.65 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 19 | 3.65 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 19 | 3.65 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 19 | 3.65 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 3.65 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 3.65 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 5 | 3.65 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 5 | 3.65 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 5 | 3.65 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 3.65 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 3.65 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 3.65 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 3 | 3.65 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 3 | 3.65 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 3 | 3.65 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 3 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 3 | 3.65 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 3 | 3.65 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 19 | 3.65 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 19 | 3.65 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 19 | 3.65 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 6 | 3.65 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 6 | 3.65 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 13 | 3.65 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 13 | 3.65 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 13 | 3.65 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 13 | 3.65 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 3.65 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 3.65 |
| (1,4311) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 3.65 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 3.65 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 3.65 |
| (1,4311) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 3.65 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 11 | 3.65 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 11 | 3.65 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 11 | 3.65 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 11 | 3.65 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 5 | 3.65 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 17 | 3.65 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 17 | 3.65 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 17 | 3.65 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 17 | 3.65 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 17 | 3.65 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 14 | 3.65 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 14 | 3.65 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 14 | 3.65 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 5 | 3.65 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 9 | 3.65 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 7 | 3.65 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 7 | 3.65 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 7 | 3.65 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 7 | 3.65 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 1 | 3.65 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 1 | 3.65 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 16 | 3.65 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 16 | 3.65 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 2 | 3.65 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 2 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 2 | 3.65 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 2 | 3.65 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 2 | 3.65 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 2 | 3.65 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 10 | 3.65 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 11 | 3.65 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 11 | 3.65 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 11 | 3.65 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 11 | 3.65 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 10 | 3.65 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 10 | 3.65 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 10 | 3.65 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 13 | 3.65 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 13 | 3.65 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 1 | 3.65 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 1 | 3.65 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 12 | 3.65 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 12 | 3.65 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 12 | 3.65 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 2 | 3.65 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 2 | 3.65 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 8 | 3.65 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 8 | 3.65 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 12 | 3.65 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 12 | 3.65 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 9 | 3.65 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 3 | 3.65 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 7 | 3.65 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 7 | 3.65 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 14 | 3.65 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 14 | 3.65 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 6 | 3.65 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 6 | 3.65 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 6 | 3.65 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 6 | 3.65 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 6 | 3.65 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 6 | 3.65 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 14 | 3.65 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 14 | 3.65 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 3 | 3.65 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 3 | 3.65 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 7 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 4 | 3.65 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 4 | 3.65 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 4 | 3.65 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 4 | 3.65 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 16 | 3.65 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 16 | 3.65 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 16 | 3.65 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 16 | 3.65 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 12 | 3.65 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 12 | 3.65 |
| (1,3644) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 5 | 3.65 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 3.65 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 3.65 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 9 | 3.65 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 9 | 3.65 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 3.65 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 3.65 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 11 | 3.65 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 11 | 3.65 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 14 | 3.65 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 14 | 3.65 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 14 | 3.65 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 14 | 3.65 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 14 | 3.65 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 14 | 3.65 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 15 | 3.65 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 15 | 3.65 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 15 | 3.65 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 12 | 3.65 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 12 | 3.65 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 7 | 3.65 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 10 | 3.65 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 10 | 3.65 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 10 | 3.65 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 1 | 3.65 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 1 | 3.65 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 18 | 3.65 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 7 | 3.65 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 17 | 3.65 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 4 | 3.65 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 16 | 3.65 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 12 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 13 | 3.65 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 2 | 3.65 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 2 | 3.65 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 2 | 3.65 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 19 | 3.65 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 10 | 3.65 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 10 | 3.65 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 10 | 3.65 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 3 | 3.65 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 8 | 3.65 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 11 | 3.65 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 11 | 3.65 |
| (1,2748) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 11 | 3.65 |
| (1,2748) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 11 | 3.65 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 13 | 3.65 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 13 | 3.65 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 8 | 3.65 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 8 | 3.65 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 8 | 3.65 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 8 | 3.65 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 8 | 3.65 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 8 | 3.65 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 8 | 3.65 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 8 | 3.65 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 8 | 3.65 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 4 | 3.65 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 18 | 3.65 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 14 | 3.65 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 11 | 3.65 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 11 | 3.65 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 11 | 3.65 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 11 | 3.65 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 11 | 3.65 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 13 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 3 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 3 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 3 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 7 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 7 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 7 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 12 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 12 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 12 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 20 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 20 | 3.65 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 20 | 3.65 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 13 | 3.65 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 19 | 3.65 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 9 | 3.65 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 9 | 3.65 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 9 | 3.65 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 3 | 3.65 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 3 | 3.65 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 3 | 3.65 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 17 | 3.65 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 6 | 3.65 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 13 | 3.65 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 13 | 3.65 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 13 | 3.65 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 19 | 3.65 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 19 | 3.65 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 19 | 3.65 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 9 | 3.65 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 3 | 3.65 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 10 | 3.65 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 17 | 3.65 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 13 | 3.65 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 13 | 3.65 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 13 | 3.65 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 11 | 3.65 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 19 | 3.65 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 19 | 3.65 |
| (1,1862) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 19 | 3.65 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 2 | 3.65 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 2 | 3.65 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 2 | 3.65 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 4 | 3.65 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 4 | 3.65 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 4 | 3.65 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 4 | 3.65 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 4 | 3.65 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 4 | 3.65 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 1 | 3.65 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 1 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 1 | 3.65 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 18 | 3.65 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 18 | 3.65 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 18 | 3.65 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 1 | 3.65 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 1 | 3.65 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 1 | 3.65 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 7 | 3.65 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 7 | 3.65 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 7 | 3.65 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 5 | 3.65 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 9 | 3.65 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 20 | 3.65 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 1 | 3.65 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 1 | 3.65 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 1 | 3.65 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 1 | 3.65 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 1 | 3.65 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 1 | 3.65 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 1 | 3.65 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 1 | 3.65 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 1 | 3.65 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 4 | 3.65 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 15 | 3.65 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 15 | 3.65 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 19 | 3.65 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 11 | 3.65 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 6 | 3.65 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 18 | 3.65 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 18 | 3.65 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 12 | 3.65 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 5 | 3.65 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 5 | 3.65 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 10 | 3.65 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 10 | 3.65 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 10 | 3.65 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 9 | 3.65 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 4 | 3.65 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 1 | 3.65 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 1 | 3.65 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 1 | 3.65 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 14 | 3.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 19 | 3.65 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 19 | 3.65 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 9 | 3.65 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 9 | 3.65 |
| (1,742) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 9 | 3.65 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 19 | 3.65 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 19 | 3.65 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 19 | 3.65 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 11 | 3.65 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 11 | 3.65 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 11 | 3.65 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 18 | 3.65 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 14 | 3.65 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 20 | 3.65 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 4 | 3.65 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 4 | 3.65 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 4 | 3.65 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 4 | 3.65 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 9 | 3.65 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 9 | 3.65 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 9 | 3.65 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 16 | 3.65 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 16 | 3.65 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 16 | 3.65 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 16 | 3.65 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 16 | 3.65 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 16 | 3.65 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 16 | 3.65 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 16 | 3.65 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 16 | 3.65 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 6 | 3.65 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 6 | 3.65 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 6 | 3.65 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 5 | 3.65 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 7 | 3.64 |
| (4,88) | 1:15:A:MET:CB | 1:147:A:SER:H | 20 | 3.64 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 16 | 3.64 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 11 | 3.64 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 11 | 3.64 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 6 | 3.64 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 6 | 3.64 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 18 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 18 | 3.64 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 3 | 3.64 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 3 | 3.64 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 18 | 3.64 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 18 | 3.64 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 2 | 3.64 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 2 | 3.64 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 2 | 3.64 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 2 | 3.64 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 2 | 3.64 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 2 | 3.64 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 7 | 3.64 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 7 | 3.64 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 7 | 3.64 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 7 | 3.64 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 7 | 3.64 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 7 | 3.64 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 20 | 3.64 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 20 | 3.64 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 20 | 3.64 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 20 | 3.64 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 16 | 3.64 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 16 | 3.64 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 16 | 3.64 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 16 | 3.64 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 4 | 3.64 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 4 | 3.64 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 4 | 3.64 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 4 | 3.64 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 18 | 3.64 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 18 | 3.64 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 3 | 3.64 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 3 | 3.64 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 4 | 3.64 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 4 | 3.64 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 4 | 3.64 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 4 | 3.64 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 4 | 3.64 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 4 | 3.64 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 3 | 3.64 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 3 | 3.64 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 3 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 3 | 3.64 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 15 | 3.64 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 15 | 3.64 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 15 | 3.64 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 15 | 3.64 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 14 | 3.64 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 14 | 3.64 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 14 | 3.64 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 14 | 3.64 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 3.64 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 3.64 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 13 | 3.64 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 13 | 3.64 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 18 | 3.64 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 18 | 3.64 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 18 | 3.64 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 18 | 3.64 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 18 | 3.64 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 18 | 3.64 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 17 | 3.64 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 17 | 3.64 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 18 | 3.64 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 18 | 3.64 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 11 | 3.64 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 11 | 3.64 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 2 | 3.64 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 2 | 3.64 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 2 | 3.64 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 2 | 3.64 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 2 | 3.64 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 2 | 3.64 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 3 | 3.64 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 3 | 3.64 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 3 | 3.64 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 3 | 3.64 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 3 | 3.64 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 3 | 3.64 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 3 | 3.64 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 3 | 3.64 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 15 | 3.64 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 15 | 3.64 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 15 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 15 | 3.64 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 17 | 3.64 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 17 | 3.64 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 17 | 3.64 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 17 | 3.64 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 17 | 3.64 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 17 | 3.64 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 17 | 3.64 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 17 | 3.64 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 9 | 3.64 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 9 | 3.64 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 9 | 3.64 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 9 | 3.64 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 7 | 3.64 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 7 | 3.64 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 7 | 3.64 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 7 | 3.64 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 7 | 3.64 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 7 | 3.64 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 19 | 3.64 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 19 | 3.64 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 18 | 3.64 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 18 | 3.64 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 18 | 3.64 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 18 | 3.64 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 3 | 3.64 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 6 | 3.64 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 18 | 3.64 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 18 | 3.64 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 18 | 3.64 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 18 | 3.64 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 18 | 3.64 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 18 | 3.64 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 9 | 3.64 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 10 | 3.64 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 3 | 3.64 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 3 | 3.64 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 18 | 3.64 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 18 | 3.64 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 17 | 3.64 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 17 | 3.64 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 14 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 16 | 3.64 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 10 | 3.64 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 14 | 3.64 |
| (1,8111) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 8 | 3.64 |
| (1,8111) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 8 | 3.64 |
| (1,8111) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 8 | 3.64 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG21 | 2 | 3.64 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG22 | 2 | 3.64 |
| (1,8097) | 1:93:A:ILE:H | 1:93:A:ILE:HG23 | 2 | 3.64 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 14 | 3.64 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 14 | 3.64 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 14 | 3.64 |
| (1,8023) | 1:86:A:LEU:H | 1:86:A:LEU:HG | 5 | 3.64 |
| (1,8009) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 19 | 3.64 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 18 | 3.64 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 2 | 3.64 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 13 | 3.64 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 9 | 3.64 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 9 | 3.64 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 9 | 3.64 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 10 | 3.64 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 10 | 3.64 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 10 | 3.64 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 10 | 3.64 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 10 | 3.64 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 10 | 3.64 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 10 | 3.64 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 10 | 3.64 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 10 | 3.64 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 20 | 3.64 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 20 | 3.64 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 20 | 3.64 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 20 | 3.64 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 20 | 3.64 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 20 | 3.64 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 20 | 3.64 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 20 | 3.64 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 20 | 3.64 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 4 | 3.64 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 4 | 3.64 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 4 | 3.64 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 9 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 9 | 3.64 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 4 | 3.64 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG21 | 7 | 3.64 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG22 | 7 | 3.64 |
| (1,7644) | 1:28:A:ILE:HA | 1:29:A:THR:HG23 | 7 | 3.64 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 6 | 3.64 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 11 | 3.64 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 13 | 3.64 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 20 | 3.64 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 8 | 3.64 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 9 | 3.64 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 12 | 3.64 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 8 | 3.64 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 8 | 3.64 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 8 | 3.64 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 8 | 3.64 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 8 | 3.64 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 8 | 3.64 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 10 | 3.64 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 10 | 3.64 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 10 | 3.64 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 10 | 3.64 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 10 | 3.64 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 10 | 3.64 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 13 | 3.64 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD21 | 17 | 3.64 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD22 | 17 | 3.64 |
| (1,7329) | 1:86:A:LEU:H | 1:86:A:LEU:HD23 | 17 | 3.64 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 2 | 3.64 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 6 | 3.64 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 6 | 3.64 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 9 | 3.64 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 12 | 3.64 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 12 | 3.64 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 12 | 3.64 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 18 | 3.64 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 18 | 3.64 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 18 | 3.64 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 16 | 3.64 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 15 | 3.64 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 3 | 3.64 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 19 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 12 | 3.64 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 2 | 3.64 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 7 | 3.64 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 1 | 3.64 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 1 | 3.64 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 1 | 3.64 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 10 | 3.64 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 18 | 3.64 |
| (1,6914) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 13 | 3.64 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 10 | 3.64 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 10 | 3.64 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 10 | 3.64 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 13 | 3.64 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 13 | 3.64 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 13 | 3.64 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 20 | 3.64 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 20 | 3.64 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 20 | 3.64 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 5 | 3.64 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 19 | 3.64 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 9 | 3.64 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 3 | 3.64 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 3 | 3.64 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 16 | 3.64 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 16 | 3.64 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 3 | 3.64 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 1 | 3.64 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 4 | 3.64 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 18 | 3.64 |
| (1,6547) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 15 | 3.64 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 19 | 3.64 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 19 | 3.64 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 19 | 3.64 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 9 | 3.64 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 14 | 3.64 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 14 | 3.64 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 14 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 4 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 4 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 4 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 5 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 5 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 5 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 15 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 15 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 15 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 17 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 17 | 3.64 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 17 | 3.64 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 20 | 3.64 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 20 | 3.64 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 20 | 3.64 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 15 | 3.64 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 15 | 3.64 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 15 | 3.64 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 19 | 3.64 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 19 | 3.64 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 19 | 3.64 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 7 | 3.64 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 7 | 3.64 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 7 | 3.64 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 16 | 3.64 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 16 | 3.64 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 16 | 3.64 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 1 | 3.64 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 1 | 3.64 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 1 | 3.64 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 7 | 3.64 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 7 | 3.64 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 7 | 3.64 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 8 | 3.64 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 8 | 3.64 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 14 | 3.64 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 14 | 3.64 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 14 | 3.64 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 19 | 3.64 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 19 | 3.64 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 19 | 3.64 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 14 | 3.64 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 14 | 3.64 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 14 | 3.64 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 18 | 3.64 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 2 | 3.64 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 13 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 13 | 3.64 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 13 | 3.64 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 13 | 3.64 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 13 | 3.64 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 13 | 3.64 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 13 | 3.64 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 13 | 3.64 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 13 | 3.64 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 18 | 3.64 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 1 | 3.64 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 14 | 3.64 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 19 | 3.64 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 19 | 3.64 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 19 | 3.64 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 19 | 3.64 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 19 | 3.64 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 19 | 3.64 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 9 | 3.64 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 9 | 3.64 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 17 | 3.64 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 17 | 3.64 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 17 | 3.64 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 5 | 3.64 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 17 | 3.64 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 17 | 3.64 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 18 | 3.64 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 18 | 3.64 |
| (1,5835) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 17 | 3.64 |
| (1,5835) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 17 | 3.64 |
| (1,5835) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 17 | 3.64 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 3 | 3.64 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 3 | 3.64 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 3 | 3.64 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 8 | 3.64 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 8 | 3.64 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 8 | 3.64 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 4 | 3.64 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 9 | 3.64 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 9 | 3.64 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 9 | 3.64 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 8 | 3.64 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 14 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 2 | 3.64 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 12 | 3.64 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 12 | 3.64 |
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 2 | 3.64 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 6 | 3.64 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 6 | 3.64 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 6 | 3.64 |
| (1,5654) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 12 | 3.64 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 9 | 3.64 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 12 | 3.64 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 12 | 3.64 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 12 | 3.64 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 12 | 3.64 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 6 | 3.64 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 6 | 3.64 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 7 | 3.64 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 15 | 3.64 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 16 | 3.64 |
| (1,5582) | 1:99:A:GLY:H | 1:101:A:GLU:H | 20 | 3.64 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 19 | 3.64 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 11 | 3.64 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 7 | 3.64 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 1 | 3.64 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 1 | 3.64 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 1 | 3.64 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 11 | 3.64 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 11 | 3.64 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 11 | 3.64 |
| (1,5517) | 1:96:A:ILE:HA | 1:98:A:SER:H | 3 | 3.64 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 12 | 3.64 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 13 | 3.64 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 10 | 3.64 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 10 | 3.64 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 10 | 3.64 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 2 | 3.64 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 19 | 3.64 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 7 | 3.64 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 7 | 3.64 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 11 | 3.64 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 1 | 3.64 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 18 | 3.64 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 18 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 10 | 3.64 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 10 | 3.64 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 10 | 3.64 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 17 | 3.64 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 10 | 3.64 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 20 | 3.64 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 1 | 3.64 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 15 | 3.64 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 1 | 3.64 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 7 | 3.64 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 7 | 3.64 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 7 | 3.64 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 12 | 3.64 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 12 | 3.64 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 12 | 3.64 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 14 | 3.64 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 20 | 3.64 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 7 | 3.64 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 4 | 3.64 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 13 | 3.64 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 3 | 3.64 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 3 | 3.64 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 3 | 3.64 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 8 | 3.64 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 8 | 3.64 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 12 | 3.64 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 12 | 3.64 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 6 | 3.64 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 6 | 3.64 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 4 | 3.64 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 5 | 3.64 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 4 | 3.64 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 4 | 3.64 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 4 | 3.64 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 2 | 3.64 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 2 | 3.64 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 2 | 3.64 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 2 | 3.64 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 2 | 3.64 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 2 | 3.64 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 7 | 3.64 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 7 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 7 | 3.64 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 7 | 3.64 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 7 | 3.64 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 7 | 3.64 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 10 | 3.64 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 19 | 3.64 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 19 | 3.64 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 16 | 3.64 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 16 | 3.64 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 16 | 3.64 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 16 | 3.64 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 14 | 3.64 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 14 | 3.64 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 14 | 3.64 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 14 | 3.64 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 14 | 3.64 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 14 | 3.64 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 18 | 3.64 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 18 | 3.64 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 5 | 3.64 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 5 | 3.64 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 3 | 3.64 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 3 | 3.64 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 5 | 3.64 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 6 | 3.64 |
| (1,4328) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 14 | 3.64 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 13 | 3.64 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 2 | 3.64 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 2 | 3.64 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 15 | 3.64 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 15 | 3.64 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 15 | 3.64 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 15 | 3.64 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 3.64 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 3.64 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 19 | 3.64 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 18 | 3.64 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 16 | 3.64 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 10 | 3.64 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 10 | 3.64 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 10 | 3.64 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 10 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 3 | 3.64 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 3 | 3.64 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 3 | 3.64 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 15 | 3.64 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 15 | 3.64 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 15 | 3.64 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 11 | 3.64 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 11 | 3.64 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 19 | 3.64 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 3 | 3.64 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 3 | 3.64 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 3 | 3.64 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 3 | 3.64 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 3 | 3.64 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 3 | 3.64 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 3 | 3.64 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 3 | 3.64 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 12 | 3.64 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 18 | 3.64 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 18 | 3.64 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 15 | 3.64 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 15 | 3.64 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 15 | 3.64 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 15 | 3.64 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 17 | 3.64 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 17 | 3.64 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 12 | 3.64 |
| (1,3884) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 12 | 3.64 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 2 | 3.64 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 14 | 3.64 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 14 | 3.64 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 14 | 3.64 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 14 | 3.64 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 1 | 3.64 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 13 | 3.64 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 13 | 3.64 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 13 | 3.64 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 10 | 3.64 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 10 | 3.64 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 2 | 3.64 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 2 | 3.64 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 2 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 11 | 3.64 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 11 | 3.64 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 11 | 3.64 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 11 | 3.64 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 11 | 3.64 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 11 | 3.64 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 11 | 3.64 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 11 | 3.64 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 11 | 3.64 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 11 | 3.64 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 11 | 3.64 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 11 | 3.64 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 7 | 3.64 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 7 | 3.64 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 7 | 3.64 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 7 | 3.64 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 7 | 3.64 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 7 | 3.64 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 9 | 3.64 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 9 | 3.64 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 3 | 3.64 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 5 | 3.64 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 19 | 3.64 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 19 | 3.64 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 18 | 3.64 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 18 | 3.64 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 3.64 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 3.64 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 11 | 3.64 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 11 | 3.64 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 4 | 3.64 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 12 | 3.64 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 12 | 3.64 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 12 | 3.64 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 18 | 3.64 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 18 | 3.64 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 18 | 3.64 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 18 | 3.64 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 16 | 3.64 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 2 | 3.64 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 15 | 3.64 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 1 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 1 | 3.64 |
| (1,3363) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 1 | 3.64 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 14 | 3.64 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 3 | 3.64 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 19 | 3.64 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 12 | 3.64 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 2 | 3.64 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 13 | 3.64 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 7 | 3.64 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 1 | 3.64 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 1 | 3.64 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 1 | 3.64 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 10 | 3.64 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 11 | 3.64 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 18 | 3.64 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 20 | 3.64 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 18 | 3.64 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 4 | 3.64 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 12 | 3.64 |
| (1,2916) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 13 | 3.64 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 10 | 3.64 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 10 | 3.64 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 10 | 3.64 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 13 | 3.64 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 13 | 3.64 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 13 | 3.64 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 20 | 3.64 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 20 | 3.64 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 20 | 3.64 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 5 | 3.64 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 19 | 3.64 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 9 | 3.64 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 3 | 3.64 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 3 | 3.64 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 19 | 3.64 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 19 | 3.64 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 1 | 3.64 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 1 | 3.64 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 1 | 3.64 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 1 | 3.64 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 1 | 3.64 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 1 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 16 | 3.64 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 16 | 3.64 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 3 | 3.64 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 16 | 3.64 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 1 | 3.64 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 10 | 3.64 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 10 | 3.64 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 10 | 3.64 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 4 | 3.64 |
| (1,2394) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 15 | 3.64 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 19 | 3.64 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 19 | 3.64 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 19 | 3.64 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 9 | 3.64 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 3 | 3.64 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 14 | 3.64 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 14 | 3.64 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 14 | 3.64 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 6 | 3.64 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 15 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 4 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 4 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 4 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 5 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 5 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 5 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 15 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 15 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 15 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 17 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 17 | 3.64 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 17 | 3.64 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 20 | 3.64 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 20 | 3.64 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 20 | 3.64 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 19 | 3.64 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 19 | 3.64 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 19 | 3.64 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 14 | 3.64 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 14 | 3.64 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 14 | 3.64 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 19 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 19 | 3.64 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 19 | 3.64 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 7 | 3.64 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 7 | 3.64 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 7 | 3.64 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 16 | 3.64 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 16 | 3.64 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 16 | 3.64 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 1 | 3.64 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 1 | 3.64 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 1 | 3.64 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 8 | 3.64 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 11 | 3.64 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 11 | 3.64 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 11 | 3.64 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 7 | 3.64 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 7 | 3.64 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 7 | 3.64 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 1 | 3.64 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 1 | 3.64 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 1 | 3.64 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 8 | 3.64 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 8 | 3.64 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 11 | 3.64 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 11 | 3.64 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 11 | 3.64 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 16 | 3.64 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 16 | 3.64 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 16 | 3.64 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 14 | 3.64 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 14 | 3.64 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 14 | 3.64 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 19 | 3.64 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 19 | 3.64 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 19 | 3.64 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 14 | 3.64 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 14 | 3.64 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 14 | 3.64 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 12 | 3.64 |
| (1,1754) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 6 | 3.64 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 18 | 3.64 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 2 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 13 | 3.64 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 13 | 3.64 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 13 | 3.64 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 13 | 3.64 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 13 | 3.64 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 13 | 3.64 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 13 | 3.64 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 13 | 3.64 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 13 | 3.64 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 18 | 3.64 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 1 | 3.64 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 14 | 3.64 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 19 | 3.64 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 19 | 3.64 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 19 | 3.64 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 19 | 3.64 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 19 | 3.64 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 19 | 3.64 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 4 | 3.64 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 5 | 3.64 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 9 | 3.64 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 9 | 3.64 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 17 | 3.64 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 17 | 3.64 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 17 | 3.64 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 5 | 3.64 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 17 | 3.64 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 17 | 3.64 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 18 | 3.64 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 18 | 3.64 |
| (1,1210) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 17 | 3.64 |
| (1,1210) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 17 | 3.64 |
| (1,1210) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 17 | 3.64 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 3 | 3.64 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 3 | 3.64 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 3 | 3.64 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 8 | 3.64 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 8 | 3.64 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 8 | 3.64 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 4 | 3.64 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 9 | 3.64 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 9 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 9 | 3.64 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 8 | 3.64 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 14 | 3.64 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 12 | 3.64 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 12 | 3.64 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 2 | 3.64 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 6 | 3.64 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 6 | 3.64 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 6 | 3.64 |
| (1,890) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 12 | 3.64 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 9 | 3.64 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 12 | 3.64 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 1 | 3.64 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 1 | 3.64 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 1 | 3.64 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 1 | 3.64 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 1 | 3.64 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 1 | 3.64 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 12 | 3.64 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 12 | 3.64 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 12 | 3.64 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 6 | 3.64 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 6 | 3.64 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 7 | 3.64 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 15 | 3.64 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 16 | 3.64 |
| (1,762) | 1:99:A:GLY:H | 1:101:A:GLU:H | 20 | 3.64 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 11 | 3.64 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 7 | 3.64 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 1 | 3.64 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 1 | 3.64 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 1 | 3.64 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 11 | 3.64 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 11 | 3.64 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 11 | 3.64 |
| (1,670) | 1:96:A:ILE:HA | 1:98:A:SER:H | 3 | 3.64 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 3.64 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 12 | 3.64 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 6 | 3.64 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 6 | 3.64 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 6 | 3.64 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 16 | 3.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 16 | 3.64 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 16 | 3.64 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 12 | 3.64 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 13 | 3.64 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 6 | 3.64 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 6 | 3.64 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 6 | 3.64 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 16 | 3.64 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 8 | 3.63 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 14 | 3.63 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 20 | 3.63 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 14 | 3.63 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 5 | 3.63 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 9 | 3.63 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 1 | 3.63 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 10 | 3.63 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 13 | 3.63 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 13 | 3.63 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 3 | 3.63 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 3 | 3.63 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 3 | 3.63 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 3 | 3.63 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 3 | 3.63 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 3 | 3.63 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 2 | 3.63 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 2 | 3.63 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 8 | 3.63 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 8 | 3.63 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 8 | 3.63 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 8 | 3.63 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 8 | 3.63 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 8 | 3.63 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 20 | 3.63 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 20 | 3.63 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 15 | 3.63 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 15 | 3.63 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 8 | 3.63 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 8 | 3.63 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 9 | 3.63 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 9 | 3.63 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 9 | 3.63 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 9 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 9 | 3.63 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 9 | 3.63 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 18 | 3.63 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 18 | 3.63 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 12 | 3.63 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 12 | 3.63 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 13 | 3.63 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 13 | 3.63 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 13 | 3.63 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 13 | 3.63 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 9 | 3.63 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 9 | 3.63 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 9 | 3.63 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 9 | 3.63 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 9 | 3.63 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 9 | 3.63 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 14 | 3.63 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 14 | 3.63 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 4 | 3.63 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 4 | 3.63 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 6 | 3.63 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 6 | 3.63 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 5 | 3.63 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 5 | 3.63 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 5 | 3.63 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 5 | 3.63 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 13 | 3.63 |
| (1,8974) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 13 | 3.63 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 13 | 3.63 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 13 | 3.63 |
| (1,8937) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 9 | 3.63 |
| (1,8937) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 9 | 3.63 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 1 | 3.63 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 1 | 3.63 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 1 | 3.63 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 1 | 3.63 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 15 | 3.63 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 15 | 3.63 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 15 | 3.63 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 15 | 3.63 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 15 | 3.63 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 15 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 12 | 3.63 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 12 | 3.63 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 12 | 3.63 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 12 | 3.63 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 12 | 3.63 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 12 | 3.63 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 1 | 3.63 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 1 | 3.63 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 1 | 3.63 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 1 | 3.63 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 14 | 3.63 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 14 | 3.63 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 14 | 3.63 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 14 | 3.63 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 20 | 3.63 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 3.63 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 20 | 3.63 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 3.63 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 20 | 3.63 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 3.63 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 8 | 3.63 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 8 | 3.63 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 20 | 3.63 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 20 | 3.63 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 20 | 3.63 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 20 | 3.63 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 20 | 3.63 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 20 | 3.63 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 10 | 3.63 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 10 | 3.63 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 10 | 3.63 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 10 | 3.63 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 6 | 3.63 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 6 | 3.63 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 4 | 3.63 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 4 | 3.63 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 1 | 3.63 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 13 | 3.63 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 13 | 3.63 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 13 | 3.63 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 11 | 3.63 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 11 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 11 | 3.63 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 5 | 3.63 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 5 | 3.63 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 5 | 3.63 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 19 | 3.63 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 10 | 3.63 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 10 | 3.63 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 10 | 3.63 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 9 | 3.63 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 9 | 3.63 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 9 | 3.63 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 15 | 3.63 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 15 | 3.63 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 15 | 3.63 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 8 | 3.63 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 8 | 3.63 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 8 | 3.63 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 18 | 3.63 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 18 | 3.63 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 1 | 3.63 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 11 | 3.63 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 2 | 3.63 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 6 | 3.63 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 17 | 3.63 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 17 | 3.63 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 17 | 3.63 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 17 | 3.63 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 17 | 3.63 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 17 | 3.63 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 17 | 3.63 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 17 | 3.63 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 17 | 3.63 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 5 | 3.63 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 14 | 3.63 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 20 | 3.63 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 20 | 3.63 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 20 | 3.63 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 20 | 3.63 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 20 | 3.63 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 20 | 3.63 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD2 | 13 | 3.63 |
| (1,7909) | 1:68:A:ARG:HA | 1:69:A:ARG:HD3 | 13 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 6 | 3.63 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 6 | 3.63 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 6 | 3.63 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 6 | 3.63 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 2 | 3.63 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 2 | 3.63 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 3 | 3.63 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 3 | 3.63 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 3 | 3.63 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 9 | 3.63 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 9 | 3.63 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 9 | 3.63 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 9 | 3.63 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 9 | 3.63 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 9 | 3.63 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 12 | 3.63 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 5 | 3.63 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 5 | 3.63 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 15 | 3.63 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 15 | 3.63 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 15 | 3.63 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 13 | 3.63 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 13 | 3.63 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 13 | 3.63 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 13 | 3.63 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 13 | 3.63 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 13 | 3.63 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 10 | 3.63 |
| (1,7181) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 17 | 3.63 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 1 | 3.63 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 19 | 3.63 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 19 | 3.63 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 19 | 3.63 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 4 | 3.63 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 7 | 3.63 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 5 | 3.63 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 5 | 3.63 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 12 | 3.63 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 9 | 3.63 |
| (1,6910) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 18 | 3.63 |
| (1,6910) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 18 | 3.63 |
| (1,6910) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 18 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 9 | 3.63 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 9 | 3.63 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 9 | 3.63 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 1 | 3.63 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 1 | 3.63 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 1 | 3.63 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 4 | 3.63 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 11 | 3.63 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 5 | 3.63 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 11 | 3.63 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 16 | 3.63 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 16 | 3.63 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 16 | 3.63 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 16 | 3.63 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 17 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 2 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 2 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 2 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 6 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 6 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 6 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 9 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 9 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 9 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 13 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 13 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 13 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 18 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 18 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 18 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 19 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 19 | 3.63 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 19 | 3.63 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 8 | 3.63 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 8 | 3.63 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 8 | 3.63 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 12 | 3.63 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 12 | 3.63 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 12 | 3.63 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 5 | 3.63 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 5 | 3.63 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 5 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 4 | 3.63 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 4 | 3.63 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 4 | 3.63 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 4 | 3.63 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 4 | 3.63 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 4 | 3.63 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 4 | 3.63 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 4 | 3.63 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 4 | 3.63 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 8 | 3.63 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 17 | 3.63 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 17 | 3.63 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 17 | 3.63 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 18 | 3.63 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 6 | 3.63 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 6 | 3.63 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 9 | 3.63 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 9 | 3.63 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 9 | 3.63 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 9 | 3.63 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 9 | 3.63 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 9 | 3.63 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 6 | 3.63 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 20 | 3.63 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 1 | 3.63 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 9 | 3.63 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 9 | 3.63 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 9 | 3.63 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 6 | 3.63 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 12 | 3.63 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 11 | 3.63 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 11 | 3.63 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 11 | 3.63 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 11 | 3.63 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 16 | 3.63 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 16 | 3.63 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 16 | 3.63 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 16 | 3.63 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 16 | 3.63 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 16 | 3.63 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 16 | 3.63 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 16 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 13 | 3.63 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 13 | 3.63 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 8 | 3.63 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 19 | 3.63 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 17 | 3.63 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 17 | 3.63 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 17 | 3.63 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 19 | 3.63 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 19 | 3.63 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 19 | 3.63 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 15 | 3.63 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 15 | 3.63 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 15 | 3.63 |
| (1,5716) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 13 | 3.63 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 17 | 3.63 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 13 | 3.63 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 2 | 3.63 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 5 | 3.63 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 7 | 3.63 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 18 | 3.63 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 3.63 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 12 | 3.63 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 12 | 3.63 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 12 | 3.63 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 19 | 3.63 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 7 | 3.63 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 7 | 3.63 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 7 | 3.63 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 8 | 3.63 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 8 | 3.63 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 9 | 3.63 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 14 | 3.63 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 2 | 3.63 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 2 | 3.63 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 2 | 3.63 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 11 | 3.63 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 6 | 3.63 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 6 | 3.63 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 6 | 3.63 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 6 | 3.63 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 6 | 3.63 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 6 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 5 | 3.63 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 5 | 3.63 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 5 | 3.63 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 19 | 3.63 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 19 | 3.63 |
| (1,5351) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 19 | 3.63 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 12 | 3.63 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 17 | 3.63 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 17 | 3.63 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 17 | 3.63 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 12 | 3.63 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 12 | 3.63 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 12 | 3.63 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 12 | 3.63 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 12 | 3.63 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 12 | 3.63 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 12 | 3.63 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 12 | 3.63 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 12 | 3.63 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 12 | 3.63 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 11 | 3.63 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 3 | 3.63 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 8 | 3.63 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 20 | 3.63 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 20 | 3.63 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 20 | 3.63 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 10 | 3.63 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 7 | 3.63 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 4 | 3.63 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 12 | 3.63 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 12 | 3.63 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 20 | 3.63 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 20 | 3.63 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 7 | 3.63 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 9 | 3.63 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 19 | 3.63 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 11 | 3.63 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 8 | 3.63 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 8 | 3.63 |
| (1,4886) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 8 | 3.63 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 8 | 3.63 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 8 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 8 | 3.63 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 8 | 3.63 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 8 | 3.63 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 8 | 3.63 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 8 | 3.63 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 8 | 3.63 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 8 | 3.63 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 15 | 3.63 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 15 | 3.63 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 15 | 3.63 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 6 | 3.63 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 6 | 3.63 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 6 | 3.63 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 15 | 3.63 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 15 | 3.63 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 15 | 3.63 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 15 | 3.63 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 15 | 3.63 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 15 | 3.63 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 19 | 3.63 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 13 | 3.63 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 5 | 3.63 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 5 | 3.63 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 3 | 3.63 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 3 | 3.63 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 3 | 3.63 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 3 | 3.63 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 3 | 3.63 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 3 | 3.63 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 3 | 3.63 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 3 | 3.63 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 3 | 3.63 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 6 | 3.63 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 8 | 3.63 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 8 | 3.63 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 8 | 3.63 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 8 | 3.63 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 8 | 3.63 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 8 | 3.63 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 15 | 3.63 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 15 | 3.63 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 8 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 8 | 3.63 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 15 | 3.63 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 15 | 3.63 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 15 | 3.63 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 15 | 3.63 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 14 | 3.63 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 14 | 3.63 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 18 | 3.63 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 16 | 3.63 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 16 | 3.63 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 16 | 3.63 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 16 | 3.63 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 16 | 3.63 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 16 | 3.63 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 19 | 3.63 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 19 | 3.63 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 11 | 3.63 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 11 | 3.63 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 11 | 3.63 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 11 | 3.63 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 15 | 3.63 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 6 | 3.63 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 6 | 3.63 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 6 | 3.63 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 1 | 3.63 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 1 | 3.63 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 1 | 3.63 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 1 | 3.63 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 1 | 3.63 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 1 | 3.63 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 4 | 3.63 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 4 | 3.63 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 4 | 3.63 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 15 | 3.63 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 15 | 3.63 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 15 | 3.63 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 5 | 3.63 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 5 | 3.63 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 5 | 3.63 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 5 | 3.63 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 5 | 3.63 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 5 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 14 | 3.63 |
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 14 | 3.63 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 11 | 3.63 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 11 | 3.63 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 6 | 3.63 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 6 | 3.63 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 5 | 3.63 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 5 | 3.63 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 5 | 3.63 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 5 | 3.63 |
| (1,3912) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 9 | 3.63 |
| (1,3912) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 9 | 3.63 |
| (1,3880) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 10 | 3.63 |
| (1,3874) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 13 | 3.63 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 10 | 3.63 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 10 | 3.63 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 10 | 3.63 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 10 | 3.63 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 12 | 3.63 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 12 | 3.63 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 12 | 3.63 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 12 | 3.63 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 12 | 3.63 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 12 | 3.63 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 20 | 3.63 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 3.63 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 20 | 3.63 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 3.63 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 20 | 3.63 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 3.63 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 16 | 3.63 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 16 | 3.63 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 16 | 3.63 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 16 | 3.63 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 16 | 3.63 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 16 | 3.63 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 1 | 3.63 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 14 | 3.63 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 14 | 3.63 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 14 | 3.63 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 14 | 3.63 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 6 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 6 | 3.63 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 15 | 3.63 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 15 | 3.63 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 15 | 3.63 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 10 | 3.63 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 10 | 3.63 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 11 | 3.63 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 11 | 3.63 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 4 | 3.63 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 4 | 3.63 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 4 | 3.63 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 6 | 3.63 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 6 | 3.63 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 19 | 3.63 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 6 | 3.63 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 10 | 3.63 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 3 | 3.63 |
| (1,3310) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 17 | 3.63 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 1 | 3.63 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 20 | 3.63 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 19 | 3.63 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 19 | 3.63 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 19 | 3.63 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 4 | 3.63 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 7 | 3.63 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 5 | 3.63 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 8 | 3.63 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 5 | 3.63 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 12 | 3.63 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 9 | 3.63 |
| (1,2912) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 18 | 3.63 |
| (1,2912) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 18 | 3.63 |
| (1,2912) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 18 | 3.63 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 9 | 3.63 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 9 | 3.63 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 9 | 3.63 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 1 | 3.63 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 1 | 3.63 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 1 | 3.63 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 16 | 3.63 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 16 | 3.63 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 6 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 6 | 3.63 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 10 | 3.63 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 12 | 3.63 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 4 | 3.63 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 8 | 3.63 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 5 | 3.63 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 11 | 3.63 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 5 | 3.63 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 11 | 3.63 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 10 | 3.63 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 16 | 3.63 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 16 | 3.63 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 16 | 3.63 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 16 | 3.63 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 17 | 3.63 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 12 | 3.63 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 18 | 3.63 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 18 | 3.63 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 18 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 2 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 2 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 2 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 6 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 6 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 6 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 9 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 9 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 9 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 13 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 13 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 13 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 18 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 18 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 18 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 19 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 19 | 3.63 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 19 | 3.63 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 5 | 3.63 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 6 | 3.63 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 12 | 3.63 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 17 | 3.63 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 8 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 8 | 3.63 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 8 | 3.63 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 14 | 3.63 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 5 | 3.63 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 5 | 3.63 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 5 | 3.63 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 12 | 3.63 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 12 | 3.63 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 12 | 3.63 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 5 | 3.63 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 5 | 3.63 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 5 | 3.63 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 4 | 3.63 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 4 | 3.63 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 4 | 3.63 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 4 | 3.63 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 4 | 3.63 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 4 | 3.63 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 4 | 3.63 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 4 | 3.63 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 4 | 3.63 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 8 | 3.63 |
| (1,1952) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 4 | 3.63 |
| (1,1952) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 4 | 3.63 |
| (1,1952) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 4 | 3.63 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 17 | 3.63 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 17 | 3.63 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 17 | 3.63 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 14 | 3.63 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 14 | 3.63 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 14 | 3.63 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 14 | 3.63 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 14 | 3.63 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 14 | 3.63 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 18 | 3.63 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 8 | 3.63 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 6 | 3.63 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 6 | 3.63 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 9 | 3.63 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 9 | 3.63 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 9 | 3.63 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 9 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 9 | 3.63 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 9 | 3.63 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 6 | 3.63 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 20 | 3.63 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 1 | 3.63 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 6 | 3.63 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 9 | 3.63 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 9 | 3.63 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 9 | 3.63 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 19 | 3.63 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 19 | 3.63 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 19 | 3.63 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 17 | 3.63 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 12 | 3.63 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 5 | 3.63 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 5 | 3.63 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 5 | 3.63 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 11 | 3.63 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 11 | 3.63 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 11 | 3.63 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 11 | 3.63 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 16 | 3.63 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 16 | 3.63 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 16 | 3.63 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 16 | 3.63 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 16 | 3.63 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 16 | 3.63 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 14 | 3.63 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 14 | 3.63 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 14 | 3.63 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 14 | 3.63 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 14 | 3.63 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 14 | 3.63 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 16 | 3.63 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 16 | 3.63 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 13 | 3.63 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 13 | 3.63 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 16 | 3.63 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 7 | 3.63 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 7 | 3.63 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 8 | 3.63 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 6 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 19 | 3.63 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 17 | 3.63 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 17 | 3.63 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 17 | 3.63 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 19 | 3.63 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 19 | 3.63 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 19 | 3.63 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 15 | 3.63 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 15 | 3.63 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 15 | 3.63 |
| (1,1000) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 13 | 3.63 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 17 | 3.63 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 20 | 3.63 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 13 | 3.63 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 2 | 3.63 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 5 | 3.63 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 7 | 3.63 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 18 | 3.63 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 3.63 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 6 | 3.63 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 6 | 3.63 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 6 | 3.63 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 6 | 3.63 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 6 | 3.63 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 6 | 3.63 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 12 | 3.63 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 12 | 3.63 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 12 | 3.63 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 19 | 3.63 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 7 | 3.63 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 7 | 3.63 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 7 | 3.63 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 8 | 3.63 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 8 | 3.63 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 11 | 3.63 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 15 | 3.63 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 15 | 3.63 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 15 | 3.63 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 4 | 3.63 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 7 | 3.63 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 2 | 3.63 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 2 | 3.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 2 | 3.63 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 11 | 3.63 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 6 | 3.63 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 6 | 3.63 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 6 | 3.63 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 17 | 3.63 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 19 | 3.63 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 3 | 3.63 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 3 | 3.63 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 3 | 3.63 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 3 | 3.63 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 3 | 3.63 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 3 | 3.63 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 3 | 3.63 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 3 | 3.63 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 3 | 3.63 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 8 | 3.63 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 8 | 3.63 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 8 | 3.63 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 8 | 3.63 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 8 | 3.63 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 8 | 3.63 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 8 | 3.63 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 8 | 3.63 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 8 | 3.63 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 10 | 3.63 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 18 | 3.63 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 15 | 3.63 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 15 | 3.63 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 20 | 3.62 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 20 | 3.62 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 2 | 3.62 |
| (3,783) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 6 | 3.62 |
| (3,783) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 6 | 3.62 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 14 | 3.62 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 14 | 3.62 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 11 | 3.62 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 11 | 3.62 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 11 | 3.62 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 11 | 3.62 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 11 | 3.62 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 11 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 14 | 3.62 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 14 | 3.62 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 14 | 3.62 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 14 | 3.62 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 14 | 3.62 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 14 | 3.62 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 16 | 3.62 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 16 | 3.62 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 14 | 3.62 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 14 | 3.62 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 14 | 3.62 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 14 | 3.62 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 4 | 3.62 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 4 | 3.62 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA2 | 13 | 3.62 |
| (1,9389) | 1:122:A:LEU:H | 1:123:A:GLY:HA3 | 13 | 3.62 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 5 | 3.62 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 5 | 3.62 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 12 | 3.62 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 12 | 3.62 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 8 | 3.62 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 8 | 3.62 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 8 | 3.62 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 8 | 3.62 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 8 | 3.62 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 8 | 3.62 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 17 | 3.62 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 17 | 3.62 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 17 | 3.62 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 17 | 3.62 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 17 | 3.62 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 17 | 3.62 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 9 | 3.62 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 9 | 3.62 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 9 | 3.62 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 9 | 3.62 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 3.62 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 3.62 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 3.62 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 3.62 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 20 | 3.62 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 20 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 20 | 3.62 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 20 | 3.62 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 9 | 3.62 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 9 | 3.62 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 9 | 3.62 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 9 | 3.62 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 9 | 3.62 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 9 | 3.62 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 1 | 3.62 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 1 | 3.62 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 19 | 3.62 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 19 | 3.62 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 1 | 3.62 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 1 | 3.62 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 8 | 3.62 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 8 | 3.62 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 8 | 3.62 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 8 | 3.62 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 8 | 3.62 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 8 | 3.62 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 16 | 3.62 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 16 | 3.62 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 5 | 3.62 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 5 | 3.62 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 5 | 3.62 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 5 | 3.62 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 5 | 3.62 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 5 | 3.62 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 11 | 3.62 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 11 | 3.62 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 5 | 3.62 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 5 | 3.62 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 5 | 3.62 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 5 | 3.62 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 2 | 3.62 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 2 | 3.62 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 11 | 3.62 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 11 | 3.62 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 11 | 3.62 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 11 | 3.62 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 11 | 3.62 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 11 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 13 | 3.62 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 13 | 3.62 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 16 | 3.62 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 16 | 3.62 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 16 | 3.62 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 16 | 3.62 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 16 | 3.62 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 16 | 3.62 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 6 | 3.62 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 6 | 3.62 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 7 | 3.62 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 7 | 3.62 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 7 | 3.62 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 7 | 3.62 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 16 | 3.62 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 16 | 3.62 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 16 | 3.62 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 16 | 3.62 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE2 | 5 | 3.62 |
| (1,8558) | 1:6:A:LYS:H | 1:6:A:LYS:HE3 | 5 | 3.62 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB2 | 19 | 3.62 |
| (1,8548) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HB3 | 19 | 3.62 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB2 | 19 | 3.62 |
| (1,8548) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HB3 | 19 | 3.62 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 5 | 3.62 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 5 | 3.62 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 5 | 3.62 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 13 | 3.62 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 13 | 3.62 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 13 | 3.62 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 20 | 3.62 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 20 | 3.62 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 20 | 3.62 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 1 | 3.62 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD1 | 13 | 3.62 |
| (1,8359) | 1:135:A:GLU:HA | 1:139:A:PHE:HD2 | 13 | 3.62 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 10 | 3.62 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 17 | 3.62 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 15 | 3.62 |
| (1,8326) | 1:131:A:GLN:HB3 | 1:135:A:GLU:H | 7 | 3.62 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 17 | 3.62 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 17 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 11 | 3.62 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 10 | 3.62 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 1 | 3.62 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 14 | 3.62 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 17 | 3.62 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 9 | 3.62 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 9 | 3.62 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 9 | 3.62 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 3 | 3.62 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 16 | 3.62 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 13 | 3.62 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 9 | 3.62 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 9 | 3.62 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 9 | 3.62 |
| (1,7928) | 1:71:A:SER:HB2 | 1:76:A:GLU:HA | 19 | 3.62 |
| (1,7928) | 1:71:A:SER:HB3 | 1:76:A:GLU:HA | 19 | 3.62 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 15 | 3.62 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 15 | 3.62 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 15 | 3.62 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 15 | 3.62 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 4 | 3.62 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 4 | 3.62 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 4 | 3.62 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 2 | 3.62 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 20 | 3.62 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 20 | 3.62 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 9 | 3.62 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 9 | 3.62 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 9 | 3.62 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 11 | 3.62 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 11 | 3.62 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 11 | 3.62 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 12 | 3.62 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 12 | 3.62 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 12 | 3.62 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 19 | 3.62 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 16 | 3.62 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 4 | 3.62 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 4 | 3.62 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 13 | 3.62 |
| (1,7429) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HA | 4 | 3.62 |
| (1,7429) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HA | 4 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7429) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HA | 4 | 3.62 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 6 | 3.62 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 7 | 3.62 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 7 | 3.62 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 7 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 9 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 9 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 9 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 9 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 9 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 9 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 15 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 15 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 15 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 15 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 15 | 3.62 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 15 | 3.62 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 1 | 3.62 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 1 | 3.62 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 9 | 3.62 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 16 | 3.62 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 16 | 3.62 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 16 | 3.62 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 8 | 3.62 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 8 | 3.62 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 16 | 3.62 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 5 | 3.62 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 5 | 3.62 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 5 | 3.62 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 3.62 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 13 | 3.62 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 10 | 3.62 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 7 | 3.62 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 7 | 3.62 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 7 | 3.62 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 9 | 3.62 |
| (1,6936) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 15 | 3.62 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 8 | 3.62 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 13 | 3.62 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 8 | 3.62 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 18 | 3.62 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 18 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 14 | 3.62 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 14 | 3.62 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 20 | 3.62 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 20 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 19 | 3.62 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 19 | 3.62 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 14 | 3.62 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 18 | 3.62 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 16 | 3.62 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 16 | 3.62 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 20 | 3.62 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 11 | 3.62 |
| (1,6605) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 17 | 3.62 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 3 | 3.62 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 15 | 3.62 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 5 | 3.62 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 9 | 3.62 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 8 | 3.62 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 8 | 3.62 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 8 | 3.62 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 10 | 3.62 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 10 | 3.62 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 10 | 3.62 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 11 | 3.62 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 11 | 3.62 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 11 | 3.62 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 13 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 4 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 4 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 4 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 4 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 4 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 4 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 4 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 4 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 4 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 12 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 12 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 12 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 12 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 12 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 12 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 12 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 12 | 3.62 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 12 | 3.62 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 15 | 3.62 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 15 | 3.62 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 15 | 3.62 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 18 | 3.62 |
| (1,6351) | 1:152:A:THR:H | 1:155:A:GLY:H | 7 | 3.62 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 11 | 3.62 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 6 | 3.62 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 6 | 3.62 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 1 | 3.62 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 1 | 3.62 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 1 | 3.62 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 8 | 3.62 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 8 | 3.62 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 8 | 3.62 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 16 | 3.62 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 16 | 3.62 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 16 | 3.62 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 19 | 3.62 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 19 | 3.62 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 19 | 3.62 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 17 | 3.62 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 12 | 3.62 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 14 | 3.62 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 16 | 3.62 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 16 | 3.62 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 5 | 3.62 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 5 | 3.62 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 5 | 3.62 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 5 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 5 | 3.62 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 5 | 3.62 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 5 | 3.62 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 5 | 3.62 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 5 | 3.62 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 20 | 3.62 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 1 | 3.62 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 1 | 3.62 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 1 | 3.62 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 19 | 3.62 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 19 | 3.62 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 19 | 3.62 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 10 | 3.62 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 9 | 3.62 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 14 | 3.62 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 11 | 3.62 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 16 | 3.62 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 4 | 3.62 |
| (1,5639) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 4 | 3.62 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 4 | 3.62 |
| (1,5639) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 4 | 3.62 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 4 | 3.62 |
| (1,5639) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 4 | 3.62 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 9 | 3.62 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 1 | 3.62 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 19 | 3.62 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 3 | 3.62 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 18 | 3.62 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 18 | 3.62 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 18 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 2 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 2 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 2 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 2 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 2 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 2 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 2 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 2 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 2 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 13 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 13 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 13 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 13 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 13 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 13 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 13 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 13 | 3.62 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 13 | 3.62 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 8 | 3.62 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 8 | 3.62 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 8 | 3.62 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 16 | 3.62 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 16 | 3.62 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 16 | 3.62 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 16 | 3.62 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 16 | 3.62 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 16 | 3.62 |
| (1,5280) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 3 | 3.62 |
| (1,5280) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 3 | 3.62 |
| (1,5280) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 3 | 3.62 |
| (1,5220) | 1:84:A:GLU:H | 1:86:A:LEU:H | 19 | 3.62 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 15 | 3.62 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 18 | 3.62 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 13 | 3.62 |
| (1,5169) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 13 | 3.62 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 12 | 3.62 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 5 | 3.62 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 5 | 3.62 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 5 | 3.62 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 20 | 3.62 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 20 | 3.62 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 20 | 3.62 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 4 | 3.62 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 4 | 3.62 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 4 | 3.62 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 19 | 3.62 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 19 | 3.62 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 19 | 3.62 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 2 | 3.62 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 2 | 3.62 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 2 | 3.62 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 8 | 3.62 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 17 | 3.62 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 6 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 6 | 3.62 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 6 | 3.62 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 6 | 3.62 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 6 | 3.62 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 6 | 3.62 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 14 | 3.62 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 14 | 3.62 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 14 | 3.62 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 14 | 3.62 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 14 | 3.62 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 14 | 3.62 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 14 | 3.62 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 14 | 3.62 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 14 | 3.62 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 12 | 3.62 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 1 | 3.62 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 1 | 3.62 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 1 | 3.62 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 6 | 3.62 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 6 | 3.62 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 6 | 3.62 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 14 | 3.62 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 16 | 3.62 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 16 | 3.62 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 16 | 3.62 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 19 | 3.62 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 19 | 3.62 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 19 | 3.62 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 14 | 3.62 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 14 | 3.62 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 14 | 3.62 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 11 | 3.62 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 11 | 3.62 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 11 | 3.62 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 11 | 3.62 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 11 | 3.62 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 11 | 3.62 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 10 | 3.62 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 5 | 3.62 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 11 | 3.62 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 11 | 3.62 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 11 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 2 | 3.62 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 2 | 3.62 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 2 | 3.62 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 2 | 3.62 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 2 | 3.62 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 2 | 3.62 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 4 | 3.62 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 4 | 3.62 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 17 | 3.62 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 3 | 3.62 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 3.62 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 3.62 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 3.62 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 3.62 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 15 | 3.62 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 15 | 3.62 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 9 | 3.62 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 9 | 3.62 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 9 | 3.62 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 9 | 3.62 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 9 | 3.62 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 9 | 3.62 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 1 | 3.62 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 1 | 3.62 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 9 | 3.62 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 8 | 3.62 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 8 | 3.62 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 8 | 3.62 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 8 | 3.62 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 8 | 3.62 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 8 | 3.62 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 12 | 3.62 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 12 | 3.62 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 12 | 3.62 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 12 | 3.62 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 12 | 3.62 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 12 | 3.62 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 5 | 3.62 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 5 | 3.62 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 5 | 3.62 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 5 | 3.62 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 5 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 5 | 3.62 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 15 | 3.62 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 15 | 3.62 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 2 | 3.62 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 2 | 3.62 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 11 | 3.62 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 11 | 3.62 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 11 | 3.62 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 11 | 3.62 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 11 | 3.62 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 11 | 3.62 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 15 | 3.62 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 15 | 3.62 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 5 | 3.62 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 5 | 3.62 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 5 | 3.62 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 9 | 3.62 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 12 | 3.62 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 12 | 3.62 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 6 | 3.62 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 6 | 3.62 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 6 | 3.62 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 6 | 3.62 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 16 | 3.62 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 16 | 3.62 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 16 | 3.62 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 16 | 3.62 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 16 | 3.62 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 16 | 3.62 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 3 | 3.62 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 3.62 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 16 | 3.62 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 16 | 3.62 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 16 | 3.62 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 4 | 3.62 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 4 | 3.62 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 5 | 3.62 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 5 | 3.62 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 16 | 3.62 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 5 | 3.62 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 5 | 3.62 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 5 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 3.62 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 18 | 3.62 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 18 | 3.62 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 18 | 3.62 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 3.62 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 13 | 3.62 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 10 | 3.62 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 7 | 3.62 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 7 | 3.62 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 7 | 3.62 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 1 | 3.62 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 9 | 3.62 |
| (1,2956) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 15 | 3.62 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 8 | 3.62 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 13 | 3.62 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 8 | 3.62 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 18 | 3.62 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 18 | 3.62 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 14 | 3.62 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 14 | 3.62 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 20 | 3.62 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 20 | 3.62 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 12 | 3.62 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 12 | 3.62 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 3.62 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 14 | 3.62 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 18 | 3.62 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 16 | 3.62 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 16 | 3.62 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 20 | 3.62 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 11 | 3.62 |
| (1,2462) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 17 | 3.62 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 5 | 3.62 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 3 | 3.62 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 15 | 3.62 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 6 | 3.62 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 6 | 3.62 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 6 | 3.62 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 6 | 3.62 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 6 | 3.62 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 6 | 3.62 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 5 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 9 | 3.62 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 1 | 3.62 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 8 | 3.62 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 8 | 3.62 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 8 | 3.62 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 10 | 3.62 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 10 | 3.62 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 10 | 3.62 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 11 | 3.62 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 11 | 3.62 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 11 | 3.62 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 19 | 3.62 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 13 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 4 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 4 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 4 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 4 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 4 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 4 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 4 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 4 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 4 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 12 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 12 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 12 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 12 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 12 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 12 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 12 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 12 | 3.62 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 12 | 3.62 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 15 | 3.62 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 15 | 3.62 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 15 | 3.62 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 18 | 3.62 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 17 | 3.62 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 17 | 3.62 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 17 | 3.62 |
| (1,2030) | 1:152:A:THR:H | 1:155:A:GLY:H | 7 | 3.62 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 18 | 3.62 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 18 | 3.62 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 18 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 11 | 3.62 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 6 | 3.62 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 6 | 3.62 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 13 | 3.62 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 13 | 3.62 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 13 | 3.62 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 17 | 3.62 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 17 | 3.62 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 17 | 3.62 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 13 | 3.62 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 13 | 3.62 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 13 | 3.62 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 1 | 3.62 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 1 | 3.62 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 1 | 3.62 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 8 | 3.62 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 8 | 3.62 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 8 | 3.62 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 16 | 3.62 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 16 | 3.62 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 16 | 3.62 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 19 | 3.62 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 19 | 3.62 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 19 | 3.62 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 10 | 3.62 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 10 | 3.62 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 10 | 3.62 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 5 | 3.62 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 13 | 3.62 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 17 | 3.62 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 12 | 3.62 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 14 | 3.62 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 8 | 3.62 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 3 | 3.62 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 2 | 3.62 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 16 | 3.62 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 16 | 3.62 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 5 | 3.62 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 5 | 3.62 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 5 | 3.62 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 5 | 3.62 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 5 | 3.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 5 | 3.62 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 5 | 3.62 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 5 | 3.62 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 5 | 3.62 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 20 | 3.62 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 1 | 3.62 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 1 | 3.62 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 1 | 3.62 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 19 | 3.62 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 19 | 3.62 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 19 | 3.62 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 10 | 3.62 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 20 | 3.62 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 2 | 3.62 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 2 | 3.62 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 2 | 3.62 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 9 | 3.62 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 14 | 3.62 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 11 | 3.62 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 16 | 3.62 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 4 | 3.62 |
| (1,864) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 4 | 3.62 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 4 | 3.62 |
| (1,864) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 4 | 3.62 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 4 | 3.62 |
| (1,864) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 4 | 3.62 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 3.62 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 9 | 3.62 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 1 | 3.62 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 19 | 3.62 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 3 | 3.62 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 18 | 3.62 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 18 | 3.62 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 18 | 3.62 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 8 | 3.62 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 15 | 3.62 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 9 | 3.62 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 9 | 3.62 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 18 | 3.61 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 10 | 3.61 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 2 | 3.61 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 2 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 20 | 3.61 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 20 | 3.61 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 20 | 3.61 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 20 | 3.61 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 20 | 3.61 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 20 | 3.61 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 11 | 3.61 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 11 | 3.61 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 11 | 3.61 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 11 | 3.61 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 3 | 3.61 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 3 | 3.61 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 14 | 3.61 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 14 | 3.61 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 14 | 3.61 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 14 | 3.61 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 14 | 3.61 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 14 | 3.61 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 6 | 3.61 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 6 | 3.61 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 4 | 3.61 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 4 | 3.61 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 4 | 3.61 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 4 | 3.61 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 14 | 3.61 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 14 | 3.61 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 3 | 3.61 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 3 | 3.61 |
| (1,9142) | 1:90:A:ASN:HD21 | 1:93:A:ILE:HB | 5 | 3.61 |
| (1,9142) | 1:90:A:ASN:HD22 | 1:93:A:ILE:HB | 5 | 3.61 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 4 | 3.61 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 4 | 3.61 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 4 | 3.61 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 4 | 3.61 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 4 | 3.61 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 4 | 3.61 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 20 | 3.61 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 20 | 3.61 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 20 | 3.61 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 20 | 3.61 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 20 | 3.61 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 20 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 3.61 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 20 | 3.61 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 4 | 3.61 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 4 | 3.61 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 4 | 3.61 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 4 | 3.61 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 6 | 3.61 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 6 | 3.61 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 11 | 3.61 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 11 | 3.61 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 13 | 3.61 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 13 | 3.61 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 11 | 3.61 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 11 | 3.61 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 12 | 3.61 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 12 | 3.61 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 9 | 3.61 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 9 | 3.61 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 9 | 3.61 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 9 | 3.61 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 9 | 3.61 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 9 | 3.61 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 19 | 3.61 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 19 | 3.61 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 19 | 3.61 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 19 | 3.61 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 12 | 3.61 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 12 | 3.61 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 12 | 3.61 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 12 | 3.61 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 19 | 3.61 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 19 | 3.61 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 5 | 3.61 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 5 | 3.61 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 5 | 3.61 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 5 | 3.61 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 5 | 3.61 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 5 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 11 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 11 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 11 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 11 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 11 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 11 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 19 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 19 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 19 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 19 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 19 | 3.61 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 19 | 3.61 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 3 | 3.61 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 18 | 3.61 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 18 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 3 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 3 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 3 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 3 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 3 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 3 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 12 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 12 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 12 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 12 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 12 | 3.61 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 12 | 3.61 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 13 | 3.61 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 13 | 3.61 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 16 | 3.61 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 20 | 3.61 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 20 | 3.61 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 20 | 3.61 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 1 | 3.61 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 10 | 3.61 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 10 | 3.61 |
| (1,8185) | 1:103:A:PHE:HA | 1:105:A:SER:H | 11 | 3.61 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 10 | 3.61 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 10 | 3.61 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 10 | 3.61 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 20 | 3.61 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 20 | 3.61 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 20 | 3.61 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 12 | 3.61 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 12 | 3.61 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 12 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG21 | 16 | 3.61 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG22 | 16 | 3.61 |
| (1,7799) | 1:59:A:HIS:HA | 1:159:A:ILE:HG23 | 16 | 3.61 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 5 | 3.61 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 12 | 3.61 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 1 | 3.61 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 1 | 3.61 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 1 | 3.61 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 1 | 3.61 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 1 | 3.61 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 1 | 3.61 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 1 | 3.61 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 1 | 3.61 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 1 | 3.61 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 16 | 3.61 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 13 | 3.61 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 18 | 3.61 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 20 | 3.61 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 20 | 3.61 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 4 | 3.61 |
| (1,7402) | 1:5:A:GLU:H | 1:7:A:LEU:H | 8 | 3.61 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 14 | 3.61 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 14 | 3.61 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 15 | 3.61 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 15 | 3.61 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 15 | 3.61 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 4 | 3.61 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 20 | 3.61 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 20 | 3.61 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 20 | 3.61 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 16 | 3.61 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 16 | 3.61 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 16 | 3.61 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 20 | 3.61 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 6 | 3.61 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 19 | 3.61 |
| (1,7142) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 16 | 3.61 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 18 | 3.61 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 12 | 3.61 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 13 | 3.61 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 15 | 3.61 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 4 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 6 | 3.61 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 7 | 3.61 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 14 | 3.61 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 1 | 3.61 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 15 | 3.61 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 7 | 3.61 |
| (1,6814) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 14 | 3.61 |
| (1,6814) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 14 | 3.61 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 5 | 3.61 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 18 | 3.61 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 18 | 3.61 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 16 | 3.61 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 1 | 3.61 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 7 | 3.61 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 19 | 3.61 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 19 | 3.61 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 19 | 3.61 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 11 | 3.61 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 7 | 3.61 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 18 | 3.61 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 19 | 3.61 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 8 | 3.61 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 3 | 3.61 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 3 | 3.61 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 14 | 3.61 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 16 | 3.61 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 5 | 3.61 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 9 | 3.61 |
| (1,6486) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 16 | 3.61 |
| (1,6486) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 16 | 3.61 |
| (1,6486) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 16 | 3.61 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 20 | 3.61 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 20 | 3.61 |
| (1,6435) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 20 | 3.61 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 8 | 3.61 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 8 | 3.61 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 8 | 3.61 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 12 | 3.61 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 12 | 3.61 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 3 | 3.61 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 1 | 3.61 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 1 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 14 | 3.61 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 14 | 3.61 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 19 | 3.61 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 19 | 3.61 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 19 | 3.61 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 9 | 3.61 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 5 | 3.61 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 5 | 3.61 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 5 | 3.61 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 2 | 3.61 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 7 | 3.61 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 13 | 3.61 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 8 | 3.61 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 8 | 3.61 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 12 | 3.61 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 12 | 3.61 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 12 | 3.61 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 12 | 3.61 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 12 | 3.61 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 12 | 3.61 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 3 | 3.61 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 3 | 3.61 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 3 | 3.61 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 3 | 3.61 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 3 | 3.61 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 3 | 3.61 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 1 | 3.61 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 1 | 3.61 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 1 | 3.61 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 16 | 3.61 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 16 | 3.61 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 2 | 3.61 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 9 | 3.61 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 18 | 3.61 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 18 | 3.61 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 18 | 3.61 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 4 | 3.61 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 4 | 3.61 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 4 | 3.61 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 7 | 3.61 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 19 | 3.61 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 16 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 16 | 3.61 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 20 | 3.61 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 3 | 3.61 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 2 | 3.61 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 3 | 3.61 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 15 | 3.61 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 16 | 3.61 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 16 | 3.61 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 16 | 3.61 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 20 | 3.61 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 20 | 3.61 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 20 | 3.61 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 20 | 3.61 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 20 | 3.61 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 20 | 3.61 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 20 | 3.61 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 20 | 3.61 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 20 | 3.61 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 9 | 3.61 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 9 | 3.61 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 9 | 3.61 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 9 | 3.61 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 9 | 3.61 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 9 | 3.61 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 9 | 3.61 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 9 | 3.61 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 9 | 3.61 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 20 | 3.61 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 20 | 3.61 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 20 | 3.61 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 20 | 3.61 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD11 | 14 | 3.61 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD12 | 14 | 3.61 |
| (1,5320) | 1:88:A:LEU:HA | 1:88:A:LEU:HD13 | 14 | 3.61 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 9 | 3.61 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 9 | 3.61 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 9 | 3.61 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 11 | 3.61 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 19 | 3.61 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 8 | 3.61 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 12 | 3.61 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 11 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 17 | 3.61 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 12 | 3.61 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 12 | 3.61 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 12 | 3.61 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 16 | 3.61 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 16 | 3.61 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 16 | 3.61 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 20 | 3.61 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 20 | 3.61 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 20 | 3.61 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 10 | 3.61 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 10 | 3.61 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 10 | 3.61 |
| (1,5027) | 1:72:A:SER:H | 1:75:A:GLN:H | 19 | 3.61 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 8 | 3.61 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 10 | 3.61 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 2 | 3.61 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 2 | 3.61 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 2 | 3.61 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 2 | 3.61 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 2 | 3.61 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 2 | 3.61 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 2 | 3.61 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 2 | 3.61 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 2 | 3.61 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 13 | 3.61 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 13 | 3.61 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 13 | 3.61 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 13 | 3.61 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 13 | 3.61 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 13 | 3.61 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 13 | 3.61 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 13 | 3.61 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 13 | 3.61 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 9 | 3.61 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 9 | 3.61 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 9 | 3.61 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 14 | 3.61 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 14 | 3.61 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 14 | 3.61 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 12 | 3.61 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 12 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 12 | 3.61 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 12 | 3.61 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 20 | 3.61 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 20 | 3.61 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 20 | 3.61 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 10 | 3.61 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 10 | 3.61 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 10 | 3.61 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 10 | 3.61 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 10 | 3.61 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 10 | 3.61 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 1 | 3.61 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 14 | 3.61 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 14 | 3.61 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 14 | 3.61 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 7 | 3.61 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 2 | 3.61 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 16 | 3.61 |
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 16 | 3.61 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 16 | 3.61 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 16 | 3.61 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 16 | 3.61 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 16 | 3.61 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 16 | 3.61 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 11 | 3.61 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 11 | 3.61 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 11 | 3.61 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 11 | 3.61 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 1 | 3.61 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 1 | 3.61 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 1 | 3.61 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 6 | 3.61 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 6 | 3.61 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 6 | 3.61 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 6 | 3.61 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 3 | 3.61 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 3 | 3.61 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 11 | 3.61 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 11 | 3.61 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 11 | 3.61 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 15 | 3.61 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 12 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 12 | 3.61 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 16 | 3.61 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 4 | 3.61 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 4 | 3.61 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 4 | 3.61 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 4 | 3.61 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 4 | 3.61 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 4 | 3.61 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 3.61 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 20 | 3.61 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 8 | 3.61 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 4 | 3.61 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 4 | 3.61 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 4 | 3.61 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 4 | 3.61 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 4 | 3.61 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 4 | 3.61 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 17 | 3.61 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 17 | 3.61 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 3.61 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 3.61 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 3.61 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 10 | 3.61 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 10 | 3.61 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 10 | 3.61 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 10 | 3.61 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 10 | 3.61 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 10 | 3.61 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 12 | 3.61 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 12 | 3.61 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 19 | 3.61 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 19 | 3.61 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 19 | 3.61 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 19 | 3.61 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 3 | 3.61 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 14 | 3.61 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 19 | 3.61 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 19 | 3.61 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 16 | 3.61 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 16 | 3.61 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 8 | 3.61 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 5 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 5 | 3.61 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 5 | 3.61 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 5 | 3.61 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 5 | 3.61 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 5 | 3.61 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 14 | 3.61 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 14 | 3.61 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 3.61 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 3.61 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 20 | 3.61 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 20 | 3.61 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 20 | 3.61 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 5 | 3.61 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 17 | 3.61 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 16 | 3.61 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 16 | 3.61 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 16 | 3.61 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 3 | 3.61 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 11 | 3.61 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 14 | 3.61 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 20 | 3.61 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 6 | 3.61 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 19 | 3.61 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 9 | 3.61 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 12 | 3.61 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 12 | 3.61 |
| (1,3240) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 16 | 3.61 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 7 | 3.61 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 7 | 3.61 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 7 | 3.61 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 18 | 3.61 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 4 | 3.61 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 12 | 3.61 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 4 | 3.61 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 4 | 3.61 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 4 | 3.61 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 17 | 3.61 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 13 | 3.61 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 15 | 3.61 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 5 | 3.61 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 5 | 3.61 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 5 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 4 | 3.61 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 16 | 3.61 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 10 | 3.61 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 6 | 3.61 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 7 | 3.61 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 14 | 3.61 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 1 | 3.61 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 15 | 3.61 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 10 | 3.61 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 10 | 3.61 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 10 | 3.61 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 7 | 3.61 |
| (1,2796) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 14 | 3.61 |
| (1,2796) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 14 | 3.61 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 5 | 3.61 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 7 | 3.61 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 7 | 3.61 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 7 | 3.61 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 7 | 3.61 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 7 | 3.61 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 7 | 3.61 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 18 | 3.61 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 18 | 3.61 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 16 | 3.61 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 1 | 3.61 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 7 | 3.61 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 14 | 3.61 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 19 | 3.61 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 19 | 3.61 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 19 | 3.61 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 18 | 3.61 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 18 | 3.61 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 18 | 3.61 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 3 | 3.61 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 11 | 3.61 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 13 | 3.61 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 13 | 3.61 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 13 | 3.61 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 13 | 3.61 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 13 | 3.61 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 13 | 3.61 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 7 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 18 | 3.61 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 19 | 3.61 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 8 | 3.61 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 3 | 3.61 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 14 | 3.61 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 16 | 3.61 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 3 | 3.61 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 5 | 3.61 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 9 | 3.61 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 1 | 3.61 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 20 | 3.61 |
| (1,2272) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 16 | 3.61 |
| (1,2272) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 16 | 3.61 |
| (1,2272) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 16 | 3.61 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 19 | 3.61 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 19 | 3.61 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 19 | 3.61 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 13 | 3.61 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 20 | 3.61 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 20 | 3.61 |
| (1,2166) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 20 | 3.61 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 8 | 3.61 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 8 | 3.61 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 8 | 3.61 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 11 | 3.61 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 11 | 3.61 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 11 | 3.61 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 11 | 3.61 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 11 | 3.61 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 11 | 3.61 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 5 | 3.61 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 5 | 3.61 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 5 | 3.61 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 5 | 3.61 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 5 | 3.61 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 5 | 3.61 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 5 | 3.61 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 5 | 3.61 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 5 | 3.61 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 12 | 3.61 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 12 | 3.61 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 3 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 1 | 3.61 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 1 | 3.61 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 1 | 3.61 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 14 | 3.61 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 1 | 3.61 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 1 | 3.61 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 14 | 3.61 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 14 | 3.61 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 19 | 3.61 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 19 | 3.61 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 19 | 3.61 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 9 | 3.61 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 9 | 3.61 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 9 | 3.61 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 9 | 3.61 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 5 | 3.61 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 5 | 3.61 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 5 | 3.61 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 2 | 3.61 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 7 | 3.61 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 13 | 3.61 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 14 | 3.61 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 14 | 3.61 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 14 | 3.61 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 20 | 3.61 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 20 | 3.61 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 20 | 3.61 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 8 | 3.61 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 8 | 3.61 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 12 | 3.61 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 12 | 3.61 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 12 | 3.61 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 12 | 3.61 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 12 | 3.61 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 12 | 3.61 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 3 | 3.61 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 3 | 3.61 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 3 | 3.61 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 3 | 3.61 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 3 | 3.61 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 3 | 3.61 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 1 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 1 | 3.61 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 1 | 3.61 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 16 | 3.61 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 16 | 3.61 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 2 | 3.61 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 9 | 3.61 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 8 | 3.61 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 11 | 3.61 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 10 | 3.61 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 18 | 3.61 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 18 | 3.61 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 18 | 3.61 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 4 | 3.61 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 4 | 3.61 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 4 | 3.61 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 7 | 3.61 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 17 | 3.61 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 19 | 3.61 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 6 | 3.61 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 16 | 3.61 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 16 | 3.61 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 20 | 3.61 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 3 | 3.61 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 3 | 3.61 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 3 | 3.61 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 3 | 3.61 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 19 | 3.61 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 19 | 3.61 |
| (1,730) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 19 | 3.61 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 2 | 3.61 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 2 | 3.61 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 3 | 3.61 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 15 | 3.61 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 2 | 3.61 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 2 | 3.61 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 2 | 3.61 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 2 | 3.61 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 2 | 3.61 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 2 | 3.61 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 2 | 3.61 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 2 | 3.61 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 2 | 3.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 5 | 3.61 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 9 | 3.61 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 9 | 3.61 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 9 | 3.61 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 9 | 3.61 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 9 | 3.61 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 9 | 3.61 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 10 | 3.61 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 10 | 3.61 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 10 | 3.61 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 10 | 3.61 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 10 | 3.61 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 10 | 3.61 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 13 | 3.61 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 13 | 3.61 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 14 | 3.61 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 2 | 3.61 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 2 | 3.61 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 2 | 3.61 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 14 | 3.61 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 4 | 3.61 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 11 | 3.6 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 11 | 3.6 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 11 | 3.6 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 11 | 3.6 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 11 | 3.6 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 11 | 3.6 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 2 | 3.6 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 2 | 3.6 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 4 | 3.6 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 4 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 14 | 3.6 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 14 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 14 | 3.6 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 5 | 3.6 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 5 | 3.6 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 14 | 3.6 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 14 | 3.6 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 9 | 3.6 |
| (1,9432) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 9 | 3.6 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 12 | 3.6 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 12 | 3.6 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 12 | 3.6 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 12 | 3.6 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 20 | 3.6 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 20 | 3.6 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE2 | 10 | 3.6 |
| (1,9367) | 1:117:A:LYS:H | 1:117:A:LYS:HE3 | 10 | 3.6 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 20 | 3.6 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 20 | 3.6 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 16 | 3.6 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 16 | 3.6 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB2 | 12 | 3.6 |
| (1,9254) | 1:99:A:GLY:HA2 | 1:100:A:GLU:HB3 | 12 | 3.6 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB2 | 12 | 3.6 |
| (1,9254) | 1:99:A:GLY:HA3 | 1:100:A:GLU:HB3 | 12 | 3.6 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 4 | 3.6 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 4 | 3.6 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 4 | 3.6 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 4 | 3.6 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 8 | 3.6 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 8 | 3.6 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 3 | 3.6 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 3 | 3.6 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 19 | 3.6 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 19 | 3.6 |
| (1,9025) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 19 | 3.6 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 19 | 3.6 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 19 | 3.6 |
| (1,9025) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 19 | 3.6 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 17 | 3.6 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 17 | 3.6 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 17 | 3.6 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 17 | 3.6 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 17 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 17 | 3.6 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 20 | 3.6 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 20 | 3.6 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 3 | 3.6 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 3 | 3.6 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 12 | 3.6 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 12 | 3.6 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 12 | 3.6 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 12 | 3.6 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 12 | 3.6 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 12 | 3.6 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 19 | 3.6 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 19 | 3.6 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 19 | 3.6 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 19 | 3.6 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 5 | 3.6 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 5 | 3.6 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 18 | 3.6 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 18 | 3.6 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 6 | 3.6 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 6 | 3.6 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 11 | 3.6 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 11 | 3.6 |
| (1,8596) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 8 | 3.6 |
| (1,8596) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 8 | 3.6 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 16 | 3.6 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 10 | 3.6 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 8 | 3.6 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 8 | 3.6 |
| (1,8268) | 1:121:A:ASP:H | 1:122:A:LEU:H | 12 | 3.6 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 16 | 3.6 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 10 | 3.6 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 11 | 3.6 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 11 | 3.6 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 18 | 3.6 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 18 | 3.6 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 18 | 3.6 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 18 | 3.6 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 18 | 3.6 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 18 | 3.6 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 18 | 3.6 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 18 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 18 | 3.6 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 17 | 3.6 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 17 | 3.6 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 17 | 3.6 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 17 | 3.6 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 17 | 3.6 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 17 | 3.6 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 17 | 3.6 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 17 | 3.6 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 17 | 3.6 |
| (1,8112) | 1:93:A:ILE:HD11 | 1:148:A:GLY:H | 4 | 3.6 |
| (1,8112) | 1:93:A:ILE:HD12 | 1:148:A:GLY:H | 4 | 3.6 |
| (1,8112) | 1:93:A:ILE:HD13 | 1:148:A:GLY:H | 4 | 3.6 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 11 | 3.6 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 14 | 3.6 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 10 | 3.6 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 10 | 3.6 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 10 | 3.6 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 11 | 3.6 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 15 | 3.6 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 15 | 3.6 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 15 | 3.6 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 20 | 3.6 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 20 | 3.6 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 20 | 3.6 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 20 | 3.6 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 20 | 3.6 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 20 | 3.6 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 20 | 3.6 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 20 | 3.6 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 20 | 3.6 |
| (1,7788) | 1:58:A:SER:HA | 1:123:A:GLY:H | 14 | 3.6 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 6 | 3.6 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 6 | 3.6 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 6 | 3.6 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 6 | 3.6 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 6 | 3.6 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 6 | 3.6 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 2 | 3.6 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 2 | 3.6 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 16 | 3.6 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 16 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 16 | 3.6 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 19 | 3.6 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 7 | 3.6 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 14 | 3.6 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 17 | 3.6 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 12 | 3.6 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 2 | 3.6 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 2 | 3.6 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 2 | 3.6 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 11 | 3.6 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 11 | 3.6 |
| (1,7432) | 1:7:A:LEU:HG | 1:37:A:PRO:HG2 | 7 | 3.6 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 18 | 3.6 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 18 | 3.6 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 18 | 3.6 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 18 | 3.6 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 18 | 3.6 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 18 | 3.6 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 2 | 3.6 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 1 | 3.6 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 7 | 3.6 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 20 | 3.6 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 14 | 3.6 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 14 | 3.6 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 3 | 3.6 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 3 | 3.6 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 3 | 3.6 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 9 | 3.6 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 15 | 3.6 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 15 | 3.6 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 5 | 3.6 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 3 | 3.6 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 3 | 3.6 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 3 | 3.6 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 5 | 3.6 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 16 | 3.6 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 16 | 3.6 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 13 | 3.6 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 19 | 3.6 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 16 | 3.6 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 16 | 3.6 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 16 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 3 | 3.6 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 3 | 3.6 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 3 | 3.6 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 6 | 3.6 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 6 | 3.6 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 6 | 3.6 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 2 | 3.6 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 8 | 3.6 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 11 | 3.6 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 15 | 3.6 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 15 | 3.6 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 15 | 3.6 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 15 | 3.6 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 15 | 3.6 |
| (1,6824) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 15 | 3.6 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 12 | 3.6 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 12 | 3.6 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 6 | 3.6 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 6 | 3.6 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 6 | 3.6 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 6 | 3.6 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 5 | 3.6 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 4 | 3.6 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 5 | 3.6 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 13 | 3.6 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 5 | 3.6 |
| (1,6621) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 15 | 3.6 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 17 | 3.6 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 6 | 3.6 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 2 | 3.6 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 2 | 3.6 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 2 | 3.6 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 12 | 3.6 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 10 | 3.6 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 10 | 3.6 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 10 | 3.6 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 10 | 3.6 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 10 | 3.6 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 10 | 3.6 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 10 | 3.6 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 10 | 3.6 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 10 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 16 | 3.6 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 9 | 3.6 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 9 | 3.6 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 9 | 3.6 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 4 | 3.6 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 4 | 3.6 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 4 | 3.6 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 2 | 3.6 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 3 | 3.6 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 3 | 3.6 |
| (1,6243) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 3 | 3.6 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 5 | 3.6 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 10 | 3.6 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 12 | 3.6 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 5 | 3.6 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 4 | 3.6 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 7 | 3.6 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 7 | 3.6 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 15 | 3.6 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 15 | 3.6 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 12 | 3.6 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 12 | 3.6 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 12 | 3.6 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 12 | 3.6 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 12 | 3.6 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 12 | 3.6 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 12 | 3.6 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 12 | 3.6 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 12 | 3.6 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 2 | 3.6 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 12 | 3.6 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 13 | 3.6 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 13 | 3.6 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 13 | 3.6 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 13 | 3.6 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 13 | 3.6 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 13 | 3.6 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 13 | 3.6 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 13 | 3.6 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 13 | 3.6 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 20 | 3.6 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 10 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 17 | 3.6 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 5 | 3.6 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 5 | 3.6 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 11 | 3.6 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 11 | 3.6 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 11 | 3.6 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 13 | 3.6 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 13 | 3.6 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 13 | 3.6 |
| (1,6047) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 6 | 3.6 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 19 | 3.6 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 11 | 3.6 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 11 | 3.6 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 18 | 3.6 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 11 | 3.6 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 11 | 3.6 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 11 | 3.6 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 13 | 3.6 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 13 | 3.6 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 13 | 3.6 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 13 | 3.6 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 11 | 3.6 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 11 | 3.6 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 7 | 3.6 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 7 | 3.6 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 4 | 3.6 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 4 | 3.6 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 4 | 3.6 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 10 | 3.6 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 10 | 3.6 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 10 | 3.6 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 16 | 3.6 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 1 | 3.6 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 1 | 3.6 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 1 | 3.6 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 16 | 3.6 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 17 | 3.6 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 5 | 3.6 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 5 | 3.6 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 5 | 3.6 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 20 | 3.6 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 16 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 16 | 3.6 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 16 | 3.6 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 16 | 3.6 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 16 | 3.6 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 16 | 3.6 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 15 | 3.6 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 4 | 3.6 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 4 | 3.6 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 4 | 3.6 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 5 | 3.6 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 5 | 3.6 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 5 | 3.6 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 16 | 3.6 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 2 | 3.6 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 2 | 3.6 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 2 | 3.6 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 9 | 3.6 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 9 | 3.6 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 9 | 3.6 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 3 | 3.6 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 17 | 3.6 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 17 | 3.6 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 17 | 3.6 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 15 | 3.6 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 15 | 3.6 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 15 | 3.6 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 14 | 3.6 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 9 | 3.6 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 9 | 3.6 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 9 | 3.6 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 3 | 3.6 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 9 | 3.6 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 20 | 3.6 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 19 | 3.6 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 20 | 3.6 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 2 | 3.6 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 18 | 3.6 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 10 | 3.6 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 10 | 3.6 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 10 | 3.6 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 8 | 3.6 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 8 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 8 | 3.6 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 7 | 3.6 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 7 | 3.6 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 7 | 3.6 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 10 | 3.6 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 10 | 3.6 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 10 | 3.6 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 17 | 3.6 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 17 | 3.6 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 17 | 3.6 |
| (1,5009) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 1 | 3.6 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 7 | 3.6 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 7 | 3.6 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 10 | 3.6 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 2 | 3.6 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 2 | 3.6 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 2 | 3.6 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 9 | 3.6 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 10 | 3.6 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 10 | 3.6 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 10 | 3.6 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 17 | 3.6 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 17 | 3.6 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 17 | 3.6 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 17 | 3.6 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 17 | 3.6 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 17 | 3.6 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 19 | 3.6 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 19 | 3.6 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 19 | 3.6 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 3 | 3.6 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 3 | 3.6 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 3 | 3.6 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 12 | 3.6 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 12 | 3.6 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 12 | 3.6 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 12 | 3.6 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 12 | 3.6 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 12 | 3.6 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 12 | 3.6 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 12 | 3.6 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 12 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 10 | 3.6 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 10 | 3.6 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 10 | 3.6 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 13 | 3.6 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 13 | 3.6 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 13 | 3.6 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 13 | 3.6 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 5 | 3.6 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 11 | 3.6 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 11 | 3.6 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 4 | 3.6 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 12 | 3.6 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 4 | 3.6 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 4 | 3.6 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 4 | 3.6 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 7 | 3.6 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 2 | 3.6 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 2 | 3.6 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 2 | 3.6 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 12 | 3.6 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 12 | 3.6 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 5 | 3.6 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 5 | 3.6 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 5 | 3.6 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 5 | 3.6 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 5 | 3.6 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 5 | 3.6 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 18 | 3.6 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 18 | 3.6 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 18 | 3.6 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 18 | 3.6 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 18 | 3.6 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 18 | 3.6 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 4 | 3.6 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 15 | 3.6 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 5 | 3.6 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 5 | 3.6 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 9 | 3.6 |
| (1,4418) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 9 | 3.6 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 11 | 3.6 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 11 | 3.6 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 6 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 6 | 3.6 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 16 | 3.6 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 16 | 3.6 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 19 | 3.6 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 19 | 3.6 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 19 | 3.6 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 9 | 3.6 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 9 | 3.6 |
| (1,4224) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 9 | 3.6 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 8 | 3.6 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 8 | 3.6 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 8 | 3.6 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 8 | 3.6 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 8 | 3.6 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 8 | 3.6 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 5 | 3.6 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 5 | 3.6 |
| (1,4162) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 7 | 3.6 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 14 | 3.6 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 14 | 3.6 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 14 | 3.6 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 14 | 3.6 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 14 | 3.6 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 14 | 3.6 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 11 | 3.6 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 19 | 3.6 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 5 | 3.6 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 5 | 3.6 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 4 | 3.6 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 4 | 3.6 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 1 | 3.6 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 1 | 3.6 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 1 | 3.6 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 1 | 3.6 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 1 | 3.6 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 1 | 3.6 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 8 | 3.6 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 8 | 3.6 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 19 | 3.6 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 19 | 3.6 |
| (1,3996) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 19 | 3.6 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 19 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 19 | 3.6 |
| (1,3996) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 19 | 3.6 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 20 | 3.6 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 20 | 3.6 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 3 | 3.6 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 3 | 3.6 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 2 | 3.6 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 6 | 3.6 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 6 | 3.6 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 6 | 3.6 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 6 | 3.6 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 6 | 3.6 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 6 | 3.6 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 17 | 3.6 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 14 | 3.6 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 14 | 3.6 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 3.6 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 19 | 3.6 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 19 | 3.6 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 19 | 3.6 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 19 | 3.6 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 13 | 3.6 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 5 | 3.6 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 5 | 3.6 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 11 | 3.6 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 11 | 3.6 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 12 | 3.6 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 1 | 3.6 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 8 | 3.6 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 5 | 3.6 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 19 | 3.6 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 19 | 3.6 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 19 | 3.6 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 7 | 3.6 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 7 | 3.6 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 11 | 3.6 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 1 | 3.6 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 3 | 3.6 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 3 | 3.6 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 3 | 3.6 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 5 | 3.6 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 16 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 16 | 3.6 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 14 | 3.6 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 13 | 3.6 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 5 | 3.6 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 19 | 3.6 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 3 | 3.6 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 16 | 3.6 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 16 | 3.6 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 16 | 3.6 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 7 | 3.6 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 4 | 3.6 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 5 | 3.6 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 10 | 3.6 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 3 | 3.6 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 3 | 3.6 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 3 | 3.6 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 6 | 3.6 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 6 | 3.6 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 6 | 3.6 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 2 | 3.6 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 8 | 3.6 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 11 | 3.6 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 15 | 3.6 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 15 | 3.6 |
| (1,2808) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 15 | 3.6 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 12 | 3.6 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 12 | 3.6 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 10 | 3.6 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 10 | 3.6 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 6 | 3.6 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 6 | 3.6 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 6 | 3.6 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 6 | 3.6 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 17 | 3.6 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 17 | 3.6 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 3.6 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 5 | 3.6 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 13 | 3.6 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 4 | 3.6 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 5 | 3.6 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 13 | 3.6 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 5 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2478) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 15 | 3.6 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 20 | 3.6 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 6 | 3.6 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 20 | 3.6 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 2 | 3.6 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 2 | 3.6 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 2 | 3.6 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 12 | 3.6 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 13 | 3.6 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 5 | 3.6 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 5 | 3.6 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 5 | 3.6 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 4 | 3.6 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 18 | 3.6 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 10 | 3.6 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 10 | 3.6 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 10 | 3.6 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 10 | 3.6 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 10 | 3.6 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 10 | 3.6 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 10 | 3.6 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 10 | 3.6 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 10 | 3.6 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 18 | 3.6 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 3.6 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 3.6 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 3.6 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 16 | 3.6 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 10 | 3.6 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 10 | 3.6 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 10 | 3.6 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 10 | 3.6 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 10 | 3.6 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 10 | 3.6 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 6 | 3.6 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 6 | 3.6 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 18 | 3.6 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 18 | 3.6 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 9 | 3.6 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 9 | 3.6 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 9 | 3.6 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 4 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 4 | 3.6 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 4 | 3.6 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 9 | 3.6 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 9 | 3.6 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 9 | 3.6 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 15 | 3.6 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 15 | 3.6 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 15 | 3.6 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 2 | 3.6 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 3 | 3.6 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 3 | 3.6 |
| (1,1894) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 3 | 3.6 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 5 | 3.6 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 10 | 3.6 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 12 | 3.6 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 5 | 3.6 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 4 | 3.6 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 4 | 3.6 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 4 | 3.6 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 4 | 3.6 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 7 | 3.6 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 7 | 3.6 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 15 | 3.6 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 15 | 3.6 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 12 | 3.6 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 12 | 3.6 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 12 | 3.6 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 12 | 3.6 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 12 | 3.6 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 12 | 3.6 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 12 | 3.6 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 12 | 3.6 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 12 | 3.6 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 2 | 3.6 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 12 | 3.6 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 13 | 3.6 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 13 | 3.6 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 13 | 3.6 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 13 | 3.6 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 13 | 3.6 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 13 | 3.6 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 13 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 13 | 3.6 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 13 | 3.6 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 20 | 3.6 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 10 | 3.6 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 17 | 3.6 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 5 | 3.6 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 5 | 3.6 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 4 | 3.6 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 5 | 3.6 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 11 | 3.6 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 11 | 3.6 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 11 | 3.6 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 13 | 3.6 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 13 | 3.6 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 13 | 3.6 |
| (1,1598) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 6 | 3.6 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 19 | 3.6 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 11 | 3.6 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 11 | 3.6 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 1 | 3.6 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 7 | 3.6 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 11 | 3.6 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 18 | 3.6 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 11 | 3.6 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 11 | 3.6 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 11 | 3.6 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 13 | 3.6 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 13 | 3.6 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 13 | 3.6 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 13 | 3.6 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 11 | 3.6 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 11 | 3.6 |
| (1,1238) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 15 | 3.6 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 7 | 3.6 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 7 | 3.6 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 4 | 3.6 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 4 | 3.6 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 4 | 3.6 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 10 | 3.6 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 10 | 3.6 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 10 | 3.6 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 16 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 1 | 3.6 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 16 | 3.6 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 1 | 3.6 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 1 | 3.6 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 1 | 3.6 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 16 | 3.6 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 17 | 3.6 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 5 | 3.6 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 5 | 3.6 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 5 | 3.6 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 20 | 3.6 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 16 | 3.6 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 16 | 3.6 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 16 | 3.6 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 16 | 3.6 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 16 | 3.6 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 16 | 3.6 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 15 | 3.6 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 4 | 3.6 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 4 | 3.6 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 4 | 3.6 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 8 | 3.6 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 8 | 3.6 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 8 | 3.6 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 5 | 3.6 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 5 | 3.6 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 5 | 3.6 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 12 | 3.6 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 15 | 3.6 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 16 | 3.6 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 2 | 3.6 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 2 | 3.6 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 2 | 3.6 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 2 | 3.6 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 9 | 3.6 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 11 | 3.6 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 11 | 3.6 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 11 | 3.6 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 11 | 3.6 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 11 | 3.6 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 11 | 3.6 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 20 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 20 | 3.6 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 20 | 3.6 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 16 | 3.6 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 16 | 3.6 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 14 | 3.6 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 14 | 3.6 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 14 | 3.6 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 11 | 3.6 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 11 | 3.6 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 11 | 3.6 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 9 | 3.59 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 7 | 3.59 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 4 | 3.59 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 5 | 3.59 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 5 | 3.59 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 15 | 3.59 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 15 | 3.59 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 19 | 3.59 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 19 | 3.59 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 17 | 3.59 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 17 | 3.59 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 17 | 3.59 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 17 | 3.59 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 17 | 3.59 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 17 | 3.59 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 17 | 3.59 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 17 | 3.59 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 17 | 3.59 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 17 | 3.59 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 11 | 3.59 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 11 | 3.59 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 11 | 3.59 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 11 | 3.59 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 16 | 3.59 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 16 | 3.59 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 2 | 3.59 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 2 | 3.59 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 2 | 3.59 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 2 | 3.59 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 7 | 3.59 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 7 | 3.59 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 7 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 7 | 3.59 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 7 | 3.59 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 7 | 3.59 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 15 | 3.59 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 15 | 3.59 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 9 | 3.59 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 9 | 3.59 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 9 | 3.59 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 9 | 3.59 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 9 | 3.59 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 9 | 3.59 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 6 | 3.59 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 6 | 3.59 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 11 | 3.59 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 11 | 3.59 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 16 | 3.59 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 16 | 3.59 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD1 | 13 | 3.59 |
| (1,8814) | 1:58:A:SER:HB2 | 1:103:A:PHE:HD2 | 13 | 3.59 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD1 | 13 | 3.59 |
| (1,8814) | 1:58:A:SER:HB3 | 1:103:A:PHE:HD2 | 13 | 3.59 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 9 | 3.59 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 9 | 3.59 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 9 | 3.59 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 9 | 3.59 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 17 | 3.59 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 17 | 3.59 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 17 | 3.59 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 17 | 3.59 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 17 | 3.59 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 17 | 3.59 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 12 | 3.59 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 12 | 3.59 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 12 | 3.59 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 12 | 3.59 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 17 | 3.59 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 17 | 3.59 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 7 | 3.59 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 7 | 3.59 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 20 | 3.59 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 20 | 3.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 18 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 3.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 3.59 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 12 | 3.59 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 12 | 3.59 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 12 | 3.59 |
| (1,8418) | 1:142:A:ARG:H | 1:145:A:GLU:H | 14 | 3.59 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 3 | 3.59 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 3 | 3.59 |
| (1,8287) | 1:125:A:PHE:HE1 | 1:126:A:SER:H | 20 | 3.59 |
| (1,8287) | 1:125:A:PHE:HE2 | 1:126:A:SER:H | 20 | 3.59 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 9 | 3.59 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 9 | 3.59 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 13 | 3.59 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 13 | 3.59 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 13 | 3.59 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 15 | 3.59 |
| (1,8146) | 1:96:A:ILE:HG13 | 1:101:A:GLU:HB2 | 9 | 3.59 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 10 | 3.59 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 10 | 3.59 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 10 | 3.59 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 19 | 3.59 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 19 | 3.59 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 19 | 3.59 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 18 | 3.59 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 15 | 3.59 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 7 | 3.59 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 7 | 3.59 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 7 | 3.59 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 19 | 3.59 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 6 | 3.59 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 9 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 9 | 3.59 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 11 | 3.59 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 3 | 3.59 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 3 | 3.59 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 3 | 3.59 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 7 | 3.59 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 7 | 3.59 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 13 | 3.59 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 20 | 3.59 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 3 | 3.59 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 9 | 3.59 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 16 | 3.59 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 16 | 3.59 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 9 | 3.59 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 9 | 3.59 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 9 | 3.59 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 20 | 3.59 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 20 | 3.59 |
| (1,7262) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 20 | 3.59 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 12 | 3.59 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 12 | 3.59 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 12 | 3.59 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 12 | 3.59 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 12 | 3.59 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 12 | 3.59 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 12 | 3.59 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 12 | 3.59 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 12 | 3.59 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 14 | 3.59 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 6 | 3.59 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 6 | 3.59 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 6 | 3.59 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 15 | 3.59 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 10 | 3.59 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 19 | 3.59 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 6 | 3.59 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 8 | 3.59 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 9 | 3.59 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 10 | 3.59 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 10 | 3.59 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 10 | 3.59 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 19 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6944) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 9 | 3.59 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 19 | 3.59 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 19 | 3.59 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 19 | 3.59 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 16 | 3.59 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 18 | 3.59 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 20 | 3.59 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 10 | 3.59 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 10 | 3.59 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 8 | 3.59 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 8 | 3.59 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 13 | 3.59 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 13 | 3.59 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 13 | 3.59 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 13 | 3.59 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 13 | 3.59 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 17 | 3.59 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 16 | 3.59 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 1 | 3.59 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 7 | 3.59 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 5 | 3.59 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 5 | 3.59 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 5 | 3.59 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 20 | 3.59 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 20 | 3.59 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 20 | 3.59 |
| (1,6541) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 20 | 3.59 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 16 | 3.59 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 16 | 3.59 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 16 | 3.59 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 18 | 3.59 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 7 | 3.59 |
| (1,6377) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 1 | 3.59 |
| (1,6377) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 1 | 3.59 |
| (1,6377) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 1 | 3.59 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 18 | 3.59 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 18 | 3.59 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 18 | 3.59 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 6 | 3.59 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 6 | 3.59 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 6 | 3.59 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 2 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 2 | 3.59 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 5 | 3.59 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 5 | 3.59 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 5 | 3.59 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 5 | 3.59 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 5 | 3.59 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 5 | 3.59 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 5 | 3.59 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 5 | 3.59 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 5 | 3.59 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 3 | 3.59 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 9 | 3.59 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 15 | 3.59 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 15 | 3.59 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 15 | 3.59 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 15 | 3.59 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 15 | 3.59 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 15 | 3.59 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 15 | 3.59 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 15 | 3.59 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 15 | 3.59 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 6 | 3.59 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 6 | 3.59 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 3 | 3.59 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 3 | 3.59 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 8 | 3.59 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 8 | 3.59 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 3 | 3.59 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 20 | 3.59 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 20 | 3.59 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 20 | 3.59 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 20 | 3.59 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 20 | 3.59 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 2 | 3.59 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 2 | 3.59 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 2 | 3.59 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 11 | 3.59 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 11 | 3.59 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 11 | 3.59 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 16 | 3.59 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 16 | 3.59 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 16 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5756) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 7 | 3.59 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 2 | 3.59 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 16 | 3.59 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 14 | 3.59 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 17 | 3.59 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 17 | 3.59 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 19 | 3.59 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 19 | 3.59 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 19 | 3.59 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 2 | 3.59 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 5 | 3.59 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 12 | 3.59 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 16 | 3.59 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 18 | 3.59 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 18 | 3.59 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 18 | 3.59 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 18 | 3.59 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 18 | 3.59 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 18 | 3.59 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 18 | 3.59 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 12 | 3.59 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 12 | 3.59 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 12 | 3.59 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 3 | 3.59 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 2 | 3.59 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 14 | 3.59 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 5 | 3.59 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 12 | 3.59 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 16 | 3.59 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 16 | 3.59 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 16 | 3.59 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 11 | 3.59 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 2 | 3.59 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 4 | 3.59 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 8 | 3.59 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 14 | 3.59 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 15 | 3.59 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 19 | 3.59 |
| (1,5146) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 7 | 3.59 |
| (1,5146) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 7 | 3.59 |
| (1,5146) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 7 | 3.59 |
| (1,5122) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 13 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 2 | 3.59 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 9 | 3.59 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 9 | 3.59 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 9 | 3.59 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 1 | 3.59 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 1 | 3.59 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 1 | 3.59 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 13 | 3.59 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 13 | 3.59 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 17 | 3.59 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 20 | 3.59 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 2 | 3.59 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 3 | 3.59 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 3 | 3.59 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 19 | 3.59 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 19 | 3.59 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 19 | 3.59 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 19 | 3.59 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 19 | 3.59 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 19 | 3.59 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 5 | 3.59 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 5 | 3.59 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 5 | 3.59 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 18 | 3.59 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 18 | 3.59 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 18 | 3.59 |
| (1,4845) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 15 | 3.59 |
| (1,4845) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 15 | 3.59 |
| (1,4845) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 15 | 3.59 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 14 | 3.59 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 14 | 3.59 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 14 | 3.59 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 14 | 3.59 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 14 | 3.59 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 14 | 3.59 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 14 | 3.59 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 14 | 3.59 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 14 | 3.59 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 14 | 3.59 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 14 | 3.59 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 14 | 3.59 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 14 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 14 | 3.59 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 14 | 3.59 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 14 | 3.59 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 14 | 3.59 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 14 | 3.59 |
| (1,4815) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 17 | 3.59 |
| (1,4815) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 17 | 3.59 |
| (1,4815) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 17 | 3.59 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 1 | 3.59 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 1 | 3.59 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 1 | 3.59 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 18 | 3.59 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 7 | 3.59 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 4 | 3.59 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 4 | 3.59 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 7 | 3.59 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 7 | 3.59 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 7 | 3.59 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 7 | 3.59 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 12 | 3.59 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 12 | 3.59 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 12 | 3.59 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 12 | 3.59 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 15 | 3.59 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 15 | 3.59 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 19 | 3.59 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 19 | 3.59 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 15 | 3.59 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 3.59 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 3.59 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 17 | 3.59 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 17 | 3.59 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 17 | 3.59 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 17 | 3.59 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 2 | 3.59 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 2 | 3.59 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 17 | 3.59 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 17 | 3.59 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 2 | 3.59 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 2 | 3.59 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 19 | 3.59 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 19 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 4 | 3.59 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 4 | 3.59 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 4 | 3.59 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 4 | 3.59 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 4 | 3.59 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 4 | 3.59 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 1 | 3.59 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 5 | 3.59 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 12 | 3.59 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 12 | 3.59 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 12 | 3.59 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 12 | 3.59 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 8 | 3.59 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 3 | 3.59 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 3 | 3.59 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 10 | 3.59 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 10 | 3.59 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 4 | 3.59 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 10 | 3.59 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 11 | 3.59 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 7 | 3.59 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 7 | 3.59 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 7 | 3.59 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 7 | 3.59 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 7 | 3.59 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 7 | 3.59 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 16 | 3.59 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 9 | 3.59 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 10 | 3.59 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 14 | 3.59 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 8 | 3.59 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 11 | 3.59 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 11 | 3.59 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 17 | 3.59 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 9 | 3.59 |
| (1,3872) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 8 | 3.59 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 16 | 3.59 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 16 | 3.59 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 11 | 3.59 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 11 | 3.59 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 11 | 3.59 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 17 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 17 | 3.59 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 17 | 3.59 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 7 | 3.59 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 17 | 3.59 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 17 | 3.59 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 17 | 3.59 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 17 | 3.59 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 17 | 3.59 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 17 | 3.59 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 12 | 3.59 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 12 | 3.59 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 12 | 3.59 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 12 | 3.59 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 17 | 3.59 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 17 | 3.59 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 3.59 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 7 | 3.59 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 7 | 3.59 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 7 | 3.59 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 7 | 3.59 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 20 | 3.59 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 20 | 3.59 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 9 | 3.59 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 9 | 3.59 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 9 | 3.59 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 20 | 3.59 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 20 | 3.59 |
| (1,3474) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 20 | 3.59 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 12 | 3.59 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 12 | 3.59 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 12 | 3.59 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 12 | 3.59 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 12 | 3.59 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 12 | 3.59 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 12 | 3.59 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 12 | 3.59 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 12 | 3.59 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 14 | 3.59 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 14 | 3.59 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 15 | 3.59 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 4 | 3.59 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 8 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 14 | 3.59 |
| (1,3317) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 15 | 3.59 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 2 | 3.59 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 3 | 3.59 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 13 | 3.59 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 15 | 3.59 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 6 | 3.59 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 6 | 3.59 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 6 | 3.59 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 15 | 3.59 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 10 | 3.59 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 19 | 3.59 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 6 | 3.59 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 8 | 3.59 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 9 | 3.59 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 10 | 3.59 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 10 | 3.59 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 10 | 3.59 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 6 | 3.59 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 9 | 3.59 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 16 | 3.59 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 19 | 3.59 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 3.59 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 3.59 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 3 | 3.59 |
| (1,2964) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 9 | 3.59 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 17 | 3.59 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 19 | 3.59 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 19 | 3.59 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 19 | 3.59 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 16 | 3.59 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 18 | 3.59 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 20 | 3.59 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 10 | 3.59 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 10 | 3.59 |
| (1,2725) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 18 | 3.59 |
| (1,2725) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 18 | 3.59 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 8 | 3.59 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 8 | 3.59 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 16 | 3.59 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 16 | 3.59 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 13 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 3.59 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 17 | 3.59 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 4 | 3.59 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 4 | 3.59 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 4 | 3.59 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 16 | 3.59 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 1 | 3.59 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 7 | 3.59 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 5 | 3.59 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 5 | 3.59 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 5 | 3.59 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 8 | 3.59 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 8 | 3.59 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 8 | 3.59 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 14 | 3.59 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 20 | 3.59 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 20 | 3.59 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 15 | 3.59 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 16 | 3.59 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 16 | 3.59 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 16 | 3.59 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 18 | 3.59 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 8 | 3.59 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 8 | 3.59 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 8 | 3.59 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 16 | 3.59 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 16 | 3.59 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 16 | 3.59 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 3 | 3.59 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 6 | 3.59 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 1 | 3.59 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 1 | 3.59 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 1 | 3.59 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 7 | 3.59 |
| (1,2074) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 1 | 3.59 |
| (1,2074) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 1 | 3.59 |
| (1,2074) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 1 | 3.59 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 18 | 3.59 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 18 | 3.59 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 18 | 3.59 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 6 | 3.59 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 6 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 6 | 3.59 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 2 | 3.59 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 2 | 3.59 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 11 | 3.59 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 5 | 3.59 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 5 | 3.59 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 5 | 3.59 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 5 | 3.59 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 5 | 3.59 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 5 | 3.59 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 5 | 3.59 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 5 | 3.59 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 5 | 3.59 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 3 | 3.59 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 14 | 3.59 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 14 | 3.59 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 14 | 3.59 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 4 | 3.59 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 9 | 3.59 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 15 | 3.59 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 15 | 3.59 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 15 | 3.59 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 15 | 3.59 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 15 | 3.59 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 15 | 3.59 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 15 | 3.59 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 15 | 3.59 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 15 | 3.59 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 6 | 3.59 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 6 | 3.59 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 15 | 3.59 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 15 | 3.59 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 15 | 3.59 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 3 | 3.59 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 3 | 3.59 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 3 | 3.59 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 9 | 3.59 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 13 | 3.59 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 18 | 3.59 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 20 | 3.59 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 8 | 3.59 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 8 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 12 | 3.59 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 12 | 3.59 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 12 | 3.59 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 20 | 3.59 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 20 | 3.59 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 20 | 3.59 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 3 | 3.59 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 12 | 3.59 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 12 | 3.59 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 16 | 3.59 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 6 | 3.59 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 6 | 3.59 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 6 | 3.59 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 20 | 3.59 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 20 | 3.59 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 20 | 3.59 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 20 | 3.59 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 16 | 3.59 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 16 | 3.59 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 16 | 3.59 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 16 | 3.59 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 16 | 3.59 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 16 | 3.59 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 16 | 3.59 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 16 | 3.59 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 16 | 3.59 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 20 | 3.59 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 2 | 3.59 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 2 | 3.59 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 2 | 3.59 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 11 | 3.59 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 11 | 3.59 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 11 | 3.59 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 16 | 3.59 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 16 | 3.59 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 16 | 3.59 |
| (1,1088) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 7 | 3.59 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 2 | 3.59 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 2 | 3.59 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 16 | 3.59 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 15 | 3.59 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 14 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 17 | 3.59 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 17 | 3.59 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 12 | 3.59 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 4 | 3.59 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 5 | 3.59 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 12 | 3.59 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 18 | 3.59 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 6 | 3.59 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 6 | 3.59 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 19 | 3.59 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 19 | 3.59 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 19 | 3.59 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 7 | 3.59 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 9 | 3.59 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 7 | 3.59 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 18 | 3.59 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 7 | 3.59 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 7 | 3.59 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 7 | 3.59 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 17 | 3.59 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 17 | 3.59 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 17 | 3.59 |
| (1,544) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 12 | 3.59 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 18 | 3.59 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 18 | 3.59 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 18 | 3.59 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 18 | 3.59 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 18 | 3.59 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 18 | 3.59 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 2 | 3.59 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 2 | 3.59 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 2 | 3.59 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 2 | 3.59 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 2 | 3.59 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 2 | 3.59 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 2 | 3.59 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 2 | 3.59 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 2 | 3.59 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 18 | 3.59 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 18 | 3.59 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 18 | 3.59 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 18 | 3.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 18 | 3.59 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 18 | 3.59 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 18 | 3.59 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 18 | 3.59 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 18 | 3.59 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 1 | 3.59 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 1 | 3.59 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 1 | 3.59 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 10 | 3.59 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 10 | 3.59 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 4 | 3.58 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 5 | 3.58 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 12 | 3.58 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 14 | 3.58 |
| (4,106) | 1:90:A:ASN:CB | 1:5:A:GLU:H | 5 | 3.58 |
| (4,78) | 1:15:A:MET:CB | 1:137:A:ALA:H | 17 | 3.58 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 18 | 3.58 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 18 | 3.58 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 14 | 3.58 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 14 | 3.58 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 3 | 3.58 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 3 | 3.58 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 7 | 3.58 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 7 | 3.58 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 7 | 3.58 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 7 | 3.58 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 7 | 3.58 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 7 | 3.58 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 13 | 3.58 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 13 | 3.58 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 13 | 3.58 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 13 | 3.58 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 20 | 3.58 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 20 | 3.58 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 20 | 3.58 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 20 | 3.58 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 3 | 3.58 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 3 | 3.58 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 3 | 3.58 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 3 | 3.58 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 10 | 3.58 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 10 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 10 | 3.58 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 10 | 3.58 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 17 | 3.58 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 17 | 3.58 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 1 | 3.58 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 1 | 3.58 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 12 | 3.58 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 12 | 3.58 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 18 | 3.58 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 18 | 3.58 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 19 | 3.58 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 19 | 3.58 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 19 | 3.58 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 19 | 3.58 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 9 | 3.58 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 9 | 3.58 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB2 | 4 | 3.58 |
| (1,9221) | 1:95:A:LYS:HE2 | 1:100:A:GLU:HB3 | 4 | 3.58 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB2 | 4 | 3.58 |
| (1,9221) | 1:95:A:LYS:HE3 | 1:100:A:GLU:HB3 | 4 | 3.58 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 18 | 3.58 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 18 | 3.58 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 18 | 3.58 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 18 | 3.58 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 12 | 3.58 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 12 | 3.58 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 12 | 3.58 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 12 | 3.58 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 9 | 3.58 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 9 | 3.58 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 14 | 3.58 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 14 | 3.58 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 14 | 3.58 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 14 | 3.58 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 14 | 3.58 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 14 | 3.58 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 18 | 3.58 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 18 | 3.58 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 18 | 3.58 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 18 | 3.58 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 18 | 3.58 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 18 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 19 | 3.58 |
| (1,8941) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 19 | 3.58 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 16 | 3.58 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 16 | 3.58 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 11 | 3.58 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 11 | 3.58 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 7 | 3.58 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 7 | 3.58 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 7 | 3.58 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 7 | 3.58 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 7 | 3.58 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 7 | 3.58 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 15 | 3.58 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 15 | 3.58 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 15 | 3.58 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 15 | 3.58 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 15 | 3.58 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 15 | 3.58 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 19 | 3.58 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 19 | 3.58 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 15 | 3.58 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 15 | 3.58 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 15 | 3.58 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 15 | 3.58 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 16 | 3.58 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 16 | 3.58 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 16 | 3.58 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 16 | 3.58 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 14 | 3.58 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 14 | 3.58 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 14 | 3.58 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 14 | 3.58 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 11 | 3.58 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 11 | 3.58 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 10 | 3.58 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 10 | 3.58 |
| (1,8665) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 5 | 3.58 |
| (1,8665) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 5 | 3.58 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 3 | 3.58 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 3 | 3.58 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 17 | 3.58 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 17 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 17 | 3.58 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 17 | 3.58 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 5 | 3.58 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 18 | 3.58 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 18 | 3.58 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 18 | 3.58 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 4 | 3.58 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 8 | 3.58 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 8 | 3.58 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 8 | 3.58 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 8 | 3.58 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 8 | 3.58 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 8 | 3.58 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 12 | 3.58 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 12 | 3.58 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB2 | 20 | 3.58 |
| (1,8266) | 1:120:A:GLY:H | 1:121:A:ASP:HB3 | 20 | 3.58 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 11 | 3.58 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 5 | 3.58 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 5 | 3.58 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 5 | 3.58 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 4 | 3.58 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 6 | 3.58 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 10 | 3.58 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 10 | 3.58 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 10 | 3.58 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 8 | 3.58 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 5 | 3.58 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 5 | 3.58 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 5 | 3.58 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 3 | 3.58 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 10 | 3.58 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 10 | 3.58 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 10 | 3.58 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 10 | 3.58 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 10 | 3.58 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 10 | 3.58 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 10 | 3.58 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 10 | 3.58 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 10 | 3.58 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 12 | 3.58 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 19 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 5 | 3.58 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 13 | 3.58 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 13 | 3.58 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 13 | 3.58 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 13 | 3.58 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 18 | 3.58 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 1 | 3.58 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 9 | 3.58 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 9 | 3.58 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 7 | 3.58 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 3 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 5 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 5 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 5 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 5 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 5 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 5 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 11 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 11 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 11 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 11 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 11 | 3.58 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 11 | 3.58 |
| (1,7407) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 18 | 3.58 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 2 | 3.58 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 2 | 3.58 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 2 | 3.58 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 5 | 3.58 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 5 | 3.58 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 11 | 3.58 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 11 | 3.58 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 11 | 3.58 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 3 | 3.58 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 3 | 3.58 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 19 | 3.58 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 9 | 3.58 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 9 | 3.58 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 9 | 3.58 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 9 | 3.58 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 9 | 3.58 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 9 | 3.58 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 9 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 9 | 3.58 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 9 | 3.58 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 4 | 3.58 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 1 | 3.58 |
| (1,7086) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 4 | 3.58 |
| (1,7086) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 4 | 3.58 |
| (1,7086) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 4 | 3.58 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 12 | 3.58 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 20 | 3.58 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 20 | 3.58 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 8 | 3.58 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 8 | 3.58 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 8 | 3.58 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 11 | 3.58 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 11 | 3.58 |
| (1,6866) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 11 | 3.58 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 3 | 3.58 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 9 | 3.58 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 17 | 3.58 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 6 | 3.58 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 6 | 3.58 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 6 | 3.58 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 12 | 3.58 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 20 | 3.58 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 3 | 3.58 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 1 | 3.58 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 12 | 3.58 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 1 | 3.58 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 8 | 3.58 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 8 | 3.58 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 8 | 3.58 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 20 | 3.58 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 20 | 3.58 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 20 | 3.58 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 20 | 3.58 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 20 | 3.58 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 20 | 3.58 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 20 | 3.58 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 20 | 3.58 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 20 | 3.58 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 2 | 3.58 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 2 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 2 | 3.58 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 16 | 3.58 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 16 | 3.58 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 16 | 3.58 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 11 | 3.58 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 11 | 3.58 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 11 | 3.58 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 8 | 3.58 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 13 | 3.58 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 3 | 3.58 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 3 | 3.58 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 3 | 3.58 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 3 | 3.58 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 3 | 3.58 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 3 | 3.58 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 13 | 3.58 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 13 | 3.58 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 13 | 3.58 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 13 | 3.58 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 13 | 3.58 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 13 | 3.58 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 13 | 3.58 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 13 | 3.58 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 13 | 3.58 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 12 | 3.58 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 17 | 3.58 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 17 | 3.58 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 13 | 3.58 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 13 | 3.58 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 13 | 3.58 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 18 | 3.58 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 18 | 3.58 |
| (1,5987) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 18 | 3.58 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 6 | 3.58 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 6 | 3.58 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 6 | 3.58 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 7 | 3.58 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 7 | 3.58 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 7 | 3.58 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 20 | 3.58 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 1 | 3.58 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 4 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 4 | 3.58 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 13 | 3.58 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 15 | 3.58 |
| (1,5723) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 8 | 3.58 |
| (1,5723) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 8 | 3.58 |
| (1,5723) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 8 | 3.58 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 2 | 3.58 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 20 | 3.58 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 20 | 3.58 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 20 | 3.58 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 14 | 3.58 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 5 | 3.58 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 1 | 3.58 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 5 | 3.58 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 5 | 3.58 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 5 | 3.58 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 12 | 3.58 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 11 | 3.58 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 11 | 3.58 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 6 | 3.58 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 6 | 3.58 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 4 | 3.58 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 19 | 3.58 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 14 | 3.58 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 20 | 3.58 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 7 | 3.58 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 7 | 3.58 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 7 | 3.58 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 7 | 3.58 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 5 | 3.58 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 5 | 3.58 |
| (1,5286) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 5 | 3.58 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 3 | 3.58 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 17 | 3.58 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 15 | 3.58 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 6 | 3.58 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 9 | 3.58 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 18 | 3.58 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 14 | 3.58 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 14 | 3.58 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 14 | 3.58 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 10 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 19 | 3.58 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 5 | 3.58 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 4 | 3.58 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 4 | 3.58 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 19 | 3.58 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 19 | 3.58 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 19 | 3.58 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 2 | 3.58 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 2 | 3.58 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 2 | 3.58 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 2 | 3.58 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 2 | 3.58 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 2 | 3.58 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 2 | 3.58 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 2 | 3.58 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 2 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 3 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 3 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 3 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 3 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 3 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 3 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 3 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 3 | 3.58 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 3 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 14 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 14 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 14 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 14 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 14 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 14 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 14 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 14 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 14 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 16 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 16 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 16 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 16 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 16 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 16 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 16 | 3.58 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 16 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 16 | 3.58 |
| (1,4762) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 14 | 3.58 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 17 | 3.58 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 17 | 3.58 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 17 | 3.58 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 2 | 3.58 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 2 | 3.58 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 2 | 3.58 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 18 | 3.58 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 18 | 3.58 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 18 | 3.58 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 7 | 3.58 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 7 | 3.58 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 12 | 3.58 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 12 | 3.58 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 3 | 3.58 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 3 | 3.58 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 7 | 3.58 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 7 | 3.58 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 7 | 3.58 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 7 | 3.58 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 7 | 3.58 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 7 | 3.58 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 10 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 3 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 3 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 3 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 3 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 3 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 3 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 19 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 19 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 19 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 19 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 19 | 3.58 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 19 | 3.58 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 17 | 3.58 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 17 | 3.58 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 1 | 3.58 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 1 | 3.58 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 13 | 3.58 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 13 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 4 | 3.58 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 10 | 3.58 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 16 | 3.58 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 17 | 3.58 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 20 | 3.58 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 17 | 3.58 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 8 | 3.58 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 13 | 3.58 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 13 | 3.58 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 8 | 3.58 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 19 | 3.58 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 19 | 3.58 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 19 | 3.58 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 19 | 3.58 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 11 | 3.58 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 11 | 3.58 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 11 | 3.58 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 11 | 3.58 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 9 | 3.58 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 9 | 3.58 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 12 | 3.58 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 12 | 3.58 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 12 | 3.58 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 12 | 3.58 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 12 | 3.58 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 12 | 3.58 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 10 | 3.58 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 4 | 3.58 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 4 | 3.58 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 12 | 3.58 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 12 | 3.58 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 12 | 3.58 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 12 | 3.58 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 14 | 3.58 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 14 | 3.58 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 14 | 3.58 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 14 | 3.58 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 14 | 3.58 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 14 | 3.58 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 3.58 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 15 | 3.58 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 15 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 18 | 3.58 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 18 | 3.58 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 18 | 3.58 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 18 | 3.58 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 9 | 3.58 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 19 | 3.58 |
| (1,3918) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 19 | 3.58 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 11 | 3.58 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 11 | 3.58 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 11 | 3.58 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 11 | 3.58 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 11 | 3.58 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 7 | 3.58 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 7 | 3.58 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 7 | 3.58 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 7 | 3.58 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 7 | 3.58 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 7 | 3.58 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 19 | 3.58 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 19 | 3.58 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 15 | 3.58 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 15 | 3.58 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 15 | 3.58 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 15 | 3.58 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 7 | 3.58 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 3 | 3.58 |
| (1,3642) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 5 | 3.58 |
| (1,3642) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 5 | 3.58 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 9 | 3.58 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 19 | 3.58 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 19 | 3.58 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 3.58 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 10 | 3.58 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 19 | 3.58 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 18 | 3.58 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 18 | 3.58 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 18 | 3.58 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 9 | 3.58 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 9 | 3.58 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 9 | 3.58 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 9 | 3.58 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 9 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 9 | 3.58 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 9 | 3.58 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 9 | 3.58 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 9 | 3.58 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 4 | 3.58 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 2 | 3.58 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 8 | 3.58 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 1 | 3.58 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 18 | 3.58 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 18 | 3.58 |
| (1,3158) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 4 | 3.58 |
| (1,3158) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 4 | 3.58 |
| (1,3158) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 4 | 3.58 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 12 | 3.58 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 1 | 3.58 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 11 | 3.58 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 20 | 3.58 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 20 | 3.58 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 8 | 3.58 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 8 | 3.58 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 8 | 3.58 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 6 | 3.58 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 13 | 3.58 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 20 | 3.58 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 11 | 3.58 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 11 | 3.58 |
| (1,2856) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 11 | 3.58 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 3 | 3.58 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 9 | 3.58 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 17 | 3.58 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 6 | 3.58 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 6 | 3.58 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 6 | 3.58 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 12 | 3.58 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 7 | 3.58 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 7 | 3.58 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 7 | 3.58 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 7 | 3.58 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 7 | 3.58 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 7 | 3.58 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 7 | 3.58 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 7 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 7 | 3.58 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 20 | 3.58 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 20 | 3.58 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 20 | 3.58 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 20 | 3.58 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 20 | 3.58 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 20 | 3.58 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 20 | 3.58 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 9 | 3.58 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 9 | 3.58 |
| (1,2594) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 9 | 3.58 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 3 | 3.58 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 12 | 3.58 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 1 | 3.58 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 13 | 3.58 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 13 | 3.58 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 15 | 3.58 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 8 | 3.58 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 8 | 3.58 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 8 | 3.58 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 14 | 3.58 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 14 | 3.58 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 14 | 3.58 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 3 | 3.58 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 3 | 3.58 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 3 | 3.58 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 8 | 3.58 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 9 | 3.58 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 11 | 3.58 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 20 | 3.58 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 20 | 3.58 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 20 | 3.58 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 20 | 3.58 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 20 | 3.58 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 20 | 3.58 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 20 | 3.58 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 20 | 3.58 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 20 | 3.58 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 2 | 3.58 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 2 | 3.58 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 2 | 3.58 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 16 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 16 | 3.58 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 16 | 3.58 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 19 | 3.58 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 19 | 3.58 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 19 | 3.58 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 11 | 3.58 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 11 | 3.58 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 11 | 3.58 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 5 | 3.58 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 5 | 3.58 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 5 | 3.58 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 5 | 3.58 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 5 | 3.58 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 5 | 3.58 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 5 | 3.58 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 5 | 3.58 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 5 | 3.58 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 9 | 3.58 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 9 | 3.58 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 9 | 3.58 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 15 | 3.58 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 15 | 3.58 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 15 | 3.58 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 8 | 3.58 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 13 | 3.58 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 3 | 3.58 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 3 | 3.58 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 3 | 3.58 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 3 | 3.58 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 3 | 3.58 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 3 | 3.58 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 13 | 3.58 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 13 | 3.58 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 13 | 3.58 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 13 | 3.58 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 13 | 3.58 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 13 | 3.58 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 13 | 3.58 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 13 | 3.58 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 13 | 3.58 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 12 | 3.58 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 5 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 5 | 3.58 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 5 | 3.58 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 17 | 3.58 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 17 | 3.58 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 13 | 3.58 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 13 | 3.58 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 17 | 3.58 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 17 | 3.58 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 14 | 3.58 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 19 | 3.58 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 13 | 3.58 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 16 | 3.58 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 20 | 3.58 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 18 | 3.58 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 18 | 3.58 |
| (1,1478) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 18 | 3.58 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 6 | 3.58 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 1 | 3.58 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 6 | 3.58 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 6 | 3.58 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 7 | 3.58 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 7 | 3.58 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 7 | 3.58 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 20 | 3.58 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 1 | 3.58 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 1 | 3.58 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 4 | 3.58 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 4 | 3.58 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 16 | 3.58 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 16 | 3.58 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 4 | 3.58 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 4 | 3.58 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 4 | 3.58 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 4 | 3.58 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 4 | 3.58 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 4 | 3.58 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 13 | 3.58 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 15 | 3.58 |
| (1,1008) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 8 | 3.58 |
| (1,1008) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 8 | 3.58 |
| (1,1008) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 8 | 3.58 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 2 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 20 | 3.58 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 20 | 3.58 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 20 | 3.58 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 14 | 3.58 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 5 | 3.58 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 1 | 3.58 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 5 | 3.58 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 5 | 3.58 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 5 | 3.58 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 12 | 3.58 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 11 | 3.58 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 11 | 3.58 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 1 | 3.58 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 19 | 3.58 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 14 | 3.58 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 20 | 3.58 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 8 | 3.58 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 19 | 3.58 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 19 | 3.58 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 19 | 3.58 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 19 | 3.58 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 19 | 3.58 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 19 | 3.58 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 18 | 3.58 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 18 | 3.58 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 18 | 3.58 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 18 | 3.58 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 18 | 3.58 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 18 | 3.58 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 16 | 3.58 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 16 | 3.58 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 16 | 3.58 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 16 | 3.58 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 16 | 3.58 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 16 | 3.58 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 16 | 3.58 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 16 | 3.58 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 16 | 3.58 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 17 | 3.58 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 5 | 3.58 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 12 | 3.58 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 12 | 3.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 12 | 3.58 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 15 | 3.58 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 15 | 3.58 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 15 | 3.58 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 15 | 3.58 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 20 | 3.58 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 20 | 3.58 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 2 | 3.57 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 19 | 3.57 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 12 | 3.57 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 7 | 3.57 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 20 | 3.57 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 20 | 3.57 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 15 | 3.57 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 15 | 3.57 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 16 | 3.57 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 16 | 3.57 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 16 | 3.57 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 16 | 3.57 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 16 | 3.57 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 16 | 3.57 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 16 | 3.57 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 16 | 3.57 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 16 | 3.57 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 16 | 3.57 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 16 | 3.57 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 16 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 2 | 3.57 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 2 | 3.57 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 6 | 3.57 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 6 | 3.57 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 6 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 6 | 3.57 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 6 | 3.57 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 6 | 3.57 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 5 | 3.57 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 5 | 3.57 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 17 | 3.57 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 17 | 3.57 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 7 | 3.57 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 7 | 3.57 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 7 | 3.57 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 7 | 3.57 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 16 | 3.57 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 16 | 3.57 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 16 | 3.57 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 16 | 3.57 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 10 | 3.57 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 10 | 3.57 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 10 | 3.57 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 10 | 3.57 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 10 | 3.57 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 10 | 3.57 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 2 | 3.57 |
| (1,9159) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 2 | 3.57 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 2 | 3.57 |
| (1,9159) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 2 | 3.57 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 2 | 3.57 |
| (1,9159) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 2 | 3.57 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 6 | 3.57 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 6 | 3.57 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 7 | 3.57 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 7 | 3.57 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 7 | 3.57 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 7 | 3.57 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 6 | 3.57 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 6 | 3.57 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 6 | 3.57 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 6 | 3.57 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 6 | 3.57 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 6 | 3.57 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 18 | 3.57 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 18 | 3.57 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 18 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 18 | 3.57 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 17 | 3.57 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 17 | 3.57 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 17 | 3.57 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 17 | 3.57 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 17 | 3.57 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 17 | 3.57 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 15 | 3.57 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 15 | 3.57 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 20 | 3.57 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 20 | 3.57 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 6 | 3.57 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 6 | 3.57 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 20 | 3.57 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 20 | 3.57 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 14 | 3.57 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 14 | 3.57 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 14 | 3.57 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 14 | 3.57 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 14 | 3.57 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 14 | 3.57 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 5 | 3.57 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 5 | 3.57 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 5 | 3.57 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 5 | 3.57 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 5 | 3.57 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 5 | 3.57 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 5 | 3.57 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 5 | 3.57 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 2 | 3.57 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 2 | 3.57 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 14 | 3.57 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 14 | 3.57 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 2 | 3.57 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 2 | 3.57 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 10 | 3.57 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 10 | 3.57 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 19 | 3.57 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 19 | 3.57 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 10 | 3.57 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 10 | 3.57 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 10 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 10 | 3.57 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 10 | 3.57 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 10 | 3.57 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 19 | 3.57 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 19 | 3.57 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 19 | 3.57 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 19 | 3.57 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 19 | 3.57 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 19 | 3.57 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 9 | 3.57 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 9 | 3.57 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 9 | 3.57 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 9 | 3.57 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 4 | 3.57 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 4 | 3.57 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 15 | 3.57 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 15 | 3.57 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 15 | 3.57 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 16 | 3.57 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 16 | 3.57 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 16 | 3.57 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 16 | 3.57 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 16 | 3.57 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 16 | 3.57 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 18 | 3.57 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 19 | 3.57 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 9 | 3.57 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 9 | 3.57 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 17 | 3.57 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 16 | 3.57 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 16 | 3.57 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 16 | 3.57 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 1 | 3.57 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 5 | 3.57 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 5 | 3.57 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 4 | 3.57 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 4 | 3.57 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 4 | 3.57 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 12 | 3.57 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 7 | 3.57 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 4 | 3.57 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 4 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 4 | 3.57 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 16 | 3.57 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 2 | 3.57 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 9 | 3.57 |
| (1,7556) | 1:21:A:ARG:H | 1:21:A:ARG:HD3 | 7 | 3.57 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 2 | 3.57 |
| (1,7448) | 1:10:A:GLY:HA3 | 1:27:A:HIS:H | 13 | 3.57 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 6 | 3.57 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 12 | 3.57 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 18 | 3.57 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 18 | 3.57 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 19 | 3.57 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 19 | 3.57 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 20 | 3.57 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 3.57 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 12 | 3.57 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 19 | 3.57 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 9 | 3.57 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 18 | 3.57 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 3 | 3.57 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 7 | 3.57 |
| (1,6960) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 19 | 3.57 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 12 | 3.57 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 14 | 3.57 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 4 | 3.57 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 1 | 3.57 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 17 | 3.57 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 17 | 3.57 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 17 | 3.57 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 6 | 3.57 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 6 | 3.57 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 6 | 3.57 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 10 | 3.57 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 4 | 3.57 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 4 | 3.57 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 4 | 3.57 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 8 | 3.57 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 8 | 3.57 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 8 | 3.57 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 14 | 3.57 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 20 | 3.57 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 17 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 19 | 3.57 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 12 | 3.57 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 20 | 3.57 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 12 | 3.57 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 10 | 3.57 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 13 | 3.57 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 13 | 3.57 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 13 | 3.57 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 12 | 3.57 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 16 | 3.57 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 10 | 3.57 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 1 | 3.57 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 4 | 3.57 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 15 | 3.57 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 8 | 3.57 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 11 | 3.57 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 13 | 3.57 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 13 | 3.57 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 13 | 3.57 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 13 | 3.57 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 13 | 3.57 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 13 | 3.57 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 13 | 3.57 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 13 | 3.57 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 13 | 3.57 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 12 | 3.57 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 5 | 3.57 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 5 | 3.57 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 5 | 3.57 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 17 | 3.57 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 17 | 3.57 |
| (1,6357) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 17 | 3.57 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 20 | 3.57 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 20 | 3.57 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 20 | 3.57 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 7 | 3.57 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 12 | 3.57 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 4 | 3.57 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 18 | 3.57 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 10 | 3.57 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 10 | 3.57 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 10 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 4 | 3.57 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 4 | 3.57 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 4 | 3.57 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 14 | 3.57 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 16 | 3.57 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 6 | 3.57 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 20 | 3.57 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 9 | 3.57 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 9 | 3.57 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 9 | 3.57 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 12 | 3.57 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 12 | 3.57 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 12 | 3.57 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 12 | 3.57 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 12 | 3.57 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 12 | 3.57 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 12 | 3.57 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 12 | 3.57 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 12 | 3.57 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 3 | 3.57 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 8 | 3.57 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 14 | 3.57 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 14 | 3.57 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 4 | 3.57 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 4 | 3.57 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 4 | 3.57 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 14 | 3.57 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 14 | 3.57 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 14 | 3.57 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 2 | 3.57 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 2 | 3.57 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 10 | 3.57 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 10 | 3.57 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 6 | 3.57 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 6 | 3.57 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 5 | 3.57 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 8 | 3.57 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 13 | 3.57 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 2 | 3.57 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 6 | 3.57 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 19 | 3.57 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 10 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 3 | 3.57 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 3 | 3.57 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 3 | 3.57 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 4 | 3.57 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 4 | 3.57 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 10 | 3.57 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 16 | 3.57 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 16 | 3.57 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 16 | 3.57 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 17 | 3.57 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 17 | 3.57 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 17 | 3.57 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 10 | 3.57 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 10 | 3.57 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 10 | 3.57 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 10 | 3.57 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 10 | 3.57 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 10 | 3.57 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 6 | 3.57 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 6 | 3.57 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 6 | 3.57 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 6 | 3.57 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 6 | 3.57 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 6 | 3.57 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 4 | 3.57 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 4 | 3.57 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 4 | 3.57 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 8 | 3.57 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 8 | 3.57 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 9 | 3.57 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 9 | 3.57 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 9 | 3.57 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 16 | 3.57 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 4 | 3.57 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 4 | 3.57 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 4 | 3.57 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 2 | 3.57 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 2 | 3.57 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 2 | 3.57 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 2 | 3.57 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 2 | 3.57 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 2 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 2 | 3.57 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 2 | 3.57 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 2 | 3.57 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 2 | 3.57 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 3 | 3.57 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 1 | 3.57 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 1 | 3.57 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 1 | 3.57 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 1 | 3.57 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 1 | 3.57 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 1 | 3.57 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 1 | 3.57 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 1 | 3.57 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 1 | 3.57 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 14 | 3.57 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 17 | 3.57 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 2 | 3.57 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 3 | 3.57 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 14 | 3.57 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 16 | 3.57 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 18 | 3.57 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 14 | 3.57 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 14 | 3.57 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 14 | 3.57 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 13 | 3.57 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 14 | 3.57 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 16 | 3.57 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 6 | 3.57 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 13 | 3.57 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 13 | 3.57 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 11 | 3.57 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 13 | 3.57 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 13 | 3.57 |
| (1,4920) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 13 | 3.57 |
| (1,4906) | 1:64:A:HIS:H | 1:67:A:SER:H | 15 | 3.57 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 13 | 3.57 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 13 | 3.57 |
| (1,4859) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 3 | 3.57 |
| (1,4859) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 3 | 3.57 |
| (1,4859) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 3 | 3.57 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 2 | 3.57 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 2 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 2 | 3.57 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 3 | 3.57 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 3 | 3.57 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 3 | 3.57 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 11 | 3.57 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 11 | 3.57 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 11 | 3.57 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 12 | 3.57 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 12 | 3.57 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 12 | 3.57 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 12 | 3.57 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 12 | 3.57 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 12 | 3.57 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 12 | 3.57 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 12 | 3.57 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 12 | 3.57 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 4 | 3.57 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 5 | 3.57 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 12 | 3.57 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 17 | 3.57 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 8 | 3.57 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 6 | 3.57 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 8 | 3.57 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 12 | 3.57 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 13 | 3.57 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 16 | 3.57 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 20 | 3.57 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 15 | 3.57 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 15 | 3.57 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 3 | 3.57 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 17 | 3.57 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 17 | 3.57 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 16 | 3.57 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 16 | 3.57 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 16 | 3.57 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 16 | 3.57 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 16 | 3.57 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 16 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 8 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 8 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 8 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 8 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 8 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 8 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 18 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 18 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 18 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 18 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 18 | 3.57 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 18 | 3.57 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 18 | 3.57 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 5 | 3.57 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 5 | 3.57 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 16 | 3.57 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 16 | 3.57 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 16 | 3.57 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 16 | 3.57 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 16 | 3.57 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 16 | 3.57 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 6 | 3.57 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 6 | 3.57 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 6 | 3.57 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 6 | 3.57 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 6 | 3.57 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 6 | 3.57 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 18 | 3.57 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 18 | 3.57 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 8 | 3.57 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 12 | 3.57 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 17 | 3.57 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 17 | 3.57 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 5 | 3.57 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 5 | 3.57 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 6 | 3.57 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 7 | 3.57 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 7 | 3.57 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 7 | 3.57 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 15 | 3.57 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 2 | 3.57 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 10 | 3.57 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 10 | 3.57 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 10 | 3.57 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 10 | 3.57 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 10 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 10 | 3.57 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 6 | 3.57 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 6 | 3.57 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 6 | 3.57 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 6 | 3.57 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 6 | 3.57 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 6 | 3.57 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 2 | 3.57 |
| (1,4124) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 2 | 3.57 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 2 | 3.57 |
| (1,4124) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 2 | 3.57 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 2 | 3.57 |
| (1,4124) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 2 | 3.57 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 7 | 3.57 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 7 | 3.57 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 7 | 3.57 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 7 | 3.57 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 7 | 3.57 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 7 | 3.57 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 7 | 3.57 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 19 | 3.57 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 19 | 3.57 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 19 | 3.57 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 19 | 3.57 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 19 | 3.57 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 19 | 3.57 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 17 | 3.57 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 17 | 3.57 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 17 | 3.57 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 17 | 3.57 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 17 | 3.57 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 17 | 3.57 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 8 | 3.57 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 6 | 3.57 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 6 | 3.57 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 2 | 3.57 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 2 | 3.57 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 12 | 3.57 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 12 | 3.57 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 12 | 3.57 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 12 | 3.57 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 14 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 14 | 3.57 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 14 | 3.57 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 14 | 3.57 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 14 | 3.57 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 14 | 3.57 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 6 | 3.57 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 5 | 3.57 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 5 | 3.57 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 4 | 3.57 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 14 | 3.57 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 14 | 3.57 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 1 | 3.57 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 1 | 3.57 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 1 | 3.57 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 1 | 3.57 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 3.57 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 3.57 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 3.57 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 5 | 3.57 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 5 | 3.57 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 5 | 3.57 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 5 | 3.57 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 5 | 3.57 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 5 | 3.57 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 3.57 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 14 | 3.57 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 14 | 3.57 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 2 | 3.57 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 2 | 3.57 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 3 | 3.57 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 3 | 3.57 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 3 | 3.57 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 4 | 3.57 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 4 | 3.57 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 15 | 3.57 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 15 | 3.57 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 14 | 3.57 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 14 | 3.57 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 18 | 3.57 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 18 | 3.57 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 18 | 3.57 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 18 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 4 | 3.57 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 4 | 3.57 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 4 | 3.57 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 4 | 3.57 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 10 | 3.57 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 10 | 3.57 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 10 | 3.57 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 10 | 3.57 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 10 | 3.57 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 10 | 3.57 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 9 | 3.57 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 9 | 3.57 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 9 | 3.57 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 9 | 3.57 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 10 | 3.57 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 18 | 3.57 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 18 | 3.57 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 4 | 3.57 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 7 | 3.57 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 20 | 3.57 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 19 | 3.57 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 17 | 3.57 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 18 | 3.57 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 3.57 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 4 | 3.57 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 16 | 3.57 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 18 | 3.57 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 11 | 3.57 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 9 | 3.57 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 18 | 3.57 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 1 | 3.57 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 3 | 3.57 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 7 | 3.57 |
| (1,2988) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 19 | 3.57 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 12 | 3.57 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 14 | 3.57 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 4 | 3.57 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 1 | 3.57 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 3 | 3.57 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 17 | 3.57 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 17 | 3.57 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 17 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 6 | 3.57 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 6 | 3.57 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 6 | 3.57 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 10 | 3.57 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 4 | 3.57 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 4 | 3.57 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 4 | 3.57 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 8 | 3.57 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 8 | 3.57 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 8 | 3.57 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 14 | 3.57 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 20 | 3.57 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 17 | 3.57 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 17 | 3.57 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 17 | 3.57 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 17 | 3.57 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 17 | 3.57 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 17 | 3.57 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 17 | 3.57 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 19 | 3.57 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 12 | 3.57 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 20 | 3.57 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 12 | 3.57 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 2 | 3.57 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 3 | 3.57 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 5 | 3.57 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 6 | 3.57 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 11 | 3.57 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 19 | 3.57 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 18 | 3.57 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 10 | 3.57 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 13 | 3.57 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 13 | 3.57 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 13 | 3.57 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 12 | 3.57 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 5 | 3.57 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 16 | 3.57 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 10 | 3.57 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 1 | 3.57 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 5 | 3.57 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 6 | 3.57 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 8 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 9 | 3.57 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 20 | 3.57 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 10 | 3.57 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 10 | 3.57 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 10 | 3.57 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 10 | 3.57 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 10 | 3.57 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 10 | 3.57 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 8 | 3.57 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 3 | 3.57 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 9 | 3.57 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 11 | 3.57 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 7 | 3.57 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 6 | 3.57 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 17 | 3.57 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 7 | 3.57 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 15 | 3.57 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 13 | 3.57 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 13 | 3.57 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 13 | 3.57 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 13 | 3.57 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 13 | 3.57 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 13 | 3.57 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 13 | 3.57 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 13 | 3.57 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 13 | 3.57 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 6 | 3.57 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 6 | 3.57 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 6 | 3.57 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 5 | 3.57 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 5 | 3.57 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 5 | 3.57 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 17 | 3.57 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 17 | 3.57 |
| (1,2038) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 17 | 3.57 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 20 | 3.57 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 20 | 3.57 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 20 | 3.57 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 15 | 3.57 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 15 | 3.57 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 15 | 3.57 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 7 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 16 | 3.57 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 16 | 3.57 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 16 | 3.57 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 12 | 3.57 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 2 | 3.57 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 2 | 3.57 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 2 | 3.57 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 2 | 3.57 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 5 | 3.57 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 4 | 3.57 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 18 | 3.57 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 10 | 3.57 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 10 | 3.57 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 10 | 3.57 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 12 | 3.57 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 12 | 3.57 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 12 | 3.57 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 20 | 3.57 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 20 | 3.57 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 20 | 3.57 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 13 | 3.57 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 13 | 3.57 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 13 | 3.57 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 13 | 3.57 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 2 | 3.57 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 3 | 3.57 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 8 | 3.57 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 9 | 3.57 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 12 | 3.57 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 13 | 3.57 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 16 | 3.57 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 18 | 3.57 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 20 | 3.57 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 4 | 3.57 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 4 | 3.57 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 4 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 1 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 2 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 3 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 7 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 8 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 10 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 11 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 14 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 15 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 17 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 18 | 3.57 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 20 | 3.57 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 14 | 3.57 |
| (1,1500) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 6 | 3.57 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 11 | 3.57 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 16 | 3.57 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 17 | 3.57 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 12 | 3.57 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 4 | 3.57 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 8 | 3.57 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 9 | 3.57 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 15 | 3.57 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 16 | 3.57 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 5 | 3.57 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 5 | 3.57 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 5 | 3.57 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 5 | 3.57 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 5 | 3.57 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 5 | 3.57 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 6 | 3.57 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 20 | 3.57 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 9 | 3.57 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 9 | 3.57 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 9 | 3.57 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 12 | 3.57 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 12 | 3.57 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 12 | 3.57 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 12 | 3.57 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 12 | 3.57 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 12 | 3.57 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 12 | 3.57 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 12 | 3.57 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 12 | 3.57 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 1 | 3.57 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 3 | 3.57 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 4 | 3.57 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 9 | 3.57 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 10 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 11 | 3.57 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 3 | 3.57 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 8 | 3.57 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 14 | 3.57 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 14 | 3.57 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 4 | 3.57 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 4 | 3.57 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 4 | 3.57 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 14 | 3.57 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 14 | 3.57 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 14 | 3.57 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 18 | 3.57 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 2 | 3.57 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 2 | 3.57 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 10 | 3.57 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 10 | 3.57 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 6 | 3.57 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 6 | 3.57 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 5 | 3.57 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 8 | 3.57 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 13 | 3.57 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 9 | 3.57 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 14 | 3.57 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 2 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 2 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 3 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 5 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 6 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 7 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 9 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 10 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 12 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 14 | 3.57 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 17 | 3.57 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 6 | 3.57 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 19 | 3.57 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 6 | 3.57 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 11 | 3.57 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 10 | 3.57 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 7 | 3.57 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 11 | 3.57 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 1 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 8 | 3.57 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 10 | 3.57 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 14 | 3.57 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 17 | 3.57 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 19 | 3.57 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 3 | 3.57 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 3 | 3.57 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 3 | 3.57 |
| (1,830) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 7 | 3.57 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 7 | 3.57 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 9 | 3.57 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 4 | 3.57 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 4 | 3.57 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 1 | 3.57 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 6 | 3.57 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 7 | 3.57 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 15 | 3.57 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 17 | 3.57 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 4 | 3.57 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 4 | 3.57 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 4 | 3.57 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 6 | 3.57 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 10 | 3.57 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 16 | 3.57 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 16 | 3.57 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 16 | 3.57 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 17 | 3.57 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 17 | 3.57 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 17 | 3.57 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 10 | 3.57 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 10 | 3.57 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 10 | 3.57 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 10 | 3.57 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 10 | 3.57 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 10 | 3.57 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 6 | 3.57 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 6 | 3.57 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 6 | 3.57 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 6 | 3.57 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 6 | 3.57 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 6 | 3.57 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 6 | 3.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 6 | 3.57 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 6 | 3.57 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 6 | 3.57 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 6 | 3.57 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 6 | 3.57 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 5 | 3.57 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 5 | 3.57 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 5 | 3.57 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 5 | 3.57 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 5 | 3.57 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 5 | 3.57 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 4 | 3.57 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 4 | 3.57 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 4 | 3.57 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 4 | 3.57 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 4 | 3.57 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 4 | 3.57 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 4 | 3.57 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 4 | 3.57 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 4 | 3.57 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 20 | 3.56 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 1 | 3.56 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 1 | 3.56 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 15 | 3.56 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 15 | 3.56 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 9 | 3.56 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 9 | 3.56 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 9 | 3.56 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 9 | 3.56 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 9 | 3.56 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 9 | 3.56 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 5 | 3.56 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 5 | 3.56 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 5 | 3.56 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 5 | 3.56 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 5 | 3.56 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 5 | 3.56 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG2 | 16 | 3.56 |
| (1,9479) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HG3 | 16 | 3.56 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG2 | 16 | 3.56 |
| (1,9479) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HG3 | 16 | 3.56 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 5 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 5 | 3.56 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 8 | 3.56 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 8 | 3.56 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 20 | 3.56 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 20 | 3.56 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 3 | 3.56 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 3 | 3.56 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 2 | 3.56 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 2 | 3.56 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 5 | 3.56 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 5 | 3.56 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 12 | 3.56 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 12 | 3.56 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 13 | 3.56 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 13 | 3.56 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 13 | 3.56 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 13 | 3.56 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 2 | 3.56 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 2 | 3.56 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 20 | 3.56 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 20 | 3.56 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 20 | 3.56 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 20 | 3.56 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 13 | 3.56 |
| (1,9243) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 13 | 3.56 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 16 | 3.56 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 16 | 3.56 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 16 | 3.56 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 16 | 3.56 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 16 | 3.56 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 16 | 3.56 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 18 | 3.56 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 18 | 3.56 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 18 | 3.56 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 18 | 3.56 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 18 | 3.56 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 18 | 3.56 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 15 | 3.56 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 15 | 3.56 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 15 | 3.56 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 15 | 3.56 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 5 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 5 | 3.56 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 17 | 3.56 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 17 | 3.56 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 17 | 3.56 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 17 | 3.56 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 17 | 3.56 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 17 | 3.56 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 14 | 3.56 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 14 | 3.56 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 5 | 3.56 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 5 | 3.56 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 16 | 3.56 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 16 | 3.56 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 4 | 3.56 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 4 | 3.56 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 6 | 3.56 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 6 | 3.56 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 14 | 3.56 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 14 | 3.56 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 14 | 3.56 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 14 | 3.56 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 14 | 3.56 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 14 | 3.56 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 14 | 3.56 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 14 | 3.56 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 19 | 3.56 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 19 | 3.56 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 19 | 3.56 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 19 | 3.56 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 18 | 3.56 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 18 | 3.56 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 18 | 3.56 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 18 | 3.56 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 12 | 3.56 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 12 | 3.56 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 19 | 3.56 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 19 | 3.56 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 19 | 3.56 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 19 | 3.56 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 15 | 3.56 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 16 | 3.56 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 4 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 20 | 3.56 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 20 | 3.56 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 20 | 3.56 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 9 | 3.56 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 9 | 3.56 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 9 | 3.56 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 13 | 3.56 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 13 | 3.56 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 13 | 3.56 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 13 | 3.56 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 13 | 3.56 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 13 | 3.56 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 18 | 3.56 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 5 | 3.56 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 5 | 3.56 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 5 | 3.56 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 5 | 3.56 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 5 | 3.56 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 5 | 3.56 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD1 | 3 | 3.56 |
| (1,8188) | 1:103:A:PHE:H | 1:103:A:PHE:HD2 | 3 | 3.56 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE2 | 11 | 3.56 |
| (1,8135) | 1:95:A:LYS:H | 1:95:A:LYS:HE3 | 11 | 3.56 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 13 | 3.56 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 13 | 3.56 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 13 | 3.56 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 4 | 3.56 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 3 | 3.56 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 3 | 3.56 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 3 | 3.56 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 12 | 3.56 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB1 | 6 | 3.56 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB2 | 6 | 3.56 |
| (1,8017) | 1:84:A:GLU:H | 1:85:A:ALA:HB3 | 6 | 3.56 |
| (1,8005) | 1:82:A:LYS:H | 1:85:A:ALA:H | 16 | 3.56 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 2 | 3.56 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 19 | 3.56 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 19 | 3.56 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 19 | 3.56 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 6 | 3.56 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 11 | 3.56 |
| (1,7662) | 1:33:A:GLN:HE21 | 1:34:A:TRP:H | 10 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7662) | 1:33:A:GLN:HE22 | 1:34:A:TRP:H | 10 | 3.56 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 2 | 3.56 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 17 | 3.56 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 17 | 3.56 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 17 | 3.56 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 5 | 3.56 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 5 | 3.56 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 1 | 3.56 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 2 | 3.56 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 2 | 3.56 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 2 | 3.56 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 8 | 3.56 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 8 | 3.56 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 8 | 3.56 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 17 | 3.56 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 17 | 3.56 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 13 | 3.56 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 14 | 3.56 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 14 | 3.56 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 14 | 3.56 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 18 | 3.56 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 3 | 3.56 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 5 | 3.56 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 13 | 3.56 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 17 | 3.56 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 20 | 3.56 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 2 | 3.56 |
| (1,6940) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 18 | 3.56 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 10 | 3.56 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 10 | 3.56 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 10 | 3.56 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 12 | 3.56 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 12 | 3.56 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 12 | 3.56 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 14 | 3.56 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 14 | 3.56 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 14 | 3.56 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 14 | 3.56 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 14 | 3.56 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 14 | 3.56 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 5 | 3.56 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 10 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 18 | 3.56 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 18 | 3.56 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 6 | 3.56 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 6 | 3.56 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 6 | 3.56 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 6 | 3.56 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 3 | 3.56 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 4 | 3.56 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 11 | 3.56 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 9 | 3.56 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 13 | 3.56 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 8 | 3.56 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 20 | 3.56 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 10 | 3.56 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 10 | 3.56 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 10 | 3.56 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 4 | 3.56 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 5 | 3.56 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 5 | 3.56 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 5 | 3.56 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 15 | 3.56 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 3.56 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 3 | 3.56 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 10 | 3.56 |
| (1,6112) | 1:138:A:SER:H | 1:140:A:ALA:H | 8 | 3.56 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 8 | 3.56 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 8 | 3.56 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 8 | 3.56 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 8 | 3.56 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 8 | 3.56 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 8 | 3.56 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 8 | 3.56 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 8 | 3.56 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 8 | 3.56 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 11 | 3.56 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 18 | 3.56 |
| (1,6027) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 4 | 3.56 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 11 | 3.56 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 13 | 3.56 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 18 | 3.56 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 2 | 3.56 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 15 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 10 | 3.56 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 10 | 3.56 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 10 | 3.56 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 10 | 3.56 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 12 | 3.56 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 18 | 3.56 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 1 | 3.56 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 1 | 3.56 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 1 | 3.56 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 1 | 3.56 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 1 | 3.56 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 1 | 3.56 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 1 | 3.56 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 1 | 3.56 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 1 | 3.56 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 7 | 3.56 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 4 | 3.56 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 20 | 3.56 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 9 | 3.56 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 3 | 3.56 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 2 | 3.56 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 4 | 3.56 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 9 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 7 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 7 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 7 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 7 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 7 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 7 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 14 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 14 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 14 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 14 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 14 | 3.56 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 14 | 3.56 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 6 | 3.56 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 6 | 3.56 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 6 | 3.56 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 4 | 3.56 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 2 | 3.56 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 11 | 3.56 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 6 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 14 | 3.56 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 11 | 3.56 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 11 | 3.56 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 11 | 3.56 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 11 | 3.56 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 11 | 3.56 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 11 | 3.56 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 9 | 3.56 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 2 | 3.56 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 2 | 3.56 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 2 | 3.56 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 2 | 3.56 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 2 | 3.56 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 2 | 3.56 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 2 | 3.56 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 2 | 3.56 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 2 | 3.56 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 8 | 3.56 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 7 | 3.56 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 7 | 3.56 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 7 | 3.56 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 1 | 3.56 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 2 | 3.56 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 1 | 3.56 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 19 | 3.56 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 2 | 3.56 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 2 | 3.56 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 13 | 3.56 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 4 | 3.56 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 4 | 3.56 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 4 | 3.56 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 2 | 3.56 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 16 | 3.56 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 16 | 3.56 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 16 | 3.56 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 14 | 3.56 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 2 | 3.56 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 2 | 3.56 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 2 | 3.56 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 6 | 3.56 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 6 | 3.56 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 6 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 13 | 3.56 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 13 | 3.56 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 13 | 3.56 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 5 | 3.56 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 10 | 3.56 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 1 | 3.56 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 4 | 3.56 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 9 | 3.56 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 10 | 3.56 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 10 | 3.56 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 19 | 3.56 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 19 | 3.56 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 19 | 3.56 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 19 | 3.56 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 17 | 3.56 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 1 | 3.56 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 1 | 3.56 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 10 | 3.56 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 10 | 3.56 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 9 | 3.56 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 9 | 3.56 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 9 | 3.56 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 9 | 3.56 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 9 | 3.56 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 9 | 3.56 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 8 | 3.56 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 8 | 3.56 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 8 | 3.56 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 5 | 3.56 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 5 | 3.56 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 5 | 3.56 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 5 | 3.56 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 5 | 3.56 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 5 | 3.56 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 14 | 3.56 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 14 | 3.56 |
| (1,4413) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 10 | 3.56 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 5 | 3.56 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 5 | 3.56 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 13 | 3.56 |
| (1,4324) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 8 | 3.56 |
| (1,4324) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 8 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 12 | 3.56 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 12 | 3.56 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 5 | 3.56 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 13 | 3.56 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 13 | 3.56 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 13 | 3.56 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 13 | 3.56 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 2 | 3.56 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 2 | 3.56 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 13 | 3.56 |
| (1,4228) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 13 | 3.56 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 15 | 3.56 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 15 | 3.56 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 15 | 3.56 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 3.56 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 3.56 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 3.56 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 6 | 3.56 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 6 | 3.56 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 16 | 3.56 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 16 | 3.56 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 16 | 3.56 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 16 | 3.56 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 16 | 3.56 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 16 | 3.56 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 7 | 3.56 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 7 | 3.56 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 7 | 3.56 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 19 | 3.56 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 19 | 3.56 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 19 | 3.56 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 5 | 3.56 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 9 | 3.56 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 18 | 3.56 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 18 | 3.56 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 18 | 3.56 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 18 | 3.56 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 18 | 3.56 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 18 | 3.56 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 19 | 3.56 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 19 | 3.56 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 19 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 15 | 3.56 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 15 | 3.56 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 15 | 3.56 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 15 | 3.56 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 16 | 3.56 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 8 | 3.56 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 8 | 3.56 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 8 | 3.56 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 8 | 3.56 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 14 | 3.56 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 14 | 3.56 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 14 | 3.56 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 5 | 3.56 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 5 | 3.56 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 12 | 3.56 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 12 | 3.56 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 12 | 3.56 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 16 | 3.56 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 16 | 3.56 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 9 | 3.56 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 9 | 3.56 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 9 | 3.56 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 14 | 3.56 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 14 | 3.56 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 14 | 3.56 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 14 | 3.56 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 4 | 3.56 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 4 | 3.56 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 19 | 3.56 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 12 | 3.56 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 12 | 3.56 |
| (1,3639) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 1 | 3.56 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 19 | 3.56 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 19 | 3.56 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 19 | 3.56 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 19 | 3.56 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 17 | 3.56 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 19 | 3.56 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 1 | 3.56 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 1 | 3.56 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 1 | 3.56 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 14 | 3.56 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 14 | 3.56 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 14 | 3.56 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 18 | 3.56 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 16 | 3.56 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 15 | 3.56 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 8 | 3.56 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 9 | 3.56 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 10 | 3.56 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 4 | 3.56 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 9 | 3.56 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 2 | 3.56 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 2 | 3.56 |
| (1,2960) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 18 | 3.56 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 10 | 3.56 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 10 | 3.56 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 10 | 3.56 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 9 | 3.56 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 11 | 3.56 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 12 | 3.56 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 12 | 3.56 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 12 | 3.56 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 14 | 3.56 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 14 | 3.56 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 14 | 3.56 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 14 | 3.56 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 14 | 3.56 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 14 | 3.56 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 13 | 3.56 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 13 | 3.56 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 13 | 3.56 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 13 | 3.56 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 13 | 3.56 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 13 | 3.56 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 3 | 3.56 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 3 | 3.56 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 3 | 3.56 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 3 | 3.56 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 3 | 3.56 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 3 | 3.56 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 5 | 3.56 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 10 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 18 | 3.56 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 18 | 3.56 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 3.56 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 19 | 3.56 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 3 | 3.56 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 4 | 3.56 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 11 | 3.56 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 16 | 3.56 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 9 | 3.56 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 13 | 3.56 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 14 | 3.56 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 10 | 3.56 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 12 | 3.56 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 14 | 3.56 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 1 | 3.56 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 1 | 3.56 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 1 | 3.56 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 8 | 3.56 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 20 | 3.56 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 20 | 3.56 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 12 | 3.56 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 12 | 3.56 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 12 | 3.56 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 2 | 3.56 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 12 | 3.56 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 16 | 3.56 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 10 | 3.56 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 10 | 3.56 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 10 | 3.56 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 6 | 3.56 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 10 | 3.56 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 10 | 3.56 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 10 | 3.56 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 16 | 3.56 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 16 | 3.56 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 16 | 3.56 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 4 | 3.56 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 3 | 3.56 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 3 | 3.56 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 3 | 3.56 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 10 | 3.56 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 10 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 10 | 3.56 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 12 | 3.56 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 12 | 3.56 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 12 | 3.56 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 5 | 3.56 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 5 | 3.56 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 5 | 3.56 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 15 | 3.56 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 5 | 3.56 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 5 | 3.56 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 5 | 3.56 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 3.56 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 3 | 3.56 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 18 | 3.56 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 10 | 3.56 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 8 | 3.56 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 12 | 3.56 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 18 | 3.56 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 20 | 3.56 |
| (1,1684) | 1:138:A:SER:H | 1:140:A:ALA:H | 8 | 3.56 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 8 | 3.56 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 8 | 3.56 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 8 | 3.56 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 8 | 3.56 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 8 | 3.56 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 8 | 3.56 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 8 | 3.56 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 8 | 3.56 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 8 | 3.56 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 11 | 3.56 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 6 | 3.56 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 5 | 3.56 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 6 | 3.56 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 9 | 3.56 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 12 | 3.56 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 13 | 3.56 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 19 | 3.56 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 18 | 3.56 |
| (1,1552) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 4 | 3.56 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 3 | 3.56 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 5 | 3.56 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 5 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 5 | 3.56 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 11 | 3.56 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 3 | 3.56 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 10 | 3.56 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 2 | 3.56 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 15 | 3.56 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 10 | 3.56 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 10 | 3.56 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 10 | 3.56 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 10 | 3.56 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 12 | 3.56 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 18 | 3.56 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 1 | 3.56 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 1 | 3.56 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 1 | 3.56 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 1 | 3.56 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 1 | 3.56 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 1 | 3.56 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 1 | 3.56 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 1 | 3.56 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 1 | 3.56 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 13 | 3.56 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 14 | 3.56 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 7 | 3.56 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 18 | 3.56 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 4 | 3.56 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 20 | 3.56 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 1 | 3.56 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 18 | 3.56 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 8 | 3.56 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 8 | 3.56 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 8 | 3.56 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 15 | 3.56 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 1 | 3.56 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 11 | 3.56 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 16 | 3.56 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 18 | 3.56 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 19 | 3.56 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 9 | 3.56 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 3 | 3.56 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 3 | 3.56 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 14 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 15 | 3.56 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 17 | 3.56 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 2 | 3.56 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 4 | 3.56 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 15 | 3.56 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 9 | 3.56 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 7 | 3.56 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 7 | 3.56 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 7 | 3.56 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 7 | 3.56 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 7 | 3.56 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 7 | 3.56 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 14 | 3.56 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 14 | 3.56 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 14 | 3.56 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 14 | 3.56 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 14 | 3.56 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 14 | 3.56 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 6 | 3.56 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 6 | 3.56 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 6 | 3.56 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 4 | 3.56 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 2 | 3.56 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 13 | 3.56 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 16 | 3.56 |
| (1,824) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 20 | 3.56 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 2 | 3.56 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 11 | 3.56 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 6 | 3.56 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 14 | 3.56 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 10 | 3.56 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 11 | 3.56 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 14 | 3.56 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 11 | 3.56 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 11 | 3.56 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 11 | 3.56 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 11 | 3.56 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 11 | 3.56 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 11 | 3.56 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 9 | 3.56 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 12 | 3.56 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 2 | 3.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 2 | 3.56 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 2 | 3.56 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 2 | 3.56 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 2 | 3.56 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 2 | 3.56 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 2 | 3.56 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 2 | 3.56 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 2 | 3.56 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 17 | 3.56 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 5 | 3.56 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 11 | 3.56 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 8 | 3.56 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 7 | 3.56 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 7 | 3.56 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 7 | 3.56 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 16 | 3.56 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 16 | 3.56 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 16 | 3.56 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 3 | 3.56 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 6 | 3.56 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 6 | 3.56 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 6 | 3.56 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 10 | 3.56 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 2 | 3.55 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 18 | 3.55 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 2 | 3.55 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 2 | 3.55 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 14 | 3.55 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 14 | 3.55 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 17 | 3.55 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 17 | 3.55 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 13 | 3.55 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 13 | 3.55 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 13 | 3.55 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 13 | 3.55 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 11 | 3.55 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 11 | 3.55 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 13 | 3.55 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 13 | 3.55 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 13 | 3.55 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 13 | 3.55 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 19 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 19 | 3.55 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 19 | 3.55 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 19 | 3.55 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 19 | 3.55 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 19 | 3.55 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 15 | 3.55 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 15 | 3.55 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 15 | 3.55 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 15 | 3.55 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 17 | 3.55 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 17 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 6 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 6 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 6 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 6 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 6 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 6 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 10 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 10 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 10 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 10 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 10 | 3.55 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 10 | 3.55 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 1 | 3.55 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 1 | 3.55 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 16 | 3.55 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 16 | 3.55 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 18 | 3.55 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 18 | 3.55 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 16 | 3.55 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 16 | 3.55 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 16 | 3.55 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 16 | 3.55 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 18 | 3.55 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 18 | 3.55 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 18 | 3.55 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 18 | 3.55 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 2 | 3.55 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 2 | 3.55 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 2 | 3.55 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 2 | 3.55 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 16 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 16 | 3.55 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 13 | 3.55 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 13 | 3.55 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG2 | 20 | 3.55 |
| (1,9057) | 1:82:A:LYS:HB3 | 1:83:A:GLU:HG3 | 20 | 3.55 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 15 | 3.55 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 15 | 3.55 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 15 | 3.55 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 15 | 3.55 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 9 | 3.55 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 9 | 3.55 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 13 | 3.55 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 13 | 3.55 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 13 | 3.55 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 13 | 3.55 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 13 | 3.55 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 13 | 3.55 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 10 | 3.55 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 10 | 3.55 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 10 | 3.55 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 10 | 3.55 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 10 | 3.55 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 10 | 3.55 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 16 | 3.55 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 16 | 3.55 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 15 | 3.55 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 15 | 3.55 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 15 | 3.55 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 15 | 3.55 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 15 | 3.55 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 15 | 3.55 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 11 | 3.55 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 11 | 3.55 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 11 | 3.55 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 11 | 3.55 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB2 | 19 | 3.55 |
| (1,8722) | 1:48:A:GLY:HA2 | 1:49:A:GLN:HB3 | 19 | 3.55 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB2 | 19 | 3.55 |
| (1,8722) | 1:48:A:GLY:HA3 | 1:49:A:GLN:HB3 | 19 | 3.55 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 8 | 3.55 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 8 | 3.55 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 20 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 20 | 3.55 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 20 | 3.55 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 20 | 3.55 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 20 | 3.55 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 20 | 3.55 |
| (1,8330) | 1:131:A:GLN:H | 1:134:A:PHE:H | 12 | 3.55 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 6 | 3.55 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 6 | 3.55 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 6 | 3.55 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 4 | 3.55 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 4 | 3.55 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 8 | 3.55 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 18 | 3.55 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 18 | 3.55 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 18 | 3.55 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 1 | 3.55 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 15 | 3.55 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 15 | 3.55 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 15 | 3.55 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 5 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 14 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 14 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 14 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 14 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 14 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 14 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 14 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 14 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 14 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 15 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 15 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 15 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 15 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 15 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 15 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 15 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 15 | 3.55 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 15 | 3.55 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 1 | 3.55 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 15 | 3.55 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 11 | 3.55 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 11 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 11 | 3.55 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 11 | 3.55 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 11 | 3.55 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 11 | 3.55 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 11 | 3.55 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 11 | 3.55 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 11 | 3.55 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 11 | 3.55 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 2 | 3.55 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 2 | 3.55 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 17 | 3.55 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 13 | 3.55 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 2 | 3.55 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 2 | 3.55 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 2 | 3.55 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 2 | 3.55 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 2 | 3.55 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 2 | 3.55 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 2 | 3.55 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 2 | 3.55 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 2 | 3.55 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 2 | 3.55 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 2 | 3.55 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 2 | 3.55 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 8 | 3.55 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 2 | 3.55 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 13 | 3.55 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 3 | 3.55 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 11 | 3.55 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 8 | 3.55 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 14 | 3.55 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 14 | 3.55 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 14 | 3.55 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 13 | 3.55 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 13 | 3.55 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 13 | 3.55 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 4 | 3.55 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 4 | 3.55 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 4 | 3.55 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 6 | 3.55 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 6 | 3.55 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 6 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 2 | 3.55 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 11 | 3.55 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 18 | 3.55 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 19 | 3.55 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 14 | 3.55 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 14 | 3.55 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 18 | 3.55 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 18 | 3.55 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 18 | 3.55 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 8 | 3.55 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 4 | 3.55 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 20 | 3.55 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 13 | 3.55 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 16 | 3.55 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 19 | 3.55 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 16 | 3.55 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 13 | 3.55 |
| (1,6595) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 9 | 3.55 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 16 | 3.55 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 8 | 3.55 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 8 | 3.55 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 8 | 3.55 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 12 | 3.55 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 12 | 3.55 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 12 | 3.55 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 17 | 3.55 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 15 | 3.55 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 6 | 3.55 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 8 | 3.55 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 16 | 3.55 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 16 | 3.55 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 16 | 3.55 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 18 | 3.55 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 18 | 3.55 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 18 | 3.55 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 2 | 3.55 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 15 | 3.55 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 15 | 3.55 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 15 | 3.55 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 15 | 3.55 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 15 | 3.55 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 15 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 15 | 3.55 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 15 | 3.55 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 15 | 3.55 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 3 | 3.55 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 12 | 3.55 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 12 | 3.55 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 12 | 3.55 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 2 | 3.55 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 12 | 3.55 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 6 | 3.55 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 20 | 3.55 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 12 | 3.55 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 2 | 3.55 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 16 | 3.55 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 19 | 3.55 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 3.55 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 8 | 3.55 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 8 | 3.55 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 8 | 3.55 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 8 | 3.55 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 8 | 3.55 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 8 | 3.55 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 8 | 3.55 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 8 | 3.55 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 8 | 3.55 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 19 | 3.55 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 19 | 3.55 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 14 | 3.55 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 12 | 3.55 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 11 | 3.55 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 8 | 3.55 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 8 | 3.55 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 8 | 3.55 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 20 | 3.55 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 20 | 3.55 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 3 | 3.55 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 8 | 3.55 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 5 | 3.55 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 20 | 3.55 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 6 | 3.55 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 19 | 3.55 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 14 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 14 | 3.55 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 13 | 3.55 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 13 | 3.55 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 13 | 3.55 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 15 | 3.55 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 15 | 3.55 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 15 | 3.55 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 13 | 3.55 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 15 | 3.55 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 16 | 3.55 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 4 | 3.55 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 2 | 3.55 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 2 | 3.55 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 2 | 3.55 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 2 | 3.55 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 2 | 3.55 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 2 | 3.55 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 16 | 3.55 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 10 | 3.55 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 10 | 3.55 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 10 | 3.55 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 5 | 3.55 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 5 | 3.55 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 17 | 3.55 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 17 | 3.55 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 17 | 3.55 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 18 | 3.55 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 18 | 3.55 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 18 | 3.55 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 19 | 3.55 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 19 | 3.55 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 19 | 3.55 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 2 | 3.55 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 2 | 3.55 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 2 | 3.55 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 10 | 3.55 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 12 | 3.55 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 4 | 3.55 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 20 | 3.55 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 19 | 3.55 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 2 | 3.55 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 5 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 10 | 3.55 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 2 | 3.55 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 12 | 3.55 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 3 | 3.55 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 3 | 3.55 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 3 | 3.55 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 3 | 3.55 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 3 | 3.55 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 3 | 3.55 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 2 | 3.55 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 2 | 3.55 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 2 | 3.55 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 20 | 3.55 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 20 | 3.55 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 20 | 3.55 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 7 | 3.55 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 7 | 3.55 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 7 | 3.55 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 2 | 3.55 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 12 | 3.55 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 14 | 3.55 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 14 | 3.55 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 3 | 3.55 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 3 | 3.55 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 3 | 3.55 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 3 | 3.55 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 3 | 3.55 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 3 | 3.55 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 3 | 3.55 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 3 | 3.55 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 3 | 3.55 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 5 | 3.55 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 5 | 3.55 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 5 | 3.55 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 9 | 3.55 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 18 | 3.55 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 8 | 3.55 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 15 | 3.55 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 18 | 3.55 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 18 | 3.55 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 18 | 3.55 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 18 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 18 | 3.55 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 18 | 3.55 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 14 | 3.55 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 11 | 3.55 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 11 | 3.55 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 19 | 3.55 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 5 | 3.55 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 5 | 3.55 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 16 | 3.55 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 2 | 3.55 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 3 | 3.55 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 3 | 3.55 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 3 | 3.55 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 11 | 3.55 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 11 | 3.55 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 15 | 3.55 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 15 | 3.55 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 11 | 3.55 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 11 | 3.55 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 17 | 3.55 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 17 | 3.55 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 17 | 3.55 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 17 | 3.55 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 13 | 3.55 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 13 | 3.55 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 13 | 3.55 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 13 | 3.55 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 19 | 3.55 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 19 | 3.55 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 19 | 3.55 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 19 | 3.55 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 19 | 3.55 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 19 | 3.55 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 5 | 3.55 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 5 | 3.55 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 17 | 3.55 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 17 | 3.55 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 17 | 3.55 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 9 | 3.55 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 1 | 3.55 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 1 | 3.55 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 10 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 16 | 3.55 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 16 | 3.55 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 18 | 3.55 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 18 | 3.55 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 2 | 3.55 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 2 | 3.55 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 2 | 3.55 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 2 | 3.55 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 12 | 3.55 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 12 | 3.55 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 10 | 3.55 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 19 | 3.55 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 19 | 3.55 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 19 | 3.55 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 10 | 3.55 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 1 | 3.55 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 1 | 3.55 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 1 | 3.55 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 9 | 3.55 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 9 | 3.55 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 9 | 3.55 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 9 | 3.55 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 9 | 3.55 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 9 | 3.55 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 10 | 3.55 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 15 | 3.55 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 15 | 3.55 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 15 | 3.55 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 15 | 3.55 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 16 | 3.55 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 16 | 3.55 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 1 | 3.55 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 1 | 3.55 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 1 | 3.55 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 1 | 3.55 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 1 | 3.55 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 1 | 3.55 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 9 | 3.55 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 9 | 3.55 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 17 | 3.55 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 17 | 3.55 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 8 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 15 | 3.55 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 15 | 3.55 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 15 | 3.55 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 15 | 3.55 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 15 | 3.55 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 15 | 3.55 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 17 | 3.55 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 3.55 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 3.55 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 11 | 3.55 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 9 | 3.55 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 3.55 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 9 | 3.55 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 12 | 3.55 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 2 | 3.55 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 2 | 3.55 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 2 | 3.55 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 2 | 3.55 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 2 | 3.55 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 2 | 3.55 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 2 | 3.55 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 2 | 3.55 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 2 | 3.55 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 3 | 3.55 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 5 | 3.55 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 10 | 3.55 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 12 | 3.55 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 13 | 3.55 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 17 | 3.55 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 20 | 3.55 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 4 | 3.55 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 6 | 3.55 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 12 | 3.55 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 18 | 3.55 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 6 | 3.55 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 16 | 3.55 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 16 | 3.55 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 16 | 3.55 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 2 | 3.55 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 2 | 3.55 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 2 | 3.55 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 12 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 8 | 3.55 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 2 | 3.55 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 10 | 3.55 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 10 | 3.55 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 10 | 3.55 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 10 | 3.55 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 10 | 3.55 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 10 | 3.55 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 20 | 3.55 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 13 | 3.55 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 19 | 3.55 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 5 | 3.55 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 3 | 3.55 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 11 | 3.55 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 7 | 3.55 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 6 | 3.55 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 19 | 3.55 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 3 | 3.55 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 12 | 3.55 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 15 | 3.55 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 8 | 3.55 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 14 | 3.55 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 14 | 3.55 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 14 | 3.55 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 14 | 3.55 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 11 | 3.55 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 13 | 3.55 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 13 | 3.55 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 13 | 3.55 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 10 | 3.55 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 10 | 3.55 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 10 | 3.55 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 6 | 3.55 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 6 | 3.55 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 6 | 3.55 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 2 | 3.55 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 11 | 3.55 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 18 | 3.55 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 18 | 3.55 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 18 | 3.55 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 19 | 3.55 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 14 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 14 | 3.55 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 7 | 3.55 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 7 | 3.55 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 15 | 3.55 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 15 | 3.55 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 18 | 3.55 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 18 | 3.55 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 18 | 3.55 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 15 | 3.55 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 10 | 3.55 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 13 | 3.55 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 15 | 3.55 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 17 | 3.55 |
| (1,2598) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 5 | 3.55 |
| (1,2598) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 5 | 3.55 |
| (1,2598) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 5 | 3.55 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 8 | 3.55 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 13 | 3.55 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 16 | 3.55 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 19 | 3.55 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 16 | 3.55 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 13 | 3.55 |
| (1,2452) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 9 | 3.55 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 8 | 3.55 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 8 | 3.55 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 8 | 3.55 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 12 | 3.55 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 12 | 3.55 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 12 | 3.55 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 16 | 3.55 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 17 | 3.55 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 7 | 3.55 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 11 | 3.55 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 17 | 3.55 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 20 | 3.55 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 20 | 3.55 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 20 | 3.55 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 15 | 3.55 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 6 | 3.55 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 8 | 3.55 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 16 | 3.55 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 16 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 16 | 3.55 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 7 | 3.55 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 20 | 3.55 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 18 | 3.55 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 18 | 3.55 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 18 | 3.55 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 17 | 3.55 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 4 | 3.55 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 4 | 3.55 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 4 | 3.55 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 9 | 3.55 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 2 | 3.55 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 2 | 3.55 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 2 | 3.55 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 2 | 3.55 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 15 | 3.55 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 15 | 3.55 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 15 | 3.55 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 15 | 3.55 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 15 | 3.55 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 15 | 3.55 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 15 | 3.55 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 15 | 3.55 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 15 | 3.55 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 1 | 3.55 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 1 | 3.55 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 1 | 3.55 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 3 | 3.55 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 8 | 3.55 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 8 | 3.55 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 8 | 3.55 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 20 | 3.55 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 20 | 3.55 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 20 | 3.55 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 12 | 3.55 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 12 | 3.55 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 12 | 3.55 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 2 | 3.55 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 12 | 3.55 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 6 | 3.55 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 20 | 3.55 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 20 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 20 | 3.55 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 2 | 3.55 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 20 | 3.55 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 12 | 3.55 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 2 | 3.55 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 12 | 3.55 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 18 | 3.55 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 19 | 3.55 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 19 | 3.55 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 19 | 3.55 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 16 | 3.55 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 19 | 3.55 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 9 | 3.55 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 9 | 3.55 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 9 | 3.55 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 2 | 3.55 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 3.55 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 8 | 3.55 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 8 | 3.55 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 8 | 3.55 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 8 | 3.55 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 8 | 3.55 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 8 | 3.55 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 8 | 3.55 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 8 | 3.55 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 8 | 3.55 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 19 | 3.55 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 19 | 3.55 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 11 | 3.55 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 11 | 3.55 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 4 | 3.55 |
| (1,1596) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 16 | 3.55 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 14 | 3.55 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 19 | 3.55 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 4 | 3.55 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 7 | 3.55 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 10 | 3.55 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 11 | 3.55 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 2 | 3.55 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 2 | 3.55 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 2 | 3.55 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 2 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 20 | 3.55 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 20 | 3.55 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 3 | 3.55 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 8 | 3.55 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 20 | 3.55 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 5 | 3.55 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 20 | 3.55 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 6 | 3.55 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 19 | 3.55 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 1 | 3.55 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 18 | 3.55 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 18 | 3.55 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 18 | 3.55 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 18 | 3.55 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 18 | 3.55 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 18 | 3.55 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 14 | 3.55 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 14 | 3.55 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 13 | 3.55 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 13 | 3.55 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 13 | 3.55 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 15 | 3.55 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 15 | 3.55 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 15 | 3.55 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 13 | 3.55 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 15 | 3.55 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 5 | 3.55 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 8 | 3.55 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 17 | 3.55 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 8 | 3.55 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 16 | 3.55 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 2 | 3.55 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 3 | 3.55 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 7 | 3.55 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 14 | 3.55 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 19 | 3.55 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 4 | 3.55 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 8 | 3.55 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 13 | 3.55 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 15 | 3.55 |
| (1,998) | 1:107:A:ALA:HA | 1:108:A:SER:H | 20 | 3.55 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 3 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 10 | 3.55 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 2 | 3.55 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 6 | 3.55 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 19 | 3.55 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 6 | 3.55 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 4 | 3.55 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 16 | 3.55 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 16 | 3.55 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 16 | 3.55 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 3.55 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 3.55 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 3 | 3.55 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 3 | 3.55 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 3 | 3.55 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 19 | 3.55 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 2 | 3.55 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 2 | 3.55 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 2 | 3.55 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 2 | 3.55 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 2 | 3.55 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 2 | 3.55 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 2 | 3.55 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 2 | 3.55 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 2 | 3.55 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 16 | 3.55 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 5 | 3.55 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 10 | 3.55 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 10 | 3.55 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 10 | 3.55 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 3 | 3.55 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 5 | 3.55 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 5 | 3.55 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 17 | 3.55 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 17 | 3.55 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 17 | 3.55 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 3 | 3.55 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 3 | 3.55 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 3 | 3.55 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 7 | 3.55 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 19 | 3.55 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 5 | 3.55 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 5 | 3.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 5 | 3.55 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 18 | 3.55 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 20 | 3.54 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 6 | 3.54 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 18 | 3.54 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 18 | 3.54 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 7 | 3.54 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 7 | 3.54 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 6 | 3.54 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 6 | 3.54 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 15 | 3.54 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 15 | 3.54 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 15 | 3.54 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 15 | 3.54 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 15 | 3.54 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 15 | 3.54 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 15 | 3.54 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 15 | 3.54 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 15 | 3.54 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 15 | 3.54 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 3 | 3.54 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 3 | 3.54 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 3 | 3.54 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 3 | 3.54 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 7 | 3.54 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 7 | 3.54 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 8 | 3.54 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 8 | 3.54 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 8 | 3.54 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 8 | 3.54 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 8 | 3.54 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 8 | 3.54 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 20 | 3.54 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 20 | 3.54 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 9 | 3.54 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 9 | 3.54 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 12 | 3.54 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 12 | 3.54 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 7 | 3.54 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 7 | 3.54 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 11 | 3.54 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 11 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 15 | 3.54 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 15 | 3.54 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 7 | 3.54 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 7 | 3.54 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 6 | 3.54 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 6 | 3.54 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 6 | 3.54 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 6 | 3.54 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 7 | 3.54 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 7 | 3.54 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 7 | 3.54 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 7 | 3.54 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 7 | 3.54 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 7 | 3.54 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 6 | 3.54 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 6 | 3.54 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 6 | 3.54 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 6 | 3.54 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 6 | 3.54 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 6 | 3.54 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 11 | 3.54 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 11 | 3.54 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 7 | 3.54 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 7 | 3.54 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 12 | 3.54 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 12 | 3.54 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 14 | 3.54 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 14 | 3.54 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 16 | 3.54 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 16 | 3.54 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 16 | 3.54 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 16 | 3.54 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG2 | 15 | 3.54 |
| (1,8777) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HG3 | 15 | 3.54 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 20 | 3.54 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 3.54 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 20 | 3.54 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 3.54 |
| (1,8686) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 20 | 3.54 |
| (1,8686) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 20 | 3.54 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 14 | 3.54 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 14 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 13 | 3.54 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 13 | 3.54 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 1 | 3.54 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 1 | 3.54 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 16 | 3.54 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 16 | 3.54 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 16 | 3.54 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 4 | 3.54 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 4 | 3.54 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 4 | 3.54 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 6 | 3.54 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 6 | 3.54 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 9 | 3.54 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 9 | 3.54 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 9 | 3.54 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 9 | 3.54 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 9 | 3.54 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 9 | 3.54 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 20 | 3.54 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 20 | 3.54 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 20 | 3.54 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 15 | 3.54 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 15 | 3.54 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 15 | 3.54 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 3 | 3.54 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 3 | 3.54 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 3 | 3.54 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 3 | 3.54 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 3 | 3.54 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 3 | 3.54 |
| (1,8014) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 20 | 3.54 |
| (1,7971) | 1:77:A:LYS:HA | 1:78:A:ILE:HG12 | 4 | 3.54 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 13 | 3.54 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 8 | 3.54 |
| (1,7885) | 1:65:A:SER:H | 1:82:A:LYS:H | 9 | 3.54 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 20 | 3.54 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 8 | 3.54 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 4 | 3.54 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 18 | 3.54 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 18 | 3.54 |
| (1,7567) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 1 | 3.54 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 5 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 5 | 3.54 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 5 | 3.54 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 8 | 3.54 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 8 | 3.54 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 8 | 3.54 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 14 | 3.54 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 11 | 3.54 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 11 | 3.54 |
| (1,7470) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 18 | 3.54 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 18 | 3.54 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 17 | 3.54 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 4 | 3.54 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 4 | 3.54 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 4 | 3.54 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 19 | 3.54 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 19 | 3.54 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 11 | 3.54 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 7 | 3.54 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 7 | 3.54 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 17 | 3.54 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 17 | 3.54 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 17 | 3.54 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 17 | 3.54 |
| (1,7162) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 15 | 3.54 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 8 | 3.54 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 15 | 3.54 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 2 | 3.54 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 15 | 3.54 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 2 | 3.54 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 2 | 3.54 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 2 | 3.54 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 15 | 3.54 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 15 | 3.54 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 15 | 3.54 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 20 | 3.54 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 10 | 3.54 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 17 | 3.54 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 7 | 3.54 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 4 | 3.54 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 4 | 3.54 |
| (1,6739) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 4 | 3.54 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 3 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 3 | 3.54 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 3 | 3.54 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 11 | 3.54 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 11 | 3.54 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 11 | 3.54 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 13 | 3.54 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 18 | 3.54 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 5 | 3.54 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 3 | 3.54 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 3 | 3.54 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 3 | 3.54 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 3 | 3.54 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 4 | 3.54 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 4 | 3.54 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 4 | 3.54 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 15 | 3.54 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 5 | 3.54 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 5 | 3.54 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 5 | 3.54 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 19 | 3.54 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 19 | 3.54 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 19 | 3.54 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 19 | 3.54 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 19 | 3.54 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 19 | 3.54 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 19 | 3.54 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 19 | 3.54 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 19 | 3.54 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 18 | 3.54 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 14 | 3.54 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 16 | 3.54 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 1 | 3.54 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 16 | 3.54 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 6 | 3.54 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 7 | 3.54 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 14 | 3.54 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 9 | 3.54 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 7 | 3.54 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 7 | 3.54 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 7 | 3.54 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 7 | 3.54 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 7 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 7 | 3.54 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 7 | 3.54 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 7 | 3.54 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 7 | 3.54 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 12 | 3.54 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 15 | 3.54 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 19 | 3.54 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 3 | 3.54 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 19 | 3.54 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 11 | 3.54 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 6 | 3.54 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 16 | 3.54 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 17 | 3.54 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 17 | 3.54 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 17 | 3.54 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 15 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 3 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 3 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 3 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 3 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 3 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 3 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 6 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 6 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 6 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 6 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 6 | 3.54 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 6 | 3.54 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 4 | 3.54 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 4 | 3.54 |
| (1,5401) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 4 | 3.54 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 12 | 3.54 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 12 | 3.54 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 12 | 3.54 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 5 | 3.54 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 5 | 3.54 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 5 | 3.54 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 14 | 3.54 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 14 | 3.54 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 14 | 3.54 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 17 | 3.54 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 13 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 20 | 3.54 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 14 | 3.54 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 7 | 3.54 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 6 | 3.54 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 12 | 3.54 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 16 | 3.54 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 17 | 3.54 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 14 | 3.54 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 1 | 3.54 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 5 | 3.54 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 15 | 3.54 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 17 | 3.54 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 17 | 3.54 |
| (1,4864) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 17 | 3.54 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 16 | 3.54 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 16 | 3.54 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 16 | 3.54 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 17 | 3.54 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 17 | 3.54 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 17 | 3.54 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 17 | 3.54 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 17 | 3.54 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 17 | 3.54 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 17 | 3.54 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 17 | 3.54 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 17 | 3.54 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 1 | 3.54 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 7 | 3.54 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 15 | 3.54 |
| (1,4772) | 1:58:A:SER:H | 1:162:A:THR:H | 3 | 3.54 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 6 | 3.54 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 6 | 3.54 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 6 | 3.54 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 2 | 3.54 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 3 | 3.54 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 5 | 3.54 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 12 | 3.54 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 12 | 3.54 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 4 | 3.54 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 4 | 3.54 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 19 | 3.54 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 19 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 4 | 3.54 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 4 | 3.54 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 4 | 3.54 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 4 | 3.54 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 10 | 3.54 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 20 | 3.54 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 1 | 3.54 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 13 | 3.54 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 2 | 3.54 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 2 | 3.54 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 2 | 3.54 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 10 | 3.54 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 10 | 3.54 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 10 | 3.54 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 18 | 3.54 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 18 | 3.54 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 18 | 3.54 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 17 | 3.54 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 6 | 3.54 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 6 | 3.54 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 18 | 3.54 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 18 | 3.54 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 3 | 3.54 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 3 | 3.54 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 3 | 3.54 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 3 | 3.54 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 9 | 3.54 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 9 | 3.54 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 8 | 3.54 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 8 | 3.54 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 8 | 3.54 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 8 | 3.54 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 8 | 3.54 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 8 | 3.54 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 10 | 3.54 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 7 | 3.54 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 7 | 3.54 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 11 | 3.54 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 11 | 3.54 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 15 | 3.54 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 15 | 3.54 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 4 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 1 | 3.54 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 6 | 3.54 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 6 | 3.54 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 6 | 3.54 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 6 | 3.54 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 7 | 3.54 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 7 | 3.54 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 7 | 3.54 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 7 | 3.54 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 7 | 3.54 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 7 | 3.54 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 6 | 3.54 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 6 | 3.54 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 6 | 3.54 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 6 | 3.54 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 6 | 3.54 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 6 | 3.54 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 14 | 3.54 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 14 | 3.54 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 14 | 3.54 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 11 | 3.54 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 6 | 3.54 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 7 | 3.54 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 7 | 3.54 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 12 | 3.54 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 12 | 3.54 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 16 | 3.54 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 16 | 3.54 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 16 | 3.54 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 3 | 3.54 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 20 | 3.54 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 3.54 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 19 | 3.54 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 19 | 3.54 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 19 | 3.54 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 19 | 3.54 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 14 | 3.54 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 14 | 3.54 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 10 | 3.54 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 10 | 3.54 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 20 | 3.54 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 20 | 3.54 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 3.54 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 7 | 3.54 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 7 | 3.54 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 7 | 3.54 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 7 | 3.54 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 2 | 3.54 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 16 | 3.54 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 16 | 3.54 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 15 | 3.54 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 5 | 3.54 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 8 | 3.54 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 16 | 3.54 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 13 | 3.54 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 1 | 3.54 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 1 | 3.54 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 1 | 3.54 |
| (1,3272) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 15 | 3.54 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 8 | 3.54 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 3 | 3.54 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 10 | 3.54 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 12 | 3.54 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 19 | 3.54 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 3.54 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 3.54 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 3.54 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 15 | 3.54 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 1 | 3.54 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 15 | 3.54 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 16 | 3.54 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 2 | 3.54 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 2 | 3.54 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 2 | 3.54 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 15 | 3.54 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 15 | 3.54 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 15 | 3.54 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 1 | 3.54 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 4 | 3.54 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 6 | 3.54 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 12 | 3.54 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 20 | 3.54 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 10 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 17 | 3.54 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 7 | 3.54 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG11 | 4 | 3.54 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG12 | 4 | 3.54 |
| (1,2674) | 1:22:A:VAL:H | 1:22:A:VAL:HG13 | 4 | 3.54 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 16 | 3.54 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 16 | 3.54 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 16 | 3.54 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 8 | 3.54 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 8 | 3.54 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 20 | 3.54 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 3 | 3.54 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 3 | 3.54 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 3 | 3.54 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 11 | 3.54 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 11 | 3.54 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 11 | 3.54 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 13 | 3.54 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 18 | 3.54 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 3 | 3.54 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 3 | 3.54 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 3 | 3.54 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 3 | 3.54 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 4 | 3.54 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 1 | 3.54 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 1 | 3.54 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 1 | 3.54 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 1 | 3.54 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 1 | 3.54 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 1 | 3.54 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 1 | 3.54 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 7 | 3.54 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 2 | 3.54 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 3.54 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 5 | 3.54 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 5 | 3.54 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 5 | 3.54 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 3 | 3.54 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 8 | 3.54 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 4 | 3.54 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 4 | 3.54 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 4 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 4 | 3.54 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 15 | 3.54 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 5 | 3.54 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 5 | 3.54 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 5 | 3.54 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 11 | 3.54 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 11 | 3.54 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 11 | 3.54 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 19 | 3.54 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 19 | 3.54 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 19 | 3.54 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 19 | 3.54 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 19 | 3.54 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 19 | 3.54 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 19 | 3.54 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 19 | 3.54 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 19 | 3.54 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 3 | 3.54 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 3 | 3.54 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 3 | 3.54 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 3 | 3.54 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 3 | 3.54 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 3 | 3.54 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 3 | 3.54 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 3 | 3.54 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 3 | 3.54 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 18 | 3.54 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 14 | 3.54 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 16 | 3.54 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 2 | 3.54 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 12 | 3.54 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 20 | 3.54 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 7 | 3.54 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 7 | 3.54 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 7 | 3.54 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 12 | 3.54 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 12 | 3.54 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 12 | 3.54 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 8 | 3.54 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 8 | 3.54 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 8 | 3.54 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 18 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 18 | 3.54 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 18 | 3.54 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 16 | 3.54 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 7 | 3.54 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 7 | 3.54 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 7 | 3.54 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 1 | 3.54 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 3 | 3.54 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 9 | 3.54 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 16 | 3.54 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 14 | 3.54 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 14 | 3.54 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 7 | 3.54 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 14 | 3.54 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 6 | 3.54 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 7 | 3.54 |
| (1,1464) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 18 | 3.54 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 5 | 3.54 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 19 | 3.54 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 13 | 3.54 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 14 | 3.54 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 9 | 3.54 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 7 | 3.54 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 7 | 3.54 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 7 | 3.54 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 7 | 3.54 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 7 | 3.54 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 7 | 3.54 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 7 | 3.54 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 7 | 3.54 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 7 | 3.54 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 16 | 3.54 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 19 | 3.54 |
| (1,1244) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 14 | 3.54 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 12 | 3.54 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 15 | 3.54 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 11 | 3.54 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 11 | 3.54 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 11 | 3.54 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 12 | 3.54 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 19 | 3.54 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 3 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 19 | 3.54 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 9 | 3.54 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 3 | 3.54 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 6 | 3.54 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 17 | 3.54 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 6 | 3.54 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 15 | 3.54 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 11 | 3.54 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 14 | 3.54 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 17 | 3.54 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 19 | 3.54 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 4 | 3.54 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 5 | 3.54 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 9 | 3.54 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 10 | 3.54 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 13 | 3.54 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 16 | 3.54 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 20 | 3.54 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 6 | 3.54 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 6 | 3.54 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 6 | 3.54 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 6 | 3.54 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 16 | 3.54 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 17 | 3.54 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 17 | 3.54 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 17 | 3.54 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 13 | 3.54 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 11 | 3.54 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 15 | 3.54 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 6 | 3.54 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 6 | 3.54 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 6 | 3.54 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 3 | 3.54 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 6 | 3.54 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 11 | 3.54 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 17 | 3.54 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 3 | 3.54 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 3 | 3.54 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 3 | 3.54 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 3 | 3.54 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 3 | 3.54 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 3 | 3.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 6 | 3.54 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 6 | 3.54 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 6 | 3.54 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 6 | 3.54 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 6 | 3.54 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 6 | 3.54 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 13 | 3.54 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 13 | 3.54 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 13 | 3.54 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 20 | 3.54 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 7 | 3.54 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 7 | 3.54 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 7 | 3.54 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 7 | 3.54 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 7 | 3.54 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 13 | 3.54 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 9 | 3.54 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 9 | 3.54 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 13 | 3.53 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 11 | 3.53 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 11 | 3.53 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 14 | 3.53 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 14 | 3.53 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 7 | 3.53 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 7 | 3.53 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 7 | 3.53 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 7 | 3.53 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 11 | 3.53 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 11 | 3.53 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 19 | 3.53 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 19 | 3.53 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 11 | 3.53 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 11 | 3.53 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 11 | 3.53 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 11 | 3.53 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 11 | 3.53 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 11 | 3.53 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 18 | 3.53 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 18 | 3.53 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 18 | 3.53 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 18 | 3.53 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 18 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 18 | 3.53 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 6 | 3.53 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 6 | 3.53 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 3.53 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 3.53 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 3.53 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 3.53 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 3.53 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 3.53 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 12 | 3.53 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 12 | 3.53 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 12 | 3.53 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 12 | 3.53 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 19 | 3.53 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 19 | 3.53 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 19 | 3.53 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 19 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 18 | 3.53 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 18 | 3.53 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 7 | 3.53 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 7 | 3.53 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 2 | 3.53 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 2 | 3.53 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 2 | 3.53 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 2 | 3.53 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 2 | 3.53 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 2 | 3.53 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 3 | 3.53 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 3 | 3.53 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 3 | 3.53 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 3 | 3.53 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 3 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 3 | 3.53 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 13 | 3.53 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 13 | 3.53 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 13 | 3.53 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 13 | 3.53 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 1 | 3.53 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 1 | 3.53 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 2 | 3.53 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 2 | 3.53 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 2 | 3.53 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 2 | 3.53 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 2 | 3.53 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 2 | 3.53 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 15 | 3.53 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 15 | 3.53 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 15 | 3.53 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 15 | 3.53 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 15 | 3.53 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 15 | 3.53 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 18 | 3.53 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 18 | 3.53 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 19 | 3.53 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 19 | 3.53 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 1 | 3.53 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 1 | 3.53 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 1 | 3.53 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 1 | 3.53 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 3 | 3.53 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 3 | 3.53 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB2 | 4 | 3.53 |
| (1,8832) | 1:60:A:LEU:H | 1:61:A:LEU:HB3 | 4 | 3.53 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 12 | 3.53 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 12 | 3.53 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 18 | 3.53 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 18 | 3.53 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 17 | 3.53 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 17 | 3.53 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 17 | 3.53 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 17 | 3.53 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 8 | 3.53 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 8 | 3.53 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 15 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 15 | 3.53 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 20 | 3.53 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 20 | 3.53 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 4 | 3.53 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 4 | 3.53 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG21 | 17 | 3.53 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG22 | 17 | 3.53 |
| (1,8511) | 1:161:A:ARG:HA | 1:162:A:THR:HG23 | 17 | 3.53 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 3 | 3.53 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 3 | 3.53 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 3 | 3.53 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 13 | 3.53 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 13 | 3.53 |
| (1,8437) | 1:146:A:MET:H | 1:147:A:SER:H | 13 | 3.53 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 11 | 3.53 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 11 | 3.53 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 11 | 3.53 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 2 | 3.53 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB1 | 9 | 3.53 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB2 | 9 | 3.53 |
| (1,8363) | 1:136:A:ASP:HB2 | 1:137:A:ALA:HB3 | 9 | 3.53 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB1 | 9 | 3.53 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB2 | 9 | 3.53 |
| (1,8363) | 1:136:A:ASP:HB3 | 1:137:A:ALA:HB3 | 9 | 3.53 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 6 | 3.53 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 12 | 3.53 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 15 | 3.53 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 18 | 3.53 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 5 | 3.53 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 5 | 3.53 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 5 | 3.53 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB1 | 11 | 3.53 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB2 | 11 | 3.53 |
| (1,8203) | 1:105:A:SER:H | 1:107:A:ALA:HB3 | 11 | 3.53 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG2 | 10 | 3.53 |
| (1,8170) | 1:99:A:GLY:H | 1:100:A:GLU:HG3 | 10 | 3.53 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 20 | 3.53 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 1 | 3.53 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 4 | 3.53 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 16 | 3.53 |
| (1,7867) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 16 | 3.53 |
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 16 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7867) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 16 | 3.53 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 16 | 3.53 |
| (1,7867) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 16 | 3.53 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 2 | 3.53 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 16 | 3.53 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 13 | 3.53 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 19 | 3.53 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 8 | 3.53 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 8 | 3.53 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 8 | 3.53 |
| (1,7548) | 1:20:A:GLY:H | 1:21:A:ARG:HB2 | 18 | 3.53 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 13 | 3.53 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 13 | 3.53 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 16 | 3.53 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 16 | 3.53 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 5 | 3.53 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 1 | 3.53 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 5 | 3.53 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 5 | 3.53 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 5 | 3.53 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 5 | 3.53 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 5 | 3.53 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 5 | 3.53 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 19 | 3.53 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 19 | 3.53 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 19 | 3.53 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 19 | 3.53 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 19 | 3.53 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 19 | 3.53 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 8 | 3.53 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 8 | 3.53 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 16 | 3.53 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 12 | 3.53 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 12 | 3.53 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 12 | 3.53 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 3 | 3.53 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 3 | 3.53 |
| (1,7090) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 17 | 3.53 |
| (1,7090) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 17 | 3.53 |
| (1,7090) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 17 | 3.53 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 4 | 3.53 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 10 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 16 | 3.53 |
| (1,7019) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 14 | 3.53 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 4 | 3.53 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 7 | 3.53 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 2 | 3.53 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 5 | 3.53 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 5 | 3.53 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 5 | 3.53 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 18 | 3.53 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 18 | 3.53 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 18 | 3.53 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 7 | 3.53 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 10 | 3.53 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 17 | 3.53 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 19 | 3.53 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 15 | 3.53 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 5 | 3.53 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 11 | 3.53 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 5 | 3.53 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 3 | 3.53 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 14 | 3.53 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 8 | 3.53 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 8 | 3.53 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 8 | 3.53 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 10 | 3.53 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 19 | 3.53 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 19 | 3.53 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 19 | 3.53 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 18 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 6 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 6 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 6 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 6 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 6 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 6 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 6 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 6 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 6 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 17 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 17 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 17 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 17 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 17 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 17 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 17 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 17 | 3.53 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 17 | 3.53 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 13 | 3.53 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 1 | 3.53 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 1 | 3.53 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 1 | 3.53 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 18 | 3.53 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 12 | 3.53 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 3 | 3.53 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 3 | 3.53 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 17 | 3.53 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 17 | 3.53 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 4 | 3.53 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 4 | 3.53 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 4 | 3.53 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 4 | 3.53 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 4 | 3.53 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 4 | 3.53 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 4 | 3.53 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 4 | 3.53 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 4 | 3.53 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 2 | 3.53 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 9 | 3.53 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 5 | 3.53 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 12 | 3.53 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 8 | 3.53 |
| (1,5991) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 3 | 3.53 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 5 | 3.53 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 4 | 3.53 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 14 | 3.53 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 14 | 3.53 |
| (1,5905) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 14 | 3.53 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 19 | 3.53 |
| (1,5831) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 17 | 3.53 |
| (1,5831) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 17 | 3.53 |
| (1,5831) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 17 | 3.53 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 2 | 3.53 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 1 | 3.53 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 6 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 14 | 3.53 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 16 | 3.53 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 16 | 3.53 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 8 | 3.53 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 13 | 3.53 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 7 | 3.53 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 8 | 3.53 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 9 | 3.53 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 3 | 3.53 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 5 | 3.53 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 5 | 3.53 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 10 | 3.53 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 18 | 3.53 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 18 | 3.53 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 18 | 3.53 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 18 | 3.53 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 18 | 3.53 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 18 | 3.53 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 18 | 3.53 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 18 | 3.53 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 18 | 3.53 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 11 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 1 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 1 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 1 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 1 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 1 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 1 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 3 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 3 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 3 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 3 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 3 | 3.53 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 3 | 3.53 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 3 | 3.53 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 3 | 3.53 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 3 | 3.53 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 2 | 3.53 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 2 | 3.53 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 2 | 3.53 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 2 | 3.53 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 2 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 2 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 9 | 3.53 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 9 | 3.53 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 20 | 3.53 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 20 | 3.53 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 20 | 3.53 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 20 | 3.53 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 20 | 3.53 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 20 | 3.53 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 18 | 3.53 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 19 | 3.53 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 19 | 3.53 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 19 | 3.53 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 19 | 3.53 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 19 | 3.53 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 19 | 3.53 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 19 | 3.53 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 19 | 3.53 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 19 | 3.53 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 17 | 3.53 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 7 | 3.53 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 18 | 3.53 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 4 | 3.53 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 5 | 3.53 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 16 | 3.53 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 7 | 3.53 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 13 | 3.53 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 16 | 3.53 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 1 | 3.53 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 1 | 3.53 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 1 | 3.53 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 13 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 13 | 3.53 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 13 | 3.53 |
| (1,5036) | 1:74:A:ARG:H | 1:76:A:GLU:H | 9 | 3.53 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 1 | 3.53 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 1 | 3.53 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 1 | 3.53 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 6 | 3.53 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 11 | 3.53 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 18 | 3.53 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 18 | 3.53 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 18 | 3.53 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 9 | 3.53 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 9 | 3.53 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 9 | 3.53 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 19 | 3.53 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 19 | 3.53 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 19 | 3.53 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 3 | 3.53 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 3 | 3.53 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 3 | 3.53 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 6 | 3.53 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 6 | 3.53 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 6 | 3.53 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 18 | 3.53 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 18 | 3.53 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 18 | 3.53 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 18 | 3.53 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 7 | 3.53 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 7 | 3.53 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 7 | 3.53 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 18 | 3.53 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 18 | 3.53 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 18 | 3.53 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 5 | 3.53 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 19 | 3.53 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 20 | 3.53 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 19 | 3.53 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 19 | 3.53 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 19 | 3.53 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 15 | 3.53 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 20 | 3.53 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 20 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 20 | 3.53 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 9 | 3.53 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 8 | 3.53 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 8 | 3.53 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 8 | 3.53 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 17 | 3.53 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 18 | 3.53 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 12 | 3.53 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 12 | 3.53 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 12 | 3.53 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 1 | 3.53 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 17 | 3.53 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 11 | 3.53 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 11 | 3.53 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 11 | 3.53 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 11 | 3.53 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 19 | 3.53 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 19 | 3.53 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 11 | 3.53 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 11 | 3.53 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 11 | 3.53 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 11 | 3.53 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 11 | 3.53 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 11 | 3.53 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 9 | 3.53 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 9 | 3.53 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 9 | 3.53 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 9 | 3.53 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 9 | 3.53 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 9 | 3.53 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 6 | 3.53 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 6 | 3.53 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 3.53 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 3.53 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 3.53 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 3.53 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 3.53 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 3.53 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 11 | 3.53 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 11 | 3.53 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 12 | 3.53 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 12 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 12 | 3.53 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 12 | 3.53 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 19 | 3.53 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 19 | 3.53 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 19 | 3.53 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 19 | 3.53 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 7 | 3.53 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 7 | 3.53 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 2 | 3.53 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 2 | 3.53 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 2 | 3.53 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 2 | 3.53 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 2 | 3.53 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 2 | 3.53 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 3 | 3.53 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 3 | 3.53 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 3 | 3.53 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 3 | 3.53 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 3 | 3.53 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 3 | 3.53 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 1 | 3.53 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 1 | 3.53 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 1 | 3.53 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 1 | 3.53 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 1 | 3.53 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 1 | 3.53 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 3 | 3.53 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 13 | 3.53 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 13 | 3.53 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 13 | 3.53 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 13 | 3.53 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 13 | 3.53 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 11 | 3.53 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 19 | 3.53 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 2 | 3.53 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 2 | 3.53 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 2 | 3.53 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 2 | 3.53 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 2 | 3.53 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 2 | 3.53 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 18 | 3.53 |
| (1,4139) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 18 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 18 | 3.53 |
| (1,4139) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 18 | 3.53 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 18 | 3.53 |
| (1,4139) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 18 | 3.53 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 15 | 3.53 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 15 | 3.53 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 15 | 3.53 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 15 | 3.53 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 15 | 3.53 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 15 | 3.53 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 11 | 3.53 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 11 | 3.53 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 11 | 3.53 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 18 | 3.53 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 18 | 3.53 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 16 | 3.53 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 16 | 3.53 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 13 | 3.53 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 13 | 3.53 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 2 | 3.53 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 2 | 3.53 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 2 | 3.53 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 2 | 3.53 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 2 | 3.53 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 2 | 3.53 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 19 | 3.53 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 19 | 3.53 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 19 | 3.53 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 19 | 3.53 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 19 | 3.53 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 19 | 3.53 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 1 | 3.53 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 1 | 3.53 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 1 | 3.53 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 1 | 3.53 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 12 | 3.53 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 3 | 3.53 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 3 | 3.53 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 17 | 3.53 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 17 | 3.53 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 17 | 3.53 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 14 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 14 | 3.53 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 14 | 3.53 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 4 | 3.53 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 4 | 3.53 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 4 | 3.53 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 16 | 3.53 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 16 | 3.53 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 16 | 3.53 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 5 | 3.53 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 5 | 3.53 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 5 | 3.53 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 18 | 3.53 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 18 | 3.53 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 19 | 3.53 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 19 | 3.53 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 19 | 3.53 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 10 | 3.53 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 10 | 3.53 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 5 | 3.53 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 5 | 3.53 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 19 | 3.53 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 19 | 3.53 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 18 | 3.53 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 17 | 3.53 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 9 | 3.53 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 9 | 3.53 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 9 | 3.53 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 9 | 3.53 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 20 | 3.53 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 20 | 3.53 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 13 | 3.53 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 1 | 3.53 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 7 | 3.53 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 18 | 3.53 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 12 | 3.53 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 12 | 3.53 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 12 | 3.53 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 10 | 3.53 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 16 | 3.53 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 4 | 3.53 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 15 | 3.53 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 2 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 14 | 3.53 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 3 | 3.53 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 3 | 3.53 |
| (1,3162) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 17 | 3.53 |
| (1,3162) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 17 | 3.53 |
| (1,3162) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 17 | 3.53 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 4 | 3.53 |
| (1,3066) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 14 | 3.53 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 4 | 3.53 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 7 | 3.53 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 2 | 3.53 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 6 | 3.53 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 5 | 3.53 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 5 | 3.53 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 5 | 3.53 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 19 | 3.53 |
| (1,2928) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 15 | 3.53 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 18 | 3.53 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 18 | 3.53 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 18 | 3.53 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 18 | 3.53 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 7 | 3.53 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 7 | 3.53 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 15 | 3.53 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 10 | 3.53 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 17 | 3.53 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 13 | 3.53 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 13 | 3.53 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 19 | 3.53 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 1 | 3.53 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 1 | 3.53 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 1 | 3.53 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 11 | 3.53 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 5 | 3.53 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 19 | 3.53 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 3 | 3.53 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 16 | 3.53 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 5 | 3.53 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 17 | 3.53 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 4 | 3.53 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 14 | 3.53 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 17 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 1 | 3.53 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 3 | 3.53 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 14 | 3.53 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 3 | 3.53 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 9 | 3.53 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 8 | 3.53 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 8 | 3.53 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 8 | 3.53 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 10 | 3.53 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 19 | 3.53 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 19 | 3.53 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 19 | 3.53 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 18 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 6 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 6 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 6 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 6 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 6 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 6 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 6 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 6 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 6 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 17 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 17 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 17 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 17 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 17 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 17 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 17 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 17 | 3.53 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 17 | 3.53 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 11 | 3.53 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 13 | 3.53 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 17 | 3.53 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 9 | 3.53 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 9 | 3.53 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 9 | 3.53 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 5 | 3.53 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 5 | 3.53 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 5 | 3.53 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 1 | 3.53 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 1 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 1 | 3.53 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 18 | 3.53 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 4 | 3.53 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 14 | 3.53 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 14 | 3.53 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 14 | 3.53 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 12 | 3.53 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 3 | 3.53 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 3 | 3.53 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 17 | 3.53 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 17 | 3.53 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 4 | 3.53 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 4 | 3.53 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 4 | 3.53 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 4 | 3.53 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 4 | 3.53 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 4 | 3.53 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 4 | 3.53 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 4 | 3.53 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 4 | 3.53 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 20 | 3.53 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 9 | 3.53 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 6 | 3.53 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 5 | 3.53 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 12 | 3.53 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 12 | 3.53 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 12 | 3.53 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 12 | 3.53 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 12 | 3.53 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 12 | 3.53 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 12 | 3.53 |
| (1,1482) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 3 | 3.53 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 15 | 3.53 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 15 | 3.53 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 4 | 3.53 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 14 | 3.53 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 14 | 3.53 |
| (1,1322) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 14 | 3.53 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 19 | 3.53 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 3 | 3.53 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 3 | 3.53 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 3 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 3 | 3.53 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 3 | 3.53 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 3 | 3.53 |
| (1,1206) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 17 | 3.53 |
| (1,1206) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 17 | 3.53 |
| (1,1206) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 17 | 3.53 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 3 | 3.53 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 5 | 3.53 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 2 | 3.53 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 12 | 3.53 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 1 | 3.53 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 6 | 3.53 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 14 | 3.53 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 16 | 3.53 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 16 | 3.53 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 7 | 3.53 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 13 | 3.53 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 16 | 3.53 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 20 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 1 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 4 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 5 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 8 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 10 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 11 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 12 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 16 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 17 | 3.53 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 20 | 3.53 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 9 | 3.53 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 18 | 3.53 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 16 | 3.53 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 8 | 3.53 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 13 | 3.53 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 9 | 3.53 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 9 | 3.53 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 9 | 3.53 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 1 | 3.53 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 18 | 3.53 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 7 | 3.53 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 8 | 3.53 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 9 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 12 | 3.53 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 3 | 3.53 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 5 | 3.53 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 5 | 3.53 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 8 | 3.53 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 10 | 3.53 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 10 | 3.53 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 10 | 3.53 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 6 | 3.53 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 6 | 3.53 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 6 | 3.53 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 18 | 3.53 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 18 | 3.53 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 18 | 3.53 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 18 | 3.53 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 18 | 3.53 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 18 | 3.53 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 18 | 3.53 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 18 | 3.53 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 18 | 3.53 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 4 | 3.53 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 7 | 3.53 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 11 | 3.53 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 1 | 3.53 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 1 | 3.53 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 1 | 3.53 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 1 | 3.53 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 1 | 3.53 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 1 | 3.53 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 3 | 3.53 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 3 | 3.53 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 3 | 3.53 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 3 | 3.53 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 3 | 3.53 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 3 | 3.53 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 3.53 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 3.53 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 3.53 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 15 | 3.53 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 15 | 3.53 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 15 | 3.53 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 3 | 3.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 3 | 3.53 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 3 | 3.53 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 2 | 3.53 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 2 | 3.53 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 2 | 3.53 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 2 | 3.53 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 2 | 3.53 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 2 | 3.53 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 20 | 3.53 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 20 | 3.53 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 20 | 3.53 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 20 | 3.53 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 20 | 3.53 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 20 | 3.53 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 13 | 3.53 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 13 | 3.53 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 5 | 3.53 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 5 | 3.53 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 5 | 3.53 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 4 | 3.53 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 3 | 3.53 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 3 | 3.53 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 3 | 3.53 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 3 | 3.53 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 3 | 3.53 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 3 | 3.53 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 3 | 3.53 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 3 | 3.53 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 3 | 3.53 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 13 | 3.52 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 16 | 3.52 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 11 | 3.52 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 2 | 3.52 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 18 | 3.52 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 18 | 3.52 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 1 | 3.52 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 1 | 3.52 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 3 | 3.52 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 4 | 3.52 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 4 | 3.52 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 4 | 3.52 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 4 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 4 | 3.52 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 4 | 3.52 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 4 | 3.52 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 4 | 3.52 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 3 | 3.52 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 3 | 3.52 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 3 | 3.52 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 3 | 3.52 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 1 | 3.52 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 1 | 3.52 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 8 | 3.52 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 8 | 3.52 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 6 | 3.52 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 6 | 3.52 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 13 | 3.52 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 13 | 3.52 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 6 | 3.52 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 6 | 3.52 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 6 | 3.52 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 6 | 3.52 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 6 | 3.52 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 6 | 3.52 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 1 | 3.52 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 1 | 3.52 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 1 | 3.52 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 1 | 3.52 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 15 | 3.52 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 15 | 3.52 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 15 | 3.52 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 15 | 3.52 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 15 | 3.52 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 15 | 3.52 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 2 | 3.52 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 2 | 3.52 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 2 | 3.52 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 2 | 3.52 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 2 | 3.52 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 2 | 3.52 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 4 | 3.52 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 4 | 3.52 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 14 | 3.52 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 14 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 14 | 3.52 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 14 | 3.52 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 18 | 3.52 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 18 | 3.52 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 18 | 3.52 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 18 | 3.52 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 18 | 3.52 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 18 | 3.52 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 5 | 3.52 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 5 | 3.52 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 19 | 3.52 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 19 | 3.52 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 19 | 3.52 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 19 | 3.52 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 19 | 3.52 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 19 | 3.52 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 1 | 3.52 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 1 | 3.52 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 8 | 3.52 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 8 | 3.52 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 8 | 3.52 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 8 | 3.52 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 5 | 3.52 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 5 | 3.52 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 12 | 3.52 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 12 | 3.52 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 12 | 3.52 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 12 | 3.52 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 12 | 3.52 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 12 | 3.52 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 12 | 3.52 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 12 | 3.52 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 3 | 3.52 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 3 | 3.52 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 3 | 3.52 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 3 | 3.52 |
| (1,8678) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 17 | 3.52 |
| (1,8678) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 17 | 3.52 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 8 | 3.52 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 8 | 3.52 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 8 | 3.52 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 8 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 8 | 3.52 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 8 | 3.52 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 8 | 3.52 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 8 | 3.52 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 8 | 3.52 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 8 | 3.52 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 6 | 3.52 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 6 | 3.52 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 17 | 3.52 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 17 | 3.52 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 17 | 3.52 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 2 | 3.52 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 11 | 3.52 |
| (1,8377) | 1:137:A:ALA:H | 1:139:A:PHE:H | 19 | 3.52 |
| (1,8340) | 1:132:A:LYS:HA | 1:134:A:PHE:H | 8 | 3.52 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 19 | 3.52 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 1 | 3.52 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 1 | 3.52 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 1 | 3.52 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 1 | 3.52 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 1 | 3.52 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 1 | 3.52 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 14 | 3.52 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 14 | 3.52 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 14 | 3.52 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 14 | 3.52 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 14 | 3.52 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 14 | 3.52 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 15 | 3.52 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 3 | 3.52 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 1 | 3.52 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 1 | 3.52 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 1 | 3.52 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 8 | 3.52 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 8 | 3.52 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 8 | 3.52 |
| (1,7947) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 5 | 3.52 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 1 | 3.52 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 14 | 3.52 |
| (1,7846) | 1:61:A:LEU:HD11 | 1:157:A:HIS:H | 5 | 3.52 |
| (1,7846) | 1:61:A:LEU:HD12 | 1:157:A:HIS:H | 5 | 3.52 |
| (1,7846) | 1:61:A:LEU:HD13 | 1:157:A:HIS:H | 5 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 12 | 3.52 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 4 | 3.52 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 4 | 3.52 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 4 | 3.52 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 4 | 3.52 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 7 | 3.52 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 5 | 3.52 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 5 | 3.52 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 5 | 3.52 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 1 | 3.52 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 18 | 3.52 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 18 | 3.52 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 18 | 3.52 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 18 | 3.52 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 11 | 3.52 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 9 | 3.52 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 8 | 3.52 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 8 | 3.52 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 8 | 3.52 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 8 | 3.52 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 11 | 3.52 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 11 | 3.52 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 11 | 3.52 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 11 | 3.52 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 11 | 3.52 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 11 | 3.52 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 11 | 3.52 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 11 | 3.52 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 12 | 3.52 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 12 | 3.52 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 5 | 3.52 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 5 | 3.52 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 5 | 3.52 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 5 | 3.52 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 5 | 3.52 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 5 | 3.52 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 5 | 3.52 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 5 | 3.52 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 5 | 3.52 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 18 | 3.52 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 18 | 3.52 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 18 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 18 | 3.52 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 18 | 3.52 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 18 | 3.52 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 18 | 3.52 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 18 | 3.52 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 18 | 3.52 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 8 | 3.52 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 9 | 3.52 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 9 | 3.52 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 11 | 3.52 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 11 | 3.52 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 11 | 3.52 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 1 | 3.52 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 3 | 3.52 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 11 | 3.52 |
| (1,6946) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 16 | 3.52 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 17 | 3.52 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 4 | 3.52 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 4 | 3.52 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 4 | 3.52 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 3 | 3.52 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 7 | 3.52 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 7 | 3.52 |
| (1,6860) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 7 | 3.52 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 20 | 3.52 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 13 | 3.52 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 13 | 3.52 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 13 | 3.52 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 15 | 3.52 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 19 | 3.52 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 19 | 3.52 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 1 | 3.52 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 7 | 3.52 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 11 | 3.52 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 8 | 3.52 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 8 | 3.52 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 8 | 3.52 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 1 | 3.52 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 19 | 3.52 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 17 | 3.52 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 2 | 3.52 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 18 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 8 | 3.52 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 4 | 3.52 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 14 | 3.52 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 5 | 3.52 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 16 | 3.52 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 10 | 3.52 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 10 | 3.52 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 10 | 3.52 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 18 | 3.52 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 18 | 3.52 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 18 | 3.52 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 5 | 3.52 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 5 | 3.52 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 5 | 3.52 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 2 | 3.52 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 2 | 3.52 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 2 | 3.52 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 5 | 3.52 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 13 | 3.52 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 13 | 3.52 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 13 | 3.52 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 9 | 3.52 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 9 | 3.52 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 9 | 3.52 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 18 | 3.52 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 18 | 3.52 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 18 | 3.52 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 3 | 3.52 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 3 | 3.52 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 3 | 3.52 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 3 | 3.52 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 3 | 3.52 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 3 | 3.52 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 3 | 3.52 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 3 | 3.52 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 3 | 3.52 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 11 | 3.52 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 11 | 3.52 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 11 | 3.52 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 4 | 3.52 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 4 | 3.52 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 4 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 7 | 3.52 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 4 | 3.52 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 19 | 3.52 |
| (1,6128) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 8 | 3.52 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 4 | 3.52 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 4 | 3.52 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 4 | 3.52 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 11 | 3.52 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 11 | 3.52 |
| (1,6124) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 11 | 3.52 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 7 | 3.52 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 9 | 3.52 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 11 | 3.52 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 16 | 3.52 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 16 | 3.52 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 16 | 3.52 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 16 | 3.52 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 19 | 3.52 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 17 | 3.52 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 1 | 3.52 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 1 | 3.52 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 2 | 3.52 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 13 | 3.52 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 9 | 3.52 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 10 | 3.52 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 17 | 3.52 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 12 | 3.52 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 17 | 3.52 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 8 | 3.52 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 15 | 3.52 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 17 | 3.52 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 17 | 3.52 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 17 | 3.52 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 17 | 3.52 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 17 | 3.52 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 17 | 3.52 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 17 | 3.52 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 17 | 3.52 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 7 | 3.52 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 7 | 3.52 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 7 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 18 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 18 | 3.52 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 18 | 3.52 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 10 | 3.52 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 4 | 3.52 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 4 | 3.52 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 4 | 3.52 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 1 | 3.52 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 5 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 7 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 7 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 7 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 7 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 7 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 7 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 7 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 7 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 7 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 15 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 15 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 15 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 15 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 15 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 15 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 15 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 15 | 3.52 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 15 | 3.52 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 16 | 3.52 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 10 | 3.52 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 15 | 3.52 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 17 | 3.52 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 5 | 3.52 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 5 | 3.52 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 5 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 11 | 3.52 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 11 | 3.52 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 11 | 3.52 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 17 | 3.52 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 17 | 3.52 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 17 | 3.52 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 16 | 3.52 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 6 | 3.52 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 12 | 3.52 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 13 | 3.52 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 13 | 3.52 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 13 | 3.52 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 4 | 3.52 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 10 | 3.52 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 17 | 3.52 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 17 | 3.52 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 17 | 3.52 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 16 | 3.52 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 17 | 3.52 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 17 | 3.52 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 17 | 3.52 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 4 | 3.52 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 4 | 3.52 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 4 | 3.52 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 8 | 3.52 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 11 | 3.52 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 16 | 3.52 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 20 | 3.52 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 20 | 3.52 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 20 | 3.52 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 14 | 3.52 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 15 | 3.52 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 9 | 3.52 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 9 | 3.52 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 14 | 3.52 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 14 | 3.52 |
| (1,4644) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 14 | 3.52 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.52 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 8 | 3.52 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 8 | 3.52 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 4 | 3.52 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 4 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 4 | 3.52 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 4 | 3.52 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 4 | 3.52 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 4 | 3.52 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 15 | 3.52 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 2 | 3.52 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 16 | 3.52 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 16 | 3.52 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 1 | 3.52 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 1 | 3.52 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 19 | 3.52 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 19 | 3.52 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 8 | 3.52 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 8 | 3.52 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 6 | 3.52 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 6 | 3.52 |
| (1,4334) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 16 | 3.52 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 13 | 3.52 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 13 | 3.52 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 13 | 3.52 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 11 | 3.52 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 11 | 3.52 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 11 | 3.52 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 1 | 3.52 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 5 | 3.52 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 10 | 3.52 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 10 | 3.52 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 6 | 3.52 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 6 | 3.52 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 6 | 3.52 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 6 | 3.52 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 6 | 3.52 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 6 | 3.52 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 3 | 3.52 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 3 | 3.52 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 3 | 3.52 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 3 | 3.52 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 15 | 3.52 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 15 | 3.52 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 15 | 3.52 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 15 | 3.52 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 15 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 15 | 3.52 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 3.52 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 3.52 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 3.52 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 3.52 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 3.52 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 3.52 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 18 | 3.52 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 2 | 3.52 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 2 | 3.52 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 2 | 3.52 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 2 | 3.52 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 2 | 3.52 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 2 | 3.52 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 13 | 3.52 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 13 | 3.52 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 13 | 3.52 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 13 | 3.52 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 13 | 3.52 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 13 | 3.52 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 12 | 3.52 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 4 | 3.52 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 4 | 3.52 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 14 | 3.52 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 14 | 3.52 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 14 | 3.52 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 14 | 3.52 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 5 | 3.52 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 5 | 3.52 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 13 | 3.52 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 3.52 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 3.52 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 3.52 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 1 | 3.52 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 1 | 3.52 |
| (1,3803) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 1 | 3.52 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 16 | 3.52 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 18 | 3.52 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 18 | 3.52 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 18 | 3.52 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 15 | 3.52 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 17 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 12 | 3.52 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 12 | 3.52 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 12 | 3.52 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 12 | 3.52 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 12 | 3.52 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 12 | 3.52 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 3 | 3.52 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 3 | 3.52 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 3 | 3.52 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 3 | 3.52 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 9 | 3.52 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 9 | 3.52 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 9 | 3.52 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 9 | 3.52 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 9 | 3.52 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 9 | 3.52 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 14 | 3.52 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 16 | 3.52 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 14 | 3.52 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 14 | 3.52 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 15 | 3.52 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 15 | 3.52 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 15 | 3.52 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 15 | 3.52 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 3.52 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 3.52 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 8 | 3.52 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 8 | 3.52 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 8 | 3.52 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 8 | 3.52 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 8 | 3.52 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 8 | 3.52 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 3 | 3.52 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 3 | 3.52 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 6 | 3.52 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 6 | 3.52 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 15 | 3.52 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 8 | 3.52 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 8 | 3.52 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 5 | 3.52 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 5 | 3.52 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 5 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 5 | 3.52 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 5 | 3.52 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 5 | 3.52 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 5 | 3.52 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 5 | 3.52 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 5 | 3.52 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 18 | 3.52 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 18 | 3.52 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 18 | 3.52 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 18 | 3.52 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 18 | 3.52 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 18 | 3.52 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 18 | 3.52 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 18 | 3.52 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 18 | 3.52 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 6 | 3.52 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 15 | 3.52 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 1 | 3.52 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 7 | 3.52 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 13 | 3.52 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 17 | 3.52 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 19 | 3.52 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 8 | 3.52 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 8 | 3.52 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 20 | 3.52 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 7 | 3.52 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 3 | 3.52 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 16 | 3.52 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 9 | 3.52 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 9 | 3.52 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 17 | 3.52 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 1 | 3.52 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 3 | 3.52 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 9 | 3.52 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 11 | 3.52 |
| (1,2966) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 16 | 3.52 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 17 | 3.52 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 4 | 3.52 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 4 | 3.52 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 4 | 3.52 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 7 | 3.52 |
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 7 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2850) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 7 | 3.52 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 20 | 3.52 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 13 | 3.52 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 13 | 3.52 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 13 | 3.52 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 15 | 3.52 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 4 | 3.52 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 4 | 3.52 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 4 | 3.52 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 4 | 3.52 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 4 | 3.52 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 4 | 3.52 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 19 | 3.52 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 19 | 3.52 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 1 | 3.52 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 7 | 3.52 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 11 | 3.52 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 1 | 3.52 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 11 | 3.52 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 8 | 3.52 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 8 | 3.52 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 8 | 3.52 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 20 | 3.52 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 1 | 3.52 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 19 | 3.52 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 12 | 3.52 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 10 | 3.52 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 17 | 3.52 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 8 | 3.52 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 2 | 3.52 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 18 | 3.52 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 14 | 3.52 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 8 | 3.52 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 6 | 3.52 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 4 | 3.52 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 14 | 3.52 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 5 | 3.52 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 16 | 3.52 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 10 | 3.52 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 10 | 3.52 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 10 | 3.52 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 18 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 18 | 3.52 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 18 | 3.52 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 5 | 3.52 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 16 | 3.52 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 16 | 3.52 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 16 | 3.52 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 16 | 3.52 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 5 | 3.52 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 5 | 3.52 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 5 | 3.52 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 2 | 3.52 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 2 | 3.52 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 2 | 3.52 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 5 | 3.52 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 16 | 3.52 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 13 | 3.52 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 13 | 3.52 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 13 | 3.52 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 9 | 3.52 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 9 | 3.52 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 9 | 3.52 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 18 | 3.52 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 18 | 3.52 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 18 | 3.52 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 3 | 3.52 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 3 | 3.52 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 3 | 3.52 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 3 | 3.52 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 3 | 3.52 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 3 | 3.52 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 3 | 3.52 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 3 | 3.52 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 3 | 3.52 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 11 | 3.52 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 11 | 3.52 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 11 | 3.52 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 4 | 3.52 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 4 | 3.52 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 4 | 3.52 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 7 | 3.52 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 4 | 3.52 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 19 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 9 | 3.52 |
| (1,1718) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 8 | 3.52 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 4 | 3.52 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 4 | 3.52 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 4 | 3.52 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 11 | 3.52 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 11 | 3.52 |
| (1,1712) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 11 | 3.52 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 8 | 3.52 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 8 | 3.52 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 8 | 3.52 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 7 | 3.52 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 9 | 3.52 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 11 | 3.52 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 16 | 3.52 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 16 | 3.52 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 16 | 3.52 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 10 | 3.52 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 16 | 3.52 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 17 | 3.52 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 1 | 3.52 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 1 | 3.52 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 2 | 3.52 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 13 | 3.52 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 20 | 3.52 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 9 | 3.52 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 3 | 3.52 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 10 | 3.52 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 17 | 3.52 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 4 | 3.52 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 15 | 3.52 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 20 | 3.52 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 18 | 3.52 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 4 | 3.52 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 4 | 3.52 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 5 | 3.52 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 10 | 3.52 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 12 | 3.52 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 2 | 3.52 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 3 | 3.52 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 7 | 3.52 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 13 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 14 | 3.52 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 15 | 3.52 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 19 | 3.52 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 7 | 3.52 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 12 | 3.52 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 12 | 3.52 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 17 | 3.52 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 8 | 3.52 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 15 | 3.52 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 14 | 3.52 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 14 | 3.52 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 14 | 3.52 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 17 | 3.52 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 17 | 3.52 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 17 | 3.52 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 17 | 3.52 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 17 | 3.52 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 17 | 3.52 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 5 | 3.52 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 5 | 3.52 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 5 | 3.52 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 17 | 3.52 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 17 | 3.52 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 16 | 3.52 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 16 | 3.52 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 7 | 3.52 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 7 | 3.52 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 7 | 3.52 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 7 | 3.52 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 7 | 3.52 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 5 | 3.52 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 17 | 3.52 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 1 | 3.52 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 1 | 3.52 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 15 | 3.52 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 7 | 3.52 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 1 | 3.52 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 4 | 3.52 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 9 | 3.52 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 10 | 3.52 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 14 | 3.52 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 15 | 3.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 1 | 3.52 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 11 | 3.52 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 18 | 3.52 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 18 | 3.52 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 9 | 3.52 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 9 | 3.52 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 9 | 3.52 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 8 | 3.51 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 5 | 3.51 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 20 | 3.51 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 5 | 3.51 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 5 | 3.51 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 5 | 3.51 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 5 | 3.51 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 5 | 3.51 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 5 | 3.51 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 6 | 3.51 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 6 | 3.51 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 14 | 3.51 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 14 | 3.51 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 14 | 3.51 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 14 | 3.51 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 12 | 3.51 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 12 | 3.51 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 9 | 3.51 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 9 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 4 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 4 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 4 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 4 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 4 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 4 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 7 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 7 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 7 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 7 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 7 | 3.51 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 7 | 3.51 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 15 | 3.51 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 15 | 3.51 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 7 | 3.51 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 7 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 18 | 3.51 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 18 | 3.51 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 2 | 3.51 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 2 | 3.51 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 2 | 3.51 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 2 | 3.51 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 2 | 3.51 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 2 | 3.51 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 11 | 3.51 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 11 | 3.51 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 3 | 3.51 |
| (1,9102) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 3 | 3.51 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 3 | 3.51 |
| (1,9102) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 3 | 3.51 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 3 | 3.51 |
| (1,9102) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 3 | 3.51 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 13 | 3.51 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 13 | 3.51 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 13 | 3.51 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 13 | 3.51 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 13 | 3.51 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 13 | 3.51 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 6 | 3.51 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 6 | 3.51 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 12 | 3.51 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 12 | 3.51 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 12 | 3.51 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 12 | 3.51 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 12 | 3.51 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 12 | 3.51 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 9 | 3.51 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 9 | 3.51 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 19 | 3.51 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 19 | 3.51 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 5 | 3.51 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 5 | 3.51 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 5 | 3.51 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 5 | 3.51 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 5 | 3.51 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 5 | 3.51 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 19 | 3.51 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 19 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 16 | 3.51 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 16 | 3.51 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 16 | 3.51 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 16 | 3.51 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 11 | 3.51 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 11 | 3.51 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 11 | 3.51 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 11 | 3.51 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 13 | 3.51 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 13 | 3.51 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 13 | 3.51 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 13 | 3.51 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 9 | 3.51 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 9 | 3.51 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 9 | 3.51 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 9 | 3.51 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 17 | 3.51 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 17 | 3.51 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 17 | 3.51 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 17 | 3.51 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 17 | 3.51 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 17 | 3.51 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 16 | 3.51 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 16 | 3.51 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 16 | 3.51 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 16 | 3.51 |
| (1,8627) | 1:15:A:MET:HG2 | 1:23:A:TYR:H | 19 | 3.51 |
| (1,8627) | 1:15:A:MET:HG3 | 1:23:A:TYR:H | 19 | 3.51 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 20 | 3.51 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 20 | 3.51 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 20 | 3.51 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 20 | 3.51 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 10 | 3.51 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 10 | 3.51 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 10 | 3.51 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 10 | 3.51 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 18 | 3.51 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 18 | 3.51 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 18 | 3.51 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 18 | 3.51 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 18 | 3.51 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 18 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 12 | 3.51 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 12 | 3.51 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 12 | 3.51 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 12 | 3.51 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 12 | 3.51 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 12 | 3.51 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 9 | 3.51 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 9 | 3.51 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 9 | 3.51 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 19 | 3.51 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 2 | 3.51 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 2 | 3.51 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 2 | 3.51 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 6 | 3.51 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 6 | 3.51 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 6 | 3.51 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 6 | 3.51 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 6 | 3.51 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 6 | 3.51 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG21 | 2 | 3.51 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG22 | 2 | 3.51 |
| (1,8366) | 1:137:A:ALA:H | 1:150:A:VAL:HG23 | 2 | 3.51 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 4 | 3.51 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 4 | 3.51 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 8 | 3.51 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 1 | 3.51 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 2 | 3.51 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 2 | 3.51 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 2 | 3.51 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 3 | 3.51 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 8 | 3.51 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 11 | 3.51 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 11 | 3.51 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 11 | 3.51 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 1 | 3.51 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 1 | 3.51 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB2 | 18 | 3.51 |
| (1,7708) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HB3 | 18 | 3.51 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB2 | 18 | 3.51 |
| (1,7708) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HB3 | 18 | 3.51 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 10 | 3.51 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 15 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 19 | 3.51 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 3 | 3.51 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 20 | 3.51 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 20 | 3.51 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 20 | 3.51 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 14 | 3.51 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 4 | 3.51 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 10 | 3.51 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 10 | 3.51 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 3 | 3.51 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 3 | 3.51 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 6 | 3.51 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 6 | 3.51 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 15 | 3.51 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 6 | 3.51 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 18 | 3.51 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 18 | 3.51 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 17 | 3.51 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 17 | 3.51 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 12 | 3.51 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 13 | 3.51 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 11 | 3.51 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 11 | 3.51 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 20 | 3.51 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 20 | 3.51 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 16 | 3.51 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 13 | 3.51 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 6 | 3.51 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 2 | 3.51 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 2 | 3.51 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 2 | 3.51 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 6 | 3.51 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 3 | 3.51 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 2 | 3.51 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 10 | 3.51 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 10 | 3.51 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 10 | 3.51 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 11 | 3.51 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 11 | 3.51 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 11 | 3.51 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 2 | 3.51 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 20 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 11 | 3.51 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 11 | 3.51 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 11 | 3.51 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 12 | 3.51 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 8 | 3.51 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 8 | 3.51 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 8 | 3.51 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 4 | 3.51 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 20 | 3.51 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 20 | 3.51 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 13 | 3.51 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 1 | 3.51 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 11 | 3.51 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 17 | 3.51 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 9 | 3.51 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 7 | 3.51 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 7 | 3.51 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 7 | 3.51 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 10 | 3.51 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 10 | 3.51 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 10 | 3.51 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 10 | 3.51 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 10 | 3.51 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 10 | 3.51 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 10 | 3.51 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 10 | 3.51 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 10 | 3.51 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 14 | 3.51 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 14 | 3.51 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 16 | 3.51 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 12 | 3.51 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 19 | 3.51 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 13 | 3.51 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 9 | 3.51 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 9 | 3.51 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 9 | 3.51 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 15 | 3.51 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 15 | 3.51 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 15 | 3.51 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 15 | 3.51 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 15 | 3.51 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 15 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 8 | 3.51 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 6 | 3.51 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 6 | 3.51 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 6 | 3.51 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 6 | 3.51 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 17 | 3.51 |
| (1,5670) | 1:105:A:SER:HA | 1:108:A:SER:H | 1 | 3.51 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 13 | 3.51 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 13 | 3.51 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 13 | 3.51 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 1 | 3.51 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 20 | 3.51 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 20 | 3.51 |
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 20 | 3.51 |
| (1,5606) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 11 | 3.51 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 15 | 3.51 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 15 | 3.51 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 15 | 3.51 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 16 | 3.51 |
| (1,5436) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 16 | 3.51 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 16 | 3.51 |
| (1,5436) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 16 | 3.51 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 16 | 3.51 |
| (1,5436) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 16 | 3.51 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 11 | 3.51 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 11 | 3.51 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 11 | 3.51 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 4 | 3.51 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 4 | 3.51 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 4 | 3.51 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 4 | 3.51 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 4 | 3.51 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 4 | 3.51 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 4 | 3.51 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 4 | 3.51 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 4 | 3.51 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 1 | 3.51 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 7 | 3.51 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 5 | 3.51 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 5 | 3.51 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 5 | 3.51 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 5 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 5 | 3.51 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 5 | 3.51 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 5 | 3.51 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 5 | 3.51 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 5 | 3.51 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 10 | 3.51 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 10 | 3.51 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 19 | 3.51 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 19 | 3.51 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 12 | 3.51 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 12 | 3.51 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 12 | 3.51 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 16 | 3.51 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 9 | 3.51 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 9 | 3.51 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 9 | 3.51 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 10 | 3.51 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 13 | 3.51 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 20 | 3.51 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 20 | 3.51 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 20 | 3.51 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 11 | 3.51 |
| (1,4640) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 7 | 3.51 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 18 | 3.51 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 1 | 3.51 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 18 | 3.51 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 18 | 3.51 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 14 | 3.51 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 17 | 3.51 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 17 | 3.51 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 1 | 3.51 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 1 | 3.51 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 12 | 3.51 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 12 | 3.51 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 17 | 3.51 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 15 | 3.51 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 15 | 3.51 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 4 | 3.51 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 7 | 3.51 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 7 | 3.51 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 18 | 3.51 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 18 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 19 | 3.51 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 19 | 3.51 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 19 | 3.51 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 19 | 3.51 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 19 | 3.51 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 19 | 3.51 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 2 | 3.51 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 2 | 3.51 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 2 | 3.51 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 2 | 3.51 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 2 | 3.51 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 2 | 3.51 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 14 | 3.51 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 14 | 3.51 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 14 | 3.51 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 14 | 3.51 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 14 | 3.51 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 14 | 3.51 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 7 | 3.51 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 16 | 3.51 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 16 | 3.51 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 16 | 3.51 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 3 | 3.51 |
| (1,4072) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 3 | 3.51 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 3 | 3.51 |
| (1,4072) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 3 | 3.51 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 3 | 3.51 |
| (1,4072) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 3 | 3.51 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 9 | 3.51 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 9 | 3.51 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 19 | 3.51 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 19 | 3.51 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 18 | 3.51 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 12 | 3.51 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 16 | 3.51 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 16 | 3.51 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 16 | 3.51 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 16 | 3.51 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 16 | 3.51 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 16 | 3.51 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 19 | 3.51 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 19 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 1 | 3.51 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 8 | 3.51 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 14 | 3.51 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 17 | 3.51 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 17 | 3.51 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 17 | 3.51 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 17 | 3.51 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 17 | 3.51 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 17 | 3.51 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 3.51 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 3.51 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 3.51 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 17 | 3.51 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 17 | 3.51 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 17 | 3.51 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 17 | 3.51 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 17 | 3.51 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 17 | 3.51 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 2 | 3.51 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 2 | 3.51 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 2 | 3.51 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 2 | 3.51 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 10 | 3.51 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 10 | 3.51 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 9 | 3.51 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 5 | 3.51 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 10 | 3.51 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 10 | 3.51 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 10 | 3.51 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 10 | 3.51 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 4 | 3.51 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 4 | 3.51 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 14 | 3.51 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 14 | 3.51 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 14 | 3.51 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 18 | 3.51 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 18 | 3.51 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 18 | 3.51 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 18 | 3.51 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 18 | 3.51 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 18 | 3.51 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 6 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 17 | 3.51 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 18 | 3.51 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 2 | 3.51 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 10 | 3.51 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 18 | 3.51 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 18 | 3.51 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 17 | 3.51 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 17 | 3.51 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 16 | 3.51 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 17 | 3.51 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 12 | 3.51 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 8 | 3.51 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 16 | 3.51 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 11 | 3.51 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 14 | 3.51 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 11 | 3.51 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 20 | 3.51 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 20 | 3.51 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 16 | 3.51 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 11 | 3.51 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 13 | 3.51 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 4 | 3.51 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 9 | 3.51 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 9 | 3.51 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 9 | 3.51 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 6 | 3.51 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 2 | 3.51 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 2 | 3.51 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 2 | 3.51 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 5 | 3.51 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 3.51 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 5 | 3.51 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 6 | 3.51 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 3 | 3.51 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 2 | 3.51 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 10 | 3.51 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 10 | 3.51 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 10 | 3.51 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 10 | 3.51 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 13 | 3.51 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 11 | 3.51 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 11 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 11 | 3.51 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 16 | 3.51 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 2 | 3.51 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 20 | 3.51 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 1 | 3.51 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 1 | 3.51 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 1 | 3.51 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 13 | 3.51 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 1 | 3.51 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 15 | 3.51 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 11 | 3.51 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 11 | 3.51 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 11 | 3.51 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 12 | 3.51 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 8 | 3.51 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 8 | 3.51 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 8 | 3.51 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 4 | 3.51 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 9 | 3.51 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 1 | 3.51 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 12 | 3.51 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 12 | 3.51 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 12 | 3.51 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 10 | 3.51 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 10 | 3.51 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 10 | 3.51 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 20 | 3.51 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 20 | 3.51 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 1 | 3.51 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 1 | 3.51 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 1 | 3.51 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 12 | 3.51 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 13 | 3.51 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 16 | 3.51 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 1 | 3.51 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 11 | 3.51 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 17 | 3.51 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 10 | 3.51 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 10 | 3.51 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 10 | 3.51 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 11 | 3.51 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 11 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 11 | 3.51 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 9 | 3.51 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 7 | 3.51 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 7 | 3.51 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 7 | 3.51 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 1 | 3.51 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 10 | 3.51 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 10 | 3.51 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 10 | 3.51 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 10 | 3.51 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 10 | 3.51 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 10 | 3.51 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 10 | 3.51 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 10 | 3.51 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 10 | 3.51 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 14 | 3.51 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 14 | 3.51 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 12 | 3.51 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 12 | 3.51 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 12 | 3.51 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 16 | 3.51 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 9 | 3.51 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 9 | 3.51 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 9 | 3.51 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 12 | 3.51 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 6 | 3.51 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 8 | 3.51 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 12 | 3.51 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 16 | 3.51 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 3 | 3.51 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 19 | 3.51 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 13 | 3.51 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 15 | 3.51 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 15 | 3.51 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 15 | 3.51 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 15 | 3.51 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 15 | 3.51 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 15 | 3.51 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 5 | 3.51 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 15 | 3.51 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 8 | 3.51 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 5 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 8 | 3.51 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 19 | 3.51 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 6 | 3.51 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 6 | 3.51 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 6 | 3.51 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 5 | 3.51 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 19 | 3.51 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 18 | 3.51 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 12 | 3.51 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 1 | 3.51 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 6 | 3.51 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 9 | 3.51 |
| (1,1070) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 18 | 3.51 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 6 | 3.51 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 17 | 3.51 |
| (1,924) | 1:105:A:SER:HA | 1:108:A:SER:H | 1 | 3.51 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 3 | 3.51 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 5 | 3.51 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 13 | 3.51 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 13 | 3.51 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 13 | 3.51 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 1 | 3.51 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 20 | 3.51 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 20 | 3.51 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 20 | 3.51 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 17 | 3.51 |
| (1,792) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 11 | 3.51 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 10 | 3.51 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 7 | 3.51 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 2 | 3.51 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 6 | 3.51 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 6 | 3.51 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 17 | 3.51 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 1 | 3.51 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 12 | 3.51 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 15 | 3.51 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 15 | 3.51 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 15 | 3.51 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 13 | 3.51 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 16 | 3.51 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 16 | 3.51 |
| (1,526) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 16 | 3.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 16 | 3.51 |
| (1,526) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 16 | 3.51 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 16 | 3.51 |
| (1,526) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 16 | 3.51 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 2 | 3.51 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 2 | 3.51 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 2 | 3.51 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 2 | 3.51 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 2 | 3.51 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 2 | 3.51 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 13 | 3.5 |
| (1,9614) | 1:159:A:ILE:HG12 | 1:160:A:LEU:H | 5 | 3.5 |
| (1,9614) | 1:159:A:ILE:HG13 | 1:160:A:LEU:H | 5 | 3.5 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 13 | 3.5 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 13 | 3.5 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 13 | 3.5 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 13 | 3.5 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 13 | 3.5 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 13 | 3.5 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 20 | 3.5 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 20 | 3.5 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 20 | 3.5 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 20 | 3.5 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 20 | 3.5 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 20 | 3.5 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 4 | 3.5 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 4 | 3.5 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 16 | 3.5 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 16 | 3.5 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 16 | 3.5 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 16 | 3.5 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 16 | 3.5 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 16 | 3.5 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 5 | 3.5 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 5 | 3.5 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 15 | 3.5 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 15 | 3.5 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 4 | 3.5 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 4 | 3.5 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB1 | 3 | 3.5 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB2 | 3 | 3.5 |
| (1,9398) | 1:123:A:GLY:HA2 | 1:124:A:ALA:HB3 | 3 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB1 | 3 | 3.5 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB2 | 3 | 3.5 |
| (1,9398) | 1:123:A:GLY:HA3 | 1:124:A:ALA:HB3 | 3 | 3.5 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 4 | 3.5 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 4 | 3.5 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 9 | 3.5 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 9 | 3.5 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 9 | 3.5 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 9 | 3.5 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 16 | 3.5 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 16 | 3.5 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 16 | 3.5 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 16 | 3.5 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 7 | 3.5 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 7 | 3.5 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 9 | 3.5 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 9 | 3.5 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 12 | 3.5 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 12 | 3.5 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 12 | 3.5 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 12 | 3.5 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 12 | 3.5 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 12 | 3.5 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 13 | 3.5 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 13 | 3.5 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 10 | 3.5 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 10 | 3.5 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 17 | 3.5 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 17 | 3.5 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 6 | 3.5 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 6 | 3.5 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 20 | 3.5 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 3.5 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 20 | 3.5 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 3.5 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 20 | 3.5 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 3.5 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 3 | 3.5 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 3 | 3.5 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 3.5 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 3.5 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 18 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 18 | 3.5 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 18 | 3.5 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 18 | 3.5 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 17 | 3.5 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 17 | 3.5 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 1 | 3.5 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 1 | 3.5 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 1 | 3.5 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 1 | 3.5 |
| (1,8540) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 8 | 3.5 |
| (1,8540) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 8 | 3.5 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 13 | 3.5 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 13 | 3.5 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 6 | 3.5 |
| (1,8404) | 1:141:A:LEU:HD21 | 1:142:A:ARG:H | 12 | 3.5 |
| (1,8404) | 1:141:A:LEU:HD22 | 1:142:A:ARG:H | 12 | 3.5 |
| (1,8404) | 1:141:A:LEU:HD23 | 1:142:A:ARG:H | 12 | 3.5 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 4 | 3.5 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 4 | 3.5 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 4 | 3.5 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 9 | 3.5 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 20 | 3.5 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 8 | 3.5 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 7 | 3.5 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 7 | 3.5 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 7 | 3.5 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 13 | 3.5 |
| (1,7978) | 1:78:A:ILE:HG21 | 1:79:A:THR:HA | 19 | 3.5 |
| (1,7978) | 1:78:A:ILE:HG22 | 1:79:A:THR:HA | 19 | 3.5 |
| (1,7978) | 1:78:A:ILE:HG23 | 1:79:A:THR:HA | 19 | 3.5 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 15 | 3.5 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 3 | 3.5 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 3 | 3.5 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 3 | 3.5 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 3 | 3.5 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 8 | 3.5 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 17 | 3.5 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 17 | 3.5 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 18 | 3.5 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 18 | 3.5 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 18 | 3.5 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 18 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 18 | 3.5 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 18 | 3.5 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 6 | 3.5 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 6 | 3.5 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 14 | 3.5 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 14 | 3.5 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 14 | 3.5 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 11 | 3.5 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 2 | 3.5 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 11 | 3.5 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 8 | 3.5 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 8 | 3.5 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 8 | 3.5 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 3 | 3.5 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 18 | 3.5 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 12 | 3.5 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 12 | 3.5 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 12 | 3.5 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 12 | 3.5 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 7 | 3.5 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 2 | 3.5 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 2 | 3.5 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 3 | 3.5 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 3 | 3.5 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 16 | 3.5 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 16 | 3.5 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 5 | 3.5 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 2 | 3.5 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 11 | 3.5 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 11 | 3.5 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 12 | 3.5 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 1 | 3.5 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 10 | 3.5 |
| (1,7013) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 20 | 3.5 |
| (1,7013) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 20 | 3.5 |
| (1,7013) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 20 | 3.5 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 10 | 3.5 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 14 | 3.5 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 18 | 3.5 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 2 | 3.5 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 2 | 3.5 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 2 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 19 | 3.5 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 4 | 3.5 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 4 | 3.5 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 4 | 3.5 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 7 | 3.5 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 7 | 3.5 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 7 | 3.5 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 7 | 3.5 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 12 | 3.5 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 12 | 3.5 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 6 | 3.5 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 6 | 3.5 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 6 | 3.5 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 6 | 3.5 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 6 | 3.5 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 6 | 3.5 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 6 | 3.5 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 6 | 3.5 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 6 | 3.5 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 13 | 3.5 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 13 | 3.5 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 13 | 3.5 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 13 | 3.5 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 13 | 3.5 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 13 | 3.5 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 13 | 3.5 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 13 | 3.5 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 13 | 3.5 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 17 | 3.5 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 17 | 3.5 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 17 | 3.5 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 17 | 3.5 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 17 | 3.5 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 17 | 3.5 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 17 | 3.5 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 17 | 3.5 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 17 | 3.5 |
| (1,6696) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 11 | 3.5 |
| (1,6696) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 11 | 3.5 |
| (1,6696) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 11 | 3.5 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 5 | 3.5 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 12 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 11 | 3.5 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 18 | 3.5 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 1 | 3.5 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 2 | 3.5 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 6 | 3.5 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 6 | 3.5 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 6 | 3.5 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 3 | 3.5 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 18 | 3.5 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 6 | 3.5 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 12 | 3.5 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 12 | 3.5 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 12 | 3.5 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 12 | 3.5 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 15 | 3.5 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 15 | 3.5 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 15 | 3.5 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 9 | 3.5 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 9 | 3.5 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 9 | 3.5 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 9 | 3.5 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 9 | 3.5 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 9 | 3.5 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 9 | 3.5 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 9 | 3.5 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 9 | 3.5 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 10 | 3.5 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 10 | 3.5 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 10 | 3.5 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 3 | 3.5 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 19 | 3.5 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 4 | 3.5 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 6 | 3.5 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 11 | 3.5 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 11 | 3.5 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 3 | 3.5 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 4 | 3.5 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 4 | 3.5 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 4 | 3.5 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 4 | 3.5 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 4 | 3.5 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 4 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 4 | 3.5 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 4 | 3.5 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 4 | 3.5 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 19 | 3.5 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 19 | 3.5 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 19 | 3.5 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 9 | 3.5 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 2 | 3.5 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 9 | 3.5 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 16 | 3.5 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 12 | 3.5 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 13 | 3.5 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 1 | 3.5 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 1 | 3.5 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 1 | 3.5 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 20 | 3.5 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 10 | 3.5 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 10 | 3.5 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 3 | 3.5 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 20 | 3.5 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 20 | 3.5 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 20 | 3.5 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 7 | 3.5 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 10 | 3.5 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 11 | 3.5 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 16 | 3.5 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 16 | 3.5 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 16 | 3.5 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 3 | 3.5 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 3 | 3.5 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 3 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 14 | 3.5 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 14 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 14 | 3.5 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 17 | 3.5 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 17 | 3.5 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 17 | 3.5 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 2 | 3.5 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 2 | 3.5 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 2 | 3.5 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 13 | 3.5 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 13 | 3.5 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 13 | 3.5 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 5 | 3.5 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 20 | 3.5 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 4 | 3.5 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 4 | 3.5 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 11 | 3.5 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 7 | 3.5 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 15 | 3.5 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 1 | 3.5 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 18 | 3.5 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 18 | 3.5 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 18 | 3.5 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 2 | 3.5 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 2 | 3.5 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 2 | 3.5 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 19 | 3.5 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 19 | 3.5 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 19 | 3.5 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 7 | 3.5 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 11 | 3.5 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 20 | 3.5 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 20 | 3.5 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 20 | 3.5 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 3 | 3.5 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 7 | 3.5 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 3 | 3.5 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 4 | 3.5 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 14 | 3.5 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 4 | 3.5 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 6 | 3.5 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 18 | 3.5 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 18 | 3.5 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 18 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 19 | 3.5 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 7 | 3.5 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 15 | 3.5 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 3.5 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 14 | 3.5 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 13 | 3.5 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 13 | 3.5 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 13 | 3.5 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 13 | 3.5 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 13 | 3.5 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 13 | 3.5 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 8 | 3.5 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 15 | 3.5 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 14 | 3.5 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 4 | 3.5 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 4 | 3.5 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 16 | 3.5 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 16 | 3.5 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 16 | 3.5 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 16 | 3.5 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 16 | 3.5 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 16 | 3.5 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 2 | 3.5 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 5 | 3.5 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 5 | 3.5 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 6 | 3.5 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 6 | 3.5 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 15 | 3.5 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 15 | 3.5 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 19 | 3.5 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 19 | 3.5 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 12 | 3.5 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 12 | 3.5 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 4 | 3.5 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 4 | 3.5 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 18 | 3.5 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 18 | 3.5 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 18 | 3.5 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 18 | 3.5 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 6 | 3.5 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 7 | 3.5 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 7 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 8 | 3.5 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 8 | 3.5 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 10 | 3.5 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 10 | 3.5 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 9 | 3.5 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 9 | 3.5 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 12 | 3.5 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 12 | 3.5 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 12 | 3.5 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 12 | 3.5 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 12 | 3.5 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 12 | 3.5 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 1 | 3.5 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 1 | 3.5 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 1 | 3.5 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 18 | 3.5 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 18 | 3.5 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 12 | 3.5 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 14 | 3.5 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 14 | 3.5 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 14 | 3.5 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 3.5 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 3.5 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 3.5 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 17 | 3.5 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 17 | 3.5 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 17 | 3.5 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 17 | 3.5 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 17 | 3.5 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 17 | 3.5 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 2 | 3.5 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 3 | 3.5 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 3 | 3.5 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 3 | 3.5 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 3 | 3.5 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 20 | 3.5 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 3.5 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 20 | 3.5 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 3.5 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 20 | 3.5 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 3.5 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 19 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 19 | 3.5 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 19 | 3.5 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 19 | 3.5 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 19 | 3.5 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 19 | 3.5 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 9 | 3.5 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 9 | 3.5 |
| (1,3766) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 14 | 3.5 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 13 | 3.5 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 13 | 3.5 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 13 | 3.5 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 3 | 3.5 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 3 | 3.5 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 3.5 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 3.5 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 12 | 3.5 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 12 | 3.5 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 10 | 3.5 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 10 | 3.5 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 18 | 3.5 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 18 | 3.5 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 18 | 3.5 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 18 | 3.5 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 11 | 3.5 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 6 | 3.5 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 9 | 3.5 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 9 | 3.5 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 16 | 3.5 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 16 | 3.5 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 15 | 3.5 |
| (1,3504) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 8 | 3.5 |
| (1,3504) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 8 | 3.5 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 13 | 3.5 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 13 | 3.5 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 12 | 3.5 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 8 | 3.5 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 20 | 3.5 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 20 | 3.5 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 20 | 3.5 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 5 | 3.5 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 7 | 3.5 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 7 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 7 | 3.5 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 8 | 3.5 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 13 | 3.5 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 2 | 3.5 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 2 | 3.5 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 3 | 3.5 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 3 | 3.5 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 16 | 3.5 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 16 | 3.5 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 5 | 3.5 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 2 | 3.5 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 12 | 3.5 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 11 | 3.5 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 11 | 3.5 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 12 | 3.5 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 12 | 3.5 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 12 | 3.5 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 12 | 3.5 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 1 | 3.5 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 10 | 3.5 |
| (1,3060) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 20 | 3.5 |
| (1,3060) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 20 | 3.5 |
| (1,3060) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 20 | 3.5 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 10 | 3.5 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 14 | 3.5 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 5 | 3.5 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 13 | 3.5 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 20 | 3.5 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 18 | 3.5 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 2 | 3.5 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 2 | 3.5 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 2 | 3.5 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 4 | 3.5 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 4 | 3.5 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 4 | 3.5 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 20 | 3.5 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 1 | 3.5 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 1 | 3.5 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 1 | 3.5 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 5 | 3.5 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 5 | 3.5 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 7 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 7 | 3.5 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 7 | 3.5 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 7 | 3.5 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 5 | 3.5 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 5 | 3.5 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 5 | 3.5 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 5 | 3.5 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 5 | 3.5 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 5 | 3.5 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 12 | 3.5 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 12 | 3.5 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 6 | 3.5 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 6 | 3.5 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 6 | 3.5 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 6 | 3.5 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 6 | 3.5 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 6 | 3.5 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 6 | 3.5 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 6 | 3.5 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 6 | 3.5 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 13 | 3.5 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 17 | 3.5 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 17 | 3.5 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 17 | 3.5 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 17 | 3.5 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 17 | 3.5 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 17 | 3.5 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 17 | 3.5 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 17 | 3.5 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 17 | 3.5 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 3 | 3.5 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 3 | 3.5 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 3 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 7 | 3.5 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 5 | 3.5 |
| (1,2602) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 11 | 3.5 |
| (1,2602) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 11 | 3.5 |
| (1,2602) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 11 | 3.5 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 5 | 3.5 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 2 | 3.5 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 2 | 3.5 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 2 | 3.5 |
| (1,2566) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 4 | 3.5 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 12 | 3.5 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 18 | 3.5 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 2 | 3.5 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 2 | 3.5 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 6 | 3.5 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 6 | 3.5 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 6 | 3.5 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 3 | 3.5 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 18 | 3.5 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 15 | 3.5 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 15 | 3.5 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 6 | 3.5 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 16 | 3.5 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 14 | 3.5 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 14 | 3.5 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 14 | 3.5 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 17 | 3.5 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 17 | 3.5 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 17 | 3.5 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 12 | 3.5 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 11 | 3.5 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 12 | 3.5 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 12 | 3.5 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 12 | 3.5 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 6 | 3.5 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 6 | 3.5 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 6 | 3.5 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 8 | 3.5 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 9 | 3.5 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 10 | 3.5 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 15 | 3.5 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 15 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 15 | 3.5 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 9 | 3.5 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 9 | 3.5 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 9 | 3.5 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 9 | 3.5 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 9 | 3.5 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 9 | 3.5 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 9 | 3.5 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 9 | 3.5 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 9 | 3.5 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 2 | 3.5 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 2 | 3.5 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 2 | 3.5 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 10 | 3.5 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 10 | 3.5 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 10 | 3.5 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 3 | 3.5 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 19 | 3.5 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 6 | 3.5 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 11 | 3.5 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 11 | 3.5 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 4 | 3.5 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 4 | 3.5 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 4 | 3.5 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 13 | 3.5 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 13 | 3.5 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 13 | 3.5 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 15 | 3.5 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 3 | 3.5 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 4 | 3.5 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 4 | 3.5 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 4 | 3.5 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 4 | 3.5 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 4 | 3.5 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 4 | 3.5 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 4 | 3.5 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 4 | 3.5 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 4 | 3.5 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 19 | 3.5 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 19 | 3.5 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 19 | 3.5 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 6 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 9 | 3.5 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 2 | 3.5 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 14 | 3.5 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 3 | 3.5 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 16 | 3.5 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 12 | 3.5 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 20 | 3.5 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 20 | 3.5 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 20 | 3.5 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 8 | 3.5 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 17 | 3.5 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 1 | 3.5 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 12 | 3.5 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 3 | 3.5 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 10 | 3.5 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 11 | 3.5 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 16 | 3.5 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 2 | 3.5 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 8 | 3.5 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 10 | 3.5 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 15 | 3.5 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 8 | 3.5 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 13 | 3.5 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 17 | 3.5 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 13 | 3.5 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 9 | 3.5 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 2 | 3.5 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 5 | 3.5 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 6 | 3.5 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 13 | 3.5 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 1 | 3.5 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 1 | 3.5 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 1 | 3.5 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 20 | 3.5 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 10 | 3.5 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 10 | 3.5 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 14 | 3.5 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 14 | 3.5 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 14 | 3.5 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 19 | 3.5 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 3 | 3.5 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 18 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 18 | 3.5 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 16 | 3.5 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 20 | 3.5 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 20 | 3.5 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 20 | 3.5 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 10 | 3.5 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 10 | 3.5 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 6 | 3.5 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 7 | 3.5 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 10 | 3.5 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 11 | 3.5 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 16 | 3.5 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 16 | 3.5 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 16 | 3.5 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 3 | 3.5 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 3 | 3.5 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 3 | 3.5 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 2 | 3.5 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 5 | 3.5 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 1 | 3.5 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 1 | 3.5 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 1 | 3.5 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 1 | 3.5 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 1 | 3.5 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 1 | 3.5 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 13 | 3.5 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 13 | 3.5 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 13 | 3.5 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 18 | 3.5 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 18 | 3.5 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 18 | 3.5 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 18 | 3.5 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 18 | 3.5 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 18 | 3.5 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 18 | 3.5 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 18 | 3.5 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 18 | 3.5 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 18 | 3.5 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 19 | 3.5 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 12 | 3.5 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 3 | 3.5 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 20 | 3.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 20 | 3.5 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 5 | 3.49 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 17 | 3.49 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 1 | 3.49 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 3 | 3.49 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 7 | 3.49 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 7 | 3.49 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 19 | 3.49 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 19 | 3.49 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 19 | 3.49 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 19 | 3.49 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 5 | 3.49 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 5 | 3.49 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 7 | 3.49 |
| (1,9415) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 7 | 3.49 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 7 | 3.49 |
| (1,9415) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 7 | 3.49 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 20 | 3.49 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 20 | 3.49 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 4 | 3.49 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 4 | 3.49 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 4 | 3.49 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 4 | 3.49 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 3 | 3.49 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 3 | 3.49 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 11 | 3.49 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 11 | 3.49 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 11 | 3.49 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 11 | 3.49 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 11 | 3.49 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 11 | 3.49 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 1 | 3.49 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 1 | 3.49 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 1 | 3.49 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 1 | 3.49 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 1 | 3.49 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 1 | 3.49 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 9 | 3.49 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 9 | 3.49 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 7 | 3.49 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 7 | 3.49 |
| (1,8914) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 10 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8914) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 10 | 3.49 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 11 | 3.49 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 11 | 3.49 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 2 | 3.49 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 2 | 3.49 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 2 | 3.49 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 2 | 3.49 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 2 | 3.49 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 2 | 3.49 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 1 | 3.49 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 1 | 3.49 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 1 | 3.49 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 1 | 3.49 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 1 | 3.49 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 1 | 3.49 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 7 | 3.49 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 7 | 3.49 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 12 | 3.49 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 12 | 3.49 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 12 | 3.49 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 12 | 3.49 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 15 | 3.49 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 15 | 3.49 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 11 | 3.49 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 11 | 3.49 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 15 | 3.49 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 9 | 3.49 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 3 | 3.49 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 3 | 3.49 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 3 | 3.49 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 3 | 3.49 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 3 | 3.49 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 3 | 3.49 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 13 | 3.49 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 12 | 3.49 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 16 | 3.49 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 5 | 3.49 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 5 | 3.49 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 5 | 3.49 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 5 | 3.49 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 5 | 3.49 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 5 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 5 | 3.49 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 5 | 3.49 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 5 | 3.49 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 7 | 3.49 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 7 | 3.49 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 7 | 3.49 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 7 | 3.49 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 7 | 3.49 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 7 | 3.49 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 7 | 3.49 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 7 | 3.49 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 7 | 3.49 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 7 | 3.49 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 7 | 3.49 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 7 | 3.49 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 2 | 3.49 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 2 | 3.49 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 2 | 3.49 |
| (1,7870) | 1:63:A:LYS:H | 1:64:A:HIS:H | 4 | 3.49 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 12 | 3.49 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 12 | 3.49 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 12 | 3.49 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 16 | 3.49 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 17 | 3.49 |
| (1,7798) | 1:59:A:HIS:H | 1:122:A:LEU:H | 4 | 3.49 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 10 | 3.49 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 4 | 3.49 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 4 | 3.49 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 4 | 3.49 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 4 | 3.49 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 4 | 3.49 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 4 | 3.49 |
| (1,7747) | 1:55:A:VAL:HG11 | 1:125:A:PHE:H | 14 | 3.49 |
| (1,7747) | 1:55:A:VAL:HG12 | 1:125:A:PHE:H | 14 | 3.49 |
| (1,7747) | 1:55:A:VAL:HG13 | 1:125:A:PHE:H | 14 | 3.49 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 7 | 3.49 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 7 | 3.49 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 6 | 3.49 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 6 | 3.49 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 11 | 3.49 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 11 | 3.49 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 11 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 7 | 3.49 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 3 | 3.49 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 3 | 3.49 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 3 | 3.49 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 16 | 3.49 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 16 | 3.49 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 4 | 3.49 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 4 | 3.49 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 4 | 3.49 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 4 | 3.49 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 4 | 3.49 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 4 | 3.49 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 5 | 3.49 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 5 | 3.49 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 17 | 3.49 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 3 | 3.49 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 3 | 3.49 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 3 | 3.49 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 20 | 3.49 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 16 | 3.49 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 5 | 3.49 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 5 | 3.49 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 5 | 3.49 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 20 | 3.49 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 20 | 3.49 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 20 | 3.49 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 20 | 3.49 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 20 | 3.49 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 20 | 3.49 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 20 | 3.49 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 20 | 3.49 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 20 | 3.49 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 16 | 3.49 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 16 | 3.49 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 16 | 3.49 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 8 | 3.49 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 8 | 3.49 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 9 | 3.49 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 11 | 3.49 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 11 | 3.49 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 11 | 3.49 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 15 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 15 | 3.49 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 15 | 3.49 |
| (1,6695) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 10 | 3.49 |
| (1,6695) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 10 | 3.49 |
| (1,6695) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 10 | 3.49 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 8 | 3.49 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 4 | 3.49 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 4 | 3.49 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 4 | 3.49 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 8 | 3.49 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 6 | 3.49 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 17 | 3.49 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 20 | 3.49 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 6 | 3.49 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 6 | 3.49 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 6 | 3.49 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 19 | 3.49 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 19 | 3.49 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 19 | 3.49 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 19 | 3.49 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 19 | 3.49 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 19 | 3.49 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 19 | 3.49 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 19 | 3.49 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 19 | 3.49 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 8 | 3.49 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 8 | 3.49 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 8 | 3.49 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 13 | 3.49 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 13 | 3.49 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 13 | 3.49 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 13 | 3.49 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 7 | 3.49 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 10 | 3.49 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 10 | 3.49 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 10 | 3.49 |
| (1,6167) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 16 | 3.49 |
| (1,6167) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 16 | 3.49 |
| (1,6167) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 16 | 3.49 |
| (1,6134) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 15 | 3.49 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 13 | 3.49 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 3 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 1 | 3.49 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 1 | 3.49 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 3 | 3.49 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 3 | 3.49 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 3.49 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 3.49 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 3.49 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 4 | 3.49 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 7 | 3.49 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 7 | 3.49 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 14 | 3.49 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 14 | 3.49 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 20 | 3.49 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 7 | 3.49 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 19 | 3.49 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 19 | 3.49 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 19 | 3.49 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 16 | 3.49 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 16 | 3.49 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 18 | 3.49 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 15 | 3.49 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 15 | 3.49 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 11 | 3.49 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 11 | 3.49 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 11 | 3.49 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 4 | 3.49 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 4 | 3.49 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 4 | 3.49 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 3 | 3.49 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 10 | 3.49 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 11 | 3.49 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 19 | 3.49 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 20 | 3.49 |
| (1,5689) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 15 | 3.49 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 1 | 3.49 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 16 | 3.49 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 16 | 3.49 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 16 | 3.49 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 2 | 3.49 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 15 | 3.49 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 15 | 3.49 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 15 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 14 | 3.49 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 2 | 3.49 |
| (1,5431) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 2 | 3.49 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 2 | 3.49 |
| (1,5431) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 2 | 3.49 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 2 | 3.49 |
| (1,5431) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 2 | 3.49 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 1 | 3.49 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 15 | 3.49 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 18 | 3.49 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 18 | 3.49 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 18 | 3.49 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 20 | 3.49 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 20 | 3.49 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 20 | 3.49 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 17 | 3.49 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 17 | 3.49 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 17 | 3.49 |
| (1,5348) | 1:87:A:GLU:H | 1:89:A:ILE:H | 18 | 3.49 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 3 | 3.49 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 10 | 3.49 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 10 | 3.49 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 10 | 3.49 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 11 | 3.49 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 11 | 3.49 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 11 | 3.49 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 15 | 3.49 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 8 | 3.49 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 13 | 3.49 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 1 | 3.49 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 9 | 3.49 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 9 | 3.49 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 9 | 3.49 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 7 | 3.49 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 20 | 3.49 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 4 | 3.49 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 4 | 3.49 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 4 | 3.49 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 16 | 3.49 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 16 | 3.49 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 16 | 3.49 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 11 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 11 | 3.49 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 11 | 3.49 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 11 | 3.49 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 11 | 3.49 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 11 | 3.49 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 11 | 3.49 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 11 | 3.49 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 11 | 3.49 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 5 | 3.49 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 5 | 3.49 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 5 | 3.49 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 16 | 3.49 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 16 | 3.49 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 16 | 3.49 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 2 | 3.49 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 2 | 3.49 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 2 | 3.49 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 5 | 3.49 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 5 | 3.49 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 5 | 3.49 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 5 | 3.49 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 5 | 3.49 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 5 | 3.49 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 5 | 3.49 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 5 | 3.49 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 5 | 3.49 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 2 | 3.49 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 10 | 3.49 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 16 | 3.49 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 16 | 3.49 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 16 | 3.49 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 11 | 3.49 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 11 | 3.49 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 11 | 3.49 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 2 | 3.49 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 2 | 3.49 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 2 | 3.49 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 3.49 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 14 | 3.49 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 14 | 3.49 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 14 | 3.49 |
| (1,4542) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 5 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4542) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 5 | 3.49 |
| (1,4542) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 5 | 3.49 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 15 | 3.49 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 15 | 3.49 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 7 | 3.49 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 9 | 3.49 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 9 | 3.49 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 14 | 3.49 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 19 | 3.49 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 19 | 3.49 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 13 | 3.49 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 13 | 3.49 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 5 | 3.49 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 5 | 3.49 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 19 | 3.49 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 1 | 3.49 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 3 | 3.49 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 3 | 3.49 |
| (1,4250) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 18 | 3.49 |
| (1,4250) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 18 | 3.49 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 17 | 3.49 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 17 | 3.49 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 17 | 3.49 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 10 | 3.49 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 10 | 3.49 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 10 | 3.49 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 2 | 3.49 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 2 | 3.49 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 10 | 3.49 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 11 | 3.49 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 11 | 3.49 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 11 | 3.49 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 11 | 3.49 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 11 | 3.49 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 11 | 3.49 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 3 | 3.49 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 12 | 3.49 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 12 | 3.49 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 12 | 3.49 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 12 | 3.49 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 1 | 3.49 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 1 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 1 | 3.49 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 1 | 3.49 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 1 | 3.49 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 1 | 3.49 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 7 | 3.49 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 7 | 3.49 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 8 | 3.49 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 13 | 3.49 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 13 | 3.49 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 13 | 3.49 |
| (1,3878) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 10 | 3.49 |
| (1,3878) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 10 | 3.49 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 11 | 3.49 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 11 | 3.49 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 2 | 3.49 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 2 | 3.49 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 2 | 3.49 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 2 | 3.49 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 2 | 3.49 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 2 | 3.49 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 11 | 3.49 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 1 | 3.49 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 16 | 3.49 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 7 | 3.49 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 7 | 3.49 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 14 | 3.49 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 14 | 3.49 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 6 | 3.49 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 2 | 3.49 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 11 | 3.49 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 11 | 3.49 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 11 | 3.49 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 11 | 3.49 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 11 | 3.49 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 11 | 3.49 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 12 | 3.49 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 12 | 3.49 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 12 | 3.49 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 12 | 3.49 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 2 | 3.49 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 11 | 3.49 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 7 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 7 | 3.49 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 5 | 3.49 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 5 | 3.49 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 5 | 3.49 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 20 | 3.49 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 20 | 3.49 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 20 | 3.49 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 20 | 3.49 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 20 | 3.49 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 20 | 3.49 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 20 | 3.49 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 20 | 3.49 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 20 | 3.49 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 18 | 3.49 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 2 | 3.49 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 8 | 3.49 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 11 | 3.49 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 11 | 3.49 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 13 | 3.49 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 16 | 3.49 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 16 | 3.49 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 16 | 3.49 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 14 | 3.49 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 8 | 3.49 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 8 | 3.49 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 18 | 3.49 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 18 | 3.49 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 18 | 3.49 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 8 | 3.49 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 3 | 3.49 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 14 | 3.49 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 9 | 3.49 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 11 | 3.49 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 11 | 3.49 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 11 | 3.49 |
| (1,2932) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 2 | 3.49 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 3 | 3.49 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 6 | 3.49 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 14 | 3.49 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 15 | 3.49 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 15 | 3.49 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 15 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 4 | 3.49 |
| (1,2740) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 4 | 3.49 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 4 | 3.49 |
| (1,2740) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 4 | 3.49 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 4 | 3.49 |
| (1,2740) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 4 | 3.49 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 9 | 3.49 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 1 | 3.49 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 1 | 3.49 |
| (1,2600) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 10 | 3.49 |
| (1,2600) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 10 | 3.49 |
| (1,2600) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 10 | 3.49 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 4 | 3.49 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 4 | 3.49 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 4 | 3.49 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 8 | 3.49 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 8 | 3.49 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 6 | 3.49 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 20 | 3.49 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 17 | 3.49 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 12 | 3.49 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 2 | 3.49 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 20 | 3.49 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 18 | 3.49 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 2 | 3.49 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 16 | 3.49 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 19 | 3.49 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 6 | 3.49 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 6 | 3.49 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 6 | 3.49 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 3.49 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 19 | 3.49 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 19 | 3.49 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 19 | 3.49 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 19 | 3.49 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 19 | 3.49 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 19 | 3.49 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 19 | 3.49 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 19 | 3.49 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 19 | 3.49 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 8 | 3.49 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 8 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 8 | 3.49 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 13 | 3.49 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 13 | 3.49 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 13 | 3.49 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 13 | 3.49 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 4 | 3.49 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 4 | 3.49 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 4 | 3.49 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 7 | 3.49 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 10 | 3.49 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 10 | 3.49 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 10 | 3.49 |
| (1,1770) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 16 | 3.49 |
| (1,1770) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 16 | 3.49 |
| (1,1770) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 16 | 3.49 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 2 | 3.49 |
| (1,1726) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 15 | 3.49 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 11 | 3.49 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 11 | 3.49 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 11 | 3.49 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 13 | 3.49 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 3 | 3.49 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 1 | 3.49 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 1 | 3.49 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 3 | 3.49 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 3 | 3.49 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 4 | 3.49 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 17 | 3.49 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 7 | 3.49 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 7 | 3.49 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 1 | 3.49 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 14 | 3.49 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 14 | 3.49 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 20 | 3.49 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 8 | 3.49 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 5 | 3.49 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 1 | 3.49 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 19 | 3.49 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 7 | 3.49 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 19 | 3.49 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 19 | 3.49 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 19 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 16 | 3.49 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 16 | 3.49 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 5 | 3.49 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 18 | 3.49 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 18 | 3.49 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 18 | 3.49 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 2 | 3.49 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 12 | 3.49 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 14 | 3.49 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 15 | 3.49 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 17 | 3.49 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 20 | 3.49 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 13 | 3.49 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 17 | 3.49 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 15 | 3.49 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 15 | 3.49 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 11 | 3.49 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 11 | 3.49 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 11 | 3.49 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 16 | 3.49 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 16 | 3.49 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 16 | 3.49 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 4 | 3.49 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 4 | 3.49 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 4 | 3.49 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 19 | 3.49 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 13 | 3.49 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 13 | 3.49 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 13 | 3.49 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 8 | 3.49 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 3 | 3.49 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 10 | 3.49 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 11 | 3.49 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 19 | 3.49 |
| (1,956) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 15 | 3.49 |
| (1,922) | 1:105:A:SER:HA | 1:106:A:LEU:H | 8 | 3.49 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 1 | 3.49 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 4 | 3.49 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 7 | 3.49 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 18 | 3.49 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 18 | 3.49 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 18 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 11 | 3.49 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 3 | 3.49 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 3 | 3.49 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 10 | 3.49 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 18 | 3.49 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 16 | 3.49 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 16 | 3.49 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 16 | 3.49 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 2 | 3.49 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 15 | 3.49 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 15 | 3.49 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 15 | 3.49 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 19 | 3.49 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 2 | 3.49 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 2 | 3.49 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 2 | 3.49 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 5 | 3.49 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 19 | 3.49 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 14 | 3.49 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 8 | 3.49 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 17 | 3.49 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 17 | 3.49 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 17 | 3.49 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 17 | 3.49 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 17 | 3.49 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 17 | 3.49 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 2 | 3.49 |
| (1,514) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 2 | 3.49 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 2 | 3.49 |
| (1,514) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 2 | 3.49 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 2 | 3.49 |
| (1,514) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 2 | 3.49 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 5 | 3.49 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 5 | 3.49 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 5 | 3.49 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 5 | 3.49 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 5 | 3.49 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 5 | 3.49 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 6 | 3.49 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 5 | 3.49 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 5 | 3.49 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 5 | 3.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 5 | 3.49 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 5 | 3.49 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 5 | 3.49 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 5 | 3.49 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 5 | 3.49 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 5 | 3.49 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 20 | 3.49 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 20 | 3.49 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 20 | 3.49 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 1 | 3.49 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 7 | 3.49 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 20 | 3.48 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 2 | 3.48 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 3 | 3.48 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 6 | 3.48 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 6 | 3.48 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 8 | 3.48 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 8 | 3.48 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 8 | 3.48 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 8 | 3.48 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 8 | 3.48 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 8 | 3.48 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 14 | 3.48 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 14 | 3.48 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 14 | 3.48 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 14 | 3.48 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 3 | 3.48 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 3 | 3.48 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 3.48 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 3.48 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 3.48 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 20 | 3.48 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 20 | 3.48 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 20 | 3.48 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 12 | 3.48 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 12 | 3.48 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 12 | 3.48 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 12 | 3.48 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 13 | 3.48 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 13 | 3.48 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 20 | 3.48 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 20 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 20 | 3.48 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 20 | 3.48 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 20 | 3.48 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 20 | 3.48 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 16 | 3.48 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 16 | 3.48 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 8 | 3.48 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 8 | 3.48 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 8 | 3.48 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 8 | 3.48 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 8 | 3.48 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 8 | 3.48 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 8 | 3.48 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 8 | 3.48 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 19 | 3.48 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 19 | 3.48 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 3 | 3.48 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 3 | 3.48 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 3 | 3.48 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 3 | 3.48 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 4 | 3.48 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 4 | 3.48 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 4 | 3.48 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 4 | 3.48 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 4 | 3.48 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 4 | 3.48 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 2 | 3.48 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 2 | 3.48 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 2 | 3.48 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 2 | 3.48 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 5 | 3.48 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 5 | 3.48 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 1 | 3.48 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 1 | 3.48 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 1 | 3.48 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 1 | 3.48 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 1 | 3.48 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 1 | 3.48 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 6 | 3.48 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 6 | 3.48 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 8 | 3.48 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 8 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 15 | 3.48 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 15 | 3.48 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 14 | 3.48 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 14 | 3.48 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 8 | 3.48 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 8 | 3.48 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 8 | 3.48 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 8 | 3.48 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 8 | 3.48 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 8 | 3.48 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 9 | 3.48 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 9 | 3.48 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 17 | 3.48 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 17 | 3.48 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 17 | 3.48 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 17 | 3.48 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 17 | 3.48 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 17 | 3.48 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 13 | 3.48 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 13 | 3.48 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 13 | 3.48 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 13 | 3.48 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 13 | 3.48 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 13 | 3.48 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 18 | 3.48 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 18 | 3.48 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 4 | 3.48 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 4 | 3.48 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 4 | 3.48 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 4 | 3.48 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 11 | 3.48 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 11 | 3.48 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 2 | 3.48 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 2 | 3.48 |
| (1,8603) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HA | 14 | 3.48 |
| (1,8603) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HA | 14 | 3.48 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 12 | 3.48 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 12 | 3.48 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 12 | 3.48 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 12 | 3.48 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 12 | 3.48 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 12 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 12 | 3.48 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 12 | 3.48 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 12 | 3.48 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 4 | 3.48 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 5 | 3.48 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 5 | 3.48 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 17 | 3.48 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 9 | 3.48 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 9 | 3.48 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 9 | 3.48 |
| (1,8328) | 1:131:A:GLN:HG2 | 1:133:A:PRO:HD2 | 16 | 3.48 |
| (1,8328) | 1:131:A:GLN:HG3 | 1:133:A:PRO:HD2 | 16 | 3.48 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 14 | 3.48 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 14 | 3.48 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 14 | 3.48 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 16 | 3.48 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 7 | 3.48 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 20 | 3.48 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 20 | 3.48 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 20 | 3.48 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 20 | 3.48 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 20 | 3.48 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 20 | 3.48 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 20 | 3.48 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 20 | 3.48 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 20 | 3.48 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 4 | 3.48 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 4 | 3.48 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 4 | 3.48 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 9 | 3.48 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 9 | 3.48 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 9 | 3.48 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 4 | 3.48 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 4 | 3.48 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 4 | 3.48 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 4 | 3.48 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 4 | 3.48 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 4 | 3.48 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 4 | 3.48 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 4 | 3.48 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 4 | 3.48 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 7 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 11 | 3.48 |
| (1,7872) | 1:63:A:LYS:HB2 | 1:70:A:PRO:HA | 5 | 3.48 |
| (1,7872) | 1:63:A:LYS:HB3 | 1:70:A:PRO:HA | 5 | 3.48 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 14 | 3.48 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 5 | 3.48 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 5 | 3.48 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 5 | 3.48 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 5 | 3.48 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 14 | 3.48 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 5 | 3.48 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 7 | 3.48 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 2 | 3.48 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 12 | 3.48 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 12 | 3.48 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 3 | 3.48 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 12 | 3.48 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 12 | 3.48 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 5 | 3.48 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 15 | 3.48 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD11 | 17 | 3.48 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD12 | 17 | 3.48 |
| (1,7363) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD13 | 17 | 3.48 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD11 | 17 | 3.48 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD12 | 17 | 3.48 |
| (1,7363) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD13 | 17 | 3.48 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 14 | 3.48 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 14 | 3.48 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 14 | 3.48 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 8 | 3.48 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 8 | 3.48 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 8 | 3.48 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 19 | 3.48 |
| (1,7189) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 13 | 3.48 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 14 | 3.48 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 13 | 3.48 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 10 | 3.48 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 10 | 3.48 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 10 | 3.48 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 2 | 3.48 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 2 | 3.48 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 12 | 3.48 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 12 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 6 | 3.48 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 7 | 3.48 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 7 | 3.48 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 7 | 3.48 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 3 | 3.48 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 3 | 3.48 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 3 | 3.48 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 20 | 3.48 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 20 | 3.48 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 20 | 3.48 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 9 | 3.48 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 18 | 3.48 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 2 | 3.48 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 20 | 3.48 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 20 | 3.48 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 20 | 3.48 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 20 | 3.48 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 19 | 3.48 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 19 | 3.48 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 19 | 3.48 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 19 | 3.48 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 19 | 3.48 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 19 | 3.48 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 19 | 3.48 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 19 | 3.48 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 19 | 3.48 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 4 | 3.48 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 5 | 3.48 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 16 | 3.48 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 9 | 3.48 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 4 | 3.48 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 13 | 3.48 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 4 | 3.48 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 12 | 3.48 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 12 | 3.48 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 12 | 3.48 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 3 | 3.48 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 13 | 3.48 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 13 | 3.48 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 13 | 3.48 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 14 | 3.48 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 14 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 14 | 3.48 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 12 | 3.48 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 5 | 3.48 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 5 | 3.48 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 5 | 3.48 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 5 | 3.48 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 5 | 3.48 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 5 | 3.48 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 5 | 3.48 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 5 | 3.48 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 5 | 3.48 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 4 | 3.48 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 4 | 3.48 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 5 | 3.48 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 5 | 3.48 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 19 | 3.48 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 19 | 3.48 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 19 | 3.48 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 12 | 3.48 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 12 | 3.48 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 12 | 3.48 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 7 | 3.48 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 7 | 3.48 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 7 | 3.48 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 17 | 3.48 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 1 | 3.48 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 1 | 3.48 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 1 | 3.48 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 16 | 3.48 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 16 | 3.48 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 16 | 3.48 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 5 | 3.48 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 4 | 3.48 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 5 | 3.48 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 9 | 3.48 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 1 | 3.48 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 1 | 3.48 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 15 | 3.48 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 10 | 3.48 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 2 | 3.48 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 15 | 3.48 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 3 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 18 | 3.48 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 7 | 3.48 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 7 | 3.48 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 7 | 3.48 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 3 | 3.48 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 3 | 3.48 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 10 | 3.48 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 1 | 3.48 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 6 | 3.48 |
| (1,5480) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 14 | 3.48 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 1 | 3.48 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 4 | 3.48 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 4 | 3.48 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 4 | 3.48 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 11 | 3.48 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 11 | 3.48 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 11 | 3.48 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 16 | 3.48 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 6 | 3.48 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 13 | 3.48 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 6 | 3.48 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 6 | 3.48 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 19 | 3.48 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 19 | 3.48 |
| (1,5353) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 19 | 3.48 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 19 | 3.48 |
| (1,5332) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 18 | 3.48 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 12 | 3.48 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 3.48 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 3.48 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 3.48 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 5 | 3.48 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 9 | 3.48 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 11 | 3.48 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 10 | 3.48 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 15 | 3.48 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 12 | 3.48 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 20 | 3.48 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 1 | 3.48 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 1 | 3.48 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 1 | 3.48 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 17 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 15 | 3.48 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 15 | 3.48 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 15 | 3.48 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 8 | 3.48 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 14 | 3.48 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 5 | 3.48 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 13 | 3.48 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 13 | 3.48 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 13 | 3.48 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 4 | 3.48 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 19 | 3.48 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 19 | 3.48 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 13 | 3.48 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 13 | 3.48 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 13 | 3.48 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 16 | 3.48 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 6 | 3.48 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 4 | 3.48 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 19 | 3.48 |
| (1,4665) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 7 | 3.48 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 5 | 3.48 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 5 | 3.48 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 15 | 3.48 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 15 | 3.48 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 19 | 3.48 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 19 | 3.48 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 8 | 3.48 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 8 | 3.48 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 8 | 3.48 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 8 | 3.48 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 8 | 3.48 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 8 | 3.48 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 11 | 3.48 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 14 | 3.48 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 14 | 3.48 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 14 | 3.48 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 14 | 3.48 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 5 | 3.48 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 5 | 3.48 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 5 | 3.48 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 5 | 3.48 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 3.48 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 3.48 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 20 | 3.48 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 20 | 3.48 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 20 | 3.48 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 12 | 3.48 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 12 | 3.48 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 8 | 3.48 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 8 | 3.48 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 3 | 3.48 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 3 | 3.48 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 3 | 3.48 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 3 | 3.48 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 4 | 3.48 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 4 | 3.48 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 4 | 3.48 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 4 | 3.48 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 4 | 3.48 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 4 | 3.48 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 3 | 3.48 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 3 | 3.48 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 3 | 3.48 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 5 | 3.48 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 5 | 3.48 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 15 | 3.48 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 1 | 3.48 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 1 | 3.48 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 1 | 3.48 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 1 | 3.48 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 1 | 3.48 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 1 | 3.48 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 3 | 3.48 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 6 | 3.48 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 6 | 3.48 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 8 | 3.48 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 8 | 3.48 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 15 | 3.48 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 15 | 3.48 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 5 | 3.48 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 5 | 3.48 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 14 | 3.48 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 14 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 17 | 3.48 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 17 | 3.48 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 7 | 3.48 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 10 | 3.48 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 10 | 3.48 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 10 | 3.48 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 17 | 3.48 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 17 | 3.48 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 17 | 3.48 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 17 | 3.48 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 17 | 3.48 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 17 | 3.48 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 11 | 3.48 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 11 | 3.48 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 20 | 3.48 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 20 | 3.48 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 20 | 3.48 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 20 | 3.48 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 17 | 3.48 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 17 | 3.48 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 17 | 3.48 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 17 | 3.48 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 17 | 3.48 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 17 | 3.48 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 2 | 3.48 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 8 | 3.48 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 8 | 3.48 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 8 | 3.48 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 19 | 3.48 |
| (1,3342) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 13 | 3.48 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 3 | 3.48 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 14 | 3.48 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 13 | 3.48 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 11 | 3.48 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 8 | 3.48 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 4 | 3.48 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 4 | 3.48 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 4 | 3.48 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 16 | 3.48 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 9 | 3.48 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 2 | 3.48 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 2 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 12 | 3.48 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 12 | 3.48 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 6 | 3.48 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 7 | 3.48 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 7 | 3.48 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 7 | 3.48 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 3 | 3.48 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 3 | 3.48 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 3 | 3.48 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 20 | 3.48 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 20 | 3.48 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 20 | 3.48 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 9 | 3.48 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 2 | 3.48 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 18 | 3.48 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 5 | 3.48 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 5 | 3.48 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 10 | 3.48 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 10 | 3.48 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 10 | 3.48 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 10 | 3.48 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 10 | 3.48 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 10 | 3.48 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 20 | 3.48 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 20 | 3.48 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 20 | 3.48 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 20 | 3.48 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 19 | 3.48 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 19 | 3.48 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 19 | 3.48 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 19 | 3.48 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 19 | 3.48 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 19 | 3.48 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 19 | 3.48 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 19 | 3.48 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 19 | 3.48 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 14 | 3.48 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 9 | 3.48 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 12 | 3.48 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 1 | 3.48 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 4 | 3.48 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 5 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 16 | 3.48 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 4 | 3.48 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 9 | 3.48 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 13 | 3.48 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 4 | 3.48 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 15 | 3.48 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 10 | 3.48 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 10 | 3.48 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 10 | 3.48 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 12 | 3.48 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 12 | 3.48 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 12 | 3.48 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 8 | 3.48 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 3 | 3.48 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 1 | 3.48 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 15 | 3.48 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 15 | 3.48 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 15 | 3.48 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 3 | 3.48 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 17 | 3.48 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 5 | 3.48 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 5 | 3.48 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 5 | 3.48 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 3.48 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 14 | 3.48 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 5 | 3.48 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 13 | 3.48 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 13 | 3.48 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 13 | 3.48 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 14 | 3.48 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 14 | 3.48 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 14 | 3.48 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 1 | 3.48 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 1 | 3.48 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 1 | 3.48 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 12 | 3.48 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 5 | 3.48 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 5 | 3.48 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 5 | 3.48 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 5 | 3.48 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 5 | 3.48 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 5 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 5 | 3.48 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 5 | 3.48 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 5 | 3.48 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 12 | 3.48 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 4 | 3.48 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 4 | 3.48 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 5 | 3.48 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 5 | 3.48 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 17 | 3.48 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 17 | 3.48 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 17 | 3.48 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 19 | 3.48 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 19 | 3.48 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 19 | 3.48 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 12 | 3.48 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 12 | 3.48 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 12 | 3.48 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 7 | 3.48 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 7 | 3.48 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 7 | 3.48 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 3 | 3.48 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 8 | 3.48 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 7 | 3.48 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 11 | 3.48 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 14 | 3.48 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 8 | 3.48 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 8 | 3.48 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 8 | 3.48 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 15 | 3.48 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 17 | 3.48 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 15 | 3.48 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 1 | 3.48 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 1 | 3.48 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 1 | 3.48 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 16 | 3.48 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 16 | 3.48 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 16 | 3.48 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 5 | 3.48 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 10 | 3.48 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 10 | 3.48 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 10 | 3.48 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 16 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 16 | 3.48 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 16 | 3.48 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 5 | 3.48 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 13 | 3.48 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 5 | 3.48 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 9 | 3.48 |
| (1,1242) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 2 | 3.48 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 2 | 3.48 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 2 | 3.48 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 2 | 3.48 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 1 | 3.48 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 1 | 3.48 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 15 | 3.48 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 20 | 3.48 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 15 | 3.48 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 15 | 3.48 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 10 | 3.48 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 3 | 3.48 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 2 | 3.48 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 15 | 3.48 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 3.48 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 3.48 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 3.48 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 2 | 3.48 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 3 | 3.48 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 18 | 3.48 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 18 | 3.48 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 3 | 3.48 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 3 | 3.48 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 3 | 3.48 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 7 | 3.48 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 7 | 3.48 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 7 | 3.48 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 11 | 3.48 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 3 | 3.48 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 3 | 3.48 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 4 | 3.48 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 18 | 3.48 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 6 | 3.48 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 14 | 3.48 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 19 | 3.48 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 10 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 1 | 3.48 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 6 | 3.48 |
| (1,588) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 14 | 3.48 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 1 | 3.48 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 4 | 3.48 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 4 | 3.48 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 4 | 3.48 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 11 | 3.48 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 11 | 3.48 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 11 | 3.48 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 10 | 3.48 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 10 | 3.48 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 10 | 3.48 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 13 | 3.48 |
| (1,256) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 16 | 3.48 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 3 | 3.48 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 3 | 3.48 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 3 | 3.48 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 13 | 3.48 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 13 | 3.48 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 13 | 3.48 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 8 | 3.47 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 11 | 3.47 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 3 | 3.47 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 3 | 3.47 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 1 | 3.47 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 1 | 3.47 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 17 | 3.47 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 17 | 3.47 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 19 | 3.47 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 19 | 3.47 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 13 | 3.47 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 13 | 3.47 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 18 | 3.47 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 18 | 3.47 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 18 | 3.47 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 18 | 3.47 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 18 | 3.47 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 18 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 5 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 5 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 5 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 5 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 5 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 5 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 19 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 19 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 19 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 19 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 19 | 3.47 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 19 | 3.47 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 16 | 3.47 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 16 | 3.47 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 16 | 3.47 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 16 | 3.47 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 1 | 3.47 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 1 | 3.47 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 15 | 3.47 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 15 | 3.47 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 15 | 3.47 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 15 | 3.47 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 15 | 3.47 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 15 | 3.47 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 18 | 3.47 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 18 | 3.47 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 18 | 3.47 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 18 | 3.47 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 18 | 3.47 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 18 | 3.47 |
| (1,8910) | 1:66:A:GLN:HB2 | 1:82:A:LYS:H | 4 | 3.47 |
| (1,8910) | 1:66:A:GLN:HB3 | 1:82:A:LYS:H | 4 | 3.47 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 15 | 3.47 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 15 | 3.47 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 18 | 3.47 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 18 | 3.47 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 20 | 3.47 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 20 | 3.47 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 20 | 3.47 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 20 | 3.47 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 17 | 3.47 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 17 | 3.47 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 17 | 3.47 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 17 | 3.47 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 17 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 17 | 3.47 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 1 | 3.47 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 1 | 3.47 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 1 | 3.47 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 1 | 3.47 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 9 | 3.47 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 9 | 3.47 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 9 | 3.47 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 9 | 3.47 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 9 | 3.47 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 9 | 3.47 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 15 | 3.47 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 15 | 3.47 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 6 | 3.47 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 6 | 3.47 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 6 | 3.47 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 6 | 3.47 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 6 | 3.47 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 6 | 3.47 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 18 | 3.47 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 18 | 3.47 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 18 | 3.47 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 2 | 3.47 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 9 | 3.47 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 9 | 3.47 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 9 | 3.47 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 19 | 3.47 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 19 | 3.47 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 19 | 3.47 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 8 | 3.47 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 8 | 3.47 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 8 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 9 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 9 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 9 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 9 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 9 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 9 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 20 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 20 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 20 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 20 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 20 | 3.47 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 20 | 3.47 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 6 | 3.47 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 6 | 3.47 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 6 | 3.47 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 13 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 10 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 10 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 10 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 10 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 10 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 10 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 17 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 17 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 17 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 17 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 17 | 3.47 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 17 | 3.47 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 18 | 3.47 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 14 | 3.47 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 18 | 3.47 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 14 | 3.47 |
| (1,8208) | 1:107:A:ALA:HA | 1:109:A:GLN:H | 20 | 3.47 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 17 | 3.47 |
| (1,8105) | 1:93:A:ILE:HG21 | 1:96:A:ILE:HB | 3 | 3.47 |
| (1,8105) | 1:93:A:ILE:HG22 | 1:96:A:ILE:HB | 3 | 3.47 |
| (1,8105) | 1:93:A:ILE:HG23 | 1:96:A:ILE:HB | 3 | 3.47 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 16 | 3.47 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 16 | 3.47 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 16 | 3.47 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 16 | 3.47 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 16 | 3.47 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 16 | 3.47 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 16 | 3.47 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 16 | 3.47 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 16 | 3.47 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 13 | 3.47 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 17 | 3.47 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 17 | 3.47 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 17 | 3.47 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 12 | 3.47 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 17 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 9 | 3.47 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 9 | 3.47 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 9 | 3.47 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 10 | 3.47 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 10 | 3.47 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 10 | 3.47 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 11 | 3.47 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 8 | 3.47 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 8 | 3.47 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 8 | 3.47 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 8 | 3.47 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 8 | 3.47 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 8 | 3.47 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 8 | 3.47 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 8 | 3.47 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 8 | 3.47 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 16 | 3.47 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 3 | 3.47 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 3 | 3.47 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 20 | 3.47 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 20 | 3.47 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 16 | 3.47 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 19 | 3.47 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 19 | 3.47 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 19 | 3.47 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 2 | 3.47 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 2 | 3.47 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 1 | 3.47 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 5 | 3.47 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 10 | 3.47 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 10 | 3.47 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 17 | 3.47 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 17 | 3.47 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 20 | 3.47 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 20 | 3.47 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 14 | 3.47 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 14 | 3.47 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 14 | 3.47 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 19 | 3.47 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 16 | 3.47 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 16 | 3.47 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 12 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 12 | 3.47 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 12 | 3.47 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 12 | 3.47 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 12 | 3.47 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 12 | 3.47 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 12 | 3.47 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 12 | 3.47 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 12 | 3.47 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 12 | 3.47 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 1 | 3.47 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 6 | 3.47 |
| (1,7231) | 1:15:A:MET:H | 1:16:A:SER:H | 4 | 3.47 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 5 | 3.47 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 19 | 3.47 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 4 | 3.47 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 7 | 3.47 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 7 | 3.47 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 7 | 3.47 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 13 | 3.47 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 13 | 3.47 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 15 | 3.47 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 3 | 3.47 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 3 | 3.47 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 15 | 3.47 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 15 | 3.47 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 13 | 3.47 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 11 | 3.47 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 4 | 3.47 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 15 | 3.47 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 6 | 3.47 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 11 | 3.47 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 15 | 3.47 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 15 | 3.47 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 15 | 3.47 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 12 | 3.47 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 2 | 3.47 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 2 | 3.47 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 2 | 3.47 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 11 | 3.47 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 11 | 3.47 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 11 | 3.47 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 12 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 12 | 3.47 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 12 | 3.47 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 11 | 3.47 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 11 | 3.47 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 11 | 3.47 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 19 | 3.47 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 19 | 3.47 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 19 | 3.47 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 12 | 3.47 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 12 | 3.47 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 12 | 3.47 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 12 | 3.47 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 12 | 3.47 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 12 | 3.47 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 16 | 3.47 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 16 | 3.47 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 4 | 3.47 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 10 | 3.47 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 10 | 3.47 |
| (1,6233) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 10 | 3.47 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 19 | 3.47 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 19 | 3.47 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 19 | 3.47 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 10 | 3.47 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 10 | 3.47 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 10 | 3.47 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 15 | 3.47 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 15 | 3.47 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 15 | 3.47 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 15 | 3.47 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 15 | 3.47 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 15 | 3.47 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 7 | 3.47 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 7 | 3.47 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 7 | 3.47 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 14 | 3.47 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 14 | 3.47 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 14 | 3.47 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 8 | 3.47 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 14 | 3.47 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 3 | 3.47 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 7 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 7 | 3.47 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 8 | 3.47 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 8 | 3.47 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 8 | 3.47 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 10 | 3.47 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 10 | 3.47 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 10 | 3.47 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 10 | 3.47 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 10 | 3.47 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 10 | 3.47 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 18 | 3.47 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 18 | 3.47 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 3 | 3.47 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 7 | 3.47 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 6 | 3.47 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 1 | 3.47 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 1 | 3.47 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 1 | 3.47 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 3 | 3.47 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 15 | 3.47 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 12 | 3.47 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 12 | 3.47 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 12 | 3.47 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 12 | 3.47 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 12 | 3.47 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 12 | 3.47 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 12 | 3.47 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 12 | 3.47 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 12 | 3.47 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 12 | 3.47 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 12 | 3.47 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 12 | 3.47 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 1 | 3.47 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 1 | 3.47 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 1 | 3.47 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 15 | 3.47 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 15 | 3.47 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 15 | 3.47 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 17 | 3.47 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 12 | 3.47 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 12 | 3.47 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 12 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 12 | 3.47 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 12 | 3.47 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 12 | 3.47 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 12 | 3.47 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 12 | 3.47 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 12 | 3.47 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 17 | 3.47 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 17 | 3.47 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 17 | 3.47 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 17 | 3.47 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 17 | 3.47 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 17 | 3.47 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 3 | 3.47 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 19 | 3.47 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 1 | 3.47 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 1 | 3.47 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 1 | 3.47 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 1 | 3.47 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 1 | 3.47 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 1 | 3.47 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 15 | 3.47 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 16 | 3.47 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 13 | 3.47 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 1 | 3.47 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 2 | 3.47 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 9 | 3.47 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 9 | 3.47 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 6 | 3.47 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 6 | 3.47 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 7 | 3.47 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 7 | 3.47 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 7 | 3.47 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 9 | 3.47 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 9 | 3.47 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 9 | 3.47 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 17 | 3.47 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 17 | 3.47 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 18 | 3.47 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 18 | 3.47 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 18 | 3.47 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 18 | 3.47 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 19 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 19 | 3.47 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 19 | 3.47 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 19 | 3.47 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 19 | 3.47 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 19 | 3.47 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 14 | 3.47 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 11 | 3.47 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 11 | 3.47 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 16 | 3.47 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 16 | 3.47 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 16 | 3.47 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 16 | 3.47 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 16 | 3.47 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 16 | 3.47 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 16 | 3.47 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 16 | 3.47 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 16 | 3.47 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 16 | 3.47 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 14 | 3.47 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 14 | 3.47 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 3 | 3.47 |
| (1,4165) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 6 | 3.47 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 1 | 3.47 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 1 | 3.47 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 15 | 3.47 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 15 | 3.47 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 15 | 3.47 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 15 | 3.47 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 15 | 3.47 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 15 | 3.47 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 16 | 3.47 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 16 | 3.47 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 16 | 3.47 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 15 | 3.47 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 15 | 3.47 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 15 | 3.47 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 15 | 3.47 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 15 | 3.47 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 15 | 3.47 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 2 | 3.47 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 17 | 3.47 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 17 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 17 | 3.47 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 6 | 3.47 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 19 | 3.47 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 15 | 3.47 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 15 | 3.47 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 7 | 3.47 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 10 | 3.47 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 3 | 3.47 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 3 | 3.47 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 3 | 3.47 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 3 | 3.47 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 3 | 3.47 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 3 | 3.47 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 3.47 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 3.47 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 3.47 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 3 | 3.47 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 3 | 3.47 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 18 | 3.47 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 18 | 3.47 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 18 | 3.47 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 18 | 3.47 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 18 | 3.47 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 18 | 3.47 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 16 | 3.47 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 16 | 3.47 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 16 | 3.47 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 14 | 3.47 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 14 | 3.47 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 1 | 3.47 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 1 | 3.47 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 1 | 3.47 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 1 | 3.47 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 7 | 3.47 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 7 | 3.47 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 19 | 3.47 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 19 | 3.47 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 18 | 3.47 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 18 | 3.47 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 9 | 3.47 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 9 | 3.47 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 9 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 9 | 3.47 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 9 | 3.47 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 9 | 3.47 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 7 | 3.47 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 3.47 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 7 | 3.47 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 9 | 3.47 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 3.47 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 9 | 3.47 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 9 | 3.47 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 3.47 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 9 | 3.47 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 12 | 3.47 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 12 | 3.47 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 12 | 3.47 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 12 | 3.47 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 12 | 3.47 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 12 | 3.47 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 12 | 3.47 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 12 | 3.47 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 12 | 3.47 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 1 | 3.47 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 6 | 3.47 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 2 | 3.47 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 9 | 3.47 |
| (1,3410) | 1:15:A:MET:H | 1:16:A:SER:H | 4 | 3.47 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 6 | 3.47 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 6 | 3.47 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 6 | 3.47 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 7 | 3.47 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 7 | 3.47 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 7 | 3.47 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 5 | 3.47 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 7 | 3.47 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 20 | 3.47 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 20 | 3.47 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 9 | 3.47 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 9 | 3.47 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 19 | 3.47 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 3 | 3.47 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 4 | 3.47 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 7 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 7 | 3.47 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 7 | 3.47 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 13 | 3.47 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 13 | 3.47 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 15 | 3.47 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 4 | 3.47 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 6 | 3.47 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 3 | 3.47 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 3 | 3.47 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 15 | 3.47 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 15 | 3.47 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 9 | 3.47 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 3 | 3.47 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 17 | 3.47 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 13 | 3.47 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 11 | 3.47 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 4 | 3.47 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 7 | 3.47 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 15 | 3.47 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 9 | 3.47 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 9 | 3.47 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 9 | 3.47 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 9 | 3.47 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 9 | 3.47 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 9 | 3.47 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 2 | 3.47 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 2 | 3.47 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 2 | 3.47 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 6 | 3.47 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 11 | 3.47 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 15 | 3.47 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 15 | 3.47 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 15 | 3.47 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 12 | 3.47 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 2 | 3.47 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 2 | 3.47 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 2 | 3.47 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 7 | 3.47 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 3.47 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 9 | 3.47 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 11 | 3.47 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 11 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 11 | 3.47 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 12 | 3.47 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 12 | 3.47 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 12 | 3.47 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 1 | 3.47 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 1 | 3.47 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 1 | 3.47 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 11 | 3.47 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 11 | 3.47 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 11 | 3.47 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 19 | 3.47 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 19 | 3.47 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 19 | 3.47 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 12 | 3.47 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 12 | 3.47 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 12 | 3.47 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 13 | 3.47 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 13 | 3.47 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 13 | 3.47 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 4 | 3.47 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 4 | 3.47 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 4 | 3.47 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 12 | 3.47 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 12 | 3.47 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 12 | 3.47 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 15 | 3.47 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 15 | 3.47 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 15 | 3.47 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 16 | 3.47 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 16 | 3.47 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 19 | 3.47 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 19 | 3.47 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 19 | 3.47 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 18 | 3.47 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 18 | 3.47 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 18 | 3.47 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 4 | 3.47 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 10 | 3.47 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 10 | 3.47 |
| (1,1864) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 10 | 3.47 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 13 | 3.47 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 3 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 10 | 3.47 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 19 | 3.47 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 19 | 3.47 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 19 | 3.47 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 10 | 3.47 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 10 | 3.47 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 10 | 3.47 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 15 | 3.47 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 15 | 3.47 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 15 | 3.47 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 15 | 3.47 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 15 | 3.47 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 15 | 3.47 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 12 | 3.47 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 12 | 3.47 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 12 | 3.47 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 5 | 3.47 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 7 | 3.47 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 7 | 3.47 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 7 | 3.47 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 14 | 3.47 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 14 | 3.47 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 14 | 3.47 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 14 | 3.47 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 3 | 3.47 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 5 | 3.47 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 5 | 3.47 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 5 | 3.47 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 5 | 3.47 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 5 | 3.47 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 5 | 3.47 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 7 | 3.47 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 9 | 3.47 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 13 | 3.47 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 2 | 3.47 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 10 | 3.47 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 7 | 3.47 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 7 | 3.47 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 9 | 3.47 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 16 | 3.47 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 15 | 3.47 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 8 | 3.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 8 | 3.47 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 8 | 3.47 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 17 | 3.47 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 9 | 3.47 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 10 | 3.47 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 10 | 3.47 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 10 | 3.47 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 10 | 3.47 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 10 | 3.47 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 10 | 3.47 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 6 | 3.47 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 19 | 3.47 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 12 | 3.47 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 20 | 3.47 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 10 | 3.47 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 6 | 3.47 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 1 | 3.47 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 1 | 3.47 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 1 | 3.47 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 18 | 3.47 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 12 | 3.47 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 12 | 3.47 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 12 | 3.47 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 12 | 3.47 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 12 | 3.47 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 12 | 3.47 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 12 | 3.47 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 12 | 3.47 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 12 | 3.47 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 5 | 3.47 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 3 | 3.47 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 3 | 3.47 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 3 | 3.47 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 15 | 3.47 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 7 | 3.47 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 16 | 3.46 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 1 | 3.46 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 1 | 3.46 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 7 | 3.46 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 7 | 3.46 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 7 | 3.46 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 7 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 7 | 3.46 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 7 | 3.46 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 7 | 3.46 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 7 | 3.46 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 14 | 3.46 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 14 | 3.46 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 11 | 3.46 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 11 | 3.46 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 7 | 3.46 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 7 | 3.46 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 17 | 3.46 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 17 | 3.46 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 17 | 3.46 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 17 | 3.46 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 9 | 3.46 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 9 | 3.46 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 18 | 3.46 |
| (1,9425) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 18 | 3.46 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 4 | 3.46 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 4 | 3.46 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 1 | 3.46 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 1 | 3.46 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 6 | 3.46 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 6 | 3.46 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 18 | 3.46 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 18 | 3.46 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 18 | 3.46 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 18 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 2 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 2 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 2 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 2 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 2 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 2 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 14 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 14 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 14 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 14 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 14 | 3.46 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 14 | 3.46 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 4 | 3.46 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 4 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 9 | 3.46 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 9 | 3.46 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 18 | 3.46 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 18 | 3.46 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 9 | 3.46 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 9 | 3.46 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 3.46 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 20 | 3.46 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 3 | 3.46 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 3 | 3.46 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 3 | 3.46 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 3 | 3.46 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 5 | 3.46 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 5 | 3.46 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 4 | 3.46 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 4 | 3.46 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 4 | 3.46 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 4 | 3.46 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 13 | 3.46 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 13 | 3.46 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 8 | 3.46 |
| (1,9169) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 8 | 3.46 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 8 | 3.46 |
| (1,9169) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 8 | 3.46 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 8 | 3.46 |
| (1,9169) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 8 | 3.46 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 5 | 3.46 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 5 | 3.46 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 8 | 3.46 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 8 | 3.46 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 1 | 3.46 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 1 | 3.46 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 8 | 3.46 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 8 | 3.46 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 10 | 3.46 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 10 | 3.46 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 7 | 3.46 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 7 | 3.46 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 15 | 3.46 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 15 | 3.46 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 6 | 3.46 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 6 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 6 | 3.46 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 6 | 3.46 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 14 | 3.46 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 14 | 3.46 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 14 | 3.46 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 14 | 3.46 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 14 | 3.46 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 14 | 3.46 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 6 | 3.46 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 6 | 3.46 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 6 | 3.46 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 6 | 3.46 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 6 | 3.46 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 6 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 9 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 9 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 9 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 9 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 9 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 9 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 12 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 12 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 12 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 12 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 12 | 3.46 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 12 | 3.46 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 16 | 3.46 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 16 | 3.46 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 17 | 3.46 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 17 | 3.46 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 16 | 3.46 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 16 | 3.46 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 16 | 3.46 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 16 | 3.46 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 11 | 3.46 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 11 | 3.46 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 11 | 3.46 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 18 | 3.46 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 10 | 3.46 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 10 | 3.46 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 10 | 3.46 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 10 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 10 | 3.46 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 10 | 3.46 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 1 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 6 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 6 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 6 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 6 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 6 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 6 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 6 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 6 | 3.46 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 6 | 3.46 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 19 | 3.46 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 5 | 3.46 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 5 | 3.46 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 5 | 3.46 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 2 | 3.46 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 5 | 3.46 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 5 | 3.46 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 5 | 3.46 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 5 | 3.46 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 5 | 3.46 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 5 | 3.46 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 5 | 3.46 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 5 | 3.46 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 5 | 3.46 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 16 | 3.46 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 16 | 3.46 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 16 | 3.46 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 16 | 3.46 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 11 | 3.46 |
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG2 | 19 | 3.46 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG2 | 19 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7666) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HG3 | 19 | 3.46 |
| (1,7666) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HG3 | 19 | 3.46 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 18 | 3.46 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 12 | 3.46 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 12 | 3.46 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 6 | 3.46 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 3 | 3.46 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 7 | 3.46 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 7 | 3.46 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 10 | 3.46 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 10 | 3.46 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 10 | 3.46 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 13 | 3.46 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 13 | 3.46 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 2 | 3.46 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 15 | 3.46 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 16 | 3.46 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 18 | 3.46 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 18 | 3.46 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 11 | 3.46 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 11 | 3.46 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 11 | 3.46 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 9 | 3.46 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 9 | 3.46 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 9 | 3.46 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 4 | 3.46 |
| (1,6784) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 4 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 3 | 3.46 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 3 | 3.46 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 15 | 3.46 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 17 | 3.46 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 10 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 17 | 3.46 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 12 | 3.46 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 8 | 3.46 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 8 | 3.46 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 8 | 3.46 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 2 | 3.46 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 3 | 3.46 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 3 | 3.46 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 3 | 3.46 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 2 | 3.46 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 2 | 3.46 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 2 | 3.46 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 8 | 3.46 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 8 | 3.46 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 8 | 3.46 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 6 | 3.46 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 18 | 3.46 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 18 | 3.46 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 18 | 3.46 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 1 | 3.46 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 1 | 3.46 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 1 | 3.46 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 2 | 3.46 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 2 | 3.46 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 2 | 3.46 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 6 | 3.46 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 15 | 3.46 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 15 | 3.46 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 15 | 3.46 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 15 | 3.46 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 15 | 3.46 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 15 | 3.46 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 15 | 3.46 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 15 | 3.46 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 15 | 3.46 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 7 | 3.46 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 7 | 3.46 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 7 | 3.46 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 7 | 3.46 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 17 | 3.46 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 17 | 3.46 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 14 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 14 | 3.46 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 14 | 3.46 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 4 | 3.46 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 4 | 3.46 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 18 | 3.46 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 18 | 3.46 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 18 | 3.46 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 18 | 3.46 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 18 | 3.46 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 18 | 3.46 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 11 | 3.46 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 11 | 3.46 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 11 | 3.46 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 11 | 3.46 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 11 | 3.46 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 11 | 3.46 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 11 | 3.46 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 11 | 3.46 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 11 | 3.46 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 10 | 3.46 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 6 | 3.46 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 7 | 3.46 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 8 | 3.46 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 17 | 3.46 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 19 | 3.46 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 11 | 3.46 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 11 | 3.46 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 11 | 3.46 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 5 | 3.46 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 5 | 3.46 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 12 | 3.46 |
| (1,5856) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 12 | 3.46 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 17 | 3.46 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 17 | 3.46 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 17 | 3.46 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 13 | 3.46 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 9 | 3.46 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 9 | 3.46 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 9 | 3.46 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 3 | 3.46 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 3 | 3.46 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 3 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 7 | 3.46 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 7 | 3.46 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 7 | 3.46 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 10 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 16 | 3.46 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 16 | 3.46 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 14 | 3.46 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 14 | 3.46 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 14 | 3.46 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 14 | 3.46 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 20 | 3.46 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 13 | 3.46 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 18 | 3.46 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 2 | 3.46 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 2 | 3.46 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 8 | 3.46 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 8 | 3.46 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 8 | 3.46 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 19 | 3.46 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 2 | 3.46 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 11 | 3.46 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 4 | 3.46 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 4 | 3.46 |
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 11 | 3.46 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 11 | 3.46 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 11 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 6 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 6 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 6 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 6 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 6 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 6 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 6 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 6 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 6 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 10 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 10 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 10 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 10 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 10 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 10 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 10 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 10 | 3.46 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 10 | 3.46 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 6 | 3.46 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 18 | 3.46 |
| (1,4739) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 2 | 3.46 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 17 | 3.46 |
| (1,4642) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 17 | 3.46 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 13 | 3.46 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 13 | 3.46 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 13 | 3.46 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 13 | 3.46 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 13 | 3.46 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 13 | 3.46 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 2 | 3.46 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 2 | 3.46 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 2 | 3.46 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 16 | 3.46 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 16 | 3.46 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 16 | 3.46 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 1 | 3.46 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 1 | 3.46 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 17 | 3.46 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 17 | 3.46 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 2 | 3.46 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 9 | 3.46 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 14 | 3.46 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 14 | 3.46 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 7 | 3.46 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 7 | 3.46 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 7 | 3.46 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 7 | 3.46 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 7 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 7 | 3.46 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 14 | 3.46 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 14 | 3.46 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 19 | 3.46 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 19 | 3.46 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 7 | 3.46 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 7 | 3.46 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 18 | 3.46 |
| (1,4406) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 18 | 3.46 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 4 | 3.46 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 4 | 3.46 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 3 | 3.46 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 4 | 3.46 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 4 | 3.46 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 18 | 3.46 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 18 | 3.46 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 12 | 3.46 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 12 | 3.46 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 19 | 3.46 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 20 | 3.46 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 20 | 3.46 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 3.46 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 3.46 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 9 | 3.46 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 9 | 3.46 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 3.46 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 20 | 3.46 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 3 | 3.46 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 3 | 3.46 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 3 | 3.46 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 3 | 3.46 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 5 | 3.46 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 5 | 3.46 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 9 | 3.46 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 9 | 3.46 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 9 | 3.46 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 9 | 3.46 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 9 | 3.46 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 9 | 3.46 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 9 | 3.46 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 2 | 3.46 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 2 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 13 | 3.46 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 13 | 3.46 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 8 | 3.46 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 8 | 3.46 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 8 | 3.46 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 8 | 3.46 |
| (1,4144) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 8 | 3.46 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 8 | 3.46 |
| (1,4144) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 8 | 3.46 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 8 | 3.46 |
| (1,4144) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 8 | 3.46 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 9 | 3.46 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 2 | 3.46 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 14 | 3.46 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 14 | 3.46 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 14 | 3.46 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 5 | 3.46 |
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 5 | 3.46 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 8 | 3.46 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 8 | 3.46 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 17 | 3.46 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 17 | 3.46 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 17 | 3.46 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 17 | 3.46 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 17 | 3.46 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 17 | 3.46 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 1 | 3.46 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 1 | 3.46 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 3 | 3.46 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 10 | 3.46 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 10 | 3.46 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 15 | 3.46 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 15 | 3.46 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 6 | 3.46 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 6 | 3.46 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 6 | 3.46 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 6 | 3.46 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 19 | 3.46 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 19 | 3.46 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 19 | 3.46 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 2 | 3.46 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 2 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 2 | 3.46 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 2 | 3.46 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 2 | 3.46 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 2 | 3.46 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 13 | 3.46 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 13 | 3.46 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 13 | 3.46 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 14 | 3.46 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 14 | 3.46 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 14 | 3.46 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 14 | 3.46 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 14 | 3.46 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 14 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 9 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 9 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 9 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 9 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 9 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 9 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 12 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 12 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 12 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 12 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 12 | 3.46 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 12 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 1 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 1 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 3 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 3 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 6 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 6 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 8 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 8 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 10 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 10 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 12 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 12 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 14 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 14 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 15 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 15 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 17 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 17 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 20 | 3.46 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 20 | 3.46 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 1 | 3.46 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 1 | 3.46 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 5 | 3.46 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 18 | 3.46 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 16 | 3.46 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 16 | 3.46 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 19 | 3.46 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 19 | 3.46 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 19 | 3.46 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 19 | 3.46 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 13 | 3.46 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 14 | 3.46 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 14 | 3.46 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 14 | 3.46 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 14 | 3.46 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 12 | 3.46 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 12 | 3.46 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 10 | 3.46 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 10 | 3.46 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 10 | 3.46 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 13 | 3.46 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 13 | 3.46 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 15 | 3.46 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 2 | 3.46 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 15 | 3.46 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 6 | 3.46 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 13 | 3.46 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 19 | 3.46 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 5 | 3.46 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 2 | 3.46 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 2 | 3.46 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 18 | 3.46 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 18 | 3.46 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 18 | 3.46 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 18 | 3.46 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 20 | 3.46 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 10 | 3.46 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 12 | 3.46 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 12 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 12 | 3.46 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 11 | 3.46 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 11 | 3.46 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 11 | 3.46 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 9 | 3.46 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 9 | 3.46 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 9 | 3.46 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 10 | 3.46 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 10 | 3.46 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 4 | 3.46 |
| (1,2744) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 4 | 3.46 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 15 | 3.46 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 17 | 3.46 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 10 | 3.46 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 17 | 3.46 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 18 | 3.46 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 16 | 3.46 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 3.46 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 16 | 3.46 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 12 | 3.46 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 3.46 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 3.46 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 3.46 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 8 | 3.46 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 8 | 3.46 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 8 | 3.46 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 14 | 3.46 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 3 | 3.46 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 10 | 3.46 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 2 | 3.46 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 8 | 3.46 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 14 | 3.46 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 3 | 3.46 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 3 | 3.46 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 3 | 3.46 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 15 | 3.46 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 15 | 3.46 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 15 | 3.46 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 10 | 3.46 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 2 | 3.46 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 2 | 3.46 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 2 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 8 | 3.46 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 8 | 3.46 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 8 | 3.46 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 6 | 3.46 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 18 | 3.46 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 18 | 3.46 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 18 | 3.46 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 1 | 3.46 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 1 | 3.46 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 1 | 3.46 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 2 | 3.46 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 2 | 3.46 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 2 | 3.46 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 6 | 3.46 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 15 | 3.46 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 15 | 3.46 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 15 | 3.46 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 15 | 3.46 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 15 | 3.46 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 15 | 3.46 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 15 | 3.46 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 15 | 3.46 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 15 | 3.46 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 7 | 3.46 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 7 | 3.46 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 7 | 3.46 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 7 | 3.46 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 17 | 3.46 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 17 | 3.46 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 9 | 3.46 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 9 | 3.46 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 9 | 3.46 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 14 | 3.46 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 14 | 3.46 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 14 | 3.46 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 18 | 3.46 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 18 | 3.46 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 18 | 3.46 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 1 | 3.46 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 11 | 3.46 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 13 | 3.46 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 4 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 4 | 3.46 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 18 | 3.46 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 18 | 3.46 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 18 | 3.46 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 18 | 3.46 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 18 | 3.46 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 18 | 3.46 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 16 | 3.46 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 11 | 3.46 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 11 | 3.46 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 11 | 3.46 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 11 | 3.46 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 11 | 3.46 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 11 | 3.46 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 11 | 3.46 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 11 | 3.46 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 11 | 3.46 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 10 | 3.46 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 5 | 3.46 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 6 | 3.46 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 5 | 3.46 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 15 | 3.46 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 18 | 3.46 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 8 | 3.46 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 17 | 3.46 |
| (1,1380) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 8 | 3.46 |
| (1,1380) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 8 | 3.46 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 19 | 3.46 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 6 | 3.46 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 12 | 3.46 |
| (1,1248) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 12 | 3.46 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 2 | 3.46 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 13 | 3.46 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 17 | 3.46 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 17 | 3.46 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 17 | 3.46 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 7 | 3.46 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 8 | 3.46 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 13 | 3.46 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 20 | 3.46 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 13 | 3.46 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 20 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 12 | 3.46 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 12 | 3.46 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 12 | 3.46 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 15 | 3.46 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 9 | 3.46 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 9 | 3.46 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 9 | 3.46 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 2 | 3.46 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 6 | 3.46 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 6 | 3.46 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 6 | 3.46 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 1 | 3.46 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 3 | 3.46 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 15 | 3.46 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 17 | 3.46 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 9 | 3.46 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 7 | 3.46 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 7 | 3.46 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 7 | 3.46 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 3 | 3.46 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 3 | 3.46 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 3 | 3.46 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 7 | 3.46 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 7 | 3.46 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 7 | 3.46 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 18 | 3.46 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 12 | 3.46 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 19 | 3.46 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 3.46 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 10 | 3.46 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 12 | 3.46 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 1 | 3.46 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 1 | 3.46 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 1 | 3.46 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 1 | 3.46 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 1 | 3.46 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 1 | 3.46 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 1 | 3.46 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 1 | 3.46 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 1 | 3.46 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 12 | 3.46 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 12 | 3.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 19 | 3.46 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 19 | 3.46 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 19 | 3.46 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 2 | 3.46 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 9 | 3.46 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 18 | 3.46 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 18 | 3.46 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 18 | 3.46 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 18 | 3.46 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 5 | 3.45 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 5 | 3.45 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 1 | 3.45 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 1 | 3.45 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 19 | 3.45 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 19 | 3.45 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 19 | 3.45 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 19 | 3.45 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 19 | 3.45 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 19 | 3.45 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 18 | 3.45 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 18 | 3.45 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 4 | 3.45 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 4 | 3.45 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 4 | 3.45 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 4 | 3.45 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 16 | 3.45 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 16 | 3.45 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 16 | 3.45 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 16 | 3.45 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 14 | 3.45 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 14 | 3.45 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 11 | 3.45 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 11 | 3.45 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 11 | 3.45 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 11 | 3.45 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 8 | 3.45 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 8 | 3.45 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 8 | 3.45 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 8 | 3.45 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 10 | 3.45 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 10 | 3.45 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 10 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 10 | 3.45 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 2 | 3.45 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 2 | 3.45 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 2 | 3.45 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 2 | 3.45 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 5 | 3.45 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 5 | 3.45 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 9 | 3.45 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 9 | 3.45 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 9 | 3.45 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 9 | 3.45 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 13 | 3.45 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 13 | 3.45 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 13 | 3.45 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 13 | 3.45 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 1 | 3.45 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 1 | 3.45 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 13 | 3.45 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 13 | 3.45 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 15 | 3.45 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 15 | 3.45 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 15 | 3.45 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 15 | 3.45 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 15 | 3.45 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 15 | 3.45 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 7 | 3.45 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 6 | 3.45 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 14 | 3.45 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 6 | 3.45 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 2 | 3.45 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 19 | 3.45 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 19 | 3.45 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 13 | 3.45 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD21 | 13 | 3.45 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD22 | 13 | 3.45 |
| (1,8094) | 1:92:A:TYR:HA | 1:106:A:LEU:HD23 | 13 | 3.45 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 2 | 3.45 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 7 | 3.45 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 3 | 3.45 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 3 | 3.45 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 3 | 3.45 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 3 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 3 | 3.45 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 15 | 3.45 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 15 | 3.45 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 15 | 3.45 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 5 | 3.45 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 9 | 3.45 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 9 | 3.45 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 9 | 3.45 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 19 | 3.45 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 18 | 3.45 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 4 | 3.45 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 19 | 3.45 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 7 | 3.45 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 10 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 6 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 6 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 6 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 6 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 6 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 6 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 18 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 18 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 18 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 18 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 18 | 3.45 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 18 | 3.45 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 14 | 3.45 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 14 | 3.45 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 14 | 3.45 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 16 | 3.45 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 16 | 3.45 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 16 | 3.45 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 15 | 3.45 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 15 | 3.45 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 15 | 3.45 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 4 | 3.45 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 4 | 3.45 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 4 | 3.45 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 2 | 3.45 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 2 | 3.45 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 2 | 3.45 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 5 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 5 | 3.45 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 5 | 3.45 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 6 | 3.45 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 6 | 3.45 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 6 | 3.45 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 8 | 3.45 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 17 | 3.45 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 15 | 3.45 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 15 | 3.45 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 15 | 3.45 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 12 | 3.45 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 12 | 3.45 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 12 | 3.45 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 12 | 3.45 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 5 | 3.45 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 5 | 3.45 |
| (1,6752) | 1:22:A:VAL:H | 1:23:A:TYR:H | 18 | 3.45 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 2 | 3.45 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 20 | 3.45 |
| (1,6613) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 16 | 3.45 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 9 | 3.45 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 16 | 3.45 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 16 | 3.45 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 16 | 3.45 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 16 | 3.45 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 16 | 3.45 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 16 | 3.45 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 14 | 3.45 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 5 | 3.45 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 10 | 3.45 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 7 | 3.45 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 11 | 3.45 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 11 | 3.45 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 11 | 3.45 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 11 | 3.45 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 11 | 3.45 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 11 | 3.45 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 11 | 3.45 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 11 | 3.45 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 11 | 3.45 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 12 | 3.45 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 12 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 12 | 3.45 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 5 | 3.45 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 6 | 3.45 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 6 | 3.45 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 6 | 3.45 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 8 | 3.45 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 8 | 3.45 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 10 | 3.45 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 10 | 3.45 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 10 | 3.45 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 10 | 3.45 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 10 | 3.45 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 10 | 3.45 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 10 | 3.45 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 10 | 3.45 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 10 | 3.45 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 14 | 3.45 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 3.45 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 11 | 3.45 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 6 | 3.45 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 6 | 3.45 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 6 | 3.45 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 6 | 3.45 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 6 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 2 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 2 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 2 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 2 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 2 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 2 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 2 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 2 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 2 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 18 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 18 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 18 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 18 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 18 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 18 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 18 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 18 | 3.45 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 18 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 15 | 3.45 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 15 | 3.45 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 15 | 3.45 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 6 | 3.45 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 1 | 3.45 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 1 | 3.45 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 1 | 3.45 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 20 | 3.45 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 20 | 3.45 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 20 | 3.45 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 20 | 3.45 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 9 | 3.45 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 9 | 3.45 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 10 | 3.45 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 10 | 3.45 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 10 | 3.45 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 17 | 3.45 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 7 | 3.45 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 16 | 3.45 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 1 | 3.45 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 16 | 3.45 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 15 | 3.45 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 19 | 3.45 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 19 | 3.45 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 19 | 3.45 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 19 | 3.45 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 10 | 3.45 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 10 | 3.45 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 10 | 3.45 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 6 | 3.45 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 9 | 3.45 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 9 | 3.45 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 9 | 3.45 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 6 | 3.45 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 6 | 3.45 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 6 | 3.45 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 15 | 3.45 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 15 | 3.45 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 15 | 3.45 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 16 | 3.45 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 17 | 3.45 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 18 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 18 | 3.45 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 18 | 3.45 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 18 | 3.45 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 18 | 3.45 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 18 | 3.45 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 19 | 3.45 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 4 | 3.45 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 4 | 3.45 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 4 | 3.45 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 3 | 3.45 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 3 | 3.45 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 3 | 3.45 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 11 | 3.45 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 11 | 3.45 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 11 | 3.45 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 13 | 3.45 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 9 | 3.45 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 5 | 3.45 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 5 | 3.45 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 5 | 3.45 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 16 | 3.45 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 19 | 3.45 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 19 | 3.45 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 19 | 3.45 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 5 | 3.45 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 11 | 3.45 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 11 | 3.45 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 5 | 3.45 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 5 | 3.45 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 20 | 3.45 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 20 | 3.45 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 20 | 3.45 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 20 | 3.45 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 20 | 3.45 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 20 | 3.45 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 20 | 3.45 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 20 | 3.45 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 20 | 3.45 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 2 | 3.45 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 2 | 3.45 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 2 | 3.45 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 12 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 12 | 3.45 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 12 | 3.45 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 4 | 3.45 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 4 | 3.45 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 4 | 3.45 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 6 | 3.45 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 6 | 3.45 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 6 | 3.45 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 5 | 3.45 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 11 | 3.45 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 19 | 3.45 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 19 | 3.45 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 19 | 3.45 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 19 | 3.45 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 19 | 3.45 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 19 | 3.45 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 3 | 3.45 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 13 | 3.45 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 13 | 3.45 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 13 | 3.45 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 13 | 3.45 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 4 | 3.45 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 4 | 3.45 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 18 | 3.45 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 18 | 3.45 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 14 | 3.45 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 5 | 3.45 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 4 | 3.45 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 4 | 3.45 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 16 | 3.45 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 16 | 3.45 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 16 | 3.45 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 16 | 3.45 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 10 | 3.45 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 17 | 3.45 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 17 | 3.45 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 19 | 3.45 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 19 | 3.45 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 19 | 3.45 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 19 | 3.45 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 16 | 3.45 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 16 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 1 | 3.45 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 4 | 3.45 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 4 | 3.45 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 2 | 3.45 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 2 | 3.45 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 2 | 3.45 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 10 | 3.45 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 10 | 3.45 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 10 | 3.45 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 10 | 3.45 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 10 | 3.45 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 10 | 3.45 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 1 | 3.45 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 6 | 3.45 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 6 | 3.45 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 6 | 3.45 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 6 | 3.45 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 14 | 3.45 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 14 | 3.45 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 11 | 3.45 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 11 | 3.45 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 11 | 3.45 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 11 | 3.45 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 9 | 3.45 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 3.45 |
| (1,3948) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 7 | 3.45 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 11 | 3.45 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 7 | 3.45 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 7 | 3.45 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 7 | 3.45 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 7 | 3.45 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 7 | 3.45 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 7 | 3.45 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 3 | 3.45 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 3 | 3.45 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 3 | 3.45 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 3 | 3.45 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 6 | 3.45 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 6 | 3.45 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 18 | 3.45 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 18 | 3.45 |
| (1,3693) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 18 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 5 | 3.45 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 5 | 3.45 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 16 | 3.45 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 16 | 3.45 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 17 | 3.45 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 5 | 3.45 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 5 | 3.45 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 9 | 3.45 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 9 | 3.45 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 9 | 3.45 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 9 | 3.45 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 13 | 3.45 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 13 | 3.45 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 13 | 3.45 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 13 | 3.45 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 5 | 3.45 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 12 | 3.45 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 4 | 3.45 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 4 | 3.45 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 4 | 3.45 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 2 | 3.45 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 2 | 3.45 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 2 | 3.45 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 12 | 3.45 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 12 | 3.45 |
| (1,3430) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 12 | 3.45 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 4 | 3.45 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 8 | 3.45 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 5 | 3.45 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 5 | 3.45 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 5 | 3.45 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 6 | 3.45 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 6 | 3.45 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 6 | 3.45 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 5 | 3.45 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 15 | 3.45 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 20 | 3.45 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 6 | 3.45 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 8 | 3.45 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 1 | 3.45 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 4 | 3.45 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 5 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 15 | 3.45 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 15 | 3.45 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 15 | 3.45 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 19 | 3.45 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 19 | 3.45 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 5 | 3.45 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 5 | 3.45 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 5 | 3.45 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 5 | 3.45 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 5 | 3.45 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 5 | 3.45 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 12 | 3.45 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 12 | 3.45 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 12 | 3.45 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 12 | 3.45 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 10 | 3.45 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 10 | 3.45 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 5 | 3.45 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 5 | 3.45 |
| (1,2692) | 1:22:A:VAL:H | 1:23:A:TYR:H | 18 | 3.45 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 3 | 3.45 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 9 | 3.45 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 5 | 3.45 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 5 | 3.45 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 5 | 3.45 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 2 | 3.45 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 20 | 3.45 |
| (1,2470) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 16 | 3.45 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 9 | 3.45 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 16 | 3.45 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 16 | 3.45 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 16 | 3.45 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 16 | 3.45 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 16 | 3.45 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 16 | 3.45 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 14 | 3.45 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 5 | 3.45 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 3.45 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 3 | 3.45 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 19 | 3.45 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 10 | 3.45 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 5 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 5 | 3.45 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 5 | 3.45 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 7 | 3.45 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 7 | 3.45 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 11 | 3.45 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 11 | 3.45 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 11 | 3.45 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 11 | 3.45 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 11 | 3.45 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 11 | 3.45 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 11 | 3.45 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 11 | 3.45 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 11 | 3.45 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 12 | 3.45 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 12 | 3.45 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 12 | 3.45 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 2 | 3.45 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 2 | 3.45 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 2 | 3.45 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 19 | 3.45 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 19 | 3.45 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 19 | 3.45 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 5 | 3.45 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 2 | 3.45 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 2 | 3.45 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 2 | 3.45 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 13 | 3.45 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 5 | 3.45 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 13 | 3.45 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 13 | 3.45 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 13 | 3.45 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 6 | 3.45 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 6 | 3.45 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 6 | 3.45 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 8 | 3.45 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 8 | 3.45 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 10 | 3.45 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 10 | 3.45 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 10 | 3.45 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 10 | 3.45 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 10 | 3.45 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 10 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 10 | 3.45 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 10 | 3.45 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 10 | 3.45 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 14 | 3.45 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 3.45 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 11 | 3.45 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 6 | 3.45 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 6 | 3.45 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 6 | 3.45 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 6 | 3.45 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 6 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 2 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 2 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 2 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 2 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 2 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 2 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 2 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 2 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 2 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 18 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 18 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 18 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 18 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 18 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 18 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 18 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 18 | 3.45 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 18 | 3.45 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 15 | 3.45 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 15 | 3.45 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 15 | 3.45 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 6 | 3.45 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 3 | 3.45 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 3 | 3.45 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 1 | 3.45 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 1 | 3.45 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 1 | 3.45 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 2 | 3.45 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 8 | 3.45 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 11 | 3.45 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 1 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 1 | 3.45 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 6 | 3.45 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 6 | 3.45 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 9 | 3.45 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 16 | 3.45 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 7 | 3.45 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 20 | 3.45 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 2 | 3.45 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 20 | 3.45 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 20 | 3.45 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 20 | 3.45 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 9 | 3.45 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 9 | 3.45 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 15 | 3.45 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 18 | 3.45 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 10 | 3.45 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 10 | 3.45 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 10 | 3.45 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 17 | 3.45 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 9 | 3.45 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 14 | 3.45 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 16 | 3.45 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 17 | 3.45 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 20 | 3.45 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 16 | 3.45 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 1 | 3.45 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 16 | 3.45 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 13 | 3.45 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 20 | 3.45 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 15 | 3.45 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 19 | 3.45 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 19 | 3.45 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 19 | 3.45 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 19 | 3.45 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 10 | 3.45 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 10 | 3.45 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 10 | 3.45 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 17 | 3.45 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 10 | 3.45 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 9 | 3.45 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 9 | 3.45 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 9 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 19 | 3.45 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 6 | 3.45 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 6 | 3.45 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 6 | 3.45 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 15 | 3.45 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 15 | 3.45 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 15 | 3.45 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 16 | 3.45 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 17 | 3.45 |
| (1,548) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 20 | 3.45 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 2 | 3.45 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 2 | 3.45 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 2 | 3.45 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 2 | 3.45 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 2 | 3.45 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 2 | 3.45 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 18 | 3.45 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 18 | 3.45 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 18 | 3.45 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 18 | 3.45 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 18 | 3.45 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 18 | 3.45 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 3 | 3.45 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 3 | 3.45 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 3 | 3.45 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 3 | 3.45 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 3 | 3.45 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 3 | 3.45 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 17 | 3.45 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 17 | 3.45 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 16 | 3.45 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 1 | 3.45 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 1 | 3.45 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 1 | 3.45 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 16 | 3.45 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 18 | 3.44 |
| (4,281) | 1:98:A:SER:CB | 1:2:A:ALA:H | 4 | 3.44 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 14 | 3.44 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 12 | 3.44 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 10 | 3.44 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 10 | 3.44 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 10 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 10 | 3.44 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 10 | 3.44 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 10 | 3.44 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 16 | 3.44 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 16 | 3.44 |
| (1,9518) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 16 | 3.44 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 16 | 3.44 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 16 | 3.44 |
| (1,9518) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 16 | 3.44 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 10 | 3.44 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 10 | 3.44 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 10 | 3.44 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 10 | 3.44 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 10 | 3.44 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 10 | 3.44 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 15 | 3.44 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 15 | 3.44 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 9 | 3.44 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 9 | 3.44 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 1 | 3.44 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 1 | 3.44 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 1 | 3.44 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 1 | 3.44 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 9 | 3.44 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 9 | 3.44 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 19 | 3.44 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 19 | 3.44 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 8 | 3.44 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 8 | 3.44 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 8 | 3.44 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 8 | 3.44 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 13 | 3.44 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 13 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 5 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 5 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 5 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 5 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 10 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 10 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 10 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 10 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 20 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 20 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 3.44 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 3.44 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 13 | 3.44 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 13 | 3.44 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 13 | 3.44 |
| (1,8905) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 13 | 3.44 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 18 | 3.44 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 18 | 3.44 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 18 | 3.44 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 18 | 3.44 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 18 | 3.44 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 18 | 3.44 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 8 | 3.44 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 8 | 3.44 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 12 | 3.44 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 12 | 3.44 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 12 | 3.44 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 12 | 3.44 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 12 | 3.44 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 12 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 4 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 4 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 4 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 4 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 4 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 4 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 18 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 18 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 18 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 18 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 18 | 3.44 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 18 | 3.44 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 2 | 3.44 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 2 | 3.44 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 3 | 3.44 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 3 | 3.44 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 3 | 3.44 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 3 | 3.44 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 3 | 3.44 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 3 | 3.44 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 15 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 15 | 3.44 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 15 | 3.44 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 15 | 3.44 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 15 | 3.44 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 15 | 3.44 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 9 | 3.44 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 9 | 3.44 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 20 | 3.44 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 3.44 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 20 | 3.44 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 3.44 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 20 | 3.44 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 3.44 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 2 | 3.44 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 20 | 3.44 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 20 | 3.44 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 20 | 3.44 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 15 | 3.44 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 15 | 3.44 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 15 | 3.44 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 15 | 3.44 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 15 | 3.44 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 15 | 3.44 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 15 | 3.44 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 15 | 3.44 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 15 | 3.44 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 12 | 3.44 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 12 | 3.44 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 12 | 3.44 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 7 | 3.44 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 3 | 3.44 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 16 | 3.44 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 14 | 3.44 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 17 | 3.44 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 17 | 3.44 |
| (1,8069) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 9 | 3.44 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 13 | 3.44 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 20 | 3.44 |
| (1,8029) | 1:86:A:LEU:HD11 | 1:89:A:ILE:H | 10 | 3.44 |
| (1,8029) | 1:86:A:LEU:HD12 | 1:89:A:ILE:H | 10 | 3.44 |
| (1,8029) | 1:86:A:LEU:HD13 | 1:89:A:ILE:H | 10 | 3.44 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 4 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 10 | 3.44 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 7 | 3.44 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 14 | 3.44 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 4 | 3.44 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 4 | 3.44 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 4 | 3.44 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 8 | 3.44 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 10 | 3.44 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 17 | 3.44 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 13 | 3.44 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 5 | 3.44 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 5 | 3.44 |
| (1,7675) | 1:36:A:ARG:HA | 1:38:A:SER:H | 10 | 3.44 |
| (1,7658) | 1:33:A:GLN:H | 1:33:A:GLN:HE22 | 16 | 3.44 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 17 | 3.44 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 17 | 3.44 |
| (1,7563) | 1:22:A:VAL:HG11 | 1:23:A:TYR:HA | 3 | 3.44 |
| (1,7563) | 1:22:A:VAL:HG12 | 1:23:A:TYR:HA | 3 | 3.44 |
| (1,7563) | 1:22:A:VAL:HG13 | 1:23:A:TYR:HA | 3 | 3.44 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 12 | 3.44 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 6 | 3.44 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 13 | 3.44 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 13 | 3.44 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 13 | 3.44 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 13 | 3.44 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 13 | 3.44 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 13 | 3.44 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 14 | 3.44 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 14 | 3.44 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 19 | 3.44 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 19 | 3.44 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 19 | 3.44 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 18 | 3.44 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 13 | 3.44 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 9 | 3.44 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 9 | 3.44 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 9 | 3.44 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 15 | 3.44 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 15 | 3.44 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 15 | 3.44 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 1 | 3.44 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 2 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 2 | 3.44 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 4 | 3.44 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 4 | 3.44 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 4 | 3.44 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 4 | 3.44 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 15 | 3.44 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 15 | 3.44 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 15 | 3.44 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 15 | 3.44 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 1 | 3.44 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 1 | 3.44 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 4 | 3.44 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 4 | 3.44 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 4 | 3.44 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 4 | 3.44 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 4 | 3.44 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 4 | 3.44 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 4 | 3.44 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 4 | 3.44 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 4 | 3.44 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 16 | 3.44 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 16 | 3.44 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 16 | 3.44 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 16 | 3.44 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 16 | 3.44 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 16 | 3.44 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 16 | 3.44 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 16 | 3.44 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 16 | 3.44 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 3 | 3.44 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 3 | 3.44 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 3 | 3.44 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 16 | 3.44 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 20 | 3.44 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 17 | 3.44 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 17 | 3.44 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 17 | 3.44 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 9 | 3.44 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 9 | 3.44 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 9 | 3.44 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 4 | 3.44 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 15 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 17 | 3.44 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 9 | 3.44 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 9 | 3.44 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 9 | 3.44 |
| (1,6464) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 18 | 3.44 |
| (1,6464) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 18 | 3.44 |
| (1,6464) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 18 | 3.44 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 19 | 3.44 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 19 | 3.44 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 19 | 3.44 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 2 | 3.44 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 2 | 3.44 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 2 | 3.44 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 6 | 3.44 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 10 | 3.44 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 10 | 3.44 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 10 | 3.44 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 11 | 3.44 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 11 | 3.44 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 11 | 3.44 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 3.44 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 3 | 3.44 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 12 | 3.44 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 12 | 3.44 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 12 | 3.44 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 7 | 3.44 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 7 | 3.44 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 7 | 3.44 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 8 | 3.44 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 8 | 3.44 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 8 | 3.44 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 20 | 3.44 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 20 | 3.44 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 20 | 3.44 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 10 | 3.44 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 15 | 3.44 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 15 | 3.44 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 15 | 3.44 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 15 | 3.44 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 15 | 3.44 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 15 | 3.44 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 6 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 9 | 3.44 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 9 | 3.44 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 9 | 3.44 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 1 | 3.44 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 1 | 3.44 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 13 | 3.44 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 18 | 3.44 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 17 | 3.44 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 17 | 3.44 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 17 | 3.44 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 14 | 3.44 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 14 | 3.44 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 14 | 3.44 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 10 | 3.44 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 8 | 3.44 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 10 | 3.44 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 10 | 3.44 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 10 | 3.44 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 10 | 3.44 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 10 | 3.44 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 10 | 3.44 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 5 | 3.44 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 14 | 3.44 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 14 | 3.44 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 16 | 3.44 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 16 | 3.44 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 3 | 3.44 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 3 | 3.44 |
| (1,5792) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 3 | 3.44 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 19 | 3.44 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 4 | 3.44 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 12 | 3.44 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 3 | 3.44 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 11 | 3.44 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 14 | 3.44 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 6 | 3.44 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 11 | 3.44 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 10 | 3.44 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 15 | 3.44 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 6 | 3.44 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 15 | 3.44 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 15 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 15 | 3.44 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 2 | 3.44 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 2 | 3.44 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 2 | 3.44 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 14 | 3.44 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 14 | 3.44 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 14 | 3.44 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 19 | 3.44 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 19 | 3.44 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 19 | 3.44 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 18 | 3.44 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 18 | 3.44 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 18 | 3.44 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 4 | 3.44 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 4 | 3.44 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 4 | 3.44 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 5 | 3.44 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 5 | 3.44 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 5 | 3.44 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 9 | 3.44 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 20 | 3.44 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 8 | 3.44 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 9 | 3.44 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 9 | 3.44 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 9 | 3.44 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 9 | 3.44 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 9 | 3.44 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 9 | 3.44 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 9 | 3.44 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 9 | 3.44 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 9 | 3.44 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 8 | 3.44 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 8 | 3.44 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 8 | 3.44 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 7 | 3.44 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 7 | 3.44 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 7 | 3.44 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 18 | 3.44 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 7 | 3.44 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 12 | 3.44 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 17 | 3.44 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 12 | 3.44 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 3 | 3.44 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 10 | 3.44 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 10 | 3.44 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 10 | 3.44 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 10 | 3.44 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 10 | 3.44 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 10 | 3.44 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 10 | 3.44 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 10 | 3.44 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 10 | 3.44 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 16 | 3.44 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 16 | 3.44 |
| (1,4504) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 16 | 3.44 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 16 | 3.44 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 16 | 3.44 |
| (1,4504) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 16 | 3.44 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 10 | 3.44 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 10 | 3.44 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 10 | 3.44 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 10 | 3.44 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 10 | 3.44 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 10 | 3.44 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 9 | 3.44 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 9 | 3.44 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 9 | 3.44 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 9 | 3.44 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 9 | 3.44 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 9 | 3.44 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 1 | 3.44 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 1 | 3.44 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 6 | 3.44 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 6 | 3.44 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 15 | 3.44 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 15 | 3.44 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 9 | 3.44 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 9 | 3.44 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 11 | 3.44 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 18 | 3.44 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 7 | 3.44 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 9 | 3.44 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 9 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 4 | 3.44 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 4 | 3.44 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 4 | 3.44 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 1 | 3.44 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 1 | 3.44 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 1 | 3.44 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 1 | 3.44 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 1 | 3.44 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 1 | 3.44 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 19 | 3.44 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 19 | 3.44 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 16 | 3.44 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 16 | 3.44 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 16 | 3.44 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 16 | 3.44 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 16 | 3.44 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 16 | 3.44 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 13 | 3.44 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 13 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 5 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 5 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 5 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 5 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 10 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 10 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 10 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 10 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 20 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 20 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 3.44 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 3.44 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 13 | 3.44 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 13 | 3.44 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 13 | 3.44 |
| (1,3866) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 13 | 3.44 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 18 | 3.44 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 18 | 3.44 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 18 | 3.44 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 18 | 3.44 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 18 | 3.44 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 18 | 3.44 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 12 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 12 | 3.44 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 12 | 3.44 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 12 | 3.44 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 12 | 3.44 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 12 | 3.44 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 6 | 3.44 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 6 | 3.44 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 10 | 3.44 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 10 | 3.44 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 10 | 3.44 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 2 | 3.44 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 2 | 3.44 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 19 | 3.44 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 19 | 3.44 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 19 | 3.44 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 19 | 3.44 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 3 | 3.44 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 3 | 3.44 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 3 | 3.44 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 3 | 3.44 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 3 | 3.44 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 3 | 3.44 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 9 | 3.44 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 9 | 3.44 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 9 | 3.44 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 9 | 3.44 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 9 | 3.44 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 9 | 3.44 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 15 | 3.44 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 15 | 3.44 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 15 | 3.44 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 15 | 3.44 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 15 | 3.44 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 15 | 3.44 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 2 | 3.44 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 2 | 3.44 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 4 | 3.44 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 4 | 3.44 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 7 | 3.44 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 7 | 3.44 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 9 | 3.44 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 9 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 13 | 3.44 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 13 | 3.44 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 12 | 3.44 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 12 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 10 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 10 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 10 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 10 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 10 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 10 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 16 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 16 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 16 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 16 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 16 | 3.44 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 16 | 3.44 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 15 | 3.44 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 20 | 3.44 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 3.44 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 20 | 3.44 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 3.44 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 20 | 3.44 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 3.44 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 8 | 3.44 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 17 | 3.44 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 17 | 3.44 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 19 | 3.44 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 19 | 3.44 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 19 | 3.44 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 19 | 3.44 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 18 | 3.44 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 5 | 3.44 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 2 | 3.44 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 2 | 3.44 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 2 | 3.44 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 2 | 3.44 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 2 | 3.44 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 2 | 3.44 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 6 | 3.44 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 6 | 3.44 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 6 | 3.44 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 15 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 10 | 3.44 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 13 | 3.44 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 19 | 3.44 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 9 | 3.44 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 9 | 3.44 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 9 | 3.44 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 15 | 3.44 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 15 | 3.44 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 15 | 3.44 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 1 | 3.44 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 2 | 3.44 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 2 | 3.44 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 6 | 3.44 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 6 | 3.44 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 1 | 3.44 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 1 | 3.44 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 4 | 3.44 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 4 | 3.44 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 4 | 3.44 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 4 | 3.44 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 4 | 3.44 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 4 | 3.44 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 4 | 3.44 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 4 | 3.44 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 4 | 3.44 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 16 | 3.44 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 16 | 3.44 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 16 | 3.44 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 16 | 3.44 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 16 | 3.44 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 16 | 3.44 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 16 | 3.44 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 16 | 3.44 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 16 | 3.44 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 3 | 3.44 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 3 | 3.44 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 3 | 3.44 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 14 | 3.44 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 7 | 3.44 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 7 | 3.44 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 7 | 3.44 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 20 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 3.44 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 20 | 3.44 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 16 | 3.44 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 20 | 3.44 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 17 | 3.44 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 17 | 3.44 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 17 | 3.44 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 9 | 3.44 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 9 | 3.44 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 9 | 3.44 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 10 | 3.44 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 17 | 3.44 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 9 | 3.44 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 9 | 3.44 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 9 | 3.44 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 12 | 3.44 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 19 | 3.44 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 1 | 3.44 |
| (1,2241) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 5 | 3.44 |
| (1,2224) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 18 | 3.44 |
| (1,2224) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 18 | 3.44 |
| (1,2224) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 18 | 3.44 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 2 | 3.44 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 2 | 3.44 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 2 | 3.44 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 13 | 3.44 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 6 | 3.44 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 3.44 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 3.44 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 3.44 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 10 | 3.44 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 10 | 3.44 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 10 | 3.44 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 11 | 3.44 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 11 | 3.44 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 11 | 3.44 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 3.44 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 3 | 3.44 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 4 | 3.44 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 2 | 3.44 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 2 | 3.44 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 12 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 12 | 3.44 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 12 | 3.44 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 11 | 3.44 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 11 | 3.44 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 11 | 3.44 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 7 | 3.44 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 7 | 3.44 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 7 | 3.44 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 8 | 3.44 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 8 | 3.44 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 8 | 3.44 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 20 | 3.44 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 20 | 3.44 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 20 | 3.44 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 10 | 3.44 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 15 | 3.44 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 15 | 3.44 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 15 | 3.44 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 15 | 3.44 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 15 | 3.44 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 15 | 3.44 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 2 | 3.44 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 2 | 3.44 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 2 | 3.44 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 6 | 3.44 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 9 | 3.44 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 9 | 3.44 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 9 | 3.44 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 1 | 3.44 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 1 | 3.44 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 1 | 3.44 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 6 | 3.44 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 19 | 3.44 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 13 | 3.44 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 12 | 3.44 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 12 | 3.44 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 12 | 3.44 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 4 | 3.44 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 6 | 3.44 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 19 | 3.44 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 5 | 3.44 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 7 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 7 | 3.44 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 7 | 3.44 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 18 | 3.44 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 4 | 3.44 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 10 | 3.44 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 14 | 3.44 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 17 | 3.44 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 17 | 3.44 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 17 | 3.44 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 14 | 3.44 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 14 | 3.44 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 14 | 3.44 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 10 | 3.44 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 14 | 3.44 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 9 | 3.44 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 7 | 3.44 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 7 | 3.44 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 19 | 3.44 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 19 | 3.44 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 15 | 3.44 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 8 | 3.44 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 18 | 3.44 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 18 | 3.44 |
| (1,1454) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 18 | 3.44 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 8 | 3.44 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 4 | 3.44 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 4 | 3.44 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 4 | 3.44 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 4 | 3.44 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 4 | 3.44 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 4 | 3.44 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 10 | 3.44 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 10 | 3.44 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 10 | 3.44 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 10 | 3.44 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 10 | 3.44 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 10 | 3.44 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 5 | 3.44 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 9 | 3.44 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 6 | 3.44 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 14 | 3.44 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 14 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 16 | 3.44 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 16 | 3.44 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 3 | 3.44 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 3 | 3.44 |
| (1,1148) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 3 | 3.44 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 19 | 3.44 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 11 | 3.44 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 4 | 3.44 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 4 | 3.44 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 4 | 3.44 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 4 | 3.44 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 12 | 3.44 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 3 | 3.44 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 11 | 3.44 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 14 | 3.44 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 6 | 3.44 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 8 | 3.44 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 16 | 3.44 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 11 | 3.44 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 11 | 3.44 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 11 | 3.44 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 11 | 3.44 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 2 | 3.44 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 2 | 3.44 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 2 | 3.44 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 14 | 3.44 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 16 | 3.44 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 11 | 3.44 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 12 | 3.44 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 16 | 3.44 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 5 | 3.44 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 5 | 3.44 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 5 | 3.44 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 6 | 3.44 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 3 | 3.44 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 14 | 3.44 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 1 | 3.44 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 1 | 3.44 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 12 | 3.44 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 12 | 3.44 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 16 | 3.44 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 16 | 3.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 16 | 3.44 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 15 | 3.44 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 15 | 3.44 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 15 | 3.44 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 2 | 3.44 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 2 | 3.44 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 2 | 3.44 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 12 | 3.44 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 12 | 3.44 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 12 | 3.44 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 9 | 3.44 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 9 | 3.44 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 3 | 3.44 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 8 | 3.44 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 3 | 3.43 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 2 | 3.43 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 4 | 3.43 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 9 | 3.43 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 16 | 3.43 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 11 | 3.43 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 8 | 3.43 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 8 | 3.43 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 8 | 3.43 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 8 | 3.43 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 8 | 3.43 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 8 | 3.43 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 18 | 3.43 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 18 | 3.43 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 15 | 3.43 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 15 | 3.43 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 16 | 3.43 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 16 | 3.43 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 10 | 3.43 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 10 | 3.43 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 6 | 3.43 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 6 | 3.43 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 5 | 3.43 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 5 | 3.43 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 14 | 3.43 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 14 | 3.43 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 2 | 3.43 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 2 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 16 | 3.43 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 16 | 3.43 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 6 | 3.43 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 6 | 3.43 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 6 | 3.43 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 6 | 3.43 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 17 | 3.43 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 17 | 3.43 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 17 | 3.43 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 17 | 3.43 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 19 | 3.43 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 19 | 3.43 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 19 | 3.43 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 19 | 3.43 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 1 | 3.43 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 1 | 3.43 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 1 | 3.43 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 1 | 3.43 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 1 | 3.43 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 1 | 3.43 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 17 | 3.43 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 17 | 3.43 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 17 | 3.43 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 17 | 3.43 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 4 | 3.43 |
| (1,9094) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 4 | 3.43 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 15 | 3.43 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 15 | 3.43 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 14 | 3.43 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 14 | 3.43 |
| (1,9042) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 14 | 3.43 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 14 | 3.43 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 14 | 3.43 |
| (1,9042) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 14 | 3.43 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 15 | 3.43 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 15 | 3.43 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 14 | 3.43 |
| (1,8928) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 14 | 3.43 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 14 | 3.43 |
| (1,8928) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 14 | 3.43 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 12 | 3.43 |
| (1,8915) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 12 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 12 | 3.43 |
| (1,8915) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 12 | 3.43 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 9 | 3.43 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 9 | 3.43 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 19 | 3.43 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 19 | 3.43 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 19 | 3.43 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 19 | 3.43 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 19 | 3.43 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 19 | 3.43 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 19 | 3.43 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 19 | 3.43 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 19 | 3.43 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 19 | 3.43 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 20 | 3.43 |
| (1,8639) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 20 | 3.43 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 20 | 3.43 |
| (1,8639) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 20 | 3.43 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 9 | 3.43 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 9 | 3.43 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 9 | 3.43 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 9 | 3.43 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 9 | 3.43 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 9 | 3.43 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 11 | 3.43 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 11 | 3.43 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 16 | 3.43 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 16 | 3.43 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD11 | 16 | 3.43 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD12 | 16 | 3.43 |
| (1,8400) | 1:141:A:LEU:HA | 1:141:A:LEU:HD13 | 16 | 3.43 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 2 | 3.43 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 2 | 3.43 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 2 | 3.43 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 2 | 3.43 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 2 | 3.43 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 2 | 3.43 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 19 | 3.43 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 19 | 3.43 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 19 | 3.43 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE1 | 15 | 3.43 |
| (1,8360) | 1:135:A:GLU:HA | 1:139:A:PHE:HE2 | 15 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG21 | 20 | 3.43 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG22 | 20 | 3.43 |
| (1,8349) | 1:133:A:PRO:HD3 | 1:152:A:THR:HG23 | 20 | 3.43 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 9 | 3.43 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 9 | 3.43 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 9 | 3.43 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 9 | 3.43 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 9 | 3.43 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 9 | 3.43 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 3 | 3.43 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 7 | 3.43 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 11 | 3.43 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB2 | 13 | 3.43 |
| (1,8156) | 1:96:A:ILE:HA | 1:100:A:GLU:HB3 | 13 | 3.43 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 2 | 3.43 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 10 | 3.43 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 10 | 3.43 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 11 | 3.43 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 11 | 3.43 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 11 | 3.43 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 8 | 3.43 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 8 | 3.43 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 8 | 3.43 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 1 | 3.43 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 1 | 3.43 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD11 | 15 | 3.43 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD12 | 15 | 3.43 |
| (1,7825) | 1:60:A:LEU:HD21 | 1:96:A:ILE:HD13 | 15 | 3.43 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD11 | 15 | 3.43 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD12 | 15 | 3.43 |
| (1,7825) | 1:60:A:LEU:HD22 | 1:96:A:ILE:HD13 | 15 | 3.43 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD11 | 15 | 3.43 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD12 | 15 | 3.43 |
| (1,7825) | 1:60:A:LEU:HD23 | 1:96:A:ILE:HD13 | 15 | 3.43 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 18 | 3.43 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 11 | 3.43 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 5 | 3.43 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 5 | 3.43 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 5 | 3.43 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 5 | 3.43 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 5 | 3.43 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 5 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 5 | 3.43 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 17 | 3.43 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 16 | 3.43 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 11 | 3.43 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 18 | 3.43 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 18 | 3.43 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 18 | 3.43 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD11 | 15 | 3.43 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD12 | 15 | 3.43 |
| (1,7358) | 1:95:A:LYS:HE2 | 1:106:A:LEU:HD13 | 15 | 3.43 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD11 | 15 | 3.43 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD12 | 15 | 3.43 |
| (1,7358) | 1:95:A:LYS:HE3 | 1:106:A:LEU:HD13 | 15 | 3.43 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 15 | 3.43 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 15 | 3.43 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 5 | 3.43 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 7 | 3.43 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 9 | 3.43 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 9 | 3.43 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 12 | 3.43 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 12 | 3.43 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 13 | 3.43 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 13 | 3.43 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 13 | 3.43 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 17 | 3.43 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 17 | 3.43 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 17 | 3.43 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 9 | 3.43 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 9 | 3.43 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 9 | 3.43 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 15 | 3.43 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 13 | 3.43 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 19 | 3.43 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 16 | 3.43 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 2 | 3.43 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 8 | 3.43 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 8 | 3.43 |
| (1,6864) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 8 | 3.43 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 11 | 3.43 |
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 4 | 3.43 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 14 | 3.43 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 16 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 18 | 3.43 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 18 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 5 | 3.43 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 5 | 3.43 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 17 | 3.43 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 12 | 3.43 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 9 | 3.43 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 6 | 3.43 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 6 | 3.43 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 6 | 3.43 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 9 | 3.43 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 3.43 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 3.43 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 3.43 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 17 | 3.43 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 17 | 3.43 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 17 | 3.43 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 3 | 3.43 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 3 | 3.43 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 3 | 3.43 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 15 | 3.43 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 15 | 3.43 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 15 | 3.43 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 18 | 3.43 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 18 | 3.43 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 3 | 3.43 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 11 | 3.43 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 11 | 3.43 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 19 | 3.43 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 19 | 3.43 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 2 | 3.43 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 7 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 7 | 3.43 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 7 | 3.43 |
| (1,6136) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 12 | 3.43 |
| (1,6136) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 12 | 3.43 |
| (1,6136) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 12 | 3.43 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 4 | 3.43 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 4 | 3.43 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 4 | 3.43 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 4 | 3.43 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 4 | 3.43 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 4 | 3.43 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 12 | 3.43 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 19 | 3.43 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 19 | 3.43 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 19 | 3.43 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 8 | 3.43 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 8 | 3.43 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 8 | 3.43 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 10 | 3.43 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 15 | 3.43 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 17 | 3.43 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 11 | 3.43 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 11 | 3.43 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 11 | 3.43 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 11 | 3.43 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 11 | 3.43 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 11 | 3.43 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 12 | 3.43 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 8 | 3.43 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 19 | 3.43 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 19 | 3.43 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 19 | 3.43 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 5 | 3.43 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 15 | 3.43 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 15 | 3.43 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 15 | 3.43 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 15 | 3.43 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 15 | 3.43 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 15 | 3.43 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 4 | 3.43 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 4 | 3.43 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 4 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 13 | 3.43 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 13 | 3.43 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 13 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 20 | 3.43 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 20 | 3.43 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 3 | 3.43 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 3 | 3.43 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 3 | 3.43 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 3 | 3.43 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 3 | 3.43 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 3 | 3.43 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 3 | 3.43 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 3 | 3.43 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 3 | 3.43 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 18 | 3.43 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 18 | 3.43 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 18 | 3.43 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 9 | 3.43 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 9 | 3.43 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 9 | 3.43 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 13 | 3.43 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 13 | 3.43 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 13 | 3.43 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 1 | 3.43 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 1 | 3.43 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 1 | 3.43 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 10 | 3.43 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 10 | 3.43 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 10 | 3.43 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 7 | 3.43 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 7 | 3.43 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 7 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 13 | 3.43 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 19 | 3.43 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 19 | 3.43 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 19 | 3.43 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 10 | 3.43 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 10 | 3.43 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 10 | 3.43 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 5 | 3.43 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 5 | 3.43 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 5 | 3.43 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 10 | 3.43 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 10 | 3.43 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 10 | 3.43 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 9 | 3.43 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 9 | 3.43 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 9 | 3.43 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 1 | 3.43 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 1 | 3.43 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 1 | 3.43 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 15 | 3.43 |
| (1,4968) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 20 | 3.43 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 11 | 3.43 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 11 | 3.43 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 18 | 3.43 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 16 | 3.43 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 16 | 3.43 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 16 | 3.43 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 16 | 3.43 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 16 | 3.43 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 16 | 3.43 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 7 | 3.43 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 7 | 3.43 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 7 | 3.43 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 15 | 3.43 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 15 | 3.43 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 15 | 3.43 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 5 | 3.43 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 5 | 3.43 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 5 | 3.43 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 13 | 3.43 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 13 | 3.43 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 13 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 15 | 3.43 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 15 | 3.43 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 15 | 3.43 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 7 | 3.43 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 7 | 3.43 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 7 | 3.43 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 7 | 3.43 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 7 | 3.43 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 7 | 3.43 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 7 | 3.43 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 7 | 3.43 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 7 | 3.43 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 7 | 3.43 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 7 | 3.43 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 7 | 3.43 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 7 | 3.43 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 7 | 3.43 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 7 | 3.43 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 7 | 3.43 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 7 | 3.43 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 7 | 3.43 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 7 | 3.43 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 7 | 3.43 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 7 | 3.43 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 10 | 3.43 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 3 | 3.43 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 3 | 3.43 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 3 | 3.43 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 8 | 3.43 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 8 | 3.43 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 8 | 3.43 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 3 | 3.43 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 3 | 3.43 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 20 | 3.43 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 20 | 3.43 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 20 | 3.43 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 20 | 3.43 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 20 | 3.43 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 20 | 3.43 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 6 | 3.43 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 6 | 3.43 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 3.43 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 15 | 3.43 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 18 | 3.43 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 18 | 3.43 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 3 | 3.43 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 3 | 3.43 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 3 | 3.43 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 15 | 3.43 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 15 | 3.43 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 10 | 3.43 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 10 | 3.43 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 1 | 3.43 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 1 | 3.43 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 11 | 3.43 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 11 | 3.43 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 11 | 3.43 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 6 | 3.43 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 6 | 3.43 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 3 | 3.43 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 3 | 3.43 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 11 | 3.43 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 11 | 3.43 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 11 | 3.43 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 11 | 3.43 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 14 | 3.43 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 14 | 3.43 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 14 | 3.43 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 14 | 3.43 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 14 | 3.43 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 14 | 3.43 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 14 | 3.43 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 14 | 3.43 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 9 | 3.43 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 9 | 3.43 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 19 | 3.43 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 19 | 3.43 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 19 | 3.43 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 19 | 3.43 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 10 | 3.43 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 10 | 3.43 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 15 | 3.43 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 15 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 15 | 3.43 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 15 | 3.43 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 15 | 3.43 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 15 | 3.43 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 8 | 3.43 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 10 | 3.43 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 10 | 3.43 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 10 | 3.43 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 10 | 3.43 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 10 | 3.43 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 10 | 3.43 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 4 | 3.43 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 4 | 3.43 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 4 | 3.43 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 4 | 3.43 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 4 | 3.43 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 4 | 3.43 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 3 | 3.43 |
| (1,4084) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 15 | 3.43 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 15 | 3.43 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 15 | 3.43 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 17 | 3.43 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 14 | 3.43 |
| (1,3896) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 14 | 3.43 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 14 | 3.43 |
| (1,3896) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 14 | 3.43 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 12 | 3.43 |
| (1,3882) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 12 | 3.43 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 12 | 3.43 |
| (1,3882) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 12 | 3.43 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 18 | 3.43 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 11 | 3.43 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 11 | 3.43 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 11 | 3.43 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 15 | 3.43 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 5 | 3.43 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 14 | 3.43 |
| (1,3724) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 9 | 3.43 |
| (1,3724) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 9 | 3.43 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 15 | 3.43 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 15 | 3.43 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 18 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 18 | 3.43 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 3 | 3.43 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 11 | 3.43 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 11 | 3.43 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 11 | 3.43 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 11 | 3.43 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 1 | 3.43 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 1 | 3.43 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 1 | 3.43 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 1 | 3.43 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 1 | 3.43 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 1 | 3.43 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 8 | 3.43 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 6 | 3.43 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 6 | 3.43 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 9 | 3.43 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 9 | 3.43 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 9 | 3.43 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 9 | 3.43 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 9 | 3.43 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 9 | 3.43 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 11 | 3.43 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 11 | 3.43 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 1 | 3.43 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 1 | 3.43 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 16 | 3.43 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 16 | 3.43 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 5 | 3.43 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 5 | 3.43 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 6 | 3.43 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 6 | 3.43 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 12 | 3.43 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 12 | 3.43 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 17 | 3.43 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 17 | 3.43 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 13 | 3.43 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 13 | 3.43 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 13 | 3.43 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 20 | 3.43 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 17 | 3.43 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 17 | 3.43 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 17 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 9 | 3.43 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 9 | 3.43 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 9 | 3.43 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 8 | 3.43 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 7 | 3.43 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 7 | 3.43 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 20 | 3.43 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 20 | 3.43 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 2 | 3.43 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 15 | 3.43 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 14 | 3.43 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 14 | 3.43 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 13 | 3.43 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 2 | 3.43 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 2 | 3.43 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 2 | 3.43 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 19 | 3.43 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 15 | 3.43 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 15 | 3.43 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 16 | 3.43 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 2 | 3.43 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 5 | 3.43 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 2 | 3.43 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 4 | 3.43 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 8 | 3.43 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 8 | 3.43 |
| (1,2854) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 8 | 3.43 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 11 | 3.43 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 4 | 3.43 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 16 | 3.43 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 14 | 3.43 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 18 | 3.43 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 18 | 3.43 |
| (1,2718) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 18 | 3.43 |
| (1,2718) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 18 | 3.43 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 14 | 3.43 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 14 | 3.43 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 17 | 3.43 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 17 | 3.43 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 12 | 3.43 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 9 | 3.43 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 6 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 6 | 3.43 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 6 | 3.43 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 9 | 3.43 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 6 | 3.43 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 12 | 3.43 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 3.43 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 3.43 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 3.43 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 15 | 3.43 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 17 | 3.43 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 17 | 3.43 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 17 | 3.43 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 15 | 3.43 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 15 | 3.43 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 15 | 3.43 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 11 | 3.43 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 11 | 3.43 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 11 | 3.43 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 18 | 3.43 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 18 | 3.43 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 3 | 3.43 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 11 | 3.43 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 11 | 3.43 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 19 | 3.43 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 19 | 3.43 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 2 | 3.43 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 16 | 3.43 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 17 | 3.43 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 7 | 3.43 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 7 | 3.43 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 7 | 3.43 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 7 | 3.43 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 10 | 3.43 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 14 | 3.43 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 4 | 3.43 |
| (1,1728) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 12 | 3.43 |
| (1,1728) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 12 | 3.43 |
| (1,1728) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 12 | 3.43 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 4 | 3.43 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 4 | 3.43 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 4 | 3.43 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 4 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 4 | 3.43 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 4 | 3.43 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 12 | 3.43 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 7 | 3.43 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 17 | 3.43 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 7 | 3.43 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 7 | 3.43 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 7 | 3.43 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 1 | 3.43 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 1 | 3.43 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 6 | 3.43 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 6 | 3.43 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 13 | 3.43 |
| (1,1514) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 10 | 3.43 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 19 | 3.43 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 19 | 3.43 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 19 | 3.43 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 7 | 3.43 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 3 | 3.43 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 6 | 3.43 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 18 | 3.43 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 18 | 3.43 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 18 | 3.43 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 18 | 3.43 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 18 | 3.43 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 18 | 3.43 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 18 | 3.43 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 11 | 3.43 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 8 | 3.43 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 8 | 3.43 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 8 | 3.43 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 1 | 3.43 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 10 | 3.43 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 15 | 3.43 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 17 | 3.43 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 7 | 3.43 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 7 | 3.43 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 7 | 3.43 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 7 | 3.43 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 7 | 3.43 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 7 | 3.43 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 7 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 11 | 3.43 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 11 | 3.43 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 11 | 3.43 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 11 | 3.43 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 11 | 3.43 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 11 | 3.43 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 12 | 3.43 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 1 | 3.43 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 8 | 3.43 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 7 | 3.43 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 1 | 3.43 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 2 | 3.43 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 5 | 3.43 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 19 | 3.43 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 19 | 3.43 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 19 | 3.43 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 5 | 3.43 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 18 | 3.43 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 15 | 3.43 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 15 | 3.43 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 15 | 3.43 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 15 | 3.43 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 15 | 3.43 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 15 | 3.43 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 4 | 3.43 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 4 | 3.43 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 4 | 3.43 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 13 | 3.43 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 13 | 3.43 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 13 | 3.43 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 9 | 3.43 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 9 | 3.43 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 9 | 3.43 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 9 | 3.43 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 9 | 3.43 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 9 | 3.43 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 3 | 3.43 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 3 | 3.43 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 3 | 3.43 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 12 | 3.43 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 11 | 3.43 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 11 | 3.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 11 | 3.43 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 1 | 3.43 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 1 | 3.43 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 4 | 3.43 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 9 | 3.43 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 8 | 3.43 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 18 | 3.43 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 18 | 3.43 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 18 | 3.43 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 8 | 3.43 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 8 | 3.43 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 8 | 3.43 |
| (4,280) | 1:90:A:ASN:CB | 1:46:A:LYS:H | 12 | 3.42 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 3 | 3.42 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 1 | 3.42 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 19 | 3.42 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 19 | 3.42 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 14 | 3.42 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 14 | 3.42 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 14 | 3.42 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 14 | 3.42 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 14 | 3.42 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 14 | 3.42 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 17 | 3.42 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 17 | 3.42 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 14 | 3.42 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 14 | 3.42 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 14 | 3.42 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 14 | 3.42 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 14 | 3.42 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 14 | 3.42 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 15 | 3.42 |
| (1,9523) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 15 | 3.42 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 18 | 3.42 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 18 | 3.42 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 18 | 3.42 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 18 | 3.42 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 1 | 3.42 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 1 | 3.42 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 19 | 3.42 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 19 | 3.42 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 16 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 16 | 3.42 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 16 | 3.42 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 16 | 3.42 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 16 | 3.42 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 16 | 3.42 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 6 | 3.42 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 6 | 3.42 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 6 | 3.42 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 6 | 3.42 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 4 | 3.42 |
| (1,9466) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 4 | 3.42 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 4 | 3.42 |
| (1,9466) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 4 | 3.42 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 4 | 3.42 |
| (1,9464) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 4 | 3.42 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 4 | 3.42 |
| (1,9464) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 4 | 3.42 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 6 | 3.42 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 6 | 3.42 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 14 | 3.42 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 14 | 3.42 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 14 | 3.42 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 14 | 3.42 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 1 | 3.42 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 1 | 3.42 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 14 | 3.42 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 14 | 3.42 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 14 | 3.42 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 14 | 3.42 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 14 | 3.42 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 14 | 3.42 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 10 | 3.42 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 10 | 3.42 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 15 | 3.42 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 15 | 3.42 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 18 | 3.42 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 18 | 3.42 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 1 | 3.42 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 1 | 3.42 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 20 | 3.42 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 20 | 3.42 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 3 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 3 | 3.42 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 7 | 3.42 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 7 | 3.42 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 5 | 3.42 |
| (1,8623) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 5 | 3.42 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 5 | 3.42 |
| (1,8623) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 5 | 3.42 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 18 | 3.42 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 18 | 3.42 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 17 | 3.42 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 17 | 3.42 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 2 | 3.42 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 20 | 3.42 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 5 | 3.42 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 7 | 3.42 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 15 | 3.42 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 5 | 3.42 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 12 | 3.42 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 12 | 3.42 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 12 | 3.42 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 19 | 3.42 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 19 | 3.42 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 19 | 3.42 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 1 | 3.42 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 1 | 3.42 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 1 | 3.42 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 1 | 3.42 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 12 | 3.42 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG2 | 9 | 3.42 |
| (1,7887) | 1:65:A:SER:H | 1:66:A:GLN:HG3 | 9 | 3.42 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 18 | 3.42 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 20 | 3.42 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 20 | 3.42 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 8 | 3.42 |
| (1,7701) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 8 | 3.42 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 10 | 3.42 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 1 | 3.42 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 1 | 3.42 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 20 | 3.42 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 8 | 3.42 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 8 | 3.42 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 1 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 8 | 3.42 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 10 | 3.42 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 7 | 3.42 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 13 | 3.42 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 13 | 3.42 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 13 | 3.42 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 20 | 3.42 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 20 | 3.42 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 20 | 3.42 |
| (1,7082) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 19 | 3.42 |
| (1,7030) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 16 | 3.42 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 9 | 3.42 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 9 | 3.42 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 9 | 3.42 |
| (1,7022) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 19 | 3.42 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 12 | 3.42 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 20 | 3.42 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 18 | 3.42 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 9 | 3.42 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 9 | 3.42 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 9 | 3.42 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 6 | 3.42 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 6 | 3.42 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 6 | 3.42 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 7 | 3.42 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 7 | 3.42 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 7 | 3.42 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 13 | 3.42 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 13 | 3.42 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 13 | 3.42 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 8 | 3.42 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 1 | 3.42 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 1 | 3.42 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 1 | 3.42 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 13 | 3.42 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 13 | 3.42 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 2 | 3.42 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 2 | 3.42 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 17 | 3.42 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 17 | 3.42 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 17 | 3.42 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 8 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 14 | 3.42 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 14 | 3.42 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 14 | 3.42 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 15 | 3.42 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 7 | 3.42 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 7 | 3.42 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 16 | 3.42 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 16 | 3.42 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 19 | 3.42 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 4 | 3.42 |
| (1,5966) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 9 | 3.42 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 4 | 3.42 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 15 | 3.42 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 19 | 3.42 |
| (1,5925) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 13 | 3.42 |
| (1,5925) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 13 | 3.42 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 16 | 3.42 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 1 | 3.42 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 1 | 3.42 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 1 | 3.42 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 1 | 3.42 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 1 | 3.42 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 1 | 3.42 |
| (1,5829) | 1:118:A:ALA:H | 1:121:A:ASP:H | 11 | 3.42 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 9 | 3.42 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 18 | 3.42 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 20 | 3.42 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 20 | 3.42 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 20 | 3.42 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 6 | 3.42 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 7 | 3.42 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 11 | 3.42 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 11 | 3.42 |
| (1,5618) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 11 | 3.42 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 11 | 3.42 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 11 | 3.42 |
| (1,5618) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 11 | 3.42 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 10 | 3.42 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 10 | 3.42 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 4 | 3.42 |
| (1,5553) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 13 | 3.42 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 20 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 20 | 3.42 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 20 | 3.42 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 17 | 3.42 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 1 | 3.42 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 1 | 3.42 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 1 | 3.42 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 12 | 3.42 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 6 | 3.42 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 6 | 3.42 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 6 | 3.42 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 2 | 3.42 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 7 | 3.42 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 7 | 3.42 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 7 | 3.42 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 18 | 3.42 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 7 | 3.42 |
| (1,5195) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 3 | 3.42 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 11 | 3.42 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 12 | 3.42 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 12 | 3.42 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 12 | 3.42 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 14 | 3.42 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 14 | 3.42 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 14 | 3.42 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 14 | 3.42 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 14 | 3.42 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 14 | 3.42 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 16 | 3.42 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 5 | 3.42 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 5 | 3.42 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 5 | 3.42 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 12 | 3.42 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 8 | 3.42 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 8 | 3.42 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 8 | 3.42 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 12 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 7 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 7 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 7 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 7 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 7 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 7 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 7 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 7 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 7 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 13 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 13 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 13 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 13 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 13 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 13 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 13 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 13 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 13 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 19 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 19 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 19 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 19 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 19 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 19 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 19 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 19 | 3.42 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 19 | 3.42 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 19 | 3.42 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 19 | 3.42 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 19 | 3.42 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 19 | 3.42 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 19 | 3.42 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 19 | 3.42 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 19 | 3.42 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 19 | 3.42 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 19 | 3.42 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 5 | 3.42 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 5 | 3.42 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 5 | 3.42 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 19 | 3.42 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 9 | 3.42 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 9 | 3.42 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 9 | 3.42 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 20 | 3.42 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 20 | 3.42 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 20 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 13 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 13 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 13 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 13 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 13 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 13 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 17 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 17 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 17 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 17 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 17 | 3.42 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 17 | 3.42 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 14 | 3.42 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 14 | 3.42 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 10 | 3.42 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 19 | 3.42 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 19 | 3.42 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 17 | 3.42 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 17 | 3.42 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 14 | 3.42 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 14 | 3.42 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 14 | 3.42 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 14 | 3.42 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 14 | 3.42 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 14 | 3.42 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 15 | 3.42 |
| (1,4512) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 15 | 3.42 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 7 | 3.42 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 7 | 3.42 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 1 | 3.42 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 1 | 3.42 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 19 | 3.42 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 19 | 3.42 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 3 | 3.42 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 3 | 3.42 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 6 | 3.42 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 6 | 3.42 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 6 | 3.42 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 6 | 3.42 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 4 | 3.42 |
| (1,4458) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 4 | 3.42 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 4 | 3.42 |
| (1,4458) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 4 | 3.42 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 6 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 6 | 3.42 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 3 | 3.42 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 10 | 3.42 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 10 | 3.42 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 17 | 3.42 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 14 | 3.42 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 14 | 3.42 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 14 | 3.42 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 14 | 3.42 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 14 | 3.42 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 14 | 3.42 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 16 | 3.42 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 16 | 3.42 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 16 | 3.42 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 10 | 3.42 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 10 | 3.42 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 15 | 3.42 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 15 | 3.42 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 18 | 3.42 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 18 | 3.42 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 10 | 3.42 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 10 | 3.42 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 10 | 3.42 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 3.42 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 3.42 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 3.42 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 17 | 3.42 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 17 | 3.42 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 10 | 3.42 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 16 | 3.42 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 10 | 3.42 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 10 | 3.42 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 10 | 3.42 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 10 | 3.42 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 10 | 3.42 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 10 | 3.42 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 8 | 3.42 |
| (1,3680) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 8 | 3.42 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 10 | 3.42 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 18 | 3.42 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 18 | 3.42 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 6 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 3.42 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 3.42 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 5 | 3.42 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 19 | 3.42 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 7 | 3.42 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 16 | 3.42 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 1 | 3.42 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 13 | 3.42 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 13 | 3.42 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 13 | 3.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 1 | 3.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 1 | 3.42 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 9 | 3.42 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 18 | 3.42 |
| (1,3150) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 19 | 3.42 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 2 | 3.42 |
| (1,3080) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 16 | 3.42 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 9 | 3.42 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 9 | 3.42 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 9 | 3.42 |
| (1,3072) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 19 | 3.42 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 13 | 3.42 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 12 | 3.42 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 12 | 3.42 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 20 | 3.42 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 10 | 3.42 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 5 | 3.42 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 15 | 3.42 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 15 | 3.42 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 9 | 3.42 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 16 | 3.42 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 1 | 3.42 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 1 | 3.42 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 1 | 3.42 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 1 | 3.42 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 1 | 3.42 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 1 | 3.42 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 1 | 3.42 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 1 | 3.42 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 1 | 3.42 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 2 | 3.42 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 2 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 2 | 3.42 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 2 | 3.42 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 2 | 3.42 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 2 | 3.42 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 9 | 3.42 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 9 | 3.42 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 13 | 3.42 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 6 | 3.42 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 6 | 3.42 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 6 | 3.42 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 15 | 3.42 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 7 | 3.42 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 7 | 3.42 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 7 | 3.42 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 13 | 3.42 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 13 | 3.42 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 13 | 3.42 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 8 | 3.42 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 1 | 3.42 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 1 | 3.42 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 1 | 3.42 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 8 | 3.42 |
| (1,2078) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 12 | 3.42 |
| (1,2062) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 1 | 3.42 |
| (1,2062) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 1 | 3.42 |
| (1,2062) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 1 | 3.42 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 2 | 3.42 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 13 | 3.42 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 13 | 3.42 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 2 | 3.42 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 2 | 3.42 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 17 | 3.42 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 17 | 3.42 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 17 | 3.42 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 13 | 3.42 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 13 | 3.42 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 13 | 3.42 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 8 | 3.42 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 14 | 3.42 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 14 | 3.42 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 14 | 3.42 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 15 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 19 | 3.42 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 5 | 3.42 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 5 | 3.42 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 5 | 3.42 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 8 | 3.42 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 1 | 3.42 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 1 | 3.42 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 1 | 3.42 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 7 | 3.42 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 7 | 3.42 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 16 | 3.42 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 16 | 3.42 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 19 | 3.42 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 19 | 3.42 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 19 | 3.42 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 16 | 3.42 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 16 | 3.42 |
| (1,1570) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 16 | 3.42 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 2 | 3.42 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 2 | 3.42 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 2 | 3.42 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 2 | 3.42 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 2 | 3.42 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 2 | 3.42 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 15 | 3.42 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 15 | 3.42 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 19 | 3.42 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 4 | 3.42 |
| (1,1486) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 15 | 3.42 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 4 | 3.42 |
| (1,1420) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 9 | 3.42 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 4 | 3.42 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 15 | 3.42 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 19 | 3.42 |
| (1,1350) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 13 | 3.42 |
| (1,1350) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 13 | 3.42 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 16 | 3.42 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 7 | 3.42 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 7 | 3.42 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 7 | 3.42 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 10 | 3.42 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 1 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 1 | 3.42 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 1 | 3.42 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 1 | 3.42 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 1 | 3.42 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 1 | 3.42 |
| (1,1204) | 1:118:A:ALA:H | 1:121:A:ASP:H | 11 | 3.42 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 9 | 3.42 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 18 | 3.42 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 4 | 3.42 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 20 | 3.42 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 20 | 3.42 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 20 | 3.42 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 6 | 3.42 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 7 | 3.42 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 20 | 3.42 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 16 | 3.42 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 16 | 3.42 |
| (1,868) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 16 | 3.42 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 16 | 3.42 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 16 | 3.42 |
| (1,868) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 16 | 3.42 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 11 | 3.42 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 11 | 3.42 |
| (1,818) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 11 | 3.42 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 11 | 3.42 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 11 | 3.42 |
| (1,818) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 11 | 3.42 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 10 | 3.42 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 10 | 3.42 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 10 | 3.42 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 4 | 3.42 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 11 | 3.42 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 4 | 3.42 |
| (1,716) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 13 | 3.42 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 20 | 3.42 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 20 | 3.42 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 20 | 3.42 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 3 | 3.42 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 3 | 3.42 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 15 | 3.42 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 15 | 3.42 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 14 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 13 | 3.42 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 13 | 3.42 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 13 | 3.42 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 13 | 3.42 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 13 | 3.42 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 13 | 3.42 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 13 | 3.42 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 13 | 3.42 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 13 | 3.42 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 14 | 3.41 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 14 | 3.41 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 3 | 3.41 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 3 | 3.41 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 3 | 3.41 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 3 | 3.41 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 3 | 3.41 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 3 | 3.41 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 9 | 3.41 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 9 | 3.41 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 9 | 3.41 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 9 | 3.41 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 9 | 3.41 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 9 | 3.41 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 10 | 3.41 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 10 | 3.41 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 10 | 3.41 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 10 | 3.41 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 10 | 3.41 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 10 | 3.41 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 17 | 3.41 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 17 | 3.41 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 17 | 3.41 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 17 | 3.41 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 17 | 3.41 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 17 | 3.41 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 1 | 3.41 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 1 | 3.41 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 3.41 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 3.41 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 19 | 3.41 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 19 | 3.41 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 19 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 19 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 1 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 1 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 1 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 1 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 1 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 1 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 11 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 11 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 11 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 11 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 11 | 3.41 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 11 | 3.41 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 16 | 3.41 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 16 | 3.41 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 16 | 3.41 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 16 | 3.41 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 11 | 3.41 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 11 | 3.41 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 14 | 3.41 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 14 | 3.41 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 14 | 3.41 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 14 | 3.41 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 14 | 3.41 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 14 | 3.41 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 13 | 3.41 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 13 | 3.41 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 13 | 3.41 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 13 | 3.41 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 13 | 3.41 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 13 | 3.41 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 14 | 3.41 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 14 | 3.41 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 15 | 3.41 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 15 | 3.41 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 15 | 3.41 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 15 | 3.41 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 15 | 3.41 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 15 | 3.41 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 11 | 3.41 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 11 | 3.41 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 13 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 13 | 3.41 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 13 | 3.41 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 13 | 3.41 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 13 | 3.41 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 13 | 3.41 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 5 | 3.41 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 5 | 3.41 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 5 | 3.41 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 5 | 3.41 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 5 | 3.41 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 5 | 3.41 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 8 | 3.41 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 8 | 3.41 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 4 | 3.41 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 4 | 3.41 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 17 | 3.41 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 17 | 3.41 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 12 | 3.41 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 12 | 3.41 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 12 | 3.41 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 12 | 3.41 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 12 | 3.41 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 12 | 3.41 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 9 | 3.41 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 9 | 3.41 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 20 | 3.41 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 20 | 3.41 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 20 | 3.41 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 20 | 3.41 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 20 | 3.41 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 20 | 3.41 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 4 | 3.41 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 4 | 3.41 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 15 | 3.41 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 15 | 3.41 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 18 | 3.41 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 18 | 3.41 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 18 | 3.41 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 18 | 3.41 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 4 | 3.41 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 4 | 3.41 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 5 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 5 | 3.41 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 5 | 3.41 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 5 | 3.41 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 4 | 3.41 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 18 | 3.41 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 6 | 3.41 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 6 | 3.41 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 6 | 3.41 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 6 | 3.41 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 6 | 3.41 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 6 | 3.41 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 20 | 3.41 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 20 | 3.41 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 19 | 3.41 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 8 | 3.41 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 8 | 3.41 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 16 | 3.41 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 7 | 3.41 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 2 | 3.41 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 2 | 3.41 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 20 | 3.41 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 20 | 3.41 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 20 | 3.41 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 20 | 3.41 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 20 | 3.41 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 20 | 3.41 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 15 | 3.41 |
| (1,8172) | 1:100:A:GLU:H | 1:102:A:ASP:H | 3 | 3.41 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 3 | 3.41 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 3 | 3.41 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 19 | 3.41 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 12 | 3.41 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 12 | 3.41 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 12 | 3.41 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 6 | 3.41 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 6 | 3.41 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 6 | 3.41 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 6 | 3.41 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 6 | 3.41 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 15 | 3.41 |
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 8 | 3.41 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 8 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 8 | 3.41 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 14 | 3.41 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 14 | 3.41 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 14 | 3.41 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 5 | 3.41 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 5 | 3.41 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 5 | 3.41 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 11 | 3.41 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 11 | 3.41 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 11 | 3.41 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 11 | 3.41 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 11 | 3.41 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 11 | 3.41 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 11 | 3.41 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 11 | 3.41 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 11 | 3.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 3 | 3.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 3 | 3.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 3 | 3.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 3 | 3.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 3 | 3.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 3 | 3.41 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 15 | 3.41 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 15 | 3.41 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 15 | 3.41 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 10 | 3.41 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 10 | 3.41 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 8 | 3.41 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 8 | 3.41 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 8 | 3.41 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 8 | 3.41 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 8 | 3.41 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 8 | 3.41 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 4 | 3.41 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 4 | 3.41 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 11 | 3.41 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 11 | 3.41 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 5 | 3.41 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 9 | 3.41 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 5 | 3.41 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 5 | 3.41 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 18 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 18 | 3.41 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 18 | 3.41 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 8 | 3.41 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 8 | 3.41 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 8 | 3.41 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 5 | 3.41 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 5 | 3.41 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 5 | 3.41 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 13 | 3.41 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 13 | 3.41 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 10 | 3.41 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 10 | 3.41 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 15 | 3.41 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 7 | 3.41 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 6 | 3.41 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 10 | 3.41 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 18 | 3.41 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 17 | 3.41 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 3 | 3.41 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 16 | 3.41 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 16 | 3.41 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 16 | 3.41 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 18 | 3.41 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 18 | 3.41 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 9 | 3.41 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 9 | 3.41 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 9 | 3.41 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 10 | 3.41 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 10 | 3.41 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 10 | 3.41 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 14 | 3.41 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 14 | 3.41 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 11 | 3.41 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 16 | 3.41 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 5 | 3.41 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 15 | 3.41 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 15 | 3.41 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 15 | 3.41 |
| (1,6154) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 15 | 3.41 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 9 | 3.41 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 9 | 3.41 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 9 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 9 | 3.41 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 9 | 3.41 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 9 | 3.41 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 9 | 3.41 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 9 | 3.41 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 9 | 3.41 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 7 | 3.41 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 1 | 3.41 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 6 | 3.41 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 6 | 3.41 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 6 | 3.41 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 13 | 3.41 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 13 | 3.41 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 13 | 3.41 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 10 | 3.41 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 10 | 3.41 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 14 | 3.41 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 9 | 3.41 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 9 | 3.41 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 9 | 3.41 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 9 | 3.41 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 4 | 3.41 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 4 | 3.41 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 19 | 3.41 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 19 | 3.41 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 20 | 3.41 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 20 | 3.41 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 1 | 3.41 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 7 | 3.41 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 7 | 3.41 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 7 | 3.41 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 7 | 3.41 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 18 | 3.41 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 1 | 3.41 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 1 | 3.41 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 1 | 3.41 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 1 | 3.41 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 1 | 3.41 |
| (1,5506) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 1 | 3.41 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 6 | 3.41 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 6 | 3.41 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 6 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 2 | 3.41 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 11 | 3.41 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 4 | 3.41 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 10 | 3.41 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 10 | 3.41 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 10 | 3.41 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 2 | 3.41 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 3 | 3.41 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 18 | 3.41 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 5 | 3.41 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 18 | 3.41 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 10 | 3.41 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 10 | 3.41 |
| (1,5113) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 10 | 3.41 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 7 | 3.41 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 7 | 3.41 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 7 | 3.41 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 1 | 3.41 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 15 | 3.41 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 15 | 3.41 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 15 | 3.41 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 1 | 3.41 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 1 | 3.41 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 1 | 3.41 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 1 | 3.41 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 1 | 3.41 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 1 | 3.41 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 16 | 3.41 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 16 | 3.41 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 16 | 3.41 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 1 | 3.41 |
| (1,4882) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 17 | 3.41 |
| (1,4882) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 17 | 3.41 |
| (1,4882) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 17 | 3.41 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 9 | 3.41 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 14 | 3.41 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 14 | 3.41 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 14 | 3.41 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 14 | 3.41 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 16 | 3.41 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 16 | 3.41 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 16 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 17 | 3.41 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 17 | 3.41 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 5 | 3.41 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 5 | 3.41 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 5 | 3.41 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 3 | 3.41 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 3 | 3.41 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 3 | 3.41 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 3 | 3.41 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 3 | 3.41 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 3 | 3.41 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 4 | 3.41 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 6 | 3.41 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 18 | 3.41 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 18 | 3.41 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 18 | 3.41 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 18 | 3.41 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 18 | 3.41 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 18 | 3.41 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 10 | 3.41 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 10 | 3.41 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 10 | 3.41 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 10 | 3.41 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 10 | 3.41 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 10 | 3.41 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 3 | 3.41 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 17 | 3.41 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 17 | 3.41 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 17 | 3.41 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 17 | 3.41 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 17 | 3.41 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 17 | 3.41 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 3.41 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 3.41 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 18 | 3.41 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 18 | 3.41 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 18 | 3.41 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 18 | 3.41 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 1 | 3.41 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 1 | 3.41 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 3.41 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 12 | 3.41 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 14 | 3.41 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 14 | 3.41 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 14 | 3.41 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 14 | 3.41 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 14 | 3.41 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 14 | 3.41 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 7 | 3.41 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 7 | 3.41 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 6 | 3.41 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 11 | 3.41 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 3 | 3.41 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 3 | 3.41 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 3 | 3.41 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 3 | 3.41 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 3 | 3.41 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 3 | 3.41 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 13 | 3.41 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 13 | 3.41 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 13 | 3.41 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 13 | 3.41 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 13 | 3.41 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 13 | 3.41 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 19 | 3.41 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 10 | 3.41 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 14 | 3.41 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 15 | 3.41 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 15 | 3.41 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 15 | 3.41 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 15 | 3.41 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 15 | 3.41 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 15 | 3.41 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 11 | 3.41 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 11 | 3.41 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 11 | 3.41 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 11 | 3.41 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 11 | 3.41 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 11 | 3.41 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 10 | 3.41 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 10 | 3.41 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 10 | 3.41 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 6 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 6 | 3.41 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 6 | 3.41 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 11 | 3.41 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 11 | 3.41 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 19 | 3.41 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 19 | 3.41 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 8 | 3.41 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 8 | 3.41 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 4 | 3.41 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 4 | 3.41 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 17 | 3.41 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 17 | 3.41 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 2 | 3.41 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 2 | 3.41 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 2 | 3.41 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 2 | 3.41 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 2 | 3.41 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 2 | 3.41 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 12 | 3.41 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 12 | 3.41 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 12 | 3.41 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 12 | 3.41 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 12 | 3.41 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 12 | 3.41 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 9 | 3.41 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 9 | 3.41 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 16 | 3.41 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 16 | 3.41 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 1 | 3.41 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 1 | 3.41 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 13 | 3.41 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 13 | 3.41 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 13 | 3.41 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 13 | 3.41 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 13 | 3.41 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 13 | 3.41 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 6 | 3.41 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 2 | 3.41 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 2 | 3.41 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 2 | 3.41 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 2 | 3.41 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 2 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 2 | 3.41 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 2 | 3.41 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 2 | 3.41 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 19 | 3.41 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 10 | 3.41 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 10 | 3.41 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 6 | 3.41 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 4 | 3.41 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 4 | 3.41 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 5 | 3.41 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 5 | 3.41 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 5 | 3.41 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 5 | 3.41 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 18 | 3.41 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 14 | 3.41 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 15 | 3.41 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 4 | 3.41 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 19 | 3.41 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 19 | 3.41 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 9 | 3.41 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 9 | 3.41 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 5 | 3.41 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 5 | 3.41 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 7 | 3.41 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 5 | 3.41 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 5 | 3.41 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 18 | 3.41 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 18 | 3.41 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 18 | 3.41 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 12 | 3.41 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 8 | 3.41 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 8 | 3.41 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 8 | 3.41 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 11 | 3.41 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 5 | 3.41 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 5 | 3.41 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 5 | 3.41 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 13 | 3.41 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 13 | 3.41 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 1 | 3.41 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 1 | 3.41 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 10 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 10 | 3.41 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 15 | 3.41 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 13 | 3.41 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 18 | 3.41 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 18 | 3.41 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 18 | 3.41 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 7 | 3.41 |
| (1,2642) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 16 | 3.41 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 17 | 3.41 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 1 | 3.41 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 1 | 3.41 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 1 | 3.41 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 6 | 3.41 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 10 | 3.41 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 18 | 3.41 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 11 | 3.41 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 4 | 3.41 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 15 | 3.41 |
| (1,2236) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 19 | 3.41 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 17 | 3.41 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 6 | 3.41 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 3 | 3.41 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 3.41 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 3.41 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 3.41 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 16 | 3.41 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 16 | 3.41 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 16 | 3.41 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 4 | 3.41 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 4 | 3.41 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 4 | 3.41 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 18 | 3.41 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 18 | 3.41 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 9 | 3.41 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 9 | 3.41 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 9 | 3.41 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 10 | 3.41 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 10 | 3.41 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 10 | 3.41 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 14 | 3.41 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 14 | 3.41 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 20 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 20 | 3.41 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 20 | 3.41 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 11 | 3.41 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 9 | 3.41 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 15 | 3.41 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 17 | 3.41 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 15 | 3.41 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 15 | 3.41 |
| (1,1752) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 15 | 3.41 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 9 | 3.41 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 9 | 3.41 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 9 | 3.41 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 9 | 3.41 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 9 | 3.41 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 9 | 3.41 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 9 | 3.41 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 9 | 3.41 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 9 | 3.41 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 14 | 3.41 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 7 | 3.41 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 1 | 3.41 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 13 | 3.41 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 13 | 3.41 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 13 | 3.41 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 12 | 3.41 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 10 | 3.41 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 10 | 3.41 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 14 | 3.41 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 9 | 3.41 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 9 | 3.41 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 9 | 3.41 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 9 | 3.41 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 4 | 3.41 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 4 | 3.41 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 19 | 3.41 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 19 | 3.41 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 11 | 3.41 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 2 | 3.41 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 20 | 3.41 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 20 | 3.41 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 17 | 3.41 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 13 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 1 | 3.41 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 7 | 3.41 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 7 | 3.41 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 7 | 3.41 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 7 | 3.41 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 19 | 3.41 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 20 | 3.41 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 1 | 3.41 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 1 | 3.41 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 1 | 3.41 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 1 | 3.41 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 1 | 3.41 |
| (1,656) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 1 | 3.41 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 5 | 3.41 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 6 | 3.41 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 6 | 3.41 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 6 | 3.41 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 13 | 3.41 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 13 | 3.41 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 16 | 3.41 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 16 | 3.41 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 18 | 3.41 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 18 | 3.41 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 19 | 3.41 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 19 | 3.41 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 7 | 3.41 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 7 | 3.41 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 7 | 3.41 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 7 | 3.41 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 7 | 3.41 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 7 | 3.41 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 6 | 3.41 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 6 | 3.41 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 6 | 3.41 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 6 | 3.41 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 6 | 3.41 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 6 | 3.41 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 9 | 3.41 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 9 | 3.41 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 9 | 3.41 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 5 | 3.41 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 5 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 5 | 3.41 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 9 | 3.41 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 7 | 3.41 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 12 | 3.4 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 13 | 3.4 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 3 | 3.4 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 16 | 3.4 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 19 | 3.4 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 19 | 3.4 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 19 | 3.4 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 20 | 3.4 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 20 | 3.4 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 16 | 3.4 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 16 | 3.4 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 16 | 3.4 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 16 | 3.4 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 16 | 3.4 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 16 | 3.4 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 10 | 3.4 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 10 | 3.4 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 10 | 3.4 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 10 | 3.4 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 10 | 3.4 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 10 | 3.4 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 16 | 3.4 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 16 | 3.4 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 16 | 3.4 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 16 | 3.4 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 16 | 3.4 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 16 | 3.4 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 7 | 3.4 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 7 | 3.4 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 7 | 3.4 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 7 | 3.4 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 6 | 3.4 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 6 | 3.4 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 17 | 3.4 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 17 | 3.4 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 17 | 3.4 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 17 | 3.4 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 6 | 3.4 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 6 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 3 | 3.4 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 3 | 3.4 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 3 | 3.4 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 3 | 3.4 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 3 | 3.4 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 3 | 3.4 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 9 | 3.4 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 9 | 3.4 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 9 | 3.4 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 9 | 3.4 |
| (1,9145) | 1:91:A:GLY:HA2 | 1:93:A:ILE:H | 10 | 3.4 |
| (1,9145) | 1:91:A:GLY:HA3 | 1:93:A:ILE:H | 10 | 3.4 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 14 | 3.4 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 14 | 3.4 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 14 | 3.4 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 14 | 3.4 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 14 | 3.4 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 14 | 3.4 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 14 | 3.4 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 14 | 3.4 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 13 | 3.4 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 13 | 3.4 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 8 | 3.4 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 8 | 3.4 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE2 | 4 | 3.4 |
| (1,8916) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HE3 | 4 | 3.4 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE2 | 4 | 3.4 |
| (1,8916) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HE3 | 4 | 3.4 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 11 | 3.4 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 11 | 3.4 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 16 | 3.4 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 16 | 3.4 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 16 | 3.4 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 16 | 3.4 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 16 | 3.4 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 16 | 3.4 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 20 | 3.4 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 20 | 3.4 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 9 | 3.4 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 9 | 3.4 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 9 | 3.4 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 9 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 2 | 3.4 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 2 | 3.4 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 4 | 3.4 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 4 | 3.4 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 3 | 3.4 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 3 | 3.4 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 3 | 3.4 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 3 | 3.4 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 3 | 3.4 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 3 | 3.4 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 14 | 3.4 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 14 | 3.4 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 14 | 3.4 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 14 | 3.4 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 7 | 3.4 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 7 | 3.4 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 9 | 3.4 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 10 | 3.4 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 19 | 3.4 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 19 | 3.4 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 20 | 3.4 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 20 | 3.4 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 20 | 3.4 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 20 | 3.4 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 20 | 3.4 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 20 | 3.4 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 20 | 3.4 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 20 | 3.4 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 20 | 3.4 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 1 | 3.4 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 1 | 3.4 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 1 | 3.4 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 7 | 3.4 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 7 | 3.4 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 7 | 3.4 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 11 | 3.4 |
| (1,8256) | 1:117:A:LYS:H | 1:120:A:GLY:H | 19 | 3.4 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 17 | 3.4 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 15 | 3.4 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 7 | 3.4 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 18 | 3.4 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 18 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 18 | 3.4 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 18 | 3.4 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 8 | 3.4 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 8 | 3.4 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 6 | 3.4 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 6 | 3.4 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 6 | 3.4 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 6 | 3.4 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 5 | 3.4 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 3 | 3.4 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 10 | 3.4 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 3 | 3.4 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 5 | 3.4 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 5 | 3.4 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 5 | 3.4 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 5 | 3.4 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 18 | 3.4 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 16 | 3.4 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 16 | 3.4 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 16 | 3.4 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 16 | 3.4 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 16 | 3.4 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 16 | 3.4 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 2 | 3.4 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 5 | 3.4 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 5 | 3.4 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 1 | 3.4 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 17 | 3.4 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 1 | 3.4 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 5 | 3.4 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 5 | 3.4 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 19 | 3.4 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 20 | 3.4 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 7 | 3.4 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 7 | 3.4 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 7 | 3.4 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 17 | 3.4 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 2 | 3.4 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 17 | 3.4 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 17 | 3.4 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 17 | 3.4 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 19 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 19 | 3.4 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 13 | 3.4 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 13 | 3.4 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 8 | 3.4 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 8 | 3.4 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 19 | 3.4 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 19 | 3.4 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 19 | 3.4 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 4 | 3.4 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 19 | 3.4 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 17 | 3.4 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 17 | 3.4 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 17 | 3.4 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 2 | 3.4 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 13 | 3.4 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 13 | 3.4 |
| (1,6405) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 13 | 3.4 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 3 | 3.4 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 3 | 3.4 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 3 | 3.4 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 3 | 3.4 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 3 | 3.4 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 3 | 3.4 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 3 | 3.4 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 3 | 3.4 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 3 | 3.4 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 14 | 3.4 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 14 | 3.4 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 14 | 3.4 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 8 | 3.4 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 16 | 3.4 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 16 | 3.4 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 16 | 3.4 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 11 | 3.4 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 11 | 3.4 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 11 | 3.4 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 15 | 3.4 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 16 | 3.4 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 16 | 3.4 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 10 | 3.4 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 18 | 3.4 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 17 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 17 | 3.4 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 17 | 3.4 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 12 | 3.4 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 12 | 3.4 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 11 | 3.4 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 2 | 3.4 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 2 | 3.4 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 2 | 3.4 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 3 | 3.4 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 3 | 3.4 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 3 | 3.4 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 6 | 3.4 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 6 | 3.4 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 6 | 3.4 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 6 | 3.4 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 6 | 3.4 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 6 | 3.4 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 3 | 3.4 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 10 | 3.4 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 10 | 3.4 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 13 | 3.4 |
| (1,5763) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 13 | 3.4 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 19 | 3.4 |
| (1,5666) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 14 | 3.4 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 11 | 3.4 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 11 | 3.4 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 11 | 3.4 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 4 | 3.4 |
| (1,5557) | 1:97:A:LYS:H | 1:99:A:GLY:H | 9 | 3.4 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 12 | 3.4 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 19 | 3.4 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 19 | 3.4 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 19 | 3.4 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 20 | 3.4 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 20 | 3.4 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 20 | 3.4 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 16 | 3.4 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 16 | 3.4 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 16 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 2 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 2 | 3.4 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 2 | 3.4 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 1 | 3.4 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 1 | 3.4 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 16 | 3.4 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 16 | 3.4 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 16 | 3.4 |
| (1,5340) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 14 | 3.4 |
| (1,5340) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 14 | 3.4 |
| (1,5340) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 14 | 3.4 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 10 | 3.4 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 9 | 3.4 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 9 | 3.4 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 9 | 3.4 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 9 | 3.4 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 4 | 3.4 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 4 | 3.4 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 4 | 3.4 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 4 | 3.4 |
| (1,4978) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 13 | 3.4 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 8 | 3.4 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 8 | 3.4 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 6 | 3.4 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 6 | 3.4 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 6 | 3.4 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 12 | 3.4 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 17 | 3.4 |
| (1,4737) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 5 | 3.4 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 3 | 3.4 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 3 | 3.4 |
| (1,4673) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 3 | 3.4 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 17 | 3.4 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 17 | 3.4 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 1 | 3.4 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 1 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 16 | 3.4 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 16 | 3.4 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 16 | 3.4 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 10 | 3.4 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 10 | 3.4 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 10 | 3.4 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 10 | 3.4 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 10 | 3.4 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 10 | 3.4 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 4 | 3.4 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 9 | 3.4 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 9 | 3.4 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 3 | 3.4 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 3 | 3.4 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 3 | 3.4 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 6 | 3.4 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 6 | 3.4 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 4 | 3.4 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 7 | 3.4 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 7 | 3.4 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 7 | 3.4 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 16 | 3.4 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 16 | 3.4 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 16 | 3.4 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 16 | 3.4 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 16 | 3.4 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 16 | 3.4 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 16 | 3.4 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 16 | 3.4 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 16 | 3.4 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 6 | 3.4 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 6 | 3.4 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 17 | 3.4 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 17 | 3.4 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 17 | 3.4 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 17 | 3.4 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 3 | 3.4 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 3 | 3.4 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 3 | 3.4 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 3 | 3.4 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 3 | 3.4 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 3 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 20 | 3.4 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 20 | 3.4 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 20 | 3.4 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 20 | 3.4 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 8 | 3.4 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 8 | 3.4 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 5 | 3.4 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 4 | 3.4 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 9 | 3.4 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 9 | 3.4 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 9 | 3.4 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 9 | 3.4 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 17 | 3.4 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 17 | 3.4 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 17 | 3.4 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 14 | 3.4 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 14 | 3.4 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 14 | 3.4 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 14 | 3.4 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 14 | 3.4 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 14 | 3.4 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 2 | 3.4 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 2 | 3.4 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 1 | 3.4 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 14 | 3.4 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 14 | 3.4 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 3.4 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 13 | 3.4 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 13 | 3.4 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 3.4 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 3.4 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 3.4 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 12 | 3.4 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 3.4 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 3.4 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 3.4 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 10 | 3.4 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 10 | 3.4 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 10 | 3.4 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 8 | 3.4 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 16 | 3.4 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 1 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 1 | 3.4 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 9 | 3.4 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 7 | 3.4 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 7 | 3.4 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 16 | 3.4 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 16 | 3.4 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 2 | 3.4 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 2 | 3.4 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 5 | 3.4 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 3.4 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 5 | 3.4 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 5 | 3.4 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 3.4 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 5 | 3.4 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 3 | 3.4 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 3 | 3.4 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 3 | 3.4 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 3 | 3.4 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 3 | 3.4 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 3 | 3.4 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 17 | 3.4 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 17 | 3.4 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 17 | 3.4 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 7 | 3.4 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 7 | 3.4 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 4 | 3.4 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 4 | 3.4 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 11 | 3.4 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 5 | 3.4 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 6 | 3.4 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 7 | 3.4 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 7 | 3.4 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 7 | 3.4 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 9 | 3.4 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 9 | 3.4 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 9 | 3.4 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 5 | 3.4 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 17 | 3.4 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 11 | 3.4 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 11 | 3.4 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 11 | 3.4 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 14 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 14 | 3.4 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 14 | 3.4 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 18 | 3.4 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 18 | 3.4 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 18 | 3.4 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 1 | 3.4 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 2 | 3.4 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 17 | 3.4 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 17 | 3.4 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 17 | 3.4 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 17 | 3.4 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 9 | 3.4 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 9 | 3.4 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 9 | 3.4 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 15 | 3.4 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 15 | 3.4 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 15 | 3.4 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 15 | 3.4 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 15 | 3.4 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 15 | 3.4 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 19 | 3.4 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 19 | 3.4 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 13 | 3.4 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 13 | 3.4 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 5 | 3.4 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 14 | 3.4 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 11 | 3.4 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 8 | 3.4 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 8 | 3.4 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 1 | 3.4 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 1 | 3.4 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 1 | 3.4 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 20 | 3.4 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 20 | 3.4 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 20 | 3.4 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 19 | 3.4 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 19 | 3.4 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 19 | 3.4 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 4 | 3.4 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 19 | 3.4 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 17 | 3.4 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 17 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 17 | 3.4 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 7 | 3.4 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 7 | 3.4 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 7 | 3.4 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 7 | 3.4 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 2 | 3.4 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 13 | 3.4 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 13 | 3.4 |
| (1,2118) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 13 | 3.4 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 3 | 3.4 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 3 | 3.4 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 3 | 3.4 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 3 | 3.4 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 3 | 3.4 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 3 | 3.4 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 3 | 3.4 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 3 | 3.4 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 3 | 3.4 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 5 | 3.4 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 5 | 3.4 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 5 | 3.4 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 14 | 3.4 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 14 | 3.4 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 14 | 3.4 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 14 | 3.4 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 14 | 3.4 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 1 | 3.4 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 1 | 3.4 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 1 | 3.4 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 16 | 3.4 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 16 | 3.4 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 16 | 3.4 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 6 | 3.4 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 6 | 3.4 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 6 | 3.4 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 11 | 3.4 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 11 | 3.4 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 11 | 3.4 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 7 | 3.4 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 7 | 3.4 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 7 | 3.4 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 15 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 16 | 3.4 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 16 | 3.4 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 10 | 3.4 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 17 | 3.4 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 17 | 3.4 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 17 | 3.4 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 2 | 3.4 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 2 | 3.4 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 2 | 3.4 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 12 | 3.4 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 12 | 3.4 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 4 | 3.4 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 4 | 3.4 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 4 | 3.4 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 2 | 3.4 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 2 | 3.4 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 2 | 3.4 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 11 | 3.4 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 6 | 3.4 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 6 | 3.4 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 6 | 3.4 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 6 | 3.4 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 6 | 3.4 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 6 | 3.4 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 6 | 3.4 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 3 | 3.4 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 16 | 3.4 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 10 | 3.4 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 10 | 3.4 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 13 | 3.4 |
| (1,1100) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 13 | 3.4 |
| (1,967) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 8 | 3.4 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 19 | 3.4 |
| (1,918) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 14 | 3.4 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 13 | 3.4 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 11 | 3.4 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 11 | 3.4 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 11 | 3.4 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 4 | 3.4 |
| (1,720) | 1:97:A:LYS:H | 1:99:A:GLY:H | 9 | 3.4 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 8 | 3.4 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 8 | 3.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 12 | 3.4 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 19 | 3.4 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 19 | 3.4 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 19 | 3.4 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 18 | 3.4 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 18 | 3.4 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 18 | 3.4 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 16 | 3.4 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 16 | 3.4 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 16 | 3.4 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 17 | 3.4 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 17 | 3.4 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 17 | 3.4 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 17 | 3.4 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 17 | 3.4 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 17 | 3.4 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 4 | 3.4 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 4 | 3.4 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 4 | 3.4 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 20 | 3.4 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 20 | 3.4 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 20 | 3.4 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 16 | 3.39 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 17 | 3.39 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 15 | 3.39 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 18 | 3.39 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE21 | 15 | 3.39 |
| (4,25) | 1:15:A:MET:CB | 1:75:A:GLN:HE22 | 15 | 3.39 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 12 | 3.39 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 12 | 3.39 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 15 | 3.39 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 15 | 3.39 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 15 | 3.39 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 15 | 3.39 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 15 | 3.39 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 15 | 3.39 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 9 | 3.39 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 9 | 3.39 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 9 | 3.39 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 9 | 3.39 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 9 | 3.39 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 9 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 12 | 3.39 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 12 | 3.39 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 12 | 3.39 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 12 | 3.39 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 15 | 3.39 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 15 | 3.39 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 15 | 3.39 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 15 | 3.39 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 7 | 3.39 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 7 | 3.39 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 5 | 3.39 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 5 | 3.39 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 5 | 3.39 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 5 | 3.39 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 11 | 3.39 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 11 | 3.39 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 11 | 3.39 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 11 | 3.39 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 11 | 3.39 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 11 | 3.39 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 20 | 3.39 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 20 | 3.39 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 6 | 3.39 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 6 | 3.39 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 6 | 3.39 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 6 | 3.39 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 6 | 3.39 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 6 | 3.39 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 16 | 3.39 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 16 | 3.39 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 12 | 3.39 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 12 | 3.39 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 10 | 3.39 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 10 | 3.39 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 8 | 3.39 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 8 | 3.39 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 19 | 3.39 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 19 | 3.39 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 19 | 3.39 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 19 | 3.39 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 19 | 3.39 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 19 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 3.39 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 3.39 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 3.39 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 3.39 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 3.39 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 3.39 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 4 | 3.39 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 4 | 3.39 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 4 | 3.39 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 4 | 3.39 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 4 | 3.39 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 4 | 3.39 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 3 | 3.39 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 3 | 3.39 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 12 | 3.39 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 12 | 3.39 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 12 | 3.39 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 12 | 3.39 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 2 | 3.39 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 2 | 3.39 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 2 | 3.39 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 2 | 3.39 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 16 | 3.39 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 16 | 3.39 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 16 | 3.39 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 16 | 3.39 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 1 | 3.39 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 1 | 3.39 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 19 | 3.39 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 19 | 3.39 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 9 | 3.39 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 9 | 3.39 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 10 | 3.39 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 10 | 3.39 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 1 | 3.39 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 1 | 3.39 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 1 | 3.39 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 1 | 3.39 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 1 | 3.39 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 1 | 3.39 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 15 | 3.39 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 15 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 8 | 3.39 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 8 | 3.39 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 8 | 3.39 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 8 | 3.39 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 8 | 3.39 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 8 | 3.39 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 8 | 3.39 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 8 | 3.39 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 8 | 3.39 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 12 | 3.39 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 12 | 3.39 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 12 | 3.39 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 12 | 3.39 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 12 | 3.39 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 12 | 3.39 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 9 | 3.39 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 9 | 3.39 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 3 | 3.39 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 3 | 3.39 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 18 | 3.39 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 18 | 3.39 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 18 | 3.39 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 16 | 3.39 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 16 | 3.39 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 16 | 3.39 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 16 | 3.39 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 16 | 3.39 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 16 | 3.39 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 16 | 3.39 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 16 | 3.39 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 16 | 3.39 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 9 | 3.39 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 9 | 3.39 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 9 | 3.39 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 3 | 3.39 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 7 | 3.39 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 7 | 3.39 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 7 | 3.39 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 7 | 3.39 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 7 | 3.39 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 7 | 3.39 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 7 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 7 | 3.39 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 7 | 3.39 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 12 | 3.39 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 12 | 3.39 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 12 | 3.39 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 13 | 3.39 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 13 | 3.39 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 20 | 3.39 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 7 | 3.39 |
| (1,7820) | 1:60:A:LEU:HG | 1:111:A:SER:H | 10 | 3.39 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 1 | 3.39 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 14 | 3.39 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 18 | 3.39 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 18 | 3.39 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 18 | 3.39 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 18 | 3.39 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 4 | 3.39 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 19 | 3.39 |
| (1,7641) | 1:28:A:ILE:HG13 | 1:29:A:THR:H | 1 | 3.39 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 3 | 3.39 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 6 | 3.39 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 6 | 3.39 |
| (1,7514) | 1:14:A:ARG:HD2 | 1:15:A:MET:H | 14 | 3.39 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 16 | 3.39 |
| (1,7462) | 1:11:A:TRP:HA | 1:26:A:ASN:HB2 | 15 | 3.39 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 9 | 3.39 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 9 | 3.39 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 9 | 3.39 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 1 | 3.39 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 1 | 3.39 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 3 | 3.39 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 3 | 3.39 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 11 | 3.39 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 11 | 3.39 |
| (1,7318) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 11 | 3.39 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 3 | 3.39 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 14 | 3.39 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 10 | 3.39 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 10 | 3.39 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 10 | 3.39 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 10 | 3.39 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 10 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 10 | 3.39 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 8 | 3.39 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 8 | 3.39 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 8 | 3.39 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 20 | 3.39 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 14 | 3.39 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 14 | 3.39 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 2 | 3.39 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 20 | 3.39 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 4 | 3.39 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 9 | 3.39 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 17 | 3.39 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 17 | 3.39 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 17 | 3.39 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 20 | 3.39 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 20 | 3.39 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 20 | 3.39 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 13 | 3.39 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 12 | 3.39 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 11 | 3.39 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 11 | 3.39 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 11 | 3.39 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 2 | 3.39 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 14 | 3.39 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 4 | 3.39 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 4 | 3.39 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 4 | 3.39 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 5 | 3.39 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 5 | 3.39 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 5 | 3.39 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 4 | 3.39 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 5 | 3.39 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 14 | 3.39 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 2 | 3.39 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 4 | 3.39 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 4 | 3.39 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 10 | 3.39 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 10 | 3.39 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 3 | 3.39 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 14 | 3.39 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 14 | 3.39 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 1 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 4 | 3.39 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 4 | 3.39 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 4 | 3.39 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 14 | 3.39 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 14 | 3.39 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 13 | 3.39 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 13 | 3.39 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 19 | 3.39 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 19 | 3.39 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 19 | 3.39 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 15 | 3.39 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 15 | 3.39 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 15 | 3.39 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 5 | 3.39 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 5 | 3.39 |
| (1,5561) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 5 | 3.39 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 17 | 3.39 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 17 | 3.39 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 17 | 3.39 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 6 | 3.39 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 8 | 3.39 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 4 | 3.39 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 20 | 3.39 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 12 | 3.39 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 12 | 3.39 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 12 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 8 | 3.39 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 8 | 3.39 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 1 | 3.39 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 1 | 3.39 |
| (1,5138) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 1 | 3.39 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 11 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 9 | 3.39 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 3 | 3.39 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 12 | 3.39 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 16 | 3.39 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 16 | 3.39 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 16 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 3 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 3 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 3 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 3 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 3 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 3 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 3 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 3 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 3 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 6 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 6 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 6 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 6 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 6 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 6 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 6 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 6 | 3.39 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 6 | 3.39 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 16 | 3.39 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 16 | 3.39 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 16 | 3.39 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 14 | 3.39 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 14 | 3.39 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 14 | 3.39 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 15 | 3.39 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 15 | 3.39 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 15 | 3.39 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 3 | 3.39 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 3 | 3.39 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 3 | 3.39 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 15 | 3.39 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 15 | 3.39 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 15 | 3.39 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 16 | 3.39 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 7 | 3.39 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 7 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 7 | 3.39 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 7 | 3.39 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 7 | 3.39 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 7 | 3.39 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 20 | 3.39 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 10 | 3.39 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 10 | 3.39 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 2 | 3.39 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 2 | 3.39 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 16 | 3.39 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 16 | 3.39 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 15 | 3.39 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 15 | 3.39 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 15 | 3.39 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 15 | 3.39 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 15 | 3.39 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 15 | 3.39 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 15 | 3.39 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 15 | 3.39 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 7 | 3.39 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 7 | 3.39 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 7 | 3.39 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 9 | 3.39 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 9 | 3.39 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 9 | 3.39 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 9 | 3.39 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 9 | 3.39 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 9 | 3.39 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 15 | 3.39 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 15 | 3.39 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 15 | 3.39 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 15 | 3.39 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 15 | 3.39 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 15 | 3.39 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 16 | 3.39 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 16 | 3.39 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 16 | 3.39 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 16 | 3.39 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 9 | 3.39 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 9 | 3.39 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 2 | 3.39 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 2 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 2 | 3.39 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 15 | 3.39 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 15 | 3.39 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 15 | 3.39 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 15 | 3.39 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 18 | 3.39 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 4 | 3.39 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 7 | 3.39 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 9 | 3.39 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 9 | 3.39 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 9 | 3.39 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 8 | 3.39 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 8 | 3.39 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 8 | 3.39 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 15 | 3.39 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 5 | 3.39 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 5 | 3.39 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 5 | 3.39 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 5 | 3.39 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 11 | 3.39 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 11 | 3.39 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 11 | 3.39 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 11 | 3.39 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 11 | 3.39 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 11 | 3.39 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 20 | 3.39 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 20 | 3.39 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 6 | 3.39 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 6 | 3.39 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 6 | 3.39 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 6 | 3.39 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 6 | 3.39 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 6 | 3.39 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 10 | 3.39 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 10 | 3.39 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 10 | 3.39 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 10 | 3.39 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 10 | 3.39 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 10 | 3.39 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 19 | 3.39 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 13 | 3.39 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 13 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 3.39 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 12 | 3.39 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 12 | 3.39 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 10 | 3.39 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 10 | 3.39 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 4 | 3.39 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 4 | 3.39 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 8 | 3.39 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 8 | 3.39 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 16 | 3.39 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 16 | 3.39 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 16 | 3.39 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 16 | 3.39 |
| (1,3826) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 6 | 3.39 |
| (1,3826) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 6 | 3.39 |
| (1,3826) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 6 | 3.39 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 1 | 3.39 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 1 | 3.39 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 1 | 3.39 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 3.39 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 3.39 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 3.39 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 3.39 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 3.39 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 3.39 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 12 | 3.39 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 3 | 3.39 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 3 | 3.39 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 12 | 3.39 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 12 | 3.39 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 12 | 3.39 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 12 | 3.39 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 20 | 3.39 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 19 | 3.39 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 19 | 3.39 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 10 | 3.39 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 10 | 3.39 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 9 | 3.39 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 9 | 3.39 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 11 | 3.39 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 11 | 3.39 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 5 | 3.39 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 8 | 3.39 |
| (1,3452) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 15 | 3.39 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 10 | 3.39 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 10 | 3.39 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 10 | 3.39 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 10 | 3.39 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 10 | 3.39 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 10 | 3.39 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 18 | 3.39 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 14 | 3.39 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 17 | 3.39 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 9 | 3.39 |
| (1,3190) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 2 | 3.39 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 15 | 3.39 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 17 | 3.39 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 8 | 3.39 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 8 | 3.39 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 8 | 3.39 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 5 | 3.39 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 20 | 3.39 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 14 | 3.39 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 14 | 3.39 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 2 | 3.39 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 3 | 3.39 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 20 | 3.39 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 17 | 3.39 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 4 | 3.39 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 9 | 3.39 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 17 | 3.39 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 17 | 3.39 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 17 | 3.39 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 13 | 3.39 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 15 | 3.39 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 15 | 3.39 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 7 | 3.39 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 3 | 3.39 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 3 | 3.39 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 3 | 3.39 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 3.39 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 10 | 3.39 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 12 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 18 | 3.39 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 18 | 3.39 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 18 | 3.39 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 18 | 3.39 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 18 | 3.39 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 18 | 3.39 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 11 | 3.39 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 11 | 3.39 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 11 | 3.39 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 1 | 3.39 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 16 | 3.39 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 3 | 3.39 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 11 | 3.39 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 11 | 3.39 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 11 | 3.39 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 3.39 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 3.39 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 3.39 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 20 | 3.39 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 20 | 3.39 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 20 | 3.39 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 16 | 3.39 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 16 | 3.39 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 16 | 3.39 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 19 | 3.39 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 19 | 3.39 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 19 | 3.39 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 19 | 3.39 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 19 | 3.39 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 19 | 3.39 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 19 | 3.39 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 19 | 3.39 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 19 | 3.39 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 9 | 3.39 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 9 | 3.39 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 9 | 3.39 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 2 | 3.39 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 14 | 3.39 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 4 | 3.39 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 4 | 3.39 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 4 | 3.39 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 5 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 5 | 3.39 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 5 | 3.39 |
| (1,1954) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 4 | 3.39 |
| (1,1954) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 4 | 3.39 |
| (1,1954) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 4 | 3.39 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 3 | 3.39 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 3 | 3.39 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 3 | 3.39 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 11 | 3.39 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 11 | 3.39 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 11 | 3.39 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 5 | 3.39 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 5 | 3.39 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 5 | 3.39 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 4 | 3.39 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 5 | 3.39 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 20 | 3.39 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 14 | 3.39 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 14 | 3.39 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 14 | 3.39 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 14 | 3.39 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 7 | 3.39 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 2 | 3.39 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 11 | 3.39 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 4 | 3.39 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 4 | 3.39 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 10 | 3.39 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 10 | 3.39 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 3 | 3.39 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 3.39 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 3.39 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 3.39 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 17 | 3.39 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 17 | 3.39 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 14 | 3.39 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 14 | 3.39 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 13 | 3.39 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 13 | 3.39 |
| (1,1458) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 13 | 3.39 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 1 | 3.39 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 17 | 3.39 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 17 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 4 | 3.39 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 4 | 3.39 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 4 | 3.39 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 15 | 3.39 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 15 | 3.39 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 15 | 3.39 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 15 | 3.39 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 15 | 3.39 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 15 | 3.39 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 14 | 3.39 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 14 | 3.39 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 16 | 3.39 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 16 | 3.39 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 16 | 3.39 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 7 | 3.39 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 13 | 3.39 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 13 | 3.39 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 14 | 3.39 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 5 | 3.39 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 1 | 3.39 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 10 | 3.39 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 12 | 3.39 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 16 | 3.39 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 13 | 3.39 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 13 | 3.39 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 13 | 3.39 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 15 | 3.39 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 15 | 3.39 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 15 | 3.39 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 20 | 3.39 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 3 | 3.39 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 3 | 3.39 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 5 | 3.39 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 5 | 3.39 |
| (1,726) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 5 | 3.39 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 17 | 3.39 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 17 | 3.39 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 17 | 3.39 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 6 | 3.39 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 8 | 3.39 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 5 | 3.39 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 5 | 3.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 9 | 3.39 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 9 | 3.39 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 4 | 3.39 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 20 | 3.39 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 10 | 3.39 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 2 | 3.39 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 2 | 3.39 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 2 | 3.39 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 10 | 3.39 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 10 | 3.39 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 10 | 3.39 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 10 | 3.39 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 10 | 3.39 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 10 | 3.39 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 13 | 3.39 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 13 | 3.39 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 13 | 3.39 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 2 | 3.39 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 10 | 3.39 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 10 | 3.39 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 10 | 3.39 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 17 | 3.39 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 17 | 3.39 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 17 | 3.39 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 9 | 3.39 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 9 | 3.39 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 9 | 3.39 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 12 | 3.38 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 9 | 3.38 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 9 | 3.38 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 2 | 3.38 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 2 | 3.38 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 2 | 3.38 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 2 | 3.38 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 2 | 3.38 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 2 | 3.38 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 20 | 3.38 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 20 | 3.38 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 20 | 3.38 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 20 | 3.38 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 20 | 3.38 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 20 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 14 | 3.38 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 14 | 3.38 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 14 | 3.38 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 14 | 3.38 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 14 | 3.38 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 14 | 3.38 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 11 | 3.38 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 11 | 3.38 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 11 | 3.38 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 11 | 3.38 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 11 | 3.38 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 11 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 9 | 3.38 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 9 | 3.38 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 3.38 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 11 | 3.38 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 13 | 3.38 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 13 | 3.38 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 15 | 3.38 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 15 | 3.38 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 15 | 3.38 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 15 | 3.38 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 15 | 3.38 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 15 | 3.38 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 4 | 3.38 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 4 | 3.38 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 4 | 3.38 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 4 | 3.38 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 15 | 3.38 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 15 | 3.38 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 14 | 3.38 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 14 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 14 | 3.38 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 14 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 6 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 6 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 6 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 6 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 6 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 6 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 10 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 10 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 10 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 10 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 10 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 10 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 20 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 20 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 20 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 20 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 20 | 3.38 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 20 | 3.38 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 14 | 3.38 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 14 | 3.38 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 14 | 3.38 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 14 | 3.38 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 14 | 3.38 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 14 | 3.38 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 8 | 3.38 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 8 | 3.38 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 1 | 3.38 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 1 | 3.38 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 12 | 3.38 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 12 | 3.38 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 6 | 3.38 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 6 | 3.38 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 6 | 3.38 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 6 | 3.38 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 1 | 3.38 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 1 | 3.38 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 1 | 3.38 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 1 | 3.38 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 1 | 3.38 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 1 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 3 | 3.38 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 3 | 3.38 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 2 | 3.38 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 2 | 3.38 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 2 | 3.38 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 2 | 3.38 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 2 | 3.38 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 2 | 3.38 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 8 | 3.38 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 8 | 3.38 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 8 | 3.38 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 8 | 3.38 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 8 | 3.38 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 8 | 3.38 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 19 | 3.38 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 19 | 3.38 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 19 | 3.38 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 19 | 3.38 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 13 | 3.38 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 13 | 3.38 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 13 | 3.38 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 13 | 3.38 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 3 | 3.38 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 3 | 3.38 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 3 | 3.38 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 7 | 3.38 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 7 | 3.38 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 7 | 3.38 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 7 | 3.38 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 7 | 3.38 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 7 | 3.38 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 20 | 3.38 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 6 | 3.38 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 6 | 3.38 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 6 | 3.38 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 6 | 3.38 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 6 | 3.38 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 6 | 3.38 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 6 | 3.38 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 6 | 3.38 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 6 | 3.38 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 1 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 1 | 3.38 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 1 | 3.38 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 1 | 3.38 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 4 | 3.38 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 14 | 3.38 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 3 | 3.38 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 20 | 3.38 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 20 | 3.38 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 4 | 3.38 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 2 | 3.38 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 10 | 3.38 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 9 | 3.38 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 9 | 3.38 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 9 | 3.38 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 9 | 3.38 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 9 | 3.38 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 9 | 3.38 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 14 | 3.38 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 4 | 3.38 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 4 | 3.38 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 4 | 3.38 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 8 | 3.38 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 8 | 3.38 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 8 | 3.38 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 16 | 3.38 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 16 | 3.38 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 16 | 3.38 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 12 | 3.38 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 16 | 3.38 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 9 | 3.38 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 13 | 3.38 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 13 | 3.38 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 13 | 3.38 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 13 | 3.38 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 13 | 3.38 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 13 | 3.38 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 13 | 3.38 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 13 | 3.38 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 13 | 3.38 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 14 | 3.38 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 14 | 3.38 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 14 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 19 | 3.38 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 19 | 3.38 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 16 | 3.38 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 16 | 3.38 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 16 | 3.38 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 6 | 3.38 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 11 | 3.38 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 7 | 3.38 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 3 | 3.38 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 12 | 3.38 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 1 | 3.38 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 1 | 3.38 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 10 | 3.38 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 1 | 3.38 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 1 | 3.38 |
| (1,6744) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 1 | 3.38 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 1 | 3.38 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 1 | 3.38 |
| (1,6744) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 1 | 3.38 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 1 | 3.38 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 1 | 3.38 |
| (1,6744) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 1 | 3.38 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 2 | 3.38 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 11 | 3.38 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 16 | 3.38 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 12 | 3.38 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 12 | 3.38 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 12 | 3.38 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 2 | 3.38 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 2 | 3.38 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 2 | 3.38 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 17 | 3.38 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 17 | 3.38 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 17 | 3.38 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 12 | 3.38 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 14 | 3.38 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 18 | 3.38 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 5 | 3.38 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 5 | 3.38 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 5 | 3.38 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 10 | 3.38 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 10 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 10 | 3.38 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 10 | 3.38 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 10 | 3.38 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 10 | 3.38 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 10 | 3.38 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 10 | 3.38 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 10 | 3.38 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 13 | 3.38 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 15 | 3.38 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 15 | 3.38 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 5 | 3.38 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 5 | 3.38 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 5 | 3.38 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 18 | 3.38 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 18 | 3.38 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 1 | 3.38 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 4 | 3.38 |
| (1,6211) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 4 | 3.38 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 9 | 3.38 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 9 | 3.38 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 7 | 3.38 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 5 | 3.38 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 10 | 3.38 |
| (1,6090) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 14 | 3.38 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 11 | 3.38 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 11 | 3.38 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 15 | 3.38 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 15 | 3.38 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 15 | 3.38 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 6 | 3.38 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 6 | 3.38 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 6 | 3.38 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 10 | 3.38 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 10 | 3.38 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 10 | 3.38 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 1 | 3.38 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 1 | 3.38 |
| (1,6019) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 1 | 3.38 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 1 | 3.38 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 1 | 3.38 |
| (1,6019) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 1 | 3.38 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 10 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 10 | 3.38 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 18 | 3.38 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 9 | 3.38 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 9 | 3.38 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 19 | 3.38 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 4 | 3.38 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 2 | 3.38 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 2 | 3.38 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 15 | 3.38 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 9 | 3.38 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 9 | 3.38 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 9 | 3.38 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 10 | 3.38 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 10 | 3.38 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 10 | 3.38 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 10 | 3.38 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 1 | 3.38 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 6 | 3.38 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 6 | 3.38 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 6 | 3.38 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 6 | 3.38 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 18 | 3.38 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 18 | 3.38 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 18 | 3.38 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 18 | 3.38 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 3 | 3.38 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 16 | 3.38 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 7 | 3.38 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 5 | 3.38 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 19 | 3.38 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 3 | 3.38 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 3 | 3.38 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 3 | 3.38 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 7 | 3.38 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 15 | 3.38 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 15 | 3.38 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 15 | 3.38 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 6 | 3.38 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 5 | 3.38 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 3 | 3.38 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 3 | 3.38 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 3 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 16 | 3.38 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 7 | 3.38 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 7 | 3.38 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 7 | 3.38 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 10 | 3.38 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 10 | 3.38 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 10 | 3.38 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 10 | 3.38 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 10 | 3.38 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 10 | 3.38 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 10 | 3.38 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 10 | 3.38 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 10 | 3.38 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 3 | 3.38 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 17 | 3.38 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 12 | 3.38 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 18 | 3.38 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 18 | 3.38 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 18 | 3.38 |
| (1,4714) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 4 | 3.38 |
| (1,4714) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 4 | 3.38 |
| (1,4714) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 4 | 3.38 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 2 | 3.38 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 2 | 3.38 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 2 | 3.38 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 2 | 3.38 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 2 | 3.38 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 2 | 3.38 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 9 | 3.38 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 13 | 3.38 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 13 | 3.38 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 5 | 3.38 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 5 | 3.38 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 11 | 3.38 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 11 | 3.38 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 5 | 3.38 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 14 | 3.38 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 14 | 3.38 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 14 | 3.38 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 9 | 3.38 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 9 | 3.38 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 12 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 12 | 3.38 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 12 | 3.38 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 1 | 3.38 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 8 | 3.38 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 10 | 3.38 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 10 | 3.38 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 5 | 3.38 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 5 | 3.38 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 5 | 3.38 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 7 | 3.38 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 7 | 3.38 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 5 | 3.38 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 5 | 3.38 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 5 | 3.38 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 12 | 3.38 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 12 | 3.38 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 12 | 3.38 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 12 | 3.38 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 12 | 3.38 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 12 | 3.38 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 7 | 3.38 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 7 | 3.38 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 7 | 3.38 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 14 | 3.38 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 14 | 3.38 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 14 | 3.38 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 14 | 3.38 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 14 | 3.38 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 14 | 3.38 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 13 | 3.38 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 13 | 3.38 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 13 | 3.38 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 3 | 3.38 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 11 | 3.38 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 11 | 3.38 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 11 | 3.38 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 11 | 3.38 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 11 | 3.38 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 11 | 3.38 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 3.38 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 11 | 3.38 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 13 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 13 | 3.38 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 15 | 3.38 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 15 | 3.38 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 15 | 3.38 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 4 | 3.38 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 4 | 3.38 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 4 | 3.38 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 4 | 3.38 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 14 | 3.38 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 14 | 3.38 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 14 | 3.38 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 14 | 3.38 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 20 | 3.38 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 9 | 3.38 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 7 | 3.38 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 7 | 3.38 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 7 | 3.38 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 14 | 3.38 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 14 | 3.38 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 14 | 3.38 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 14 | 3.38 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 14 | 3.38 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 14 | 3.38 |
| (1,4180) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 13 | 3.38 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 17 | 3.38 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 5 | 3.38 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 2 | 3.38 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 8 | 3.38 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 8 | 3.38 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 9 | 3.38 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 9 | 3.38 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 9 | 3.38 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 11 | 3.38 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 11 | 3.38 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 11 | 3.38 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 12 | 3.38 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 12 | 3.38 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 1 | 3.38 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 1 | 3.38 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 1 | 3.38 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 1 | 3.38 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 1 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 1 | 3.38 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 17 | 3.38 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 17 | 3.38 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 3 | 3.38 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 3 | 3.38 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 2 | 3.38 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 2 | 3.38 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 5 | 3.38 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 5 | 3.38 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 2 | 3.38 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 2 | 3.38 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 2 | 3.38 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 2 | 3.38 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 2 | 3.38 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 2 | 3.38 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 3 | 3.38 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 8 | 3.38 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 8 | 3.38 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 8 | 3.38 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 8 | 3.38 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 8 | 3.38 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 8 | 3.38 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 11 | 3.38 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 7 | 3.38 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 7 | 3.38 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 4 | 3.38 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 4 | 3.38 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 9 | 3.38 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 9 | 3.38 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 15 | 3.38 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 15 | 3.38 |
| (1,3592) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 4 | 3.38 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 4 | 3.38 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 4 | 3.38 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 3.38 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 3.38 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 1 | 3.38 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 7 | 3.38 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 13 | 3.38 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 13 | 3.38 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 13 | 3.38 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 13 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 13 | 3.38 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 13 | 3.38 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 13 | 3.38 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 13 | 3.38 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 13 | 3.38 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 13 | 3.38 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 13 | 3.38 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 4 | 3.38 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 14 | 3.38 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 14 | 3.38 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 14 | 3.38 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 15 | 3.38 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 15 | 3.38 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 19 | 3.38 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 19 | 3.38 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 16 | 3.38 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 16 | 3.38 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 16 | 3.38 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 10 | 3.38 |
| (1,3322) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 10 | 3.38 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 18 | 3.38 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 18 | 3.38 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 16 | 3.38 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 16 | 3.38 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 16 | 3.38 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 6 | 3.38 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 19 | 3.38 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 6 | 3.38 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 6 | 3.38 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 11 | 3.38 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 10 | 3.38 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 7 | 3.38 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 3 | 3.38 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 3 | 3.38 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 3 | 3.38 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 12 | 3.38 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 1 | 3.38 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 1 | 3.38 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 10 | 3.38 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 1 | 3.38 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 1 | 3.38 |
| (1,2682) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 1 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 1 | 3.38 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 1 | 3.38 |
| (1,2682) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 1 | 3.38 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 1 | 3.38 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 1 | 3.38 |
| (1,2682) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 1 | 3.38 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 12 | 3.38 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 2 | 3.38 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 2 | 3.38 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 2 | 3.38 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 8 | 3.38 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 2 | 3.38 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 16 | 3.38 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 12 | 3.38 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 12 | 3.38 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 12 | 3.38 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 2 | 3.38 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 2 | 3.38 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 2 | 3.38 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 17 | 3.38 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 17 | 3.38 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 17 | 3.38 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 12 | 3.38 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 14 | 3.38 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 18 | 3.38 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 11 | 3.38 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 18 | 3.38 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 5 | 3.38 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 5 | 3.38 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 5 | 3.38 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 16 | 3.38 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 9 | 3.38 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 9 | 3.38 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 9 | 3.38 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 18 | 3.38 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 3 | 3.38 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 10 | 3.38 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 10 | 3.38 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 10 | 3.38 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 10 | 3.38 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 10 | 3.38 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 10 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 10 | 3.38 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 10 | 3.38 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 10 | 3.38 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 15 | 3.38 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 15 | 3.38 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 5 | 3.38 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 5 | 3.38 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 5 | 3.38 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 18 | 3.38 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 18 | 3.38 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 1 | 3.38 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 9 | 3.38 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 9 | 3.38 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 9 | 3.38 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 15 | 3.38 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 15 | 3.38 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 15 | 3.38 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 19 | 3.38 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 19 | 3.38 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 19 | 3.38 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 4 | 3.38 |
| (1,1838) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 4 | 3.38 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 18 | 3.38 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 13 | 3.38 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 9 | 3.38 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 9 | 3.38 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 8 | 3.38 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 7 | 3.38 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 5 | 3.38 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 10 | 3.38 |
| (1,1662) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 14 | 3.38 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 11 | 3.38 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 11 | 3.38 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 15 | 3.38 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 15 | 3.38 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 15 | 3.38 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 6 | 3.38 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 6 | 3.38 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 6 | 3.38 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 10 | 3.38 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 10 | 3.38 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 10 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 17 | 3.38 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 17 | 3.38 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 17 | 3.38 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 1 | 3.38 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 1 | 3.38 |
| (1,1532) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 1 | 3.38 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 1 | 3.38 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 1 | 3.38 |
| (1,1532) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 1 | 3.38 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 11 | 3.38 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 11 | 3.38 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 10 | 3.38 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 10 | 3.38 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 18 | 3.38 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 6 | 3.38 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 9 | 3.38 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 9 | 3.38 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 19 | 3.38 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 4 | 3.38 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 1 | 3.38 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 6 | 3.38 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 6 | 3.38 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 6 | 3.38 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 10 | 3.38 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 11 | 3.38 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 2 | 3.38 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 2 | 3.38 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 18 | 3.38 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 18 | 3.38 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 18 | 3.38 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 15 | 3.38 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 6 | 3.38 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 9 | 3.38 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 9 | 3.38 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 9 | 3.38 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 20 | 3.38 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 20 | 3.38 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 10 | 3.38 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 10 | 3.38 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 10 | 3.38 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 8 | 3.38 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 8 | 3.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 8 | 3.38 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 8 | 3.38 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 8 | 3.38 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 8 | 3.38 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 17 | 3.38 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 9 | 3.37 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 15 | 3.37 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 9 | 3.37 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 7 | 3.37 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 17 | 3.37 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 4 | 3.37 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 4 | 3.37 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 6 | 3.37 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 6 | 3.37 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 6 | 3.37 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 6 | 3.37 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 6 | 3.37 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 6 | 3.37 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 15 | 3.37 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 15 | 3.37 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 6 | 3.37 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 6 | 3.37 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 6 | 3.37 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 6 | 3.37 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 15 | 3.37 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 15 | 3.37 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 6 | 3.37 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 6 | 3.37 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 6 | 3.37 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 6 | 3.37 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 20 | 3.37 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 20 | 3.37 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 20 | 3.37 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 20 | 3.37 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 20 | 3.37 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 20 | 3.37 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 11 | 3.37 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 11 | 3.37 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 12 | 3.37 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 12 | 3.37 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 12 | 3.37 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 12 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 12 | 3.37 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 12 | 3.37 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 12 | 3.37 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 12 | 3.37 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 7 | 3.37 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 7 | 3.37 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 7 | 3.37 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 7 | 3.37 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 7 | 3.37 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 7 | 3.37 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 11 | 3.37 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 11 | 3.37 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 4 | 3.37 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 4 | 3.37 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 3.37 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 20 | 3.37 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 3.37 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 20 | 3.37 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 3.37 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 20 | 3.37 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 5 | 3.37 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 5 | 3.37 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 13 | 3.37 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 13 | 3.37 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 13 | 3.37 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 13 | 3.37 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 12 | 3.37 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 12 | 3.37 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 16 | 3.37 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 16 | 3.37 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 16 | 3.37 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 16 | 3.37 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 16 | 3.37 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 16 | 3.37 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 11 | 3.37 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 11 | 3.37 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 20 | 3.37 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 20 | 3.37 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 20 | 3.37 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 20 | 3.37 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 20 | 3.37 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 20 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 12 | 3.37 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 12 | 3.37 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 19 | 3.37 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 19 | 3.37 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 1 | 3.37 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 1 | 3.37 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 1 | 3.37 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 14 | 3.37 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 14 | 3.37 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 14 | 3.37 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 5 | 3.37 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 15 | 3.37 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 15 | 3.37 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 15 | 3.37 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 15 | 3.37 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 15 | 3.37 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 15 | 3.37 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 20 | 3.37 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 20 | 3.37 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 20 | 3.37 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 11 | 3.37 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 1 | 3.37 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD11 | 2 | 3.37 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD12 | 2 | 3.37 |
| (1,7874) | 1:64:A:HIS:H | 1:78:A:ILE:HD13 | 2 | 3.37 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 16 | 3.37 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 20 | 3.37 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 20 | 3.37 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 20 | 3.37 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 13 | 3.37 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 16 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 8 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 8 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 8 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 8 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 8 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 8 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 19 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 19 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 19 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 19 | 3.37 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 19 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 19 | 3.37 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 7 | 3.37 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 7 | 3.37 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 18 | 3.37 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 18 | 3.37 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 18 | 3.37 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 18 | 3.37 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 18 | 3.37 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 18 | 3.37 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 15 | 3.37 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 15 | 3.37 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 2 | 3.37 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 2 | 3.37 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 3 | 3.37 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 16 | 3.37 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 8 | 3.37 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 8 | 3.37 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 8 | 3.37 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 8 | 3.37 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 8 | 3.37 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 8 | 3.37 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 8 | 3.37 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 8 | 3.37 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 8 | 3.37 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 2 | 3.37 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 2 | 3.37 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 2 | 3.37 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 11 | 3.37 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 11 | 3.37 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 11 | 3.37 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 12 | 3.37 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 12 | 3.37 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 12 | 3.37 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 9 | 3.37 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 9 | 3.37 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 12 | 3.37 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 13 | 3.37 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 14 | 3.37 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 17 | 3.37 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 7 | 3.37 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 7 | 3.37 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 7 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6840) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 1 | 3.37 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 12 | 3.37 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 10 | 3.37 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 10 | 3.37 |
| (1,6631) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 3 | 3.37 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 18 | 3.37 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 5 | 3.37 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 1 | 3.37 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 11 | 3.37 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 16 | 3.37 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 16 | 3.37 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 16 | 3.37 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 18 | 3.37 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 18 | 3.37 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 18 | 3.37 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 9 | 3.37 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 14 | 3.37 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 14 | 3.37 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 14 | 3.37 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 18 | 3.37 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 18 | 3.37 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 4 | 3.37 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 4 | 3.37 |
| (1,6286) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 4 | 3.37 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 17 | 3.37 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 5 | 3.37 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 5 | 3.37 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 5 | 3.37 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 15 | 3.37 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 9 | 3.37 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 14 | 3.37 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 12 | 3.37 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 3 | 3.37 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 3 | 3.37 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 3 | 3.37 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 6 | 3.37 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 6 | 3.37 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 6 | 3.37 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 7 | 3.37 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 7 | 3.37 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 7 | 3.37 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 10 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 10 | 3.37 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 10 | 3.37 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 8 | 3.37 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 4 | 3.37 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 4 | 3.37 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 4 | 3.37 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 4 | 3.37 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 4 | 3.37 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 4 | 3.37 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 4 | 3.37 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 4 | 3.37 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 4 | 3.37 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 2 | 3.37 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 17 | 3.37 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 17 | 3.37 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 17 | 3.37 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 17 | 3.37 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 17 | 3.37 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 17 | 3.37 |
| (1,5843) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 17 | 3.37 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 9 | 3.37 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 5 | 3.37 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 5 | 3.37 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 12 | 3.37 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 12 | 3.37 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 17 | 3.37 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 17 | 3.37 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 3 | 3.37 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 7 | 3.37 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 7 | 3.37 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 7 | 3.37 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 3 | 3.37 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 3 | 3.37 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 3 | 3.37 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 15 | 3.37 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 15 | 3.37 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 15 | 3.37 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 15 | 3.37 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 15 | 3.37 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 15 | 3.37 |
| (1,5630) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 8 | 3.37 |
| (1,5630) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 8 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5630) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 8 | 3.37 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 3 | 3.37 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 3 | 3.37 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 3 | 3.37 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 10 | 3.37 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 10 | 3.37 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 10 | 3.37 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 5 | 3.37 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 5 | 3.37 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 16 | 3.37 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 16 | 3.37 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 16 | 3.37 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 8 | 3.37 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 18 | 3.37 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 6 | 3.37 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 6 | 3.37 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 6 | 3.37 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 5 | 3.37 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 5 | 3.37 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 5 | 3.37 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 5 | 3.37 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 5 | 3.37 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 5 | 3.37 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 5 | 3.37 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 5 | 3.37 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 5 | 3.37 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 15 | 3.37 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 15 | 3.37 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 15 | 3.37 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 20 | 3.37 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 20 | 3.37 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 20 | 3.37 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 11 | 3.37 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 11 | 3.37 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 11 | 3.37 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 7 | 3.37 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 10 | 3.37 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 2 | 3.37 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 2 | 3.37 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 11 | 3.37 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 11 | 3.37 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 11 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 11 | 3.37 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 11 | 3.37 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 11 | 3.37 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 11 | 3.37 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 11 | 3.37 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 11 | 3.37 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 18 | 3.37 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 18 | 3.37 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 18 | 3.37 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 18 | 3.37 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 18 | 3.37 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 18 | 3.37 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 18 | 3.37 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 18 | 3.37 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 18 | 3.37 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 11 | 3.37 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 11 | 3.37 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 11 | 3.37 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 16 | 3.37 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 16 | 3.37 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 16 | 3.37 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 10 | 3.37 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 10 | 3.37 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 10 | 3.37 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 14 | 3.37 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 14 | 3.37 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 14 | 3.37 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 14 | 3.37 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 14 | 3.37 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 14 | 3.37 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 1 | 3.37 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 1 | 3.37 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 1 | 3.37 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 15 | 3.37 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 15 | 3.37 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 19 | 3.37 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 19 | 3.37 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 19 | 3.37 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 19 | 3.37 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 20 | 3.37 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 20 | 3.37 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 20 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 20 | 3.37 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 20 | 3.37 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 20 | 3.37 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 1 | 3.37 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 1 | 3.37 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 6 | 3.37 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 2 | 3.37 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 1 | 3.37 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 20 | 3.37 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 20 | 3.37 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 20 | 3.37 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 20 | 3.37 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 20 | 3.37 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 20 | 3.37 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 20 | 3.37 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 12 | 3.37 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 18 | 3.37 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 18 | 3.37 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 18 | 3.37 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 2 | 3.37 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 8 | 3.37 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 8 | 3.37 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 8 | 3.37 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 4 | 3.37 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 4 | 3.37 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 20 | 3.37 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 3.37 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 3.37 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 20 | 3.37 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 3.37 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 20 | 3.37 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 3.37 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 20 | 3.37 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 5 | 3.37 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 5 | 3.37 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 17 | 3.37 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 4 | 3.37 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 4 | 3.37 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 1 | 3.37 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 18 | 3.37 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 18 | 3.37 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 18 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 1 | 3.37 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 1 | 3.37 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 11 | 3.37 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 11 | 3.37 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 6 | 3.37 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 6 | 3.37 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 13 | 3.37 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 13 | 3.37 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 13 | 3.37 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 13 | 3.37 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 13 | 3.37 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 13 | 3.37 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 20 | 3.37 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 20 | 3.37 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 20 | 3.37 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 20 | 3.37 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 20 | 3.37 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 20 | 3.37 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 3.37 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 3.37 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 3 | 3.37 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 9 | 3.37 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 12 | 3.37 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 12 | 3.37 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 19 | 3.37 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 19 | 3.37 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 8 | 3.37 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 8 | 3.37 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 8 | 3.37 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 8 | 3.37 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 8 | 3.37 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 8 | 3.37 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 8 | 3.37 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 8 | 3.37 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 8 | 3.37 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 2 | 3.37 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 2 | 3.37 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 2 | 3.37 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 3 | 3.37 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 14 | 3.37 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 3 | 3.37 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 11 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 11 | 3.37 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 11 | 3.37 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 4 | 3.37 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 12 | 3.37 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 12 | 3.37 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 12 | 3.37 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 9 | 3.37 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 9 | 3.37 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 3 | 3.37 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 13 | 3.37 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 12 | 3.37 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 13 | 3.37 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 14 | 3.37 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 17 | 3.37 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 2 | 3.37 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 7 | 3.37 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 7 | 3.37 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 7 | 3.37 |
| (1,2824) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 1 | 3.37 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 12 | 3.37 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 17 | 3.37 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 17 | 3.37 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 17 | 3.37 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 17 | 3.37 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 17 | 3.37 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 17 | 3.37 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 19 | 3.37 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 10 | 3.37 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 10 | 3.37 |
| (1,2494) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 3 | 3.37 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 5 | 3.37 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 1 | 3.37 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 11 | 3.37 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 16 | 3.37 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 16 | 3.37 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 16 | 3.37 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 18 | 3.37 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 18 | 3.37 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 18 | 3.37 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 8 | 3.37 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 9 | 3.37 |
| (1,2288) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 10 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2288) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 10 | 3.37 |
| (1,2288) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 10 | 3.37 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 4 | 3.37 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 4 | 3.37 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 4 | 3.37 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 17 | 3.37 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 17 | 3.37 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 17 | 3.37 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 2 | 3.37 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 14 | 3.37 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 14 | 3.37 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 14 | 3.37 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 18 | 3.37 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 19 | 3.37 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 18 | 3.37 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 18 | 3.37 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 4 | 3.37 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 4 | 3.37 |
| (1,1958) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 4 | 3.37 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 18 | 3.37 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 18 | 3.37 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 18 | 3.37 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 3 | 3.37 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 3 | 3.37 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 3 | 3.37 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 17 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 1 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 1 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 1 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 6 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 6 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 6 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 8 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 8 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 8 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 13 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 13 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 13 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 17 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 17 | 3.37 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 17 | 3.37 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 16 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 16 | 3.37 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 16 | 3.37 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 5 | 3.37 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 5 | 3.37 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 5 | 3.37 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 15 | 3.37 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 18 | 3.37 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 9 | 3.37 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 14 | 3.37 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 3 | 3.37 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 3 | 3.37 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 3 | 3.37 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 6 | 3.37 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 6 | 3.37 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 6 | 3.37 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 7 | 3.37 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 7 | 3.37 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 7 | 3.37 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 10 | 3.37 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 10 | 3.37 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 10 | 3.37 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 9 | 3.37 |
| (1,1694) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 19 | 3.37 |
| (1,1694) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 19 | 3.37 |
| (1,1694) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 19 | 3.37 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 17 | 3.37 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 8 | 3.37 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 4 | 3.37 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 4 | 3.37 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 4 | 3.37 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 4 | 3.37 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 4 | 3.37 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 4 | 3.37 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 4 | 3.37 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 4 | 3.37 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 4 | 3.37 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 17 | 3.37 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 17 | 3.37 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 17 | 3.37 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 2 | 3.37 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 2 | 3.37 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 18 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 18 | 3.37 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 18 | 3.37 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 18 | 3.37 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 18 | 3.37 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 18 | 3.37 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 17 | 3.37 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 17 | 3.37 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 17 | 3.37 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 17 | 3.37 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 17 | 3.37 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 17 | 3.37 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 6 | 3.37 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 19 | 3.37 |
| (1,1218) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 17 | 3.37 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 9 | 3.37 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 5 | 3.37 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 5 | 3.37 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 12 | 3.37 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 12 | 3.37 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 17 | 3.37 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 17 | 3.37 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 16 | 3.37 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 3 | 3.37 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 12 | 3.37 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 12 | 3.37 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 12 | 3.37 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 12 | 3.37 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 12 | 3.37 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 12 | 3.37 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 16 | 3.37 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 3 | 3.37 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 6 | 3.37 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 7 | 3.37 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 14 | 3.37 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 5 | 3.37 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 7 | 3.37 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 7 | 3.37 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 7 | 3.37 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 4 | 3.37 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 3 | 3.37 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 3 | 3.37 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 3 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 15 | 3.37 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 15 | 3.37 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 15 | 3.37 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 15 | 3.37 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 15 | 3.37 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 15 | 3.37 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 12 | 3.37 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 12 | 3.37 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 12 | 3.37 |
| (1,844) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 8 | 3.37 |
| (1,844) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 8 | 3.37 |
| (1,844) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 8 | 3.37 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 15 | 3.37 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 3 | 3.37 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 3 | 3.37 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 3 | 3.37 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 10 | 3.37 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 10 | 3.37 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 10 | 3.37 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 5 | 3.37 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 5 | 3.37 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 7 | 3.37 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 7 | 3.37 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 6 | 3.37 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 15 | 3.37 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 17 | 3.37 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 16 | 3.37 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 16 | 3.37 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 16 | 3.37 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 10 | 3.37 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 8 | 3.37 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 4 | 3.37 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 4 | 3.37 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 4 | 3.37 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 17 | 3.37 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 2 | 3.37 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 2 | 3.37 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 2 | 3.37 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 19 | 3.37 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 19 | 3.37 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 19 | 3.37 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 11 | 3.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 11 | 3.37 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 11 | 3.37 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 16 | 3.36 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 3 | 3.36 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 11 | 3.36 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 12 | 3.36 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 13 | 3.36 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 1 | 3.36 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 1 | 3.36 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 1 | 3.36 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 1 | 3.36 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 1 | 3.36 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 1 | 3.36 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 19 | 3.36 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 19 | 3.36 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 1 | 3.36 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 1 | 3.36 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 1 | 3.36 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 1 | 3.36 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 3 | 3.36 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 3 | 3.36 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 3 | 3.36 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 3 | 3.36 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 10 | 3.36 |
| (1,9458) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 10 | 3.36 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 5 | 3.36 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 5 | 3.36 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 5 | 3.36 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 5 | 3.36 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 5 | 3.36 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 5 | 3.36 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 14 | 3.36 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 14 | 3.36 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB1 | 4 | 3.36 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB2 | 4 | 3.36 |
| (1,9332) | 1:108:A:SER:HB2 | 1:116:A:ALA:HB3 | 4 | 3.36 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB1 | 4 | 3.36 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB2 | 4 | 3.36 |
| (1,9332) | 1:108:A:SER:HB3 | 1:116:A:ALA:HB3 | 4 | 3.36 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 9 | 3.36 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 9 | 3.36 |
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 2 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9066) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 2 | 3.36 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 2 | 3.36 |
| (1,9066) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 2 | 3.36 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 10 | 3.36 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 10 | 3.36 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 12 | 3.36 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 12 | 3.36 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 4 | 3.36 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 4 | 3.36 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 4 | 3.36 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 4 | 3.36 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 4 | 3.36 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 4 | 3.36 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 3.36 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 20 | 3.36 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 13 | 3.36 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 13 | 3.36 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 13 | 3.36 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 13 | 3.36 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 13 | 3.36 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 13 | 3.36 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 4 | 3.36 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 4 | 3.36 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 16 | 3.36 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 16 | 3.36 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 16 | 3.36 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 16 | 3.36 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 8 | 3.36 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 8 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 5 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 5 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 5 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 5 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 5 | 3.36 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 5 | 3.36 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 8 | 3.36 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 8 | 3.36 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 8 | 3.36 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 8 | 3.36 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 8 | 3.36 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 8 | 3.36 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 8 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 8 | 3.36 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 8 | 3.36 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 8 | 3.36 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 7 | 3.36 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 7 | 3.36 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 7 | 3.36 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 7 | 3.36 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 18 | 3.36 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 18 | 3.36 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 10 | 3.36 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 10 | 3.36 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 6 | 3.36 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 6 | 3.36 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 9 | 3.36 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 12 | 3.36 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 19 | 3.36 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 19 | 3.36 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 19 | 3.36 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 19 | 3.36 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 19 | 3.36 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 19 | 3.36 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 17 | 3.36 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 17 | 3.36 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 17 | 3.36 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 6 | 3.36 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 6 | 3.36 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 8 | 3.36 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 6 | 3.36 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 1 | 3.36 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 7 | 3.36 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 13 | 3.36 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 16 | 3.36 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 7 | 3.36 |
| (1,7527) | 1:14:A:ARG:HG3 | 1:15:A:MET:H | 16 | 3.36 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 6 | 3.36 |
| (1,7422) | 1:7:A:LEU:HG | 1:8:A:PRO:HD2 | 7 | 3.36 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 2 | 3.36 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 2 | 3.36 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 2 | 3.36 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 2 | 3.36 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 2 | 3.36 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 2 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 20 | 3.36 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 20 | 3.36 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 20 | 3.36 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 6 | 3.36 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 6 | 3.36 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 8 | 3.36 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 8 | 3.36 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 8 | 3.36 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 10 | 3.36 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 6 | 3.36 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 6 | 3.36 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 6 | 3.36 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 3 | 3.36 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 3 | 3.36 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 7 | 3.36 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 7 | 3.36 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 3 | 3.36 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 2 | 3.36 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 2 | 3.36 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 6 | 3.36 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 12 | 3.36 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 12 | 3.36 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 3 | 3.36 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 15 | 3.36 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 8 | 3.36 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 16 | 3.36 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 2 | 3.36 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 2 | 3.36 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 3 | 3.36 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 4 | 3.36 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 4 | 3.36 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 4 | 3.36 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 8 | 3.36 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 8 | 3.36 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 8 | 3.36 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 12 | 3.36 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 12 | 3.36 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 12 | 3.36 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 6 | 3.36 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 6 | 3.36 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 6 | 3.36 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 16 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 7 | 3.36 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 7 | 3.36 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 7 | 3.36 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 15 | 3.36 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 20 | 3.36 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 20 | 3.36 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 2 | 3.36 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 2 | 3.36 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 2 | 3.36 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 6 | 3.36 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 6 | 3.36 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 6 | 3.36 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 1 | 3.36 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 19 | 3.36 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 7 | 3.36 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 7 | 3.36 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 7 | 3.36 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 7 | 3.36 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 7 | 3.36 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 7 | 3.36 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 7 | 3.36 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 7 | 3.36 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 7 | 3.36 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 1 | 3.36 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 14 | 3.36 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 14 | 3.36 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 14 | 3.36 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 3 | 3.36 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 3 | 3.36 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 10 | 3.36 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 6 | 3.36 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 16 | 3.36 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 16 | 3.36 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 16 | 3.36 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 20 | 3.36 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 1 | 3.36 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 9 | 3.36 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 5 | 3.36 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 5 | 3.36 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 5 | 3.36 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 5 | 3.36 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 20 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 20 | 3.36 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 20 | 3.36 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 20 | 3.36 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 20 | 3.36 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 20 | 3.36 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 11 | 3.36 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 12 | 3.36 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 12 | 3.36 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 12 | 3.36 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 14 | 3.36 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 15 | 3.36 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 8 | 3.36 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 8 | 3.36 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 8 | 3.36 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 13 | 3.36 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 13 | 3.36 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 13 | 3.36 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 2 | 3.36 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 16 | 3.36 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 16 | 3.36 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 16 | 3.36 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 8 | 3.36 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 13 | 3.36 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 13 | 3.36 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 13 | 3.36 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 16 | 3.36 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 16 | 3.36 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 15 | 3.36 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 3 | 3.36 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 12 | 3.36 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 14 | 3.36 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 19 | 3.36 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 3 | 3.36 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 1 | 3.36 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 1 | 3.36 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 1 | 3.36 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 4 | 3.36 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 4 | 3.36 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 4 | 3.36 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 19 | 3.36 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 19 | 3.36 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 19 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 14 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 14 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 14 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 14 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 14 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 14 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 14 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 14 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 14 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 19 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 19 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 19 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 19 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 19 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 19 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 19 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 19 | 3.36 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 19 | 3.36 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 13 | 3.36 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 13 | 3.36 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 13 | 3.36 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 13 | 3.36 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 13 | 3.36 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 13 | 3.36 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 13 | 3.36 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 13 | 3.36 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 13 | 3.36 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 13 | 3.36 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 13 | 3.36 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 1 | 3.36 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 1 | 3.36 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 1 | 3.36 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 1 | 3.36 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 1 | 3.36 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 1 | 3.36 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 17 | 3.36 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 17 | 3.36 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 1 | 3.36 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 7 | 3.36 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 7 | 3.36 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 7 | 3.36 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 1 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 2 | 3.36 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 2 | 3.36 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 20 | 3.36 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 20 | 3.36 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 20 | 3.36 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 20 | 3.36 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 20 | 3.36 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 20 | 3.36 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 16 | 3.36 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 16 | 3.36 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 18 | 3.36 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 18 | 3.36 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 6 | 3.36 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 1 | 3.36 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 1 | 3.36 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 1 | 3.36 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 1 | 3.36 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 3 | 3.36 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 3 | 3.36 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 3 | 3.36 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 3 | 3.36 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 10 | 3.36 |
| (1,4448) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 10 | 3.36 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 5 | 3.36 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 5 | 3.36 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 5 | 3.36 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 5 | 3.36 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 5 | 3.36 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 5 | 3.36 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 14 | 3.36 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 14 | 3.36 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 15 | 3.36 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 15 | 3.36 |
| (1,4336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 16 | 3.36 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 13 | 3.36 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 13 | 3.36 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 13 | 3.36 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 13 | 3.36 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 13 | 3.36 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 13 | 3.36 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 19 | 3.36 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 12 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 12 | 3.36 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 12 | 3.36 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 9 | 3.36 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 9 | 3.36 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 9 | 3.36 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 13 | 3.36 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 14 | 3.36 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 1 | 3.36 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 1 | 3.36 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 1 | 3.36 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 2 | 3.36 |
| (1,4040) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 2 | 3.36 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 2 | 3.36 |
| (1,4040) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 2 | 3.36 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 10 | 3.36 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 10 | 3.36 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 12 | 3.36 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 12 | 3.36 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 3.36 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 20 | 3.36 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 9 | 3.36 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 9 | 3.36 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 9 | 3.36 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 13 | 3.36 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 13 | 3.36 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 13 | 3.36 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 13 | 3.36 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 13 | 3.36 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 13 | 3.36 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 3 | 3.36 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 5 | 3.36 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 5 | 3.36 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 9 | 3.36 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 9 | 3.36 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 9 | 3.36 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 9 | 3.36 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 9 | 3.36 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 9 | 3.36 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 8 | 3.36 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 8 | 3.36 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 5 | 3.36 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 5 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 5 | 3.36 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 12 | 3.36 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 8 | 3.36 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 8 | 3.36 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 8 | 3.36 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 8 | 3.36 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 7 | 3.36 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 7 | 3.36 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 7 | 3.36 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 7 | 3.36 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 8 | 3.36 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 6 | 3.36 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 12 | 3.36 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 17 | 3.36 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 1 | 3.36 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 1 | 3.36 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 20 | 3.36 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 3.36 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 20 | 3.36 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 20 | 3.36 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 3.36 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 20 | 3.36 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 7 | 3.36 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 18 | 3.36 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 8 | 3.36 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 8 | 3.36 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 10 | 3.36 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 10 | 3.36 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 2 | 3.36 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 2 | 3.36 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 6 | 3.36 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 6 | 3.36 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 7 | 3.36 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 7 | 3.36 |
| (1,3449) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 5 | 3.36 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 8 | 3.36 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 8 | 3.36 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 8 | 3.36 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 10 | 3.36 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 11 | 3.36 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 6 | 3.36 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 6 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 6 | 3.36 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 3 | 3.36 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 3 | 3.36 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 7 | 3.36 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 7 | 3.36 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 10 | 3.36 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 10 | 3.36 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 10 | 3.36 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 10 | 3.36 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 1 | 3.36 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 1 | 3.36 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 1 | 3.36 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 15 | 3.36 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 15 | 3.36 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 15 | 3.36 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 3 | 3.36 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 2 | 3.36 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 2 | 3.36 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 15 | 3.36 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 6 | 3.36 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 13 | 3.36 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 13 | 3.36 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 13 | 3.36 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 13 | 3.36 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 13 | 3.36 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 13 | 3.36 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 1 | 3.36 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 12 | 3.36 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 12 | 3.36 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 3 | 3.36 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 15 | 3.36 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 12 | 3.36 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 8 | 3.36 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 5 | 3.36 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 5 | 3.36 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 16 | 3.36 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 13 | 3.36 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 13 | 3.36 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 13 | 3.36 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 2 | 3.36 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 2 | 3.36 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 3 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 15 | 3.36 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 4 | 3.36 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 4 | 3.36 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 4 | 3.36 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 8 | 3.36 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 8 | 3.36 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 8 | 3.36 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 12 | 3.36 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 12 | 3.36 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 12 | 3.36 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 3.36 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 5 | 3.36 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 18 | 3.36 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 18 | 3.36 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 18 | 3.36 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 18 | 3.36 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 18 | 3.36 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 15 | 3.36 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 6 | 3.36 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 6 | 3.36 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 6 | 3.36 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 16 | 3.36 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 18 | 3.36 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 1 | 3.36 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 7 | 3.36 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 7 | 3.36 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 7 | 3.36 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 15 | 3.36 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 20 | 3.36 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 20 | 3.36 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 2 | 3.36 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 2 | 3.36 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 2 | 3.36 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 13 | 3.36 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 13 | 3.36 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 13 | 3.36 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 13 | 3.36 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 13 | 3.36 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 13 | 3.36 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 13 | 3.36 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 13 | 3.36 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 13 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 19 | 3.36 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 6 | 3.36 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 6 | 3.36 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 6 | 3.36 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 5 | 3.36 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 5 | 3.36 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 5 | 3.36 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 6 | 3.36 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 6 | 3.36 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 6 | 3.36 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 10 | 3.36 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 10 | 3.36 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 10 | 3.36 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 1 | 3.36 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 1 | 3.36 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 19 | 3.36 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 7 | 3.36 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 7 | 3.36 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 7 | 3.36 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 7 | 3.36 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 7 | 3.36 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 7 | 3.36 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 7 | 3.36 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 7 | 3.36 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 7 | 3.36 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 19 | 3.36 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 19 | 3.36 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 2 | 3.36 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 10 | 3.36 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 1 | 3.36 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 14 | 3.36 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 14 | 3.36 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 14 | 3.36 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 3 | 3.36 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 3 | 3.36 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 10 | 3.36 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 6 | 3.36 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 13 | 3.36 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 1 | 3.36 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 2 | 3.36 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 9 | 3.36 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 15 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 19 | 3.36 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 4 | 3.36 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 2 | 3.36 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 19 | 3.36 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 16 | 3.36 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 16 | 3.36 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 16 | 3.36 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 20 | 3.36 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 1 | 3.36 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 9 | 3.36 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 5 | 3.36 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 5 | 3.36 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 5 | 3.36 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 20 | 3.36 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 20 | 3.36 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 20 | 3.36 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 20 | 3.36 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 20 | 3.36 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 20 | 3.36 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 19 | 3.36 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 13 | 3.36 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 16 | 3.36 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 16 | 3.36 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 16 | 3.36 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 16 | 3.36 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 16 | 3.36 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 16 | 3.36 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 5 | 3.36 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 1 | 3.36 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 6 | 3.36 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 6 | 3.36 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 6 | 3.36 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 5 | 3.36 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 5 | 3.36 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 7 | 3.36 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 18 | 3.36 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 14 | 3.36 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 14 | 3.36 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 14 | 3.36 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 4 | 3.36 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 8 | 3.36 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 8 | 3.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 8 | 3.36 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 3 | 3.36 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 3 | 3.36 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 3 | 3.36 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 1 | 3.35 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 12 | 3.35 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 16 | 3.35 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 16 | 3.35 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 2 | 3.35 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 2 | 3.35 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 2 | 3.35 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 2 | 3.35 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 2 | 3.35 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 2 | 3.35 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 18 | 3.35 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 18 | 3.35 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 18 | 3.35 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 18 | 3.35 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 18 | 3.35 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 18 | 3.35 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 10 | 3.35 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 10 | 3.35 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB1 | 5 | 3.35 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB2 | 5 | 3.35 |
| (1,9379) | 1:117:A:LYS:HG2 | 1:118:A:ALA:HB3 | 5 | 3.35 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB1 | 5 | 3.35 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB2 | 5 | 3.35 |
| (1,9379) | 1:117:A:LYS:HG3 | 1:118:A:ALA:HB3 | 5 | 3.35 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 4 | 3.35 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 4 | 3.35 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 4 | 3.35 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 4 | 3.35 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 17 | 3.35 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 17 | 3.35 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 19 | 3.35 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 19 | 3.35 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 14 | 3.35 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 14 | 3.35 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 14 | 3.35 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 14 | 3.35 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 14 | 3.35 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 14 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 16 | 3.35 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 16 | 3.35 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 13 | 3.35 |
| (1,9148) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 13 | 3.35 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 13 | 3.35 |
| (1,9148) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 13 | 3.35 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 5 | 3.35 |
| (1,9055) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 5 | 3.35 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 17 | 3.35 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 17 | 3.35 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 17 | 3.35 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 17 | 3.35 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 17 | 3.35 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 17 | 3.35 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 16 | 3.35 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 16 | 3.35 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 17 | 3.35 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 17 | 3.35 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 7 | 3.35 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 7 | 3.35 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 17 | 3.35 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 17 | 3.35 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 17 | 3.35 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 17 | 3.35 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 17 | 3.35 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 17 | 3.35 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 3 | 3.35 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 3 | 3.35 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 3 | 3.35 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 3 | 3.35 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 3 | 3.35 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 3 | 3.35 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 16 | 3.35 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 16 | 3.35 |
| (1,8742) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HA | 2 | 3.35 |
| (1,8742) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HA | 2 | 3.35 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 13 | 3.35 |
| (1,8739) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 13 | 3.35 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 13 | 3.35 |
| (1,8739) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 13 | 3.35 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 14 | 3.35 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 14 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 15 | 3.35 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 15 | 3.35 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 17 | 3.35 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 19 | 3.35 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 6 | 3.35 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 6 | 3.35 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 6 | 3.35 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 6 | 3.35 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 6 | 3.35 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 6 | 3.35 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 6 | 3.35 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 6 | 3.35 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 6 | 3.35 |
| (1,8346) | 1:133:A:PRO:HA | 1:136:A:ASP:H | 20 | 3.35 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 10 | 3.35 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 10 | 3.35 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 18 | 3.35 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 18 | 3.35 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 18 | 3.35 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 12 | 3.35 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 16 | 3.35 |
| (1,8030) | 1:86:A:LEU:HD11 | 1:90:A:ASN:H | 16 | 3.35 |
| (1,8030) | 1:86:A:LEU:HD12 | 1:90:A:ASN:H | 16 | 3.35 |
| (1,8030) | 1:86:A:LEU:HD13 | 1:90:A:ASN:H | 16 | 3.35 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 8 | 3.35 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 8 | 3.35 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 8 | 3.35 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 8 | 3.35 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 8 | 3.35 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 8 | 3.35 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 17 | 3.35 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 18 | 3.35 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 18 | 3.35 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 18 | 3.35 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 18 | 3.35 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 3 | 3.35 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 12 | 3.35 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 12 | 3.35 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 12 | 3.35 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 12 | 3.35 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 12 | 3.35 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 12 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 12 | 3.35 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 12 | 3.35 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 12 | 3.35 |
| (1,7810) | 1:60:A:LEU:HD11 | 1:158:A:ILE:H | 15 | 3.35 |
| (1,7810) | 1:60:A:LEU:HD12 | 1:158:A:ILE:H | 15 | 3.35 |
| (1,7810) | 1:60:A:LEU:HD13 | 1:158:A:ILE:H | 15 | 3.35 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 9 | 3.35 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 9 | 3.35 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 9 | 3.35 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 3 | 3.35 |
| (1,7550) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 2 | 3.35 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 6 | 3.35 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 15 | 3.35 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 15 | 3.35 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 19 | 3.35 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 6 | 3.35 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 6 | 3.35 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 6 | 3.35 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 6 | 3.35 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 6 | 3.35 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 6 | 3.35 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 5 | 3.35 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 5 | 3.35 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 5 | 3.35 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 5 | 3.35 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 5 | 3.35 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 5 | 3.35 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 1 | 3.35 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 1 | 3.35 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 1 | 3.35 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 19 | 3.35 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 19 | 3.35 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 3 | 3.35 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 11 | 3.35 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 6 | 3.35 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 6 | 3.35 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 18 | 3.35 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 8 | 3.35 |
| (1,6974) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 17 | 3.35 |
| (1,6906) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 11 | 3.35 |
| (1,6906) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 11 | 3.35 |
| (1,6906) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 11 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 17 | 3.35 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 17 | 3.35 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 17 | 3.35 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 9 | 3.35 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 19 | 3.35 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 20 | 3.35 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 8 | 3.35 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 8 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 15 | 3.35 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 15 | 3.35 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 2 | 3.35 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 2 | 3.35 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 14 | 3.35 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 20 | 3.35 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 20 | 3.35 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 20 | 3.35 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 20 | 3.35 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 20 | 3.35 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 20 | 3.35 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 20 | 3.35 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 20 | 3.35 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 20 | 3.35 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 7 | 3.35 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 7 | 3.35 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 7 | 3.35 |
| (1,6691) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 7 | 3.35 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 11 | 3.35 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 19 | 3.35 |
| (1,6645) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 19 | 3.35 |
| (1,6641) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 20 | 3.35 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 13 | 3.35 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 13 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 8 | 3.35 |
| (1,6582) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 14 | 3.35 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 15 | 3.35 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 10 | 3.35 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 10 | 3.35 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 10 | 3.35 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 4 | 3.35 |
| (1,6382) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 9 | 3.35 |
| (1,6382) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 9 | 3.35 |
| (1,6382) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 9 | 3.35 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 8 | 3.35 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 8 | 3.35 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 8 | 3.35 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 8 | 3.35 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 20 | 3.35 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 20 | 3.35 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 20 | 3.35 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 8 | 3.35 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 7 | 3.35 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 3 | 3.35 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 3 | 3.35 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 3 | 3.35 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 3 | 3.35 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 3 | 3.35 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 3 | 3.35 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 15 | 3.35 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 17 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 18 | 3.35 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 18 | 3.35 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 10 | 3.35 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 10 | 3.35 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 10 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 10 | 3.35 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 10 | 3.35 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 10 | 3.35 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 10 | 3.35 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 10 | 3.35 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 10 | 3.35 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 9 | 3.35 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 4 | 3.35 |
| (1,5839) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 4 | 3.35 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 19 | 3.35 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 13 | 3.35 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 17 | 3.35 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 17 | 3.35 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 17 | 3.35 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 10 | 3.35 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 10 | 3.35 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 14 | 3.35 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 14 | 3.35 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 14 | 3.35 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 20 | 3.35 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 20 | 3.35 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 20 | 3.35 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 7 | 3.35 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 7 | 3.35 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 7 | 3.35 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 7 | 3.35 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 7 | 3.35 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 7 | 3.35 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 7 | 3.35 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 7 | 3.35 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 7 | 3.35 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 4 | 3.35 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 1 | 3.35 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 1 | 3.35 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 1 | 3.35 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 1 | 3.35 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 1 | 3.35 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 1 | 3.35 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 20 | 3.35 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 20 | 3.35 |
| (1,5429) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 20 | 3.35 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 20 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 14 | 3.35 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 14 | 3.35 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 6 | 3.35 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 7 | 3.35 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 7 | 3.35 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 7 | 3.35 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 5 | 3.35 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 5 | 3.35 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 5 | 3.35 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 16 | 3.35 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 8 | 3.35 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 8 | 3.35 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 8 | 3.35 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 16 | 3.35 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 14 | 3.35 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 17 | 3.35 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 19 | 3.35 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 10 | 3.35 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 10 | 3.35 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 10 | 3.35 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 10 | 3.35 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 10 | 3.35 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 10 | 3.35 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 10 | 3.35 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 10 | 3.35 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 10 | 3.35 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 6 | 3.35 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 6 | 3.35 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 6 | 3.35 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 3 | 3.35 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 17 | 3.35 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 5 | 3.35 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 5 | 3.35 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 5 | 3.35 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 16 | 3.35 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 10 | 3.35 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 10 | 3.35 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 10 | 3.35 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 10 | 3.35 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 10 | 3.35 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 10 | 3.35 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 11 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 11 | 3.35 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 11 | 3.35 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 11 | 3.35 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 11 | 3.35 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 11 | 3.35 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 4 | 3.35 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 4 | 3.35 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 4 | 3.35 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 5 | 3.35 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 5 | 3.35 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 10 | 3.35 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 10 | 3.35 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 10 | 3.35 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 10 | 3.35 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 10 | 3.35 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 10 | 3.35 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 4 | 3.35 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 4 | 3.35 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 8 | 3.35 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 8 | 3.35 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 11 | 3.35 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 11 | 3.35 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 5 | 3.35 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 5 | 3.35 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 17 | 3.35 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 17 | 3.35 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 19 | 3.35 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 19 | 3.35 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 19 | 3.35 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 16 | 3.35 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 16 | 3.35 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 16 | 3.35 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 16 | 3.35 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 16 | 3.35 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 16 | 3.35 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 16 | 3.35 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 16 | 3.35 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 15 | 3.35 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 1 | 3.35 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 1 | 3.35 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 1 | 3.35 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 1 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 1 | 3.35 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 1 | 3.35 |
| (1,4051) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 18 | 3.35 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 10 | 3.35 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 10 | 3.35 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 5 | 3.35 |
| (1,4032) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 5 | 3.35 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 20 | 3.35 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 5 | 3.35 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 5 | 3.35 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 16 | 3.35 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 16 | 3.35 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 17 | 3.35 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 17 | 3.35 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 7 | 3.35 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 11 | 3.35 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 18 | 3.35 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 18 | 3.35 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 18 | 3.35 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 17 | 3.35 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 17 | 3.35 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 17 | 3.35 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 17 | 3.35 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 17 | 3.35 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 17 | 3.35 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 11 | 3.35 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 14 | 3.35 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 13 | 3.35 |
| (1,3702) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 13 | 3.35 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 13 | 3.35 |
| (1,3702) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 13 | 3.35 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 6 | 3.35 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 6 | 3.35 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 18 | 3.35 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 18 | 3.35 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 6 | 3.35 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 6 | 3.35 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 13 | 3.35 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 13 | 3.35 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 13 | 3.35 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 13 | 3.35 |
| (1,3603) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 1 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3603) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 1 | 3.35 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 15 | 3.35 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 15 | 3.35 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 14 | 3.35 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 14 | 3.35 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 5 | 3.35 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 15 | 3.35 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 15 | 3.35 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 5 | 3.35 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 7 | 3.35 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 2 | 3.35 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 2 | 3.35 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 3 | 3.35 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 4 | 3.35 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 11 | 3.35 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 20 | 3.35 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 6 | 3.35 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 6 | 3.35 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 13 | 3.35 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 13 | 3.35 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 13 | 3.35 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 18 | 3.35 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 8 | 3.35 |
| (1,3006) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 17 | 3.35 |
| (1,2908) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 11 | 3.35 |
| (1,2908) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 11 | 3.35 |
| (1,2908) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 11 | 3.35 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 17 | 3.35 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 17 | 3.35 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 17 | 3.35 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 19 | 3.35 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 20 | 3.35 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 9 | 3.35 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 8 | 3.35 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 8 | 3.35 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 19 | 3.35 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 19 | 3.35 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 19 | 3.35 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 19 | 3.35 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 19 | 3.35 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 19 | 3.35 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 11 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 11 | 3.35 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 11 | 3.35 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 11 | 3.35 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 11 | 3.35 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 11 | 3.35 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 2 | 3.35 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 2 | 3.35 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 14 | 3.35 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 3 | 3.35 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 3 | 3.35 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 20 | 3.35 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 20 | 3.35 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 20 | 3.35 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 20 | 3.35 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 20 | 3.35 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 20 | 3.35 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 20 | 3.35 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 20 | 3.35 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 20 | 3.35 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 7 | 3.35 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 7 | 3.35 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 7 | 3.35 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 10 | 3.35 |
| (1,2592) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 7 | 3.35 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 11 | 3.35 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 19 | 3.35 |
| (1,2512) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 19 | 3.35 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 7 | 3.35 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 7 | 3.35 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 7 | 3.35 |
| (1,2506) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 20 | 3.35 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 13 | 3.35 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 13 | 3.35 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 8 | 3.35 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 6 | 3.35 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 15 | 3.35 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 7 | 3.35 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 7 | 3.35 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 7 | 3.35 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 3 | 3.35 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 10 | 3.35 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 10 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 10 | 3.35 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 20 | 3.35 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 2 | 3.35 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 2 | 3.35 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 2 | 3.35 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 4 | 3.35 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 4 | 3.35 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 4 | 3.35 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 10 | 3.35 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 10 | 3.35 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 10 | 3.35 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 4 | 3.35 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 8 | 3.35 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 8 | 3.35 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 8 | 3.35 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 8 | 3.35 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 20 | 3.35 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 20 | 3.35 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 20 | 3.35 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 8 | 3.35 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 7 | 3.35 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 15 | 3.35 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 3 | 3.35 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 3 | 3.35 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 3 | 3.35 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 3 | 3.35 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 3 | 3.35 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 3 | 3.35 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 10 | 3.35 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 19 | 3.35 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 4 | 3.35 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 4 | 3.35 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 18 | 3.35 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 18 | 3.35 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 18 | 3.35 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 16 | 3.35 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 16 | 3.35 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 15 | 3.35 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 17 | 3.35 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 9 | 3.35 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 9 | 3.35 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 9 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 9 | 3.35 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 9 | 3.35 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 9 | 3.35 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 10 | 3.35 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 10 | 3.35 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 10 | 3.35 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 10 | 3.35 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 10 | 3.35 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 10 | 3.35 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 10 | 3.35 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 10 | 3.35 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 10 | 3.35 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 9 | 3.35 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 4 | 3.35 |
| (1,1214) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 4 | 3.35 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 19 | 3.35 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 13 | 3.35 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 14 | 3.35 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 12 | 3.35 |
| (1,1060) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 18 | 3.35 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 6 | 3.35 |
| (1,1027) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 16 | 3.35 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 17 | 3.35 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 17 | 3.35 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 17 | 3.35 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 10 | 3.35 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 11 | 3.35 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 11 | 3.35 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 11 | 3.35 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 11 | 3.35 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 11 | 3.35 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 11 | 3.35 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 10 | 3.35 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 14 | 3.35 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 14 | 3.35 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 14 | 3.35 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 20 | 3.35 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 20 | 3.35 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 20 | 3.35 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 13 | 3.35 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 13 | 3.35 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 13 | 3.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 7 | 3.35 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 7 | 3.35 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 7 | 3.35 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 7 | 3.35 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 7 | 3.35 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 7 | 3.35 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 7 | 3.35 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 7 | 3.35 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 7 | 3.35 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 4 | 3.35 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 2 | 3.35 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 2 | 3.35 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 11 | 3.35 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 1 | 3.35 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 1 | 3.35 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 1 | 3.35 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 1 | 3.35 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 1 | 3.35 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 1 | 3.35 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 8 | 3.35 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 18 | 3.35 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 18 | 3.35 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 18 | 3.35 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 3.35 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 12 | 3.34 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 3 | 3.34 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 3 | 3.34 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 14 | 3.34 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 14 | 3.34 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 14 | 3.34 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 14 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 3 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 3 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 3 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 3 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 3 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 3 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 13 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 13 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 13 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 13 | 3.34 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 13 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 13 | 3.34 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 6 | 3.34 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 6 | 3.34 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 3 | 3.34 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 3 | 3.34 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 3 | 3.34 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 3 | 3.34 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 3 | 3.34 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 3 | 3.34 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 10 | 3.34 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 10 | 3.34 |
| (1,9087) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 12 | 3.34 |
| (1,9087) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 12 | 3.34 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 4 | 3.34 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 4 | 3.34 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 4 | 3.34 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 4 | 3.34 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 4 | 3.34 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 4 | 3.34 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 10 | 3.34 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 10 | 3.34 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 17 | 3.34 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 17 | 3.34 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 2 | 3.34 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 2 | 3.34 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 9 | 3.34 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 9 | 3.34 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 9 | 3.34 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 9 | 3.34 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 4 | 3.34 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 4 | 3.34 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 17 | 3.34 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 17 | 3.34 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 19 | 3.34 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 19 | 3.34 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 4 | 3.34 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 4 | 3.34 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 6 | 3.34 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 6 | 3.34 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 6 | 3.34 |
| (1,8652) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 6 | 3.34 |
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 6 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8652) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 6 | 3.34 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 15 | 3.34 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 15 | 3.34 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB2 | 18 | 3.34 |
| (1,8581) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HB3 | 18 | 3.34 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB2 | 18 | 3.34 |
| (1,8581) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HB3 | 18 | 3.34 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB2 | 18 | 3.34 |
| (1,8581) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HB3 | 18 | 3.34 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 8 | 3.34 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 13 | 3.34 |
| (1,8388) | 1:139:A:PHE:HB2 | 1:140:A:ALA:H | 8 | 3.34 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 19 | 3.34 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 19 | 3.34 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 19 | 3.34 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 19 | 3.34 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 19 | 3.34 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 19 | 3.34 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 4 | 3.34 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 2 | 3.34 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 2 | 3.34 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 2 | 3.34 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 10 | 3.34 |
| (1,7980) | 1:78:A:ILE:HG21 | 1:81:A:THR:H | 1 | 3.34 |
| (1,7980) | 1:78:A:ILE:HG22 | 1:81:A:THR:H | 1 | 3.34 |
| (1,7980) | 1:78:A:ILE:HG23 | 1:81:A:THR:H | 1 | 3.34 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 2 | 3.34 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 2 | 3.34 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 2 | 3.34 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 2 | 3.34 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 2 | 3.34 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 2 | 3.34 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 6 | 3.34 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 6 | 3.34 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 6 | 3.34 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 14 | 3.34 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 20 | 3.34 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 20 | 3.34 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 20 | 3.34 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 20 | 3.34 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 20 | 3.34 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 20 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 20 | 3.34 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 20 | 3.34 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 20 | 3.34 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 10 | 3.34 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 10 | 3.34 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 10 | 3.34 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 10 | 3.34 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 5 | 3.34 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 4 | 3.34 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 4 | 3.34 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 8 | 3.34 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 8 | 3.34 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 8 | 3.34 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 10 | 3.34 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 10 | 3.34 |
| (1,7663) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 9 | 3.34 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 19 | 3.34 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 19 | 3.34 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 19 | 3.34 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 17 | 3.34 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 14 | 3.34 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 14 | 3.34 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 14 | 3.34 |
| (1,7439) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 8 | 3.34 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 14 | 3.34 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 14 | 3.34 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 14 | 3.34 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD21 | 17 | 3.34 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD22 | 17 | 3.34 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD23 | 17 | 3.34 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD11 | 17 | 3.34 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD12 | 17 | 3.34 |
| (1,7408) | 1:6:A:LYS:HA | 1:7:A:LEU:HD13 | 17 | 3.34 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 6 | 3.34 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 12 | 3.34 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 12 | 3.34 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 12 | 3.34 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 12 | 3.34 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 12 | 3.34 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 12 | 3.34 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 1 | 3.34 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 3 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 2 | 3.34 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 2 | 3.34 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 2 | 3.34 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 7 | 3.34 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 16 | 3.34 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 4 | 3.34 |
| (1,7028) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 19 | 3.34 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 17 | 3.34 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 17 | 3.34 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 17 | 3.34 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 3 | 3.34 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 3 | 3.34 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 3 | 3.34 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 3 | 3.34 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 2 | 3.34 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 4 | 3.34 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 4 | 3.34 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 4 | 3.34 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 4 | 3.34 |
| (1,6761) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 12 | 3.34 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 3 | 3.34 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 5 | 3.34 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 15 | 3.34 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 9 | 3.34 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 18 | 3.34 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 20 | 3.34 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 6 | 3.34 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 15 | 3.34 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 15 | 3.34 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 19 | 3.34 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 19 | 3.34 |
| (1,6365) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 19 | 3.34 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 4 | 3.34 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 4 | 3.34 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 4 | 3.34 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 17 | 3.34 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 20 | 3.34 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 8 | 3.34 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 8 | 3.34 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 9 | 3.34 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 9 | 3.34 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 20 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 2 | 3.34 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 2 | 3.34 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 17 | 3.34 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 17 | 3.34 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 14 | 3.34 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 14 | 3.34 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 14 | 3.34 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 11 | 3.34 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 11 | 3.34 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 11 | 3.34 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 11 | 3.34 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 13 | 3.34 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 16 | 3.34 |
| (1,5858) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 16 | 3.34 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 14 | 3.34 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 18 | 3.34 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 10 | 3.34 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 10 | 3.34 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 10 | 3.34 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 5 | 3.34 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 3 | 3.34 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 3 | 3.34 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 10 | 3.34 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 10 | 3.34 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 19 | 3.34 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 19 | 3.34 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 13 | 3.34 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 15 | 3.34 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 15 | 3.34 |
| (1,5433) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 15 | 3.34 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 15 | 3.34 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 15 | 3.34 |
| (1,5433) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 15 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 5 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 5 | 3.34 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 5 | 3.34 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 4 | 3.34 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 9 | 3.34 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 17 | 3.34 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 17 | 3.34 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 17 | 3.34 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 10 | 3.34 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 18 | 3.34 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 19 | 3.34 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 19 | 3.34 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 19 | 3.34 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 7 | 3.34 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 1 | 3.34 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 1 | 3.34 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 1 | 3.34 |
| (1,4958) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 9 | 3.34 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 19 | 3.34 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 12 | 3.34 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 9 | 3.34 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 9 | 3.34 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 20 | 3.34 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 20 | 3.34 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 20 | 3.34 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 3 | 3.34 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 11 | 3.34 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 11 | 3.34 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 11 | 3.34 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 4 | 3.34 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 18 | 3.34 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 13 | 3.34 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 13 | 3.34 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 5 | 3.34 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 5 | 3.34 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 5 | 3.34 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 5 | 3.34 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 5 | 3.34 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 5 | 3.34 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 16 | 3.34 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 16 | 3.34 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 16 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 16 | 3.34 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 10 | 3.34 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 10 | 3.34 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 16 | 3.34 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 16 | 3.34 |
| (1,4474) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 16 | 3.34 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 16 | 3.34 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 16 | 3.34 |
| (1,4474) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 16 | 3.34 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 6 | 3.34 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 6 | 3.34 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 6 | 3.34 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 6 | 3.34 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 3.34 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 3.34 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 6 | 3.34 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 6 | 3.34 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 1 | 3.34 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 4 | 3.34 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 15 | 3.34 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 15 | 3.34 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 15 | 3.34 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 15 | 3.34 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 15 | 3.34 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 15 | 3.34 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 4 | 3.34 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 5 | 3.34 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 5 | 3.34 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 5 | 3.34 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 1 | 3.34 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 1 | 3.34 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 1 | 3.34 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 10 | 3.34 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 17 | 3.34 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 17 | 3.34 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 17 | 3.34 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 18 | 3.34 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 18 | 3.34 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 18 | 3.34 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 10 | 3.34 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 10 | 3.34 |
| (1,4058) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 12 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4058) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 12 | 3.34 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 12 | 3.34 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 12 | 3.34 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 4 | 3.34 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 4 | 3.34 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 4 | 3.34 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 4 | 3.34 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 4 | 3.34 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 4 | 3.34 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 10 | 3.34 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 10 | 3.34 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 17 | 3.34 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 17 | 3.34 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 2 | 3.34 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 2 | 3.34 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 14 | 3.34 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 14 | 3.34 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 14 | 3.34 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 17 | 3.34 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 6 | 3.34 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 6 | 3.34 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 12 | 3.34 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 12 | 3.34 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 12 | 3.34 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 12 | 3.34 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 12 | 3.34 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 12 | 3.34 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 18 | 3.34 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 18 | 3.34 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 9 | 3.34 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 9 | 3.34 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 9 | 3.34 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 9 | 3.34 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 13 | 3.34 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 19 | 3.34 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 19 | 3.34 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 4 | 3.34 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 4 | 3.34 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 6 | 3.34 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 6 | 3.34 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 6 | 3.34 |
| (1,3622) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 6 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 6 | 3.34 |
| (1,3622) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 6 | 3.34 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 14 | 3.34 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 14 | 3.34 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 14 | 3.34 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 3.34 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 14 | 3.34 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 1 | 3.34 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 1 | 3.34 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 1 | 3.34 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 10 | 3.34 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 3.34 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 19 | 3.34 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 10 | 3.34 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 10 | 3.34 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 13 | 3.34 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 13 | 3.34 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 18 | 3.34 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 18 | 3.34 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 19 | 3.34 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 19 | 3.34 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 3 | 3.34 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 11 | 3.34 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 10 | 3.34 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 5 | 3.34 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 2 | 3.34 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 2 | 3.34 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 2 | 3.34 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 16 | 3.34 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 16 | 3.34 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 16 | 3.34 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 16 | 3.34 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 16 | 3.34 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 16 | 3.34 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 11 | 3.34 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 7 | 3.34 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 16 | 3.34 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 18 | 3.34 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 18 | 3.34 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 18 | 3.34 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 6 | 3.34 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 6 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 14 | 3.34 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 14 | 3.34 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 8 | 3.34 |
| (1,3078) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 19 | 3.34 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 17 | 3.34 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 17 | 3.34 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 17 | 3.34 |
| (1,3012) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 17 | 3.34 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 11 | 3.34 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 17 | 3.34 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 3 | 3.34 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 3 | 3.34 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 3 | 3.34 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 3 | 3.34 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 2 | 3.34 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 4 | 3.34 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 4 | 3.34 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 4 | 3.34 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 4 | 3.34 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 12 | 3.34 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 12 | 3.34 |
| (1,2704) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 12 | 3.34 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 18 | 3.34 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 3 | 3.34 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 15 | 3.34 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 10 | 3.34 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 10 | 3.34 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 10 | 3.34 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 9 | 3.34 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 18 | 3.34 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 20 | 3.34 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 6 | 3.34 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 5 | 3.34 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 19 | 3.34 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 15 | 3.34 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 4 | 3.34 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 15 | 3.34 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 6 | 3.34 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 6 | 3.34 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 6 | 3.34 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 3.34 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 3.34 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 19 | 3.34 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 19 | 3.34 |
| (1,2048) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 19 | 3.34 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 15 | 3.34 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 4 | 3.34 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 4 | 3.34 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 4 | 3.34 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 17 | 3.34 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 10 | 3.34 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 20 | 3.34 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 8 | 3.34 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 8 | 3.34 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 9 | 3.34 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 9 | 3.34 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 20 | 3.34 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 2 | 3.34 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 2 | 3.34 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 2 | 3.34 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 19 | 3.34 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 19 | 3.34 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 19 | 3.34 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 17 | 3.34 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 17 | 3.34 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 14 | 3.34 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 14 | 3.34 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 14 | 3.34 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 11 | 3.34 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 11 | 3.34 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 11 | 3.34 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 11 | 3.34 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 13 | 3.34 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 8 | 3.34 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 8 | 3.34 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 8 | 3.34 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 15 | 3.34 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 16 | 3.34 |
| (1,1262) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 16 | 3.34 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 12 | 3.34 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 13 | 3.34 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 14 | 3.34 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 14 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 18 | 3.34 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 9 | 3.34 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 9 | 3.34 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 9 | 3.34 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 10 | 3.34 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 10 | 3.34 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 10 | 3.34 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 18 | 3.34 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 18 | 3.34 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 18 | 3.34 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 18 | 3.34 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 18 | 3.34 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 18 | 3.34 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 5 | 3.34 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 6 | 3.34 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 4 | 3.34 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 3 | 3.34 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 3 | 3.34 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 10 | 3.34 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 10 | 3.34 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 19 | 3.34 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 19 | 3.34 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 13 | 3.34 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 9 | 3.34 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 7 | 3.34 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 7 | 3.34 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 19 | 3.34 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 14 | 3.34 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 15 | 3.34 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 15 | 3.34 |
| (1,518) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 15 | 3.34 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 15 | 3.34 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 15 | 3.34 |
| (1,518) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 15 | 3.34 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 4 | 3.34 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 4 | 3.34 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 4 | 3.34 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 13 | 3.34 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 13 | 3.34 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 13 | 3.34 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 13 | 3.34 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 13 | 3.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 13 | 3.34 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 13 | 3.34 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 13 | 3.34 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 13 | 3.34 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 20 | 3.34 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 5 | 3.33 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 12 | 3.33 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 12 | 3.33 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 8 | 3.33 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 8 | 3.33 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 8 | 3.33 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 8 | 3.33 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 8 | 3.33 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 8 | 3.33 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 3 | 3.33 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 3 | 3.33 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 3 | 3.33 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 3 | 3.33 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 3 | 3.33 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 3 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 12 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 12 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 12 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 12 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 12 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 12 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 13 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 13 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 13 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 13 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 13 | 3.33 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 13 | 3.33 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 10 | 3.33 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 10 | 3.33 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 3 | 3.33 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 3 | 3.33 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 16 | 3.33 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 16 | 3.33 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 16 | 3.33 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 16 | 3.33 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 16 | 3.33 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 16 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 2 | 3.33 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 2 | 3.33 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 7 | 3.33 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 7 | 3.33 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 15 | 3.33 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 15 | 3.33 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 3 | 3.33 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 3 | 3.33 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 3 | 3.33 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 3 | 3.33 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 1 | 3.33 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 1 | 3.33 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 1 | 3.33 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 1 | 3.33 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 1 | 3.33 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 1 | 3.33 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 1 | 3.33 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 1 | 3.33 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 20 | 3.33 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 20 | 3.33 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 20 | 3.33 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 20 | 3.33 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 20 | 3.33 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 20 | 3.33 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 6 | 3.33 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 6 | 3.33 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 6 | 3.33 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 6 | 3.33 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 1 | 3.33 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 1 | 3.33 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 1 | 3.33 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 1 | 3.33 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 1 | 3.33 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 1 | 3.33 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 19 | 3.33 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 19 | 3.33 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 3 | 3.33 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 3 | 3.33 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 3 | 3.33 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 3 | 3.33 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 10 | 3.33 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 10 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 12 | 3.33 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 12 | 3.33 |
| (1,8626) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 12 | 3.33 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 12 | 3.33 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 12 | 3.33 |
| (1,8626) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 12 | 3.33 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 3.33 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 3.33 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 17 | 3.33 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 17 | 3.33 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 17 | 3.33 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 17 | 3.33 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 17 | 3.33 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 17 | 3.33 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 2 | 3.33 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 2 | 3.33 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 2 | 3.33 |
| (1,8428) | 1:143:A:THR:HG21 | 1:162:A:THR:H | 16 | 3.33 |
| (1,8428) | 1:143:A:THR:HG22 | 1:162:A:THR:H | 16 | 3.33 |
| (1,8428) | 1:143:A:THR:HG23 | 1:162:A:THR:H | 16 | 3.33 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 9 | 3.33 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 13 | 3.33 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 13 | 3.33 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 13 | 3.33 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 13 | 3.33 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 13 | 3.33 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 13 | 3.33 |
| (1,8199) | 1:105:A:SER:H | 1:108:A:SER:H | 11 | 3.33 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 1 | 3.33 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 1 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 20 | 3.33 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 20 | 3.33 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 8 | 3.33 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 17 | 3.33 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 17 | 3.33 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB1 | 4 | 3.33 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB2 | 4 | 3.33 |
| (1,7766) | 1:56:A:ARG:HB2 | 1:124:A:ALA:HB3 | 4 | 3.33 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 11 | 3.33 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 11 | 3.33 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 11 | 3.33 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 9 | 3.33 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 15 | 3.33 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 15 | 3.33 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 15 | 3.33 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 5 | 3.33 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 3 | 3.33 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 1 | 3.33 |
| (1,7466) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 17 | 3.33 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 19 | 3.33 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 7 | 3.33 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 4 | 3.33 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 4 | 3.33 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 9 | 3.33 |
| (1,7146) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 9 | 3.33 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 9 | 3.33 |
| (1,7146) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 9 | 3.33 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 9 | 3.33 |
| (1,7146) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 9 | 3.33 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 3 | 3.33 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 3 | 3.33 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 15 | 3.33 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 15 | 3.33 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 1 | 3.33 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 7 | 3.33 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 18 | 3.33 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 8 | 3.33 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 18 | 3.33 |
| (1,6928) | 1:26:A:ASN:H | 1:32:A:SER:HA | 15 | 3.33 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 3 | 3.33 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 3 | 3.33 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 3 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 12 | 3.33 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 6 | 3.33 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 6 | 3.33 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 6 | 3.33 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 12 | 3.33 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 12 | 3.33 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 12 | 3.33 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 18 | 3.33 |
| (1,6800) | 1:25:A:PHE:H | 1:26:A:ASN:H | 7 | 3.33 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 20 | 3.33 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 20 | 3.33 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 17 | 3.33 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 17 | 3.33 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 10 | 3.33 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 10 | 3.33 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 10 | 3.33 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 8 | 3.33 |
| (1,6673) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 4 | 3.33 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 16 | 3.33 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 16 | 3.33 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 6 | 3.33 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 4 | 3.33 |
| (1,6584) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 1 | 3.33 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 5 | 3.33 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 5 | 3.33 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 5 | 3.33 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 2 | 3.33 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 10 | 3.33 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 10 | 3.33 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 10 | 3.33 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 10 | 3.33 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 5 | 3.33 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 5 | 3.33 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 9 | 3.33 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 9 | 3.33 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 6 | 3.33 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 6 | 3.33 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 6 | 3.33 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 10 | 3.33 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 4 | 3.33 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 6 | 3.33 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 6 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 6 | 3.33 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 20 | 3.33 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 20 | 3.33 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 14 | 3.33 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 4 | 3.33 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 4 | 3.33 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 4 | 3.33 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 8 | 3.33 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 8 | 3.33 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 8 | 3.33 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 9 | 3.33 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 9 | 3.33 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 9 | 3.33 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 5 | 3.33 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 5 | 3.33 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 5 | 3.33 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 17 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 9 | 3.33 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 9 | 3.33 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 18 | 3.33 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 12 | 3.33 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 5 | 3.33 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 5 | 3.33 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 15 | 3.33 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 15 | 3.33 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 15 | 3.33 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 20 | 3.33 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 20 | 3.33 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 20 | 3.33 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 3 | 3.33 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 4 | 3.33 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 11 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 11 | 3.33 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 14 | 3.33 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 14 | 3.33 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 14 | 3.33 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 15 | 3.33 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 15 | 3.33 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 15 | 3.33 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 14 | 3.33 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 17 | 3.33 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 17 | 3.33 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 17 | 3.33 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 14 | 3.33 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 14 | 3.33 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 14 | 3.33 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 4 | 3.33 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 5 | 3.33 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 7 | 3.33 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 7 | 3.33 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 7 | 3.33 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 7 | 3.33 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 14 | 3.33 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 14 | 3.33 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 14 | 3.33 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 9 | 3.33 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 9 | 3.33 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 9 | 3.33 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 19 | 3.33 |
| (1,5302) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 6 | 3.33 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 4 | 3.33 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 11 | 3.33 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 11 | 3.33 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 11 | 3.33 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 13 | 3.33 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 17 | 3.33 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 17 | 3.33 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 17 | 3.33 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 6 | 3.33 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 6 | 3.33 |
| (1,5065) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 6 | 3.33 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 4 | 3.33 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 4 | 3.33 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 4 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 7 | 3.33 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 3 | 3.33 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 10 | 3.33 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 10 | 3.33 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 10 | 3.33 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 14 | 3.33 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 14 | 3.33 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 14 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 10 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 10 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 10 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 10 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 10 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 10 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 10 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 10 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 10 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 20 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 20 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 20 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 20 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 20 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 20 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 20 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 20 | 3.33 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 20 | 3.33 |
| (1,4866) | 1:62:A:VAL:H | 1:156:A:ILE:H | 4 | 3.33 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 15 | 3.33 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 15 | 3.33 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 15 | 3.33 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 8 | 3.33 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 12 | 3.33 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 12 | 3.33 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 12 | 3.33 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 16 | 3.33 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 18 | 3.33 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 15 | 3.33 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 2 | 3.33 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 2 | 3.33 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 2 | 3.33 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 2 | 3.33 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 8 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 8 | 3.33 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 8 | 3.33 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 8 | 3.33 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 8 | 3.33 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 8 | 3.33 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 12 | 3.33 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 3 | 3.33 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 3 | 3.33 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 3 | 3.33 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 3 | 3.33 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 3 | 3.33 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 3 | 3.33 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 15 | 3.33 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 1 | 3.33 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 1 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 12 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 12 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 12 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 12 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 12 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 12 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 13 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 13 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 13 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 13 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 13 | 3.33 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 13 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 1 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 1 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 4 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 4 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 5 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 5 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 8 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 8 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 10 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 10 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 11 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 11 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 12 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 12 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 13 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 13 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 16 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 16 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 17 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 17 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 20 | 3.33 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 20 | 3.33 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 17 | 3.33 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 4 | 3.33 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 9 | 3.33 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 9 | 3.33 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 9 | 3.33 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 17 | 3.33 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 17 | 3.33 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 17 | 3.33 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 17 | 3.33 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 17 | 3.33 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 17 | 3.33 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 18 | 3.33 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 18 | 3.33 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 18 | 3.33 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 18 | 3.33 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 18 | 3.33 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 18 | 3.33 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 11 | 3.33 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 11 | 3.33 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 11 | 3.33 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 10 | 3.33 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 10 | 3.33 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 10 | 3.33 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 16 | 3.33 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 16 | 3.33 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 16 | 3.33 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 16 | 3.33 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 16 | 3.33 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 16 | 3.33 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 16 | 3.33 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 16 | 3.33 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 16 | 3.33 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 16 | 3.33 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 16 | 3.33 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 16 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 2 | 3.33 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 2 | 3.33 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 1 | 3.33 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 1 | 3.33 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 7 | 3.33 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 7 | 3.33 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 15 | 3.33 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 15 | 3.33 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 1 | 3.33 |
| (1,3927) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 1 | 3.33 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 13 | 3.33 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 2 | 3.33 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 2 | 3.33 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 12 | 3.33 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 12 | 3.33 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 12 | 3.33 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 1 | 3.33 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 1 | 3.33 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 1 | 3.33 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 1 | 3.33 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 1 | 3.33 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 1 | 3.33 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 4 | 3.33 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 4 | 3.33 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 4 | 3.33 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 4 | 3.33 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 4 | 3.33 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 4 | 3.33 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 17 | 3.33 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 17 | 3.33 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 17 | 3.33 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 1 | 3.33 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 1 | 3.33 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 1 | 3.33 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 1 | 3.33 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 1 | 3.33 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 1 | 3.33 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 1 | 3.33 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 13 | 3.33 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 13 | 3.33 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 13 | 3.33 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 13 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 19 | 3.33 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 18 | 3.33 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 18 | 3.33 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 18 | 3.33 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 18 | 3.33 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 18 | 3.33 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 18 | 3.33 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 12 | 3.33 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 12 | 3.33 |
| (1,3576) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 12 | 3.33 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 12 | 3.33 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 12 | 3.33 |
| (1,3576) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 12 | 3.33 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 17 | 3.33 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 17 | 3.33 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 17 | 3.33 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 17 | 3.33 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 17 | 3.33 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 17 | 3.33 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 13 | 3.33 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 11 | 3.33 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 11 | 3.33 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 9 | 3.33 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 13 | 3.33 |
| (1,3316) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 18 | 3.33 |
| (1,3316) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 18 | 3.33 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 10 | 3.33 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 10 | 3.33 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 9 | 3.33 |
| (1,3246) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 9 | 3.33 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 9 | 3.33 |
| (1,3246) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 9 | 3.33 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 9 | 3.33 |
| (1,3246) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 9 | 3.33 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 9 | 3.33 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 7 | 3.33 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 7 | 3.33 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 3 | 3.33 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 3 | 3.33 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 6 | 3.33 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 4 | 3.33 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 15 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 15 | 3.33 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 1 | 3.33 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 7 | 3.33 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 18 | 3.33 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 1 | 3.33 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 8 | 3.33 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 18 | 3.33 |
| (1,2942) | 1:26:A:ASN:H | 1:32:A:SER:HA | 15 | 3.33 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 3 | 3.33 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 3 | 3.33 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 3 | 3.33 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 6 | 3.33 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 6 | 3.33 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 6 | 3.33 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 12 | 3.33 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 6 | 3.33 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 6 | 3.33 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 6 | 3.33 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 18 | 3.33 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 18 | 3.33 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 18 | 3.33 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 2 | 3.33 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 5 | 3.33 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 12 | 3.33 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 12 | 3.33 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 12 | 3.33 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 18 | 3.33 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 3 | 3.33 |
| (1,2776) | 1:25:A:PHE:H | 1:26:A:ASN:H | 7 | 3.33 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 20 | 3.33 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 20 | 3.33 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 17 | 3.33 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 17 | 3.33 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 10 | 3.33 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 10 | 3.33 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 10 | 3.33 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 8 | 3.33 |
| (1,2560) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 4 | 3.33 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 16 | 3.33 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 16 | 3.33 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 6 | 3.33 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 5 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 5 | 3.33 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 5 | 3.33 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 2 | 3.33 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 8 | 3.33 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 15 | 3.33 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 10 | 3.33 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 10 | 3.33 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 10 | 3.33 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 10 | 3.33 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 14 | 3.33 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 14 | 3.33 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 14 | 3.33 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 14 | 3.33 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 5 | 3.33 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 5 | 3.33 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 9 | 3.33 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 9 | 3.33 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 6 | 3.33 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 6 | 3.33 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 6 | 3.33 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 9 | 3.33 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 10 | 3.33 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 4 | 3.33 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 3 | 3.33 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 6 | 3.33 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 6 | 3.33 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 6 | 3.33 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 20 | 3.33 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 20 | 3.33 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 15 | 3.33 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 14 | 3.33 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 1 | 3.33 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 8 | 3.33 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 8 | 3.33 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 8 | 3.33 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 19 | 3.33 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 19 | 3.33 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 19 | 3.33 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 9 | 3.33 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 9 | 3.33 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 9 | 3.33 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 5 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 5 | 3.33 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 5 | 3.33 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 15 | 3.33 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 17 | 3.33 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 20 | 3.33 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 14 | 3.33 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 18 | 3.33 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 13 | 3.33 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 13 | 3.33 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 13 | 3.33 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 19 | 3.33 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 19 | 3.33 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 19 | 3.33 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 18 | 3.33 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 1 | 3.33 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 12 | 3.33 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 11 | 3.33 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 11 | 3.33 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 13 | 3.33 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 13 | 3.33 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 5 | 3.33 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 5 | 3.33 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 15 | 3.33 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 15 | 3.33 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 15 | 3.33 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 20 | 3.33 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 20 | 3.33 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 20 | 3.33 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 3 | 3.33 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 4 | 3.33 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 11 | 3.33 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 11 | 3.33 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 14 | 3.33 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 14 | 3.33 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 14 | 3.33 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 15 | 3.33 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 15 | 3.33 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 15 | 3.33 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 17 | 3.33 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 14 | 3.33 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 17 | 3.33 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 17 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 17 | 3.33 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 3.33 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 3.33 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 3.33 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 3.33 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 3.33 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 3.33 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 1 | 3.33 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 1 | 3.33 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 1 | 3.33 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 15 | 3.33 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 17 | 3.33 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 10 | 3.33 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 20 | 3.33 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 20 | 3.33 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 20 | 3.33 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 5 | 3.32 |
| (4,153) | 1:98:A:SER:CB | 1:13:A:LYS:H | 20 | 3.32 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 19 | 3.32 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 19 | 3.32 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 19 | 3.32 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 19 | 3.32 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 19 | 3.32 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 19 | 3.32 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG12 | 4 | 3.32 |
| (1,9585) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HG13 | 4 | 3.32 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG12 | 4 | 3.32 |
| (1,9585) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HG13 | 4 | 3.32 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG12 | 4 | 3.32 |
| (1,9585) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HG13 | 4 | 3.32 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 3 | 3.32 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 3 | 3.32 |
| (1,9489) | 1:133:A:PRO:HB2 | 1:153:A:ASP:H | 4 | 3.32 |
| (1,9489) | 1:133:A:PRO:HB3 | 1:153:A:ASP:H | 4 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG21 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG22 | 16 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9483) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG23 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG21 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG22 | 16 | 3.32 |
| (1,9483) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG23 | 16 | 3.32 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 8 | 3.32 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 8 | 3.32 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG2 | 12 | 3.32 |
| (1,9451) | 1:130:A:MET:HA | 1:131:A:GLN:HG3 | 12 | 3.32 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 2 | 3.32 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 2 | 3.32 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 3 | 3.32 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 3 | 3.32 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 7 | 3.32 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 7 | 3.32 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 7 | 3.32 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 7 | 3.32 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 12 | 3.32 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 12 | 3.32 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 12 | 3.32 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 12 | 3.32 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 11 | 3.32 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 11 | 3.32 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 2 | 3.32 |
| (1,9044) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 2 | 3.32 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 15 | 3.32 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 15 | 3.32 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 15 | 3.32 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 15 | 3.32 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 15 | 3.32 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 15 | 3.32 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 1 | 3.32 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 1 | 3.32 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 12 | 3.32 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 12 | 3.32 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 11 | 3.32 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 11 | 3.32 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 11 | 3.32 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 11 | 3.32 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 11 | 3.32 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 11 | 3.32 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 14 | 3.32 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 14 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 19 | 3.32 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 19 | 3.32 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 19 | 3.32 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 19 | 3.32 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 19 | 3.32 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 19 | 3.32 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 13 | 3.32 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 13 | 3.32 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 13 | 3.32 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 13 | 3.32 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 13 | 3.32 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 13 | 3.32 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 6 | 3.32 |
| (1,8755) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 6 | 3.32 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 6 | 3.32 |
| (1,8755) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 6 | 3.32 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 6 | 3.32 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 6 | 3.32 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 18 | 3.32 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 18 | 3.32 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 13 | 3.32 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 13 | 3.32 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 17 | 3.32 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 17 | 3.32 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 18 | 3.32 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 18 | 3.32 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 18 | 3.32 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 18 | 3.32 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 18 | 3.32 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 18 | 3.32 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 4 | 3.32 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 4 | 3.32 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 12 | 3.32 |
| (1,8594) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 12 | 3.32 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 12 | 3.32 |
| (1,8594) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 12 | 3.32 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 8 | 3.32 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 8 | 3.32 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 1 | 3.32 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 1 | 3.32 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 14 | 3.32 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 14 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 14 | 3.32 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 16 | 3.32 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 8 | 3.32 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 8 | 3.32 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 8 | 3.32 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 8 | 3.32 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 8 | 3.32 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 8 | 3.32 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 7 | 3.32 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 7 | 3.32 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 7 | 3.32 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 12 | 3.32 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 12 | 3.32 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 12 | 3.32 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 11 | 3.32 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 11 | 3.32 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 11 | 3.32 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 2 | 3.32 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 2 | 3.32 |
| (1,8352) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 2 | 3.32 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 7 | 3.32 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 6 | 3.32 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 6 | 3.32 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 6 | 3.32 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 5 | 3.32 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 5 | 3.32 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 5 | 3.32 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 12 | 3.32 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 12 | 3.32 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 12 | 3.32 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 1 | 3.32 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 5 | 3.32 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 6 | 3.32 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 6 | 3.32 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 6 | 3.32 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 18 | 3.32 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 18 | 3.32 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 10 | 3.32 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 3 | 3.32 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 3 | 3.32 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 3 | 3.32 |
| (1,7397) | 1:4:A:GLU:H | 1:7:A:LEU:H | 8 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 10 | 3.32 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 4 | 3.32 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 4 | 3.32 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 4 | 3.32 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 3 | 3.32 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 3 | 3.32 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 3 | 3.32 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 14 | 3.32 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 6 | 3.32 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 11 | 3.32 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 16 | 3.32 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 18 | 3.32 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 18 | 3.32 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 18 | 3.32 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 11 | 3.32 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 11 | 3.32 |
| (1,6976) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 5 | 3.32 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 14 | 3.32 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 9 | 3.32 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 9 | 3.32 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 1 | 3.32 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 1 | 3.32 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 1 | 3.32 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 1 | 3.32 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 14 | 3.32 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 14 | 3.32 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 4 | 3.32 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 4 | 3.32 |
| (1,6743) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 1 | 3.32 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 3 | 3.32 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 6 | 3.32 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 3 | 3.32 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 14 | 3.32 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 19 | 3.32 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 19 | 3.32 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 19 | 3.32 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 15 | 3.32 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 18 | 3.32 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 4 | 3.32 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 4 | 3.32 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 4 | 3.32 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 6 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 5 | 3.32 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 5 | 3.32 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 5 | 3.32 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 20 | 3.32 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 20 | 3.32 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 1 | 3.32 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 20 | 3.32 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 20 | 3.32 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 15 | 3.32 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 4 | 3.32 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 15 | 3.32 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 15 | 3.32 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 15 | 3.32 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 15 | 3.32 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 10 | 3.32 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 10 | 3.32 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 10 | 3.32 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 1 | 3.32 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 1 | 3.32 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 1 | 3.32 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 1 | 3.32 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 1 | 3.32 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 1 | 3.32 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 8 | 3.32 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 8 | 3.32 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 8 | 3.32 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 3 | 3.32 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 13 | 3.32 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 1 | 3.32 |
| (1,5742) | 1:107:A:ALA:H | 1:109:A:GLN:H | 8 | 3.32 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 18 | 3.32 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 7 | 3.32 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 20 | 3.32 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 20 | 3.32 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 20 | 3.32 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 19 | 3.32 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 19 | 3.32 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 19 | 3.32 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 6 | 3.32 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 6 | 3.32 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 6 | 3.32 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 1 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 1 | 3.32 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 1 | 3.32 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 17 | 3.32 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 8 | 3.32 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 8 | 3.32 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 8 | 3.32 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 8 | 3.32 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 8 | 3.32 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 8 | 3.32 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 8 | 3.32 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 8 | 3.32 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 8 | 3.32 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 19 | 3.32 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 5 | 3.32 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 5 | 3.32 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 5 | 3.32 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 5 | 3.32 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 5 | 3.32 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 5 | 3.32 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 3.32 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 16 | 3.32 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 20 | 3.32 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 20 | 3.32 |
| (1,5071) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 20 | 3.32 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 5 | 3.32 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 3 | 3.32 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 7 | 3.32 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 14 | 3.32 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 1 | 3.32 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 1 | 3.32 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 20 | 3.32 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 20 | 3.32 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 20 | 3.32 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 12 | 3.32 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 12 | 3.32 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 12 | 3.32 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 12 | 3.32 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 12 | 3.32 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 12 | 3.32 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 12 | 3.32 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 12 | 3.32 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 12 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 5 | 3.32 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 5 | 3.32 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 5 | 3.32 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 6 | 3.32 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 6 | 3.32 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 6 | 3.32 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 6 | 3.32 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 6 | 3.32 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 6 | 3.32 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 6 | 3.32 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 6 | 3.32 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 6 | 3.32 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 9 | 3.32 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 9 | 3.32 |
| (1,4784) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 9 | 3.32 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 12 | 3.32 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 8 | 3.32 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 8 | 3.32 |
| (1,4742) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 8 | 3.32 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 3 | 3.32 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 3 | 3.32 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 6 | 3.32 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 6 | 3.32 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 2 | 3.32 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 19 | 3.32 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 19 | 3.32 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 19 | 3.32 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 19 | 3.32 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 19 | 3.32 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 19 | 3.32 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 7 | 3.32 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 12 | 3.32 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 10 | 3.32 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 12 | 3.32 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 12 | 3.32 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 12 | 3.32 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 12 | 3.32 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 12 | 3.32 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 12 | 3.32 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 8 | 3.32 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 8 | 3.32 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 14 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 14 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 2 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 2 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 3 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 3 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 6 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 6 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 7 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 7 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 9 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 9 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 14 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 14 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 15 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 15 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 18 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 18 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 19 | 3.32 |
| (1,4350) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 19 | 3.32 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 3 | 3.32 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 3 | 3.32 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 17 | 3.32 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 7 | 3.32 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 7 | 3.32 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 7 | 3.32 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 7 | 3.32 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 11 | 3.32 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 11 | 3.32 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 16 | 3.32 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 18 | 3.32 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 18 | 3.32 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 10 | 3.32 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 10 | 3.32 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 10 | 3.32 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 10 | 3.32 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 10 | 3.32 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 10 | 3.32 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 5 | 3.32 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 7 | 3.32 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 7 | 3.32 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 7 | 3.32 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 20 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 20 | 3.32 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 2 | 3.32 |
| (1,4014) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 2 | 3.32 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 2 | 3.32 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 15 | 3.32 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 15 | 3.32 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 15 | 3.32 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 15 | 3.32 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 15 | 3.32 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 15 | 3.32 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 1 | 3.32 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 1 | 3.32 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 12 | 3.32 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 12 | 3.32 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 3 | 3.32 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 3 | 3.32 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 3 | 3.32 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 19 | 3.32 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 19 | 3.32 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 19 | 3.32 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 13 | 3.32 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 13 | 3.32 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 13 | 3.32 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 13 | 3.32 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 13 | 3.32 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 13 | 3.32 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 6 | 3.32 |
| (1,3722) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 6 | 3.32 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 6 | 3.32 |
| (1,3722) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 6 | 3.32 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 6 | 3.32 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 6 | 3.32 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 1 | 3.32 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 2 | 3.32 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 2 | 3.32 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 13 | 3.32 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 13 | 3.32 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 9 | 3.32 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 9 | 3.32 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 9 | 3.32 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 9 | 3.32 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 15 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 15 | 3.32 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 19 | 3.32 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 19 | 3.32 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 18 | 3.32 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 18 | 3.32 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 18 | 3.32 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 18 | 3.32 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 18 | 3.32 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 18 | 3.32 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 18 | 3.32 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 18 | 3.32 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 18 | 3.32 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 18 | 3.32 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 8 | 3.32 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 8 | 3.32 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 1 | 3.32 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 1 | 3.32 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 3 | 3.32 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 4 | 3.32 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 4 | 3.32 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 4 | 3.32 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 1 | 3.32 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 14 | 3.32 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 14 | 3.32 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 14 | 3.32 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 10 | 3.32 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 14 | 3.32 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 14 | 3.32 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 1 | 3.32 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 11 | 3.32 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 3 | 3.32 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 3 | 3.32 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 3 | 3.32 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 14 | 3.32 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 9 | 3.32 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 6 | 3.32 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 1 | 3.32 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 3 | 3.32 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 11 | 3.32 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 11 | 3.32 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 16 | 3.32 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 18 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 6 | 3.32 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 18 | 3.32 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 18 | 3.32 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 11 | 3.32 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 11 | 3.32 |
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 1 | 3.32 |
| (1,3008) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 5 | 3.32 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 15 | 3.32 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 14 | 3.32 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 13 | 3.32 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 9 | 3.32 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 9 | 3.32 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 1 | 3.32 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 1 | 3.32 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 1 | 3.32 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 1 | 3.32 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 14 | 3.32 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 14 | 3.32 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 2 | 3.32 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 2 | 3.32 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 4 | 3.32 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 4 | 3.32 |
| (1,2678) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 1 | 3.32 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 8 | 3.32 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 8 | 3.32 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 8 | 3.32 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 3 | 3.32 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 6 | 3.32 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 3 | 3.32 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 14 | 3.32 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 19 | 3.32 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 19 | 3.32 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 19 | 3.32 |
| (1,2400) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 19 | 3.32 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 15 | 3.32 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 18 | 3.32 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 4 | 3.32 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 4 | 3.32 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 4 | 3.32 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 3 | 3.32 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 18 | 3.32 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 1 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 6 | 3.32 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 12 | 3.32 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 12 | 3.32 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 12 | 3.32 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 5 | 3.32 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 5 | 3.32 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 5 | 3.32 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 20 | 3.32 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 20 | 3.32 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 8 | 3.32 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 1 | 3.32 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 20 | 3.32 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 8 | 3.32 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 1 | 3.32 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 1 | 3.32 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 1 | 3.32 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 15 | 3.32 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 4 | 3.32 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 15 | 3.32 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 15 | 3.32 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 15 | 3.32 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 15 | 3.32 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 15 | 3.32 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 15 | 3.32 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 15 | 3.32 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 15 | 3.32 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 15 | 3.32 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 15 | 3.32 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 10 | 3.32 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 10 | 3.32 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 10 | 3.32 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 6 | 3.32 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 6 | 3.32 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 6 | 3.32 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 8 | 3.32 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 8 | 3.32 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 8 | 3.32 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 1 | 3.32 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 1 | 3.32 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 1 | 3.32 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 1 | 3.32 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 1 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 1 | 3.32 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 8 | 3.32 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 8 | 3.32 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 8 | 3.32 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 15 | 3.32 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 3 | 3.32 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 13 | 3.32 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 1 | 3.32 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 10 | 3.32 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 17 | 3.32 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 12 | 3.32 |
| (1,1034) | 1:107:A:ALA:H | 1:109:A:GLN:H | 8 | 3.32 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 18 | 3.32 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 7 | 3.32 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 20 | 3.32 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 20 | 3.32 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 20 | 3.32 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 16 | 3.32 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 11 | 3.32 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 11 | 3.32 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 11 | 3.32 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 19 | 3.32 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 19 | 3.32 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 19 | 3.32 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 18 | 3.32 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 18 | 3.32 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 18 | 3.32 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 18 | 3.32 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 18 | 3.32 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 18 | 3.32 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 14 | 3.32 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 15 | 3.32 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 15 | 3.32 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 19 | 3.32 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 10 | 3.32 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 10 | 3.32 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 6 | 3.32 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 6 | 3.32 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 6 | 3.32 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 10 | 3.32 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 10 | 3.32 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 10 | 3.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 19 | 3.32 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 8 | 3.32 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 8 | 3.32 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 8 | 3.32 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 20 | 3.32 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 1 | 3.32 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 6 | 3.31 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 20 | 3.31 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 2 | 3.31 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 15 | 3.31 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 15 | 3.31 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 17 | 3.31 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 17 | 3.31 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 14 | 3.31 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 14 | 3.31 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 2 | 3.31 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 2 | 3.31 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 6 | 3.31 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 6 | 3.31 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 1 | 3.31 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 1 | 3.31 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 12 | 3.31 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 12 | 3.31 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 12 | 3.31 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 12 | 3.31 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 13 | 3.31 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 13 | 3.31 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 2 | 3.31 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 2 | 3.31 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 3.31 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 20 | 3.31 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 1 | 3.31 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 1 | 3.31 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 10 | 3.31 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 10 | 3.31 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 10 | 3.31 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 10 | 3.31 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 10 | 3.31 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 10 | 3.31 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 19 | 3.31 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 19 | 3.31 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 1 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 1 | 3.31 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 15 | 3.31 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 15 | 3.31 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 15 | 3.31 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 15 | 3.31 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 11 | 3.31 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 11 | 3.31 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 11 | 3.31 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 11 | 3.31 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 11 | 3.31 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 11 | 3.31 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 7 | 3.31 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 7 | 3.31 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 9 | 3.31 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 9 | 3.31 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 9 | 3.31 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 9 | 3.31 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 2 | 3.31 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 2 | 3.31 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 20 | 3.31 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 20 | 3.31 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 16 | 3.31 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 16 | 3.31 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 3 | 3.31 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 3 | 3.31 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 6 | 3.31 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 6 | 3.31 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 2 | 3.31 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 2 | 3.31 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 2 | 3.31 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 2 | 3.31 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 2 | 3.31 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 2 | 3.31 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 5 | 3.31 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 5 | 3.31 |
| (1,8506) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 10 | 3.31 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 3 | 3.31 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 3 | 3.31 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 3 | 3.31 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 15 | 3.31 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 15 | 3.31 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 13 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 17 | 3.31 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 13 | 3.31 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 17 | 3.31 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 17 | 3.31 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 17 | 3.31 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 15 | 3.31 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 17 | 3.31 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 17 | 3.31 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 17 | 3.31 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 7 | 3.31 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 7 | 3.31 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 7 | 3.31 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 16 | 3.31 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 16 | 3.31 |
| (1,7823) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 16 | 3.31 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 16 | 3.31 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 16 | 3.31 |
| (1,7823) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 16 | 3.31 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 16 | 3.31 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 16 | 3.31 |
| (1,7823) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 16 | 3.31 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 9 | 3.31 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 9 | 3.31 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 9 | 3.31 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 9 | 3.31 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 9 | 3.31 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 9 | 3.31 |
| (1,7654) | 1:32:A:SER:H | 1:33:A:GLN:H | 13 | 3.31 |
| (1,7509) | 1:14:A:ARG:H | 1:23:A:TYR:H | 12 | 3.31 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 4 | 3.31 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 4 | 3.31 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 4 | 3.31 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 5 | 3.31 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 5 | 3.31 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 5 | 3.31 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 7 | 3.31 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 7 | 3.31 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 10 | 3.31 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 10 | 3.31 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 1 | 3.31 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 1 | 3.31 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 1 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 1 | 3.31 |
| (1,7211) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 1 | 3.31 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 17 | 3.31 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 17 | 3.31 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 12 | 3.31 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 12 | 3.31 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 4 | 3.31 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 4 | 3.31 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 4 | 3.31 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 14 | 3.31 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 14 | 3.31 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 14 | 3.31 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 8 | 3.31 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 3 | 3.31 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 9 | 3.31 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 18 | 3.31 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 18 | 3.31 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 18 | 3.31 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 18 | 3.31 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 1 | 3.31 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 2 | 3.31 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 19 | 3.31 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 19 | 3.31 |
| (1,6559) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 19 | 3.31 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 12 | 3.31 |
| (1,6407) | 1:158:A:ILE:H | 1:159:A:ILE:H | 8 | 3.31 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 18 | 3.31 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 6 | 3.31 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 6 | 3.31 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 6 | 3.31 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 6 | 3.31 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 6 | 3.31 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 14 | 3.31 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 14 | 3.31 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 14 | 3.31 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 10 | 3.31 |
| (1,6223) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 10 | 3.31 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 10 | 3.31 |
| (1,6223) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 10 | 3.31 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 18 | 3.31 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 17 | 3.31 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 17 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 17 | 3.31 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 1 | 3.31 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 1 | 3.31 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 1 | 3.31 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 11 | 3.31 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 11 | 3.31 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 4 | 3.31 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 17 | 3.31 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 5 | 3.31 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 5 | 3.31 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 5 | 3.31 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 5 | 3.31 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 5 | 3.31 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 5 | 3.31 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 5 | 3.31 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 5 | 3.31 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 5 | 3.31 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 19 | 3.31 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 19 | 3.31 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 19 | 3.31 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 19 | 3.31 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 19 | 3.31 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 19 | 3.31 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 19 | 3.31 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 19 | 3.31 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 19 | 3.31 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 2 | 3.31 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 2 | 3.31 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 11 | 3.31 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 11 | 3.31 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 11 | 3.31 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 7 | 3.31 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 12 | 3.31 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 12 | 3.31 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 19 | 3.31 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 19 | 3.31 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 19 | 3.31 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 19 | 3.31 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 19 | 3.31 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 7 | 3.31 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 15 | 3.31 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 15 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 15 | 3.31 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 15 | 3.31 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 15 | 3.31 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 15 | 3.31 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 15 | 3.31 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 15 | 3.31 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 15 | 3.31 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 15 | 3.31 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 15 | 3.31 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 15 | 3.31 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 9 | 3.31 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 9 | 3.31 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 9 | 3.31 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 19 | 3.31 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 19 | 3.31 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 19 | 3.31 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 7 | 3.31 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 17 | 3.31 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 17 | 3.31 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 17 | 3.31 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 10 | 3.31 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 10 | 3.31 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 10 | 3.31 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 14 | 3.31 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 3 | 3.31 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 3 | 3.31 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 3 | 3.31 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 13 | 3.31 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 15 | 3.31 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 15 | 3.31 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 15 | 3.31 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 15 | 3.31 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 1 | 3.31 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 15 | 3.31 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 17 | 3.31 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 19 | 3.31 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 19 | 3.31 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 19 | 3.31 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 10 | 3.31 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 10 | 3.31 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 10 | 3.31 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 11 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 5 | 3.31 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 18 | 3.31 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 7 | 3.31 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 16 | 3.31 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 16 | 3.31 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 14 | 3.31 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 14 | 3.31 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 14 | 3.31 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 14 | 3.31 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 14 | 3.31 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 14 | 3.31 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 6 | 3.31 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 6 | 3.31 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 6 | 3.31 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 16 | 3.31 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 3 | 3.31 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 3 | 3.31 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 3 | 3.31 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 3 | 3.31 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 3.31 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 3.31 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 2 | 3.31 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 2 | 3.31 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 6 | 3.31 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 6 | 3.31 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 12 | 3.31 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 12 | 3.31 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 12 | 3.31 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 9 | 3.31 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 14 | 3.31 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 5 | 3.31 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 5 | 3.31 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 5 | 3.31 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 3 | 3.31 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 3 | 3.31 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 3 | 3.31 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 3 | 3.31 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 5 | 3.31 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 1 | 3.31 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 1 | 3.31 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 9 | 3.31 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 9 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 9 | 3.31 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 9 | 3.31 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 13 | 3.31 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 5 | 3.31 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 5 | 3.31 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 5 | 3.31 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 2 | 3.31 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 2 | 3.31 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 3.31 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 20 | 3.31 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 9 | 3.31 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 1 | 3.31 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 1 | 3.31 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 19 | 3.31 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 19 | 3.31 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 16 | 3.31 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 16 | 3.31 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 1 | 3.31 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 1 | 3.31 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 15 | 3.31 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 15 | 3.31 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 15 | 3.31 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 15 | 3.31 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 6 | 3.31 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 6 | 3.31 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 6 | 3.31 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 11 | 3.31 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 11 | 3.31 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 11 | 3.31 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 11 | 3.31 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 11 | 3.31 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 11 | 3.31 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 7 | 3.31 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 2 | 3.31 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 16 | 3.31 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 16 | 3.31 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 13 | 3.31 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 13 | 3.31 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 13 | 3.31 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 13 | 3.31 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 13 | 3.31 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 13 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 6 | 3.31 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 6 | 3.31 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 10 | 3.31 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 10 | 3.31 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 13 | 3.31 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 13 | 3.31 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 7 | 3.31 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 7 | 3.31 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 7 | 3.31 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 7 | 3.31 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 7 | 3.31 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 7 | 3.31 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 2 | 3.31 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 2 | 3.31 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 2 | 3.31 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 2 | 3.31 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 2 | 3.31 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 2 | 3.31 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 5 | 3.31 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 5 | 3.31 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 1 | 3.31 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 1 | 3.31 |
| (1,3374) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 1 | 3.31 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 17 | 3.31 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 17 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 2 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 2 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 5 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 5 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 8 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 8 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 12 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 12 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 13 | 3.31 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 13 | 3.31 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 12 | 3.31 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 15 | 3.31 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 15 | 3.31 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 15 | 3.31 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 12 | 3.31 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 12 | 3.31 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 10 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 4 | 3.31 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 4 | 3.31 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 4 | 3.31 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 14 | 3.31 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 14 | 3.31 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 14 | 3.31 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 8 | 3.31 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 3 | 3.31 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 9 | 3.31 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 15 | 3.31 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 15 | 3.31 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 6 | 3.31 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 17 | 3.31 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 2 | 3.31 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 16 | 3.31 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 16 | 3.31 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 18 | 3.31 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 18 | 3.31 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 18 | 3.31 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 18 | 3.31 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 16 | 3.31 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 16 | 3.31 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 16 | 3.31 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 16 | 3.31 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 16 | 3.31 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 16 | 3.31 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 3 | 3.31 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 3 | 3.31 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 3 | 3.31 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 1 | 3.31 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 2 | 3.31 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 19 | 3.31 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 19 | 3.31 |
| (1,2412) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 19 | 3.31 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 11 | 3.31 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 11 | 3.31 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 11 | 3.31 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 11 | 3.31 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 11 | 3.31 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 11 | 3.31 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 6 | 3.31 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 3 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 12 | 3.31 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 8 | 3.31 |
| (1,2248) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 3 | 3.31 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 11 | 3.31 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 11 | 3.31 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 11 | 3.31 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 10 | 3.31 |
| (1,2120) | 1:158:A:ILE:H | 1:159:A:ILE:H | 8 | 3.31 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 3.31 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 3.31 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 3.31 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 12 | 3.31 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 12 | 3.31 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 12 | 3.31 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 18 | 3.31 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 20 | 3.31 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 20 | 3.31 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 20 | 3.31 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 6 | 3.31 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 6 | 3.31 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 6 | 3.31 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 6 | 3.31 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 6 | 3.31 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 14 | 3.31 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 14 | 3.31 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 14 | 3.31 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 9 | 3.31 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 9 | 3.31 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 9 | 3.31 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 9 | 3.31 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 9 | 3.31 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 9 | 3.31 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 10 | 3.31 |
| (1,1852) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 10 | 3.31 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 10 | 3.31 |
| (1,1852) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 10 | 3.31 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 18 | 3.31 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 17 | 3.31 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 17 | 3.31 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 17 | 3.31 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 20 | 3.31 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 20 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 20 | 3.31 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 20 | 3.31 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 1 | 3.31 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 1 | 3.31 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 1 | 3.31 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 11 | 3.31 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 11 | 3.31 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 5 | 3.31 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 4 | 3.31 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 17 | 3.31 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 5 | 3.31 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 5 | 3.31 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 5 | 3.31 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 5 | 3.31 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 5 | 3.31 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 5 | 3.31 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 5 | 3.31 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 5 | 3.31 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 5 | 3.31 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 19 | 3.31 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 19 | 3.31 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 19 | 3.31 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 19 | 3.31 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 19 | 3.31 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 19 | 3.31 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 19 | 3.31 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 19 | 3.31 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 19 | 3.31 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 15 | 3.31 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 15 | 3.31 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 15 | 3.31 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 16 | 3.31 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 2 | 3.31 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 2 | 3.31 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 9 | 3.31 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 11 | 3.31 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 11 | 3.31 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 11 | 3.31 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 4 | 3.31 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 4 | 3.31 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 4 | 3.31 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 11 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 7 | 3.31 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 12 | 3.31 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 12 | 3.31 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 19 | 3.31 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 19 | 3.31 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 19 | 3.31 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 4 | 3.31 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 8 | 3.31 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 8 | 3.31 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 19 | 3.31 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 19 | 3.31 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 16 | 3.31 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 7 | 3.31 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 3 | 3.31 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 3 | 3.31 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 11 | 3.31 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 11 | 3.31 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 15 | 3.31 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 15 | 3.31 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 15 | 3.31 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 15 | 3.31 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 15 | 3.31 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 15 | 3.31 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 15 | 3.31 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 15 | 3.31 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 15 | 3.31 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 15 | 3.31 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 15 | 3.31 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 15 | 3.31 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 3.31 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 9 | 3.31 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 9 | 3.31 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 9 | 3.31 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 9 | 3.31 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 19 | 3.31 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 19 | 3.31 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 19 | 3.31 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 13 | 3.31 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 13 | 3.31 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 13 | 3.31 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 19 | 3.31 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 19 | 3.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 19 | 3.31 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 7 | 3.31 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 7 | 3.31 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 7 | 3.31 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 7 | 3.31 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 7 | 3.31 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 7 | 3.31 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 20 | 3.31 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 20 | 3.31 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 20 | 3.31 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 3 | 3.31 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 3 | 3.31 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 3 | 3.31 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 6 | 3.31 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 6 | 3.31 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 6 | 3.31 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 8 | 3.31 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 8 | 3.31 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 8 | 3.31 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 2 | 3.3 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 8 | 3.3 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 5 | 3.3 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 20 | 3.3 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 15 | 3.3 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 20 | 3.3 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 20 | 3.3 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 5 | 3.3 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 5 | 3.3 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 5 | 3.3 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 5 | 3.3 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 5 | 3.3 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 5 | 3.3 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 9 | 3.3 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 9 | 3.3 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 9 | 3.3 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 9 | 3.3 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 9 | 3.3 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 9 | 3.3 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 12 | 3.3 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 12 | 3.3 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 12 | 3.3 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 12 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 1 | 3.3 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 1 | 3.3 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 1 | 3.3 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 1 | 3.3 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 1 | 3.3 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 1 | 3.3 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 5 | 3.3 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 5 | 3.3 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 5 | 3.3 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 5 | 3.3 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 5 | 3.3 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 5 | 3.3 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 17 | 3.3 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 17 | 3.3 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 17 | 3.3 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 17 | 3.3 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 17 | 3.3 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 17 | 3.3 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 4 | 3.3 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 4 | 3.3 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 3.3 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 3.3 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 13 | 3.3 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 13 | 3.3 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 13 | 3.3 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 13 | 3.3 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 10 | 3.3 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 10 | 3.3 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 11 | 3.3 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 11 | 3.3 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 5 | 3.3 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 5 | 3.3 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 3.3 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 3.3 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 12 | 3.3 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 12 | 3.3 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 12 | 3.3 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 12 | 3.3 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 12 | 3.3 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 12 | 3.3 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 19 | 3.3 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 19 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 19 | 3.3 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 19 | 3.3 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 8 | 3.3 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 8 | 3.3 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 2 | 3.3 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 2 | 3.3 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 15 | 3.3 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 15 | 3.3 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 15 | 3.3 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 15 | 3.3 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 14 | 3.3 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 14 | 3.3 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 12 | 3.3 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 12 | 3.3 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 20 | 3.3 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 20 | 3.3 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 13 | 3.3 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 13 | 3.3 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 8 | 3.3 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 8 | 3.3 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 17 | 3.3 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 17 | 3.3 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 17 | 3.3 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 17 | 3.3 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 10 | 3.3 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 10 | 3.3 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 13 | 3.3 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 13 | 3.3 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 3 | 3.3 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 3 | 3.3 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 3.3 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 3.3 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 10 | 3.3 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 10 | 3.3 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 10 | 3.3 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 1 | 3.3 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 1 | 3.3 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 19 | 3.3 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE1 | 12 | 3.3 |
| (1,8308) | 1:127:A:ARG:HG3 | 1:139:A:PHE:HE2 | 12 | 3.3 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 8 | 3.3 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 8 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 8 | 3.3 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 8 | 3.3 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 8 | 3.3 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 8 | 3.3 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 8 | 3.3 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 8 | 3.3 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 11 | 3.3 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 9 | 3.3 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 5 | 3.3 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 5 | 3.3 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 14 | 3.3 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 14 | 3.3 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 13 | 3.3 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 13 | 3.3 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 13 | 3.3 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 2 | 3.3 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 2 | 3.3 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 2 | 3.3 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 2 | 3.3 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 2 | 3.3 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 2 | 3.3 |
| (1,7699) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 3 | 3.3 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 8 | 3.3 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 8 | 3.3 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 8 | 3.3 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 19 | 3.3 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 4 | 3.3 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 4 | 3.3 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 13 | 3.3 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 13 | 3.3 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 13 | 3.3 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 13 | 3.3 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 13 | 3.3 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 13 | 3.3 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 14 | 3.3 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 5 | 3.3 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 5 | 3.3 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 11 | 3.3 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 11 | 3.3 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 18 | 3.3 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 18 | 3.3 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 18 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 18 | 3.3 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 18 | 3.3 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 18 | 3.3 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 18 | 3.3 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 18 | 3.3 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 18 | 3.3 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 6 | 3.3 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 6 | 3.3 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 14 | 3.3 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 14 | 3.3 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 12 | 3.3 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 1 | 3.3 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 6 | 3.3 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 19 | 3.3 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 13 | 3.3 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 13 | 3.3 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 13 | 3.3 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 17 | 3.3 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 17 | 3.3 |
| (1,6889) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 17 | 3.3 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 16 | 3.3 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 9 | 3.3 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 9 | 3.3 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 9 | 3.3 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 20 | 3.3 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 1 | 3.3 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 2 | 3.3 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 11 | 3.3 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 2 | 3.3 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 11 | 3.3 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 16 | 3.3 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 16 | 3.3 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 16 | 3.3 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 19 | 3.3 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 19 | 3.3 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 19 | 3.3 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 2 | 3.3 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 10 | 3.3 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 6 | 3.3 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 16 | 3.3 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 16 | 3.3 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 17 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 1 | 3.3 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 1 | 3.3 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 1 | 3.3 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 20 | 3.3 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 20 | 3.3 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 20 | 3.3 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 20 | 3.3 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 20 | 3.3 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 20 | 3.3 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 20 | 3.3 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 20 | 3.3 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 20 | 3.3 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 17 | 3.3 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 17 | 3.3 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 17 | 3.3 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 17 | 3.3 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 17 | 3.3 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 17 | 3.3 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 17 | 3.3 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 17 | 3.3 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 17 | 3.3 |
| (1,6080) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 19 | 3.3 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 7 | 3.3 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 7 | 3.3 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 7 | 3.3 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 7 | 3.3 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 7 | 3.3 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 7 | 3.3 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 4 | 3.3 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 4 | 3.3 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 5 | 3.3 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 14 | 3.3 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 14 | 3.3 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 11 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 6 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 6 | 3.3 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 6 | 3.3 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 14 | 3.3 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 14 | 3.3 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 14 | 3.3 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 3 | 3.3 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 3 | 3.3 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 3 | 3.3 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 2 | 3.3 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 19 | 3.3 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 19 | 3.3 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 19 | 3.3 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 19 | 3.3 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 1 | 3.3 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 1 | 3.3 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 1 | 3.3 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 5 | 3.3 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 5 | 3.3 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 5 | 3.3 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 14 | 3.3 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 14 | 3.3 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 14 | 3.3 |
| (1,5326) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 8 | 3.3 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 7 | 3.3 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 15 | 3.3 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 15 | 3.3 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 15 | 3.3 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 3 | 3.3 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 6 | 3.3 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 6 | 3.3 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 6 | 3.3 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 3 | 3.3 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 3 | 3.3 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 3 | 3.3 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 14 | 3.3 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 16 | 3.3 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 15 | 3.3 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 7 | 3.3 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 6 | 3.3 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 8 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 8 | 3.3 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 17 | 3.3 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 5 | 3.3 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 5 | 3.3 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 5 | 3.3 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 5 | 3.3 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 5 | 3.3 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 5 | 3.3 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 1 | 3.3 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 1 | 3.3 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 13 | 3.3 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 1 | 3.3 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 1 | 3.3 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 1 | 3.3 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 1 | 3.3 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 1 | 3.3 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 1 | 3.3 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 5 | 3.3 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 5 | 3.3 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 5 | 3.3 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 5 | 3.3 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 5 | 3.3 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 5 | 3.3 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 17 | 3.3 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 17 | 3.3 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 17 | 3.3 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 17 | 3.3 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 17 | 3.3 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 17 | 3.3 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 17 | 3.3 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 17 | 3.3 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 17 | 3.3 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 12 | 3.3 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 12 | 3.3 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 2 | 3.3 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 2 | 3.3 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 2 | 3.3 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 4 | 3.3 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 4 | 3.3 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 3.3 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 3.3 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 16 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 16 | 3.3 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 16 | 3.3 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 16 | 3.3 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 10 | 3.3 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 10 | 3.3 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 11 | 3.3 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 11 | 3.3 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 3.3 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 18 | 3.3 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 5 | 3.3 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 5 | 3.3 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 3.3 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 3.3 |
| (1,4232) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 7 | 3.3 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 5 | 3.3 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 5 | 3.3 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 19 | 3.3 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 19 | 3.3 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 5 | 3.3 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 5 | 3.3 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 5 | 3.3 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 5 | 3.3 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 6 | 3.3 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 6 | 3.3 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 6 | 3.3 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 6 | 3.3 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 6 | 3.3 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 6 | 3.3 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 14 | 3.3 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 14 | 3.3 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 7 | 3.3 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 7 | 3.3 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 14 | 3.3 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 11 | 3.3 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 3.3 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 2 | 3.3 |
| (1,3861) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 18 | 3.3 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 18 | 3.3 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 18 | 3.3 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 3.3 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 3.3 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 18 | 3.3 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 18 | 3.3 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 18 | 3.3 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 18 | 3.3 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 18 | 3.3 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 18 | 3.3 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 18 | 3.3 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 18 | 3.3 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 18 | 3.3 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 1 | 3.3 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 1 | 3.3 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 1 | 3.3 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 1 | 3.3 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 1 | 3.3 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 1 | 3.3 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 19 | 3.3 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 19 | 3.3 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 19 | 3.3 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 15 | 3.3 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 15 | 3.3 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 3.3 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 3.3 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 13 | 3.3 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 13 | 3.3 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 7 | 3.3 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 7 | 3.3 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 16 | 3.3 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 16 | 3.3 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 16 | 3.3 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 16 | 3.3 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 8 | 3.3 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 8 | 3.3 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 10 | 3.3 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 10 | 3.3 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 3.3 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 6 | 3.3 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 3.3 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 6 | 3.3 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 6 | 3.3 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 6 | 3.3 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 6 | 3.3 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 6 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 4 | 3.3 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 4 | 3.3 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 4 | 3.3 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 3 | 3.3 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 3 | 3.3 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 3.3 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 3.3 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 18 | 3.3 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 18 | 3.3 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 18 | 3.3 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 18 | 3.3 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 18 | 3.3 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 18 | 3.3 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 18 | 3.3 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 18 | 3.3 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 18 | 3.3 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 17 | 3.3 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 6 | 3.3 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 6 | 3.3 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 4 | 3.3 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 4 | 3.3 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 9 | 3.3 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 9 | 3.3 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 15 | 3.3 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 15 | 3.3 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 16 | 3.3 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 16 | 3.3 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 8 | 3.3 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 14 | 3.3 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 14 | 3.3 |
| (1,3204) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 8 | 3.3 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 12 | 3.3 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 1 | 3.3 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 6 | 3.3 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 19 | 3.3 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 11 | 3.3 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 9 | 3.3 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 2 | 3.3 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 2 | 3.3 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 13 | 3.3 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 13 | 3.3 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 13 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 17 | 3.3 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 17 | 3.3 |
| (1,2886) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 17 | 3.3 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 16 | 3.3 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 9 | 3.3 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 9 | 3.3 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 9 | 3.3 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 1 | 3.3 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 11 | 3.3 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 11 | 3.3 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 11 | 3.3 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 11 | 3.3 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 11 | 3.3 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 11 | 3.3 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 6 | 3.3 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 19 | 3.3 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 19 | 3.3 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 19 | 3.3 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 2 | 3.3 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 11 | 3.3 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 9 | 3.3 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 3 | 3.3 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 2 | 3.3 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 11 | 3.3 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 16 | 3.3 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 16 | 3.3 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 16 | 3.3 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 19 | 3.3 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 19 | 3.3 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 19 | 3.3 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 2 | 3.3 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 20 | 3.3 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 20 | 3.3 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 20 | 3.3 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 5 | 3.3 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 10 | 3.3 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 8 | 3.3 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 8 | 3.3 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 8 | 3.3 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 12 | 3.3 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 6 | 3.3 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 9 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 15 | 3.3 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 15 | 3.3 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 15 | 3.3 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 3.3 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 3.3 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 3.3 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 16 | 3.3 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 16 | 3.3 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 16 | 3.3 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 13 | 3.3 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 15 | 3.3 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 17 | 3.3 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 1 | 3.3 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 1 | 3.3 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 1 | 3.3 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 15 | 3.3 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 20 | 3.3 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 20 | 3.3 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 20 | 3.3 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 20 | 3.3 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 20 | 3.3 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 20 | 3.3 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 20 | 3.3 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 20 | 3.3 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 20 | 3.3 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 7 | 3.3 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 7 | 3.3 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 7 | 3.3 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 16 | 3.3 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 16 | 3.3 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 16 | 3.3 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 16 | 3.3 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 16 | 3.3 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 16 | 3.3 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 16 | 3.3 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 16 | 3.3 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 16 | 3.3 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 17 | 3.3 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 17 | 3.3 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 17 | 3.3 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 17 | 3.3 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 17 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 17 | 3.3 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 17 | 3.3 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 17 | 3.3 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 17 | 3.3 |
| (1,1650) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 19 | 3.3 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 11 | 3.3 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 7 | 3.3 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 7 | 3.3 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 7 | 3.3 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 7 | 3.3 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 7 | 3.3 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 7 | 3.3 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 4 | 3.3 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 4 | 3.3 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 8 | 3.3 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 4 | 3.3 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 4 | 3.3 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 20 | 3.3 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 20 | 3.3 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 20 | 3.3 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 5 | 3.3 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 7 | 3.3 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 7 | 3.3 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 7 | 3.3 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 7 | 3.3 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 7 | 3.3 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 7 | 3.3 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 14 | 3.3 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 14 | 3.3 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 11 | 3.3 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 14 | 3.3 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 14 | 3.3 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 14 | 3.3 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 2 | 3.3 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 2 | 3.3 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 7 | 3.3 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 7 | 3.3 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 7 | 3.3 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 3 | 3.3 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 3 | 3.3 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 3 | 3.3 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 11 | 3.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 11 | 3.3 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 2 | 3.3 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 10 | 3.3 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 10 | 3.3 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 10 | 3.3 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 10 | 3.3 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 10 | 3.3 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 10 | 3.3 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 6 | 3.3 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 6 | 3.3 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 6 | 3.3 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 6 | 3.3 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 6 | 3.3 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 6 | 3.3 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 6 | 3.3 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 6 | 3.3 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 6 | 3.3 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 10 | 3.3 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 16 | 3.3 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 9 | 3.3 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 18 | 3.3 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 18 | 3.3 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 18 | 3.3 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 11 | 3.3 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 11 | 3.3 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 11 | 3.3 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 8 | 3.3 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 9 | 3.3 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 9 | 3.3 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 11 | 3.3 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 11 | 3.3 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 11 | 3.3 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 15 | 3.29 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 16 | 3.29 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 13 | 3.29 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 20 | 3.29 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 18 | 3.29 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 15 | 3.29 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 16 | 3.29 |
| (1,9581) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 16 | 3.29 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 6 | 3.29 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 6 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 9 | 3.29 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 9 | 3.29 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 14 | 3.29 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 14 | 3.29 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 14 | 3.29 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 14 | 3.29 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 19 | 3.29 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 19 | 3.29 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 2 | 3.29 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 2 | 3.29 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 7 | 3.29 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 7 | 3.29 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 3.29 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 16 | 3.29 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 18 | 3.29 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 18 | 3.29 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 2 | 3.29 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 2 | 3.29 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 2 | 3.29 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 2 | 3.29 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 2 | 3.29 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 2 | 3.29 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 3 | 3.29 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 3 | 3.29 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 9 | 3.29 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 9 | 3.29 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 3 | 3.29 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 3 | 3.29 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 14 | 3.29 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 14 | 3.29 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 14 | 3.29 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 14 | 3.29 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 2 | 3.29 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 2 | 3.29 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 2 | 3.29 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 2 | 3.29 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 2 | 3.29 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 2 | 3.29 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 10 | 3.29 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 10 | 3.29 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 10 | 3.29 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 10 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 10 | 3.29 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 10 | 3.29 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 8 | 3.29 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 8 | 3.29 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 13 | 3.29 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 13 | 3.29 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 13 | 3.29 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 13 | 3.29 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 2 | 3.29 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 2 | 3.29 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 15 | 3.29 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 11 | 3.29 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 11 | 3.29 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 11 | 3.29 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 11 | 3.29 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 11 | 3.29 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 11 | 3.29 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 11 | 3.29 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 11 | 3.29 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 11 | 3.29 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 9 | 3.29 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 3 | 3.29 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 3 | 3.29 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 3 | 3.29 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 3 | 3.29 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 3 | 3.29 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 3 | 3.29 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 3 | 3.29 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 3 | 3.29 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 3 | 3.29 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 14 | 3.29 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 14 | 3.29 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 14 | 3.29 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 20 | 3.29 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 20 | 3.29 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 20 | 3.29 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 20 | 3.29 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 20 | 3.29 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 20 | 3.29 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 20 | 3.29 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 20 | 3.29 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 20 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 13 | 3.29 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 19 | 3.29 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 19 | 3.29 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 19 | 3.29 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 5 | 3.29 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 2 | 3.29 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 19 | 3.29 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 19 | 3.29 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 19 | 3.29 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 19 | 3.29 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 1 | 3.29 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 1 | 3.29 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 1 | 3.29 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 1 | 3.29 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 1 | 3.29 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 1 | 3.29 |
| (1,7767) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 3 | 3.29 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 2 | 3.29 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 9 | 3.29 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 9 | 3.29 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 9 | 3.29 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 9 | 3.29 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 13 | 3.29 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 13 | 3.29 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 13 | 3.29 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 13 | 3.29 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 13 | 3.29 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 13 | 3.29 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 13 | 3.29 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 13 | 3.29 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 13 | 3.29 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 4 | 3.29 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 18 | 3.29 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 1 | 3.29 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 1 | 3.29 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 15 | 3.29 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 13 | 3.29 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 10 | 3.29 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 10 | 3.29 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 10 | 3.29 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 10 | 3.29 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 14 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 14 | 3.29 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 14 | 3.29 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 14 | 3.29 |
| (1,6693) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 3.29 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 3 | 3.29 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 7 | 3.29 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 17 | 3.29 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 19 | 3.29 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 19 | 3.29 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 19 | 3.29 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 14 | 3.29 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 15 | 3.29 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 9 | 3.29 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 5 | 3.29 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 5 | 3.29 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 5 | 3.29 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 10 | 3.29 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 2 | 3.29 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 2 | 3.29 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 2 | 3.29 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 2 | 3.29 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 2 | 3.29 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 2 | 3.29 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 2 | 3.29 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 2 | 3.29 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 2 | 3.29 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 9 | 3.29 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 4 | 3.29 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 4 | 3.29 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 4 | 3.29 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 8 | 3.29 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 16 | 3.29 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 1 | 3.29 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 1 | 3.29 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 10 | 3.29 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 13 | 3.29 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 6 | 3.29 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 6 | 3.29 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 6 | 3.29 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 9 | 3.29 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 14 | 3.29 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 20 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 20 | 3.29 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 20 | 3.29 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 13 | 3.29 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 10 | 3.29 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 10 | 3.29 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 10 | 3.29 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 12 | 3.29 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 12 | 3.29 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 12 | 3.29 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 9 | 3.29 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 9 | 3.29 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 9 | 3.29 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 14 | 3.29 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 14 | 3.29 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 14 | 3.29 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 5 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 9 | 3.29 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 9 | 3.29 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 5 | 3.29 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 5 | 3.29 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 5 | 3.29 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 11 | 3.29 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 11 | 3.29 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 11 | 3.29 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 11 | 3.29 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 2 | 3.29 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 2 | 3.29 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 2 | 3.29 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 2 | 3.29 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 2 | 3.29 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 2 | 3.29 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 2 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 2 | 3.29 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 2 | 3.29 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 2 | 3.29 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 2 | 3.29 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 2 | 3.29 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 9 | 3.29 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 10 | 3.29 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 6 | 3.29 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 6 | 3.29 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 6 | 3.29 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 11 | 3.29 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 8 | 3.29 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 8 | 3.29 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 8 | 3.29 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 11 | 3.29 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 20 | 3.29 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 1 | 3.29 |
| (1,4976) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 11 | 3.29 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 2 | 3.29 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 1 | 3.29 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 1 | 3.29 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 1 | 3.29 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 1 | 3.29 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 1 | 3.29 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 1 | 3.29 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 1 | 3.29 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 1 | 3.29 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 1 | 3.29 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 11 | 3.29 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 11 | 3.29 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 11 | 3.29 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 9 | 3.29 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 2 | 3.29 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 5 | 3.29 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 5 | 3.29 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 5 | 3.29 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 10 | 3.29 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 18 | 3.29 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 18 | 3.29 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 19 | 3.29 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 2 | 3.29 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 1 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 1 | 3.29 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 7 | 3.29 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 7 | 3.29 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 7 | 3.29 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 9 | 3.29 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 9 | 3.29 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 14 | 3.29 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 14 | 3.29 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 16 | 3.29 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 16 | 3.29 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 11 | 3.29 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 11 | 3.29 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 11 | 3.29 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 11 | 3.29 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 11 | 3.29 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 11 | 3.29 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 3 | 3.29 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 14 | 3.29 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 14 | 3.29 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 13 | 3.29 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 13 | 3.29 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 13 | 3.29 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 13 | 3.29 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 19 | 3.29 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 19 | 3.29 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 12 | 3.29 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 2 | 3.29 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 2 | 3.29 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 7 | 3.29 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 7 | 3.29 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 3.29 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 16 | 3.29 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 18 | 3.29 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 18 | 3.29 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 18 | 3.29 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 9 | 3.29 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 17 | 3.29 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 7 | 3.29 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 7 | 3.29 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 7 | 3.29 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 7 | 3.29 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 7 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 7 | 3.29 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 3 | 3.29 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 3 | 3.29 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 7 | 3.29 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 7 | 3.29 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 7 | 3.29 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 7 | 3.29 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 7 | 3.29 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 7 | 3.29 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 12 | 3.29 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 12 | 3.29 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 12 | 3.29 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 18 | 3.29 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 18 | 3.29 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 18 | 3.29 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 12 | 3.29 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 12 | 3.29 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 12 | 3.29 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 12 | 3.29 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 1 | 3.29 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 1 | 3.29 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 1 | 3.29 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 14 | 3.29 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 11 | 3.29 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 11 | 3.29 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 16 | 3.29 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 12 | 3.29 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 12 | 3.29 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 12 | 3.29 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 12 | 3.29 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 12 | 3.29 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 12 | 3.29 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 3 | 3.29 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 3 | 3.29 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 2 | 3.29 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 2 | 3.29 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 2 | 3.29 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 2 | 3.29 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 2 | 3.29 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 2 | 3.29 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 8 | 3.29 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 8 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 8 | 3.29 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 5 | 3.29 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 4 | 3.29 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 4 | 3.29 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 4 | 3.29 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 19 | 3.29 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 10 | 3.29 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 10 | 3.29 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 10 | 3.29 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 10 | 3.29 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 10 | 3.29 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 10 | 3.29 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 3 | 3.29 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 8 | 3.29 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 8 | 3.29 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 20 | 3.29 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 20 | 3.29 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 2 | 3.29 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 2 | 3.29 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 13 | 3.29 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 13 | 3.29 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 13 | 3.29 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 13 | 3.29 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 13 | 3.29 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 13 | 3.29 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 13 | 3.29 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 13 | 3.29 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 13 | 3.29 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 6 | 3.29 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 3 | 3.29 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 3 | 3.29 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 3 | 3.29 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 17 | 3.29 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 17 | 3.29 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 20 | 3.29 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 4 | 3.29 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 18 | 3.29 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 1 | 3.29 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 8 | 3.29 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 8 | 3.29 |
| (1,3154) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 8 | 3.29 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 20 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3026) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 19 | 3.29 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 3 | 3.29 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 1 | 3.29 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 1 | 3.29 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 15 | 3.29 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 13 | 3.29 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 10 | 3.29 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 10 | 3.29 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 10 | 3.29 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 10 | 3.29 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 16 | 3.29 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 16 | 3.29 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 16 | 3.29 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 16 | 3.29 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 16 | 3.29 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 16 | 3.29 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 16 | 3.29 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 16 | 3.29 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 16 | 3.29 |
| (1,2650) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 5 | 3.29 |
| (1,2596) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 3.29 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 15 | 3.29 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 3 | 3.29 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 7 | 3.29 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 17 | 3.29 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 19 | 3.29 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 19 | 3.29 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 19 | 3.29 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 14 | 3.29 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 1 | 3.29 |
| (1,2316) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 8 | 3.29 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 15 | 3.29 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 3 | 3.29 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 3 | 3.29 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 3 | 3.29 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 2 | 3.29 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 14 | 3.29 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 9 | 3.29 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 14 | 3.29 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 10 | 3.29 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 5 | 3.29 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 5 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 5 | 3.29 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 17 | 3.29 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 3.29 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 3.29 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 3.29 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 10 | 3.29 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 2 | 3.29 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 2 | 3.29 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 2 | 3.29 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 2 | 3.29 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 2 | 3.29 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 2 | 3.29 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 2 | 3.29 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 2 | 3.29 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 2 | 3.29 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 9 | 3.29 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 9 | 3.29 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 9 | 3.29 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 10 | 3.29 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 10 | 3.29 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 10 | 3.29 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 9 | 3.29 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 2 | 3.29 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 2 | 3.29 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 2 | 3.29 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 18 | 3.29 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 18 | 3.29 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 18 | 3.29 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 4 | 3.29 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 4 | 3.29 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 4 | 3.29 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 8 | 3.29 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 20 | 3.29 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 7 | 3.29 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 7 | 3.29 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 7 | 3.29 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 16 | 3.29 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 1 | 3.29 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 1 | 3.29 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 10 | 3.29 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 13 | 3.29 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 6 | 3.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 6 | 3.29 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 6 | 3.29 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 8 | 3.29 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 17 | 3.29 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 3 | 3.29 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 9 | 3.29 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 14 | 3.29 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 20 | 3.29 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 20 | 3.29 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 20 | 3.29 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 8 | 3.29 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 13 | 3.29 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 4 | 3.29 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 19 | 3.29 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 19 | 3.29 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 10 | 3.29 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 10 | 3.29 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 10 | 3.29 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 9 | 3.29 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 6 | 3.29 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 12 | 3.29 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 12 | 3.29 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 12 | 3.29 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 9 | 3.29 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 9 | 3.29 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 9 | 3.29 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 14 | 3.29 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 14 | 3.29 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 14 | 3.29 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 5 | 3.29 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 16 | 3.29 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 6 | 3.29 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 11 | 3.28 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 1 | 3.28 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 1 | 3.28 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 1 | 3.28 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 3 | 3.28 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 3 | 3.28 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 7 | 3.28 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 7 | 3.28 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 1 | 3.28 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 1 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 7 | 3.28 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 7 | 3.28 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 7 | 3.28 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 7 | 3.28 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 7 | 3.28 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 7 | 3.28 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 7 | 3.28 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 7 | 3.28 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 7 | 3.28 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 7 | 3.28 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 18 | 3.28 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 18 | 3.28 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 6 | 3.28 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 6 | 3.28 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 6 | 3.28 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 6 | 3.28 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 6 | 3.28 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 6 | 3.28 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 18 | 3.28 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 18 | 3.28 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 12 | 3.28 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 12 | 3.28 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 12 | 3.28 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 12 | 3.28 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 12 | 3.28 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 12 | 3.28 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 1 | 3.28 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 1 | 3.28 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 3 | 3.28 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 3 | 3.28 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 3 | 3.28 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 3 | 3.28 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 3 | 3.28 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 3 | 3.28 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 7 | 3.28 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 7 | 3.28 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 7 | 3.28 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 7 | 3.28 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 8 | 3.28 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 8 | 3.28 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 8 | 3.28 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 8 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 2 | 3.28 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 2 | 3.28 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 2 | 3.28 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 2 | 3.28 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 2 | 3.28 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 2 | 3.28 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 14 | 3.28 |
| (1,8799) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 14 | 3.28 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 14 | 3.28 |
| (1,8799) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 14 | 3.28 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 12 | 3.28 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 12 | 3.28 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 10 | 3.28 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 10 | 3.28 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 10 | 3.28 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 10 | 3.28 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 10 | 3.28 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 10 | 3.28 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 13 | 3.28 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 13 | 3.28 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 13 | 3.28 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 13 | 3.28 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 18 | 3.28 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 18 | 3.28 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 12 | 3.28 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 12 | 3.28 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 5 | 3.28 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 5 | 3.28 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 11 | 3.28 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 11 | 3.28 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 7 | 3.28 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 7 | 3.28 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 19 | 3.28 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 19 | 3.28 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 3 | 3.28 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 8 | 3.28 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 8 | 3.28 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 8 | 3.28 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 16 | 3.28 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 16 | 3.28 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 16 | 3.28 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 10 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 18 | 3.28 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 18 | 3.28 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 10 | 3.28 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 19 | 3.28 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 19 | 3.28 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 7 | 3.28 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 7 | 3.28 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 1 | 3.28 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 4 | 3.28 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 14 | 3.28 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 19 | 3.28 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 2 | 3.28 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 2 | 3.28 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 2 | 3.28 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 2 | 3.28 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 2 | 3.28 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 2 | 3.28 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 3 | 3.28 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 3 | 3.28 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 3 | 3.28 |
| (1,7660) | 1:33:A:GLN:H | 1:35:A:GLU:H | 18 | 3.28 |
| (1,7656) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB3 | 9 | 3.28 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 19 | 3.28 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 19 | 3.28 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 8 | 3.28 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 8 | 3.28 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 8 | 3.28 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 2 | 3.28 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 2 | 3.28 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 4 | 3.28 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 4 | 3.28 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 15 | 3.28 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 15 | 3.28 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 15 | 3.28 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 2 | 3.28 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 2 | 3.28 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 12 | 3.28 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 12 | 3.28 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 14 | 3.28 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 17 | 3.28 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 6 | 3.28 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 11 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 15 | 3.28 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 15 | 3.28 |
| (1,6872) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 15 | 3.28 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 9 | 3.28 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 1 | 3.28 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 3 | 3.28 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 3 | 3.28 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 3 | 3.28 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 15 | 3.28 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 15 | 3.28 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 15 | 3.28 |
| (1,6820) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 14 | 3.28 |
| (1,6796) | 1:14:A:ARG:H | 1:25:A:PHE:H | 14 | 3.28 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 9 | 3.28 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 9 | 3.28 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 9 | 3.28 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 16 | 3.28 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 16 | 3.28 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 16 | 3.28 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 19 | 3.28 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 19 | 3.28 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 19 | 3.28 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 19 | 3.28 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 19 | 3.28 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 4 | 3.28 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 11 | 3.28 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 11 | 3.28 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 11 | 3.28 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 11 | 3.28 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 19 | 3.28 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 14 | 3.28 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 3 | 3.28 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 3 | 3.28 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 3 | 3.28 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 15 | 3.28 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 15 | 3.28 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 13 | 3.28 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 13 | 3.28 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 13 | 3.28 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 15 | 3.28 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 15 | 3.28 |
| (1,6279) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 15 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 6 | 3.28 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 6 | 3.28 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 6 | 3.28 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 6 | 3.28 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 6 | 3.28 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 6 | 3.28 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 9 | 3.28 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 9 | 3.28 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 9 | 3.28 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 9 | 3.28 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 9 | 3.28 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 9 | 3.28 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 9 | 3.28 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 9 | 3.28 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 9 | 3.28 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 18 | 3.28 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 18 | 3.28 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 18 | 3.28 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 6 | 3.28 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 6 | 3.28 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 6 | 3.28 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 6 | 3.28 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 6 | 3.28 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 6 | 3.28 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 5 | 3.28 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 8 | 3.28 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 8 | 3.28 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 8 | 3.28 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 8 | 3.28 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 8 | 3.28 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 8 | 3.28 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 8 | 3.28 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 7 | 3.28 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 13 | 3.28 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 13 | 3.28 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 13 | 3.28 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 18 | 3.28 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 15 | 3.28 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 15 | 3.28 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 15 | 3.28 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 1 | 3.28 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 4 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 11 | 3.28 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 1 | 3.28 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 1 | 3.28 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 1 | 3.28 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 8 | 3.28 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 13 | 3.28 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 19 | 3.28 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 3 | 3.28 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 3 | 3.28 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 2 | 3.28 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 2 | 3.28 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 15 | 3.28 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 15 | 3.28 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 5 | 3.28 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 8 | 3.28 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 8 | 3.28 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 8 | 3.28 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 19 | 3.28 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 19 | 3.28 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 19 | 3.28 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 15 | 3.28 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 15 | 3.28 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 15 | 3.28 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 1 | 3.28 |
| (1,5452) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 19 | 3.28 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 11 | 3.28 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 11 | 3.28 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 11 | 3.28 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 12 | 3.28 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 11 | 3.28 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 11 | 3.28 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 11 | 3.28 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 11 | 3.28 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 11 | 3.28 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 11 | 3.28 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 11 | 3.28 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 11 | 3.28 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 11 | 3.28 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 12 | 3.28 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 12 | 3.28 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 12 | 3.28 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 4 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 4 | 3.28 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 4 | 3.28 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 17 | 3.28 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 17 | 3.28 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 17 | 3.28 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 6 | 3.28 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 6 | 3.28 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 6 | 3.28 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 15 | 3.28 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 2 | 3.28 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 20 | 3.28 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 11 | 3.28 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 6 | 3.28 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 6 | 3.28 |
| (1,5104) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 6 | 3.28 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 9 | 3.28 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 9 | 3.28 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 9 | 3.28 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 8 | 3.28 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 10 | 3.28 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 1 | 3.28 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 1 | 3.28 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 1 | 3.28 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 17 | 3.28 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 17 | 3.28 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 17 | 3.28 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 6 | 3.28 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 6 | 3.28 |
| (1,4878) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 6 | 3.28 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 6 | 3.28 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 6 | 3.28 |
| (1,4878) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 6 | 3.28 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 6 | 3.28 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 6 | 3.28 |
| (1,4878) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 6 | 3.28 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 8 | 3.28 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 8 | 3.28 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 8 | 3.28 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 9 | 3.28 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 20 | 3.28 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 2 | 3.28 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 3.28 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 3.28 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 20 | 3.28 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 20 | 3.28 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 20 | 3.28 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 19 | 3.28 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 19 | 3.28 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 5 | 3.28 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 17 | 3.28 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 17 | 3.28 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 20 | 3.28 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 20 | 3.28 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 10 | 3.28 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 4 | 3.28 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 4 | 3.28 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 1 | 3.28 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 1 | 3.28 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 15 | 3.28 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 1 | 3.28 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 1 | 3.28 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 7 | 3.28 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 7 | 3.28 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 7 | 3.28 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 7 | 3.28 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 17 | 3.28 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 17 | 3.28 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 16 | 3.28 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 16 | 3.28 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 1 | 3.28 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 1 | 3.28 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 8 | 3.28 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 8 | 3.28 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 8 | 3.28 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 7 | 3.28 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 7 | 3.28 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 7 | 3.28 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 7 | 3.28 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 5 | 3.28 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 7 | 3.28 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 7 | 3.28 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 7 | 3.28 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 7 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 7 | 3.28 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 7 | 3.28 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 1 | 3.28 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 2 | 3.28 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 2 | 3.28 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 18 | 3.28 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 18 | 3.28 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 20 | 3.28 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 20 | 3.28 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 20 | 3.28 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 20 | 3.28 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 20 | 3.28 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 20 | 3.28 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 8 | 3.28 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 18 | 3.28 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 6 | 3.28 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 6 | 3.28 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 6 | 3.28 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 6 | 3.28 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 6 | 3.28 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 6 | 3.28 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 18 | 3.28 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 18 | 3.28 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 5 | 3.28 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 7 | 3.28 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 7 | 3.28 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 1 | 3.28 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 1 | 3.28 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 2 | 3.28 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 2 | 3.28 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 12 | 3.28 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 12 | 3.28 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 3 | 3.28 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 3 | 3.28 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 3 | 3.28 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 3 | 3.28 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 3 | 3.28 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 3 | 3.28 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 4 | 3.28 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 4 | 3.28 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 1 | 3.28 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 1 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 1 | 3.28 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 1 | 3.28 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 1 | 3.28 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 1 | 3.28 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 14 | 3.28 |
| (1,3764) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 14 | 3.28 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 14 | 3.28 |
| (1,3764) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 14 | 3.28 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 12 | 3.28 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 12 | 3.28 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 18 | 3.28 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 18 | 3.28 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 18 | 3.28 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 18 | 3.28 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 18 | 3.28 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 18 | 3.28 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 2 | 3.28 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 2 | 3.28 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 9 | 3.28 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 9 | 3.28 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 14 | 3.28 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 14 | 3.28 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 16 | 3.28 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 16 | 3.28 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 12 | 3.28 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 12 | 3.28 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 4 | 3.28 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 11 | 3.28 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 11 | 3.28 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 7 | 3.28 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 7 | 3.28 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 14 | 3.28 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 3.28 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 14 | 3.28 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 14 | 3.28 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 3.28 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 14 | 3.28 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 1 | 3.28 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 1 | 3.28 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 1 | 3.28 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 1 | 3.28 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 1 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 1 | 3.28 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 19 | 3.28 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 19 | 3.28 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 9 | 3.28 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 10 | 3.28 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 13 | 3.28 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 4 | 3.28 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 4 | 3.28 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 15 | 3.28 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 15 | 3.28 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 15 | 3.28 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 16 | 3.28 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 19 | 3.28 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 2 | 3.28 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 2 | 3.28 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 12 | 3.28 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 12 | 3.28 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 14 | 3.28 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 7 | 3.28 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 17 | 3.28 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 11 | 3.28 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 15 | 3.28 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 15 | 3.28 |
| (1,2866) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 15 | 3.28 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 9 | 3.28 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 1 | 3.28 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 3 | 3.28 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 3 | 3.28 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 3 | 3.28 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 15 | 3.28 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 15 | 3.28 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 15 | 3.28 |
| (1,2804) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 14 | 3.28 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 12 | 3.28 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 12 | 3.28 |
| (1,2772) | 1:14:A:ARG:H | 1:25:A:PHE:H | 14 | 3.28 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 18 | 3.28 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 18 | 3.28 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 9 | 3.28 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 9 | 3.28 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 9 | 3.28 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 16 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 16 | 3.28 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 16 | 3.28 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 19 | 3.28 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 19 | 3.28 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 19 | 3.28 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 4 | 3.28 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 4 | 3.28 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 4 | 3.28 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 19 | 3.28 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 19 | 3.28 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 4 | 3.28 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 11 | 3.28 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 11 | 3.28 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 11 | 3.28 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 11 | 3.28 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 1 | 3.28 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 19 | 3.28 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 14 | 3.28 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 17 | 3.28 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 16 | 3.28 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 3 | 3.28 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 3 | 3.28 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 3 | 3.28 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 3 | 3.28 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 7 | 3.28 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 7 | 3.28 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 7 | 3.28 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 7 | 3.28 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 7 | 3.28 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 7 | 3.28 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 7 | 3.28 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 7 | 3.28 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 7 | 3.28 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 15 | 3.28 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 15 | 3.28 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 15 | 3.28 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 15 | 3.28 |
| (1,1946) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 15 | 3.28 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 12 | 3.28 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 12 | 3.28 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 12 | 3.28 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 12 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 12 | 3.28 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 12 | 3.28 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 4 | 3.28 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 4 | 3.28 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 4 | 3.28 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 4 | 3.28 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 4 | 3.28 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 4 | 3.28 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 6 | 3.28 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 6 | 3.28 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 6 | 3.28 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 6 | 3.28 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 6 | 3.28 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 6 | 3.28 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 9 | 3.28 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 9 | 3.28 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 9 | 3.28 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 9 | 3.28 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 9 | 3.28 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 9 | 3.28 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 9 | 3.28 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 9 | 3.28 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 9 | 3.28 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 15 | 3.28 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 6 | 3.28 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 6 | 3.28 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 6 | 3.28 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 6 | 3.28 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 6 | 3.28 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 6 | 3.28 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 2 | 3.28 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 2 | 3.28 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 2 | 3.28 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 5 | 3.28 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 8 | 3.28 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 7 | 3.28 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 19 | 3.28 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 8 | 3.28 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 8 | 3.28 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 8 | 3.28 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 8 | 3.28 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 8 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 8 | 3.28 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 7 | 3.28 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 13 | 3.28 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 13 | 3.28 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 13 | 3.28 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 18 | 3.28 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 15 | 3.28 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 15 | 3.28 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 15 | 3.28 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 1 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 3 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 3 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 3 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 12 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 12 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 12 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 13 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 13 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 13 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 15 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 15 | 3.28 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 15 | 3.28 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 4 | 3.28 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 11 | 3.28 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 1 | 3.28 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 1 | 3.28 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 8 | 3.28 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 19 | 3.28 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 19 | 3.28 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 19 | 3.28 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 19 | 3.28 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 19 | 3.28 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 19 | 3.28 |
| (1,1084) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 6 | 3.28 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 1 | 3.28 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 8 | 3.28 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 13 | 3.28 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 19 | 3.28 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 3 | 3.28 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 3 | 3.28 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 2 | 3.28 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 2 | 3.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 2 | 3.28 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 15 | 3.28 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 15 | 3.28 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 8 | 3.28 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 11 | 3.28 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 11 | 3.28 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 11 | 3.28 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 18 | 3.28 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 5 | 3.28 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 1 | 3.28 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 1 | 3.28 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 2 | 3.28 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 18 | 3.28 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 3 | 3.28 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 8 | 3.28 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 8 | 3.28 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 8 | 3.28 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 8 | 3.28 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 8 | 3.28 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 8 | 3.28 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 19 | 3.28 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 19 | 3.28 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 19 | 3.28 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 15 | 3.28 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 15 | 3.28 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 15 | 3.28 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 1 | 3.28 |
| (1,550) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 19 | 3.28 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 9 | 3.28 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 8 | 3.28 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 8 | 3.28 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 8 | 3.28 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 6 | 3.28 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 16 | 3.28 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 3 | 3.28 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 18 | 3.28 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 3 | 3.28 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 3 | 3.28 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 3 | 3.28 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 12 | 3.27 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 8 | 3.27 |
| (4,226) | 1:15:A:MET:CB | 1:83:A:GLU:H | 18 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 9 | 3.27 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 19 | 3.27 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 19 | 3.27 |
| (4,135) | 1:90:A:ASN:CB | 1:44:A:GLY:H | 12 | 3.27 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 8 | 3.27 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 8 | 3.27 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 8 | 3.27 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 13 | 3.27 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 13 | 3.27 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 2 | 3.27 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 2 | 3.27 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 3.27 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 3.27 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 3.27 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 3.27 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 3.27 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 3.27 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 9 | 3.27 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 9 | 3.27 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 14 | 3.27 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 14 | 3.27 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 14 | 3.27 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 14 | 3.27 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 14 | 3.27 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 14 | 3.27 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 19 | 3.27 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 19 | 3.27 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 19 | 3.27 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 19 | 3.27 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 10 | 3.27 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 10 | 3.27 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 10 | 3.27 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 10 | 3.27 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 10 | 3.27 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 10 | 3.27 |
| (1,9120) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 15 | 3.27 |
| (1,9120) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 15 | 3.27 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 19 | 3.27 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 19 | 3.27 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 19 | 3.27 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 19 | 3.27 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 18 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 18 | 3.27 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 18 | 3.27 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 18 | 3.27 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 18 | 3.27 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 18 | 3.27 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 12 | 3.27 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 12 | 3.27 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 3 | 3.27 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 3 | 3.27 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 3 | 3.27 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 3 | 3.27 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 9 | 3.27 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 9 | 3.27 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 9 | 3.27 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 9 | 3.27 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 3 | 3.27 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 3 | 3.27 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 8 | 3.27 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 8 | 3.27 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 15 | 3.27 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 15 | 3.27 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 3.27 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 3.27 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 4 | 3.27 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 4 | 3.27 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 4 | 3.27 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 4 | 3.27 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 2 | 3.27 |
| (1,8550) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 2 | 3.27 |
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 2 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8550) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 2 | 3.27 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 4 | 3.27 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 4 | 3.27 |
| (1,8482) | 1:153:A:ASP:HB2 | 1:154:A:SER:HB3 | 15 | 3.27 |
| (1,8482) | 1:153:A:ASP:HB3 | 1:154:A:SER:HB3 | 15 | 3.27 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 15 | 3.27 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 6 | 3.27 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 6 | 3.27 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 6 | 3.27 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 6 | 3.27 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 6 | 3.27 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 6 | 3.27 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 11 | 3.27 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 11 | 3.27 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 14 | 3.27 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 16 | 3.27 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 10 | 3.27 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 10 | 3.27 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 10 | 3.27 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 10 | 3.27 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 10 | 3.27 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 10 | 3.27 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 10 | 3.27 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 10 | 3.27 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 10 | 3.27 |
| (1,8020) | 1:85:A:ALA:HA | 1:87:A:GLU:H | 9 | 3.27 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 8 | 3.27 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 8 | 3.27 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 8 | 3.27 |
| (1,7828) | 1:60:A:LEU:HD21 | 1:110:A:PHE:H | 2 | 3.27 |
| (1,7828) | 1:60:A:LEU:HD22 | 1:110:A:PHE:H | 2 | 3.27 |
| (1,7828) | 1:60:A:LEU:HD23 | 1:110:A:PHE:H | 2 | 3.27 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 7 | 3.27 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 7 | 3.27 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 7 | 3.27 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 7 | 3.27 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 7 | 3.27 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 7 | 3.27 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 7 | 3.27 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 7 | 3.27 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 7 | 3.27 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 14 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 7 | 3.27 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 7 | 3.27 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 7 | 3.27 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 6 | 3.27 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 6 | 3.27 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 6 | 3.27 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 16 | 3.27 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 16 | 3.27 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 16 | 3.27 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 2 | 3.27 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 2 | 3.27 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 2 | 3.27 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 8 | 3.27 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 8 | 3.27 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 8 | 3.27 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 4 | 3.27 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 4 | 3.27 |
| (1,7589) | 1:25:A:PHE:HD1 | 1:27:A:HIS:H | 20 | 3.27 |
| (1,7589) | 1:25:A:PHE:HD2 | 1:27:A:HIS:H | 20 | 3.27 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 19 | 3.27 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 19 | 3.27 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 19 | 3.27 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 9 | 3.27 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 9 | 3.27 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 9 | 3.27 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 18 | 3.27 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 18 | 3.27 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 11 | 3.27 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 10 | 3.27 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 1 | 3.27 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 18 | 3.27 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 18 | 3.27 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 18 | 3.27 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 18 | 3.27 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 1 | 3.27 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 1 | 3.27 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 8 | 3.27 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 8 | 3.27 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 8 | 3.27 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 8 | 3.27 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 8 | 3.27 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 8 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 8 | 3.27 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 8 | 3.27 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 8 | 3.27 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 7 | 3.27 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 7 | 3.27 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 19 | 3.27 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 1 | 3.27 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 1 | 3.27 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 1 | 3.27 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 5 | 3.27 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 5 | 3.27 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 5 | 3.27 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 10 | 3.27 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 17 | 3.27 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 3 | 3.27 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 3 | 3.27 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 3 | 3.27 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 14 | 3.27 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 11 | 3.27 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 6 | 3.27 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 12 | 3.27 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 12 | 3.27 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 12 | 3.27 |
| (1,6812) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 4 | 3.27 |
| (1,6812) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 4 | 3.27 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 16 | 3.27 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 16 | 3.27 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 13 | 3.27 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 13 | 3.27 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 13 | 3.27 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 6 | 3.27 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 8 | 3.27 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 16 | 3.27 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 8 | 3.27 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 8 | 3.27 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 8 | 3.27 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 4 | 3.27 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 4 | 3.27 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 4 | 3.27 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 15 | 3.27 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 15 | 3.27 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 15 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 15 | 3.27 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 15 | 3.27 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 15 | 3.27 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 15 | 3.27 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 15 | 3.27 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 15 | 3.27 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 6 | 3.27 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 6 | 3.27 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 6 | 3.27 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 12 | 3.27 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 12 | 3.27 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 12 | 3.27 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 9 | 3.27 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 18 | 3.27 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 18 | 3.27 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 20 | 3.27 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 20 | 3.27 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 20 | 3.27 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 20 | 3.27 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 20 | 3.27 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 20 | 3.27 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 20 | 3.27 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 20 | 3.27 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 20 | 3.27 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 15 | 3.27 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 15 | 3.27 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 9 | 3.27 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 9 | 3.27 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 9 | 3.27 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 15 | 3.27 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 11 | 3.27 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 3 | 3.27 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 3 | 3.27 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 6 | 3.27 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 7 | 3.27 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 12 | 3.27 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 20 | 3.27 |
| (1,5740) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 4 | 3.27 |
| (1,5740) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 4 | 3.27 |
| (1,5740) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 4 | 3.27 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 12 | 3.27 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 4 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 9 | 3.27 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 9 | 3.27 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 9 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 1 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 11 | 3.27 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 11 | 3.27 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 6 | 3.27 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 9 | 3.27 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 14 | 3.27 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 14 | 3.27 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 14 | 3.27 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 14 | 3.27 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 14 | 3.27 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 14 | 3.27 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 7 | 3.27 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 12 | 3.27 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 12 | 3.27 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 20 | 3.27 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 20 | 3.27 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 20 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 1 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 1 | 3.27 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 1 | 3.27 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 2 | 3.27 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 20 | 3.27 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 20 | 3.27 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 20 | 3.27 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 11 | 3.27 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 11 | 3.27 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 11 | 3.27 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 8 | 3.27 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 19 | 3.27 |
| (1,5240) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 17 | 3.27 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 8 | 3.27 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 8 | 3.27 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 8 | 3.27 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 20 | 3.27 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 20 | 3.27 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 20 | 3.27 |
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 11 | 3.27 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 4 | 3.27 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 4 | 3.27 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 4 | 3.27 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 4 | 3.27 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 18 | 3.27 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 18 | 3.27 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 18 | 3.27 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 16 | 3.27 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 16 | 3.27 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 8 | 3.27 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 8 | 3.27 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 8 | 3.27 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 9 | 3.27 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 9 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 9 | 3.27 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 15 | 3.27 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 15 | 3.27 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 13 | 3.27 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 13 | 3.27 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 3.27 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 3.27 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 3.27 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 3.27 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 3.27 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 3.27 |
| (1,4484) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 7 | 3.27 |
| (1,4484) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 7 | 3.27 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 14 | 3.27 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 14 | 3.27 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 14 | 3.27 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 13 | 3.27 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 7 | 3.27 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 7 | 3.27 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 6 | 3.27 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 9 | 3.27 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 13 | 3.27 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 16 | 3.27 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 8 | 3.27 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 14 | 3.27 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 14 | 3.27 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 14 | 3.27 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 5 | 3.27 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 13 | 3.27 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 3.27 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 3.27 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 3.27 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 10 | 3.27 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 10 | 3.27 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 10 | 3.27 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 10 | 3.27 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 10 | 3.27 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 10 | 3.27 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 18 | 3.27 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 18 | 3.27 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 18 | 3.27 |
| (1,4082) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 15 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4082) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 15 | 3.27 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 1 | 3.27 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 16 | 3.27 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 16 | 3.27 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 16 | 3.27 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 16 | 3.27 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 16 | 3.27 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 16 | 3.27 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 18 | 3.27 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 18 | 3.27 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 18 | 3.27 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 18 | 3.27 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 18 | 3.27 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 18 | 3.27 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 7 | 3.27 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 7 | 3.27 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 7 | 3.27 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 7 | 3.27 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 13 | 3.27 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 13 | 3.27 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 3 | 3.27 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 3 | 3.27 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 3 | 3.27 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 3 | 3.27 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 9 | 3.27 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 9 | 3.27 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 9 | 3.27 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 9 | 3.27 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 8 | 3.27 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 3 | 3.27 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 3 | 3.27 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 8 | 3.27 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 8 | 3.27 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 15 | 3.27 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 15 | 3.27 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 16 | 3.27 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 16 | 3.27 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 15 | 3.27 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 15 | 3.27 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 3.27 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 3.27 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 8 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 8 | 3.27 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 8 | 3.27 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 8 | 3.27 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 8 | 3.27 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 8 | 3.27 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 8 | 3.27 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 8 | 3.27 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 8 | 3.27 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 19 | 3.27 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 1 | 3.27 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 1 | 3.27 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 1 | 3.27 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 5 | 3.27 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 5 | 3.27 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 5 | 3.27 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 13 | 3.27 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 10 | 3.27 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 17 | 3.27 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 6 | 3.27 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 16 | 3.27 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 16 | 3.27 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 16 | 3.27 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 14 | 3.27 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 9 | 3.27 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 5 | 3.27 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 6 | 3.27 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 11 | 3.27 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 6 | 3.27 |
| (1,2792) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 4 | 3.27 |
| (1,2792) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 4 | 3.27 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 16 | 3.27 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 16 | 3.27 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 13 | 3.27 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 13 | 3.27 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 13 | 3.27 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 6 | 3.27 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 6 | 3.27 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 6 | 3.27 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 6 | 3.27 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 8 | 3.27 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 15 | 3.27 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 16 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 8 | 3.27 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 8 | 3.27 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 8 | 3.27 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 4 | 3.27 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 4 | 3.27 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 4 | 3.27 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 19 | 3.27 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 10 | 3.27 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 6 | 3.27 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 6 | 3.27 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 6 | 3.27 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 17 | 3.27 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 17 | 3.27 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 17 | 3.27 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 7 | 3.27 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 7 | 3.27 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 7 | 3.27 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 15 | 3.27 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 15 | 3.27 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 15 | 3.27 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 15 | 3.27 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 15 | 3.27 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 15 | 3.27 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 15 | 3.27 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 15 | 3.27 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 15 | 3.27 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 6 | 3.27 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 6 | 3.27 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 6 | 3.27 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 12 | 3.27 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 12 | 3.27 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 12 | 3.27 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 9 | 3.27 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 13 | 3.27 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 13 | 3.27 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 13 | 3.27 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 18 | 3.27 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 18 | 3.27 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 2 | 3.27 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 11 | 3.27 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 20 | 3.27 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 20 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 20 | 3.27 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 20 | 3.27 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 20 | 3.27 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 20 | 3.27 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 20 | 3.27 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 20 | 3.27 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 20 | 3.27 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 5 | 3.27 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 5 | 3.27 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 5 | 3.27 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 15 | 3.27 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 15 | 3.27 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 13 | 3.27 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 13 | 3.27 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 13 | 3.27 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 9 | 3.27 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 9 | 3.27 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 9 | 3.27 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 20 | 3.27 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 20 | 3.27 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 20 | 3.27 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 20 | 3.27 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 20 | 3.27 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 20 | 3.27 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 20 | 3.27 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 20 | 3.27 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 2 | 3.27 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 15 | 3.27 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 11 | 3.27 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 3 | 3.27 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 3 | 3.27 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 5 | 3.27 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 6 | 3.27 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 7 | 3.27 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 12 | 3.27 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 20 | 3.27 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 1 | 3.27 |
| (1,1032) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 4 | 3.27 |
| (1,1032) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 4 | 3.27 |
| (1,1032) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 4 | 3.27 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 12 | 3.27 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 4 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 9 | 3.27 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 9 | 3.27 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 9 | 3.27 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 12 | 3.27 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 12 | 3.27 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 12 | 3.27 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 7 | 3.27 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 7 | 3.27 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 7 | 3.27 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 6 | 3.27 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 9 | 3.27 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 3 | 3.27 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 5 | 3.27 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 17 | 3.27 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 14 | 3.27 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 14 | 3.27 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 14 | 3.27 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 14 | 3.27 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 14 | 3.27 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 14 | 3.27 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 7 | 3.27 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 12 | 3.27 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 12 | 3.27 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 12 | 3.27 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 11 | 3.27 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 3 | 3.27 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 3 | 3.27 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 3 | 3.27 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 20 | 3.27 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 20 | 3.27 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 20 | 3.27 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 13 | 3.27 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 13 | 3.27 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 13 | 3.27 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 13 | 3.27 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 13 | 3.27 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 13 | 3.27 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 1 | 3.27 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 14 | 3.27 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 14 | 3.27 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 14 | 3.27 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 17 | 3.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 4 | 3.27 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 12 | 3.26 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 8 | 3.26 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 14 | 3.26 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 9 | 3.26 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 6 | 3.26 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 16 | 3.26 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 9 | 3.26 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 9 | 3.26 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 16 | 3.26 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 16 | 3.26 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 1 | 3.26 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 1 | 3.26 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 1 | 3.26 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 1 | 3.26 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 1 | 3.26 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 1 | 3.26 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 18 | 3.26 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 18 | 3.26 |
| (1,9443) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 18 | 3.26 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 18 | 3.26 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 18 | 3.26 |
| (1,9443) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 18 | 3.26 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 17 | 3.26 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 17 | 3.26 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 1 | 3.26 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 1 | 3.26 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 1 | 3.26 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 1 | 3.26 |
| (1,9115) | 1:87:A:GLU:HB2 | 1:88:A:LEU:HG | 17 | 3.26 |
| (1,9115) | 1:87:A:GLU:HB3 | 1:88:A:LEU:HG | 17 | 3.26 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 15 | 3.26 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 15 | 3.26 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 2 | 3.26 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 2 | 3.26 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 12 | 3.26 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 12 | 3.26 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 12 | 3.26 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 12 | 3.26 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 7 | 3.26 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 7 | 3.26 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 7 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 7 | 3.26 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 19 | 3.26 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 19 | 3.26 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 1 | 3.26 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 1 | 3.26 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 2 | 3.26 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 2 | 3.26 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 2 | 3.26 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 2 | 3.26 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 5 | 3.26 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 5 | 3.26 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 1 | 3.26 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 1 | 3.26 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 12 | 3.26 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 12 | 3.26 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 12 | 3.26 |
| (1,8448) | 1:146:A:MET:HG3 | 1:158:A:ILE:HB | 11 | 3.26 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 7 | 3.26 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 7 | 3.26 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 7 | 3.26 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 14 | 3.26 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 14 | 3.26 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 14 | 3.26 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 8 | 3.26 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 13 | 3.26 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 13 | 3.26 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 13 | 3.26 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 2 | 3.26 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 5 | 3.26 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 5 | 3.26 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 5 | 3.26 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 3 | 3.26 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 3 | 3.26 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 3 | 3.26 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 3 | 3.26 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 3 | 3.26 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 3 | 3.26 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 6 | 3.26 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 10 | 3.26 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 4 | 3.26 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 16 | 3.26 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 16 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 16 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 4 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 4 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 4 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 4 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 4 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 4 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 5 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 5 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 5 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 5 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 5 | 3.26 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 5 | 3.26 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 5 | 3.26 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 5 | 3.26 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 5 | 3.26 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 7 | 3.26 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 10 | 3.26 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 4 | 3.26 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 4 | 3.26 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 10 | 3.26 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 10 | 3.26 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 18 | 3.26 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 18 | 3.26 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 18 | 3.26 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 3 | 3.26 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 7 | 3.26 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 13 | 3.26 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 13 | 3.26 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 6 | 3.26 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 7 | 3.26 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 7 | 3.26 |
| (1,6579) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 1 | 3.26 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 9 | 3.26 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 9 | 3.26 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 9 | 3.26 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 10 | 3.26 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 19 | 3.26 |
| (1,6294) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 2 | 3.26 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 4 | 3.26 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 4 | 3.26 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 17 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 17 | 3.26 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 17 | 3.26 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 17 | 3.26 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 17 | 3.26 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 17 | 3.26 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 17 | 3.26 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 17 | 3.26 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 17 | 3.26 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 17 | 3.26 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 4 | 3.26 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 4 | 3.26 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 4 | 3.26 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 17 | 3.26 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 1 | 3.26 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 1 | 3.26 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 18 | 3.26 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 18 | 3.26 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 18 | 3.26 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 19 | 3.26 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 19 | 3.26 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 19 | 3.26 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 7 | 3.26 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 7 | 3.26 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 7 | 3.26 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 4 | 3.26 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 18 | 3.26 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 18 | 3.26 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 18 | 3.26 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 11 | 3.26 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 11 | 3.26 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 1 | 3.26 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 1 | 3.26 |
| (1,5790) | 1:115:A:SER:HA | 1:118:A:ALA:H | 15 | 3.26 |
| (1,5733) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 3.26 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 9 | 3.26 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 6 | 3.26 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 6 | 3.26 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 6 | 3.26 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 13 | 3.26 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 13 | 3.26 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 13 | 3.26 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 16 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 16 | 3.26 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 16 | 3.26 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 12 | 3.26 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 16 | 3.26 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 16 | 3.26 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 16 | 3.26 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 16 | 3.26 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 16 | 3.26 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 16 | 3.26 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 16 | 3.26 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 16 | 3.26 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 16 | 3.26 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 9 | 3.26 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 10 | 3.26 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 10 | 3.26 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 10 | 3.26 |
| (1,5238) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 5 | 3.26 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 4 | 3.26 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 4 | 3.26 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 4 | 3.26 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 4 | 3.26 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 4 | 3.26 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 4 | 3.26 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 4 | 3.26 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 4 | 3.26 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 4 | 3.26 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 10 | 3.26 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 10 | 3.26 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 10 | 3.26 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 2 | 3.26 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 1 | 3.26 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 4 | 3.26 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 4 | 3.26 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 4 | 3.26 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 4 | 3.26 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 4 | 3.26 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 4 | 3.26 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 3 | 3.26 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 3 | 3.26 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 3 | 3.26 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 4 | 3.26 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 4 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 4 | 3.26 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 1 | 3.26 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 1 | 3.26 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 1 | 3.26 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 16 | 3.26 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 16 | 3.26 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 16 | 3.26 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 19 | 3.26 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 19 | 3.26 |
| (1,4778) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 19 | 3.26 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 18 | 3.26 |
| (1,4744) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 4 | 3.26 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 3 | 3.26 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 13 | 3.26 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 13 | 3.26 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 9 | 3.26 |
| (1,4581) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 19 | 3.26 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 14 | 3.26 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 14 | 3.26 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 2 | 3.26 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 2 | 3.26 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 2 | 3.26 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 4 | 3.26 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 4 | 3.26 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 18 | 3.26 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 18 | 3.26 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 13 | 3.26 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 13 | 3.26 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 1 | 3.26 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 1 | 3.26 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 1 | 3.26 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 1 | 3.26 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 1 | 3.26 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 1 | 3.26 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 2 | 3.26 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 2 | 3.26 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 1 | 3.26 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 1 | 3.26 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 18 | 3.26 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 18 | 3.26 |
| (1,4428) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 18 | 3.26 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 18 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 18 | 3.26 |
| (1,4428) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 18 | 3.26 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 3 | 3.26 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 3 | 3.26 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 3 | 3.26 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 14 | 3.26 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 14 | 3.26 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 14 | 3.26 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 14 | 3.26 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 1 | 3.26 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 1 | 3.26 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 1 | 3.26 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 1 | 3.26 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 2 | 3.26 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 2 | 3.26 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 2 | 3.26 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 11 | 3.26 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 11 | 3.26 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 11 | 3.26 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 18 | 3.26 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 19 | 3.26 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 19 | 3.26 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 14 | 3.26 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 14 | 3.26 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 4 | 3.26 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 4 | 3.26 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 3 | 3.26 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 3 | 3.26 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 15 | 3.26 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 15 | 3.26 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 1 | 3.26 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 1 | 3.26 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 1 | 3.26 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 13 | 3.26 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 13 | 3.26 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 13 | 3.26 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 13 | 3.26 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 13 | 3.26 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 13 | 3.26 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 8 | 3.26 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 4 | 3.26 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 4 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3703) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 9 | 3.26 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 14 | 3.26 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 14 | 3.26 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 5 | 3.26 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 5 | 3.26 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 2 | 3.26 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 2 | 3.26 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 2 | 3.26 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 2 | 3.26 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 5 | 3.26 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 5 | 3.26 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 17 | 3.26 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 3 | 3.26 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 16 | 3.26 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 8 | 3.26 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 11 | 3.26 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 2 | 3.26 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 11 | 3.26 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 9 | 3.26 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 16 | 3.26 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 16 | 3.26 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 16 | 3.26 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 4 | 3.26 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 10 | 3.26 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 4 | 3.26 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 13 | 3.26 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 20 | 3.26 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 20 | 3.26 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 20 | 3.26 |
| (1,3141) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 13 | 3.26 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 19 | 3.26 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 4 | 3.26 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 10 | 3.26 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 10 | 3.26 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 12 | 3.26 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 12 | 3.26 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 3.26 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 18 | 3.26 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 18 | 3.26 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 18 | 3.26 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 3 | 3.26 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 7 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 13 | 3.26 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 13 | 3.26 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 6 | 3.26 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 7 | 3.26 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 12 | 3.26 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 7 | 3.26 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 7 | 3.26 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 9 | 3.26 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 9 | 3.26 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 9 | 3.26 |
| (1,2422) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 1 | 3.26 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 10 | 3.26 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 15 | 3.26 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 1 | 3.26 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 19 | 3.26 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 19 | 3.26 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 1 | 3.26 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 1 | 3.26 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 1 | 3.26 |
| (1,1966) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 2 | 3.26 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 5 | 3.26 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 5 | 3.26 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 5 | 3.26 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 4 | 3.26 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 4 | 3.26 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 17 | 3.26 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 17 | 3.26 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 17 | 3.26 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 17 | 3.26 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 17 | 3.26 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 17 | 3.26 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 17 | 3.26 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 17 | 3.26 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 17 | 3.26 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 17 | 3.26 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 3.26 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 3.26 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 3.26 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 17 | 3.26 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 1 | 3.26 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 1 | 3.26 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 18 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 18 | 3.26 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 18 | 3.26 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 19 | 3.26 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 19 | 3.26 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 19 | 3.26 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 7 | 3.26 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 7 | 3.26 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 7 | 3.26 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 11 | 3.26 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 15 | 3.26 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 15 | 3.26 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 15 | 3.26 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 18 | 3.26 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 18 | 3.26 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 18 | 3.26 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 11 | 3.26 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 4 | 3.26 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 6 | 3.26 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 7 | 3.26 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 7 | 3.26 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 7 | 3.26 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 19 | 3.26 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 19 | 3.26 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 19 | 3.26 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 1 | 3.26 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 18 | 3.26 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 11 | 3.26 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 11 | 3.26 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 1 | 3.26 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 1 | 3.26 |
| (1,1146) | 1:115:A:SER:HA | 1:118:A:ALA:H | 15 | 3.26 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 14 | 3.26 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 14 | 3.26 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 14 | 3.26 |
| (1,1018) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 3.26 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 9 | 3.26 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 8 | 3.26 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 8 | 3.26 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 8 | 3.26 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 1 | 3.26 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 6 | 3.26 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 5 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 5 | 3.26 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 15 | 3.26 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 20 | 3.26 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 9 | 3.26 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 6 | 3.26 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 6 | 3.26 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 6 | 3.26 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 6 | 3.26 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 6 | 3.26 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 6 | 3.26 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 18 | 3.26 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 13 | 3.26 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 13 | 3.26 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 13 | 3.26 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 16 | 3.26 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 16 | 3.26 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 16 | 3.26 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 3.26 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 3.26 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 3.26 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 3.26 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 3.26 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 3.26 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 15 | 3.26 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 15 | 3.26 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 15 | 3.26 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 3 | 3.26 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 3 | 3.26 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 3 | 3.26 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 3 | 3.26 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 3 | 3.26 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 3 | 3.26 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 3 | 3.26 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 3 | 3.26 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 3 | 3.26 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 20 | 3.26 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 20 | 3.26 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 20 | 3.26 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 2 | 3.26 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 7 | 3.26 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 7 | 3.26 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 7 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 6 | 3.26 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 6 | 3.26 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 6 | 3.26 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 13 | 3.26 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 13 | 3.26 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 2 | 3.25 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 4 | 3.25 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 13 | 3.25 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 4 | 3.25 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 4 | 3.25 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 16 | 3.25 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 16 | 3.25 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 16 | 3.25 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 16 | 3.25 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 16 | 3.25 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 16 | 3.25 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 2 | 3.25 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 2 | 3.25 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 7 | 3.25 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 7 | 3.25 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 7 | 3.25 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 7 | 3.25 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 7 | 3.25 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 7 | 3.25 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 20 | 3.25 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 20 | 3.25 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 20 | 3.25 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 20 | 3.25 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 20 | 3.25 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 20 | 3.25 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 2 | 3.25 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 2 | 3.25 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 2 | 3.25 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 2 | 3.25 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 2 | 3.25 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 2 | 3.25 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 12 | 3.25 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 12 | 3.25 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 12 | 3.25 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 12 | 3.25 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 12 | 3.25 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 12 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 16 | 3.25 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 16 | 3.25 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 1 | 3.25 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 1 | 3.25 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 1 | 3.25 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 1 | 3.25 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 19 | 3.25 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 19 | 3.25 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 19 | 3.25 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 19 | 3.25 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 19 | 3.25 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 19 | 3.25 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 8 | 3.25 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 8 | 3.25 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 8 | 3.25 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 8 | 3.25 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 8 | 3.25 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 8 | 3.25 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 14 | 3.25 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 14 | 3.25 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 14 | 3.25 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 14 | 3.25 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 3.25 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 20 | 3.25 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 12 | 3.25 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 12 | 3.25 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 4 | 3.25 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 4 | 3.25 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 4 | 3.25 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 4 | 3.25 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 4 | 3.25 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 4 | 3.25 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 20 | 3.25 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 20 | 3.25 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 14 | 3.25 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 14 | 3.25 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 14 | 3.25 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 14 | 3.25 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 14 | 3.25 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 14 | 3.25 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 17 | 3.25 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 17 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 20 | 3.25 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 20 | 3.25 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 17 | 3.25 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 17 | 3.25 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 16 | 3.25 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 16 | 3.25 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 18 | 3.25 |
| (1,8640) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 18 | 3.25 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 18 | 3.25 |
| (1,8640) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 18 | 3.25 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 2 | 3.25 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 2 | 3.25 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 2 | 3.25 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 2 | 3.25 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 2 | 3.25 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 2 | 3.25 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 16 | 3.25 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 16 | 3.25 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 16 | 3.25 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 16 | 3.25 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 16 | 3.25 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 16 | 3.25 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 5 | 3.25 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 7 | 3.25 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 7 | 3.25 |
| (1,8358) | 1:135:A:GLU:HA | 1:138:A:SER:H | 4 | 3.25 |
| (1,8247) | 1:116:A:ALA:HB1 | 1:120:A:GLY:H | 18 | 3.25 |
| (1,8247) | 1:116:A:ALA:HB2 | 1:120:A:GLY:H | 18 | 3.25 |
| (1,8247) | 1:116:A:ALA:HB3 | 1:120:A:GLY:H | 18 | 3.25 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 5 | 3.25 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 18 | 3.25 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 18 | 3.25 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 12 | 3.25 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 12 | 3.25 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 15 | 3.25 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 15 | 3.25 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 15 | 3.25 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 18 | 3.25 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 1 | 3.25 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 3 | 3.25 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 3 | 3.25 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 3 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 3 | 3.25 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 7 | 3.25 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 10 | 3.25 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 9 | 3.25 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 15 | 3.25 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 15 | 3.25 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 10 | 3.25 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 13 | 3.25 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 13 | 3.25 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 13 | 3.25 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 13 | 3.25 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 13 | 3.25 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 13 | 3.25 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 16 | 3.25 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 6 | 3.25 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 14 | 3.25 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 2 | 3.25 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 19 | 3.25 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 19 | 3.25 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 19 | 3.25 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 4 | 3.25 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 4 | 3.25 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 13 | 3.25 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 13 | 3.25 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 3 | 3.25 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 20 | 3.25 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 20 | 3.25 |
| (1,6991) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 13 | 3.25 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 15 | 3.25 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 10 | 3.25 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 10 | 3.25 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 10 | 3.25 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 14 | 3.25 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 14 | 3.25 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 14 | 3.25 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 20 | 3.25 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 20 | 3.25 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 20 | 3.25 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 4 | 3.25 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 4 | 3.25 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 4 | 3.25 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 17 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 17 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 16 | 3.25 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 16 | 3.25 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 11 | 3.25 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 9 | 3.25 |
| (1,6623) | 1:12:A:GLU:H | 1:25:A:PHE:H | 18 | 3.25 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 2 | 3.25 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 2 | 3.25 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 2 | 3.25 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 11 | 3.25 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 11 | 3.25 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 11 | 3.25 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 17 | 3.25 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 2 | 3.25 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 2 | 3.25 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 2 | 3.25 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 2 | 3.25 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 2 | 3.25 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 2 | 3.25 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 2 | 3.25 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 2 | 3.25 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 2 | 3.25 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 19 | 3.25 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 19 | 3.25 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 19 | 3.25 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 6 | 3.25 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 6 | 3.25 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 6 | 3.25 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 6 | 3.25 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 6 | 3.25 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 6 | 3.25 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 6 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 6 | 3.25 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 6 | 3.25 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 16 | 3.25 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 16 | 3.25 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 16 | 3.25 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 2 | 3.25 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 2 | 3.25 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 2 | 3.25 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 16 | 3.25 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 6 | 3.25 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 11 | 3.25 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 11 | 3.25 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 11 | 3.25 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 14 | 3.25 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 14 | 3.25 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 14 | 3.25 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 19 | 3.25 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 19 | 3.25 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 11 | 3.25 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 18 | 3.25 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 18 | 3.25 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 7 | 3.25 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 13 | 3.25 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 16 | 3.25 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 20 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 7 | 3.25 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 7 | 3.25 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 12 | 3.25 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 1 | 3.25 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 1 | 3.25 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 1 | 3.25 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 12 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 12 | 3.25 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 12 | 3.25 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 5 | 3.25 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 12 | 3.25 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 12 | 3.25 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 12 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 3 | 3.25 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 3 | 3.25 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 13 | 3.25 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 13 | 3.25 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 13 | 3.25 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 13 | 3.25 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 13 | 3.25 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 13 | 3.25 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 13 | 3.25 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 13 | 3.25 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 13 | 3.25 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 15 | 3.25 |
| (1,4944) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 17 | 3.25 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 8 | 3.25 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 16 | 3.25 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 16 | 3.25 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 16 | 3.25 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 8 | 3.25 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 8 | 3.25 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 8 | 3.25 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 16 | 3.25 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 16 | 3.25 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 16 | 3.25 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 16 | 3.25 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 16 | 3.25 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 16 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 16 | 3.25 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 16 | 3.25 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 16 | 3.25 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 1 | 3.25 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 1 | 3.25 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 1 | 3.25 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 16 | 3.25 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 16 | 3.25 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 16 | 3.25 |
| (1,4722) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 12 | 3.25 |
| (1,4722) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 12 | 3.25 |
| (1,4722) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 12 | 3.25 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 3 | 3.25 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 3 | 3.25 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 16 | 3.25 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 16 | 3.25 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 16 | 3.25 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 16 | 3.25 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 16 | 3.25 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 16 | 3.25 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 16 | 3.25 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 16 | 3.25 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 5 | 3.25 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 5 | 3.25 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 20 | 3.25 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 20 | 3.25 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 20 | 3.25 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 2 | 3.25 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 2 | 3.25 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 3 | 3.25 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 3 | 3.25 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 2 | 3.25 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 2 | 3.25 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 2 | 3.25 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 2 | 3.25 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 19 | 3.25 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 19 | 3.25 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 12 | 3.25 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 9 | 3.25 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 9 | 3.25 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 2 | 3.25 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 2 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 2 | 3.25 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 2 | 3.25 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 2 | 3.25 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 2 | 3.25 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 16 | 3.25 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 16 | 3.25 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 19 | 3.25 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 13 | 3.25 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 13 | 3.25 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 13 | 3.25 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 3.25 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 12 | 3.25 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 12 | 3.25 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 6 | 3.25 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 6 | 3.25 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 6 | 3.25 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 6 | 3.25 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 19 | 3.25 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 19 | 3.25 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 19 | 3.25 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 19 | 3.25 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 19 | 3.25 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 19 | 3.25 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 15 | 3.25 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 10 | 3.25 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 14 | 3.25 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 14 | 3.25 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 14 | 3.25 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 14 | 3.25 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 15 | 3.25 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 15 | 3.25 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 15 | 3.25 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 3.25 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 20 | 3.25 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 12 | 3.25 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 12 | 3.25 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 4 | 3.25 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 4 | 3.25 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 4 | 3.25 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 4 | 3.25 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 4 | 3.25 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 4 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 16 | 3.25 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 16 | 3.25 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 16 | 3.25 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 16 | 3.25 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 16 | 3.25 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 16 | 3.25 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 16 | 3.25 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 16 | 3.25 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 16 | 3.25 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 14 | 3.25 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 14 | 3.25 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 14 | 3.25 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 14 | 3.25 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 14 | 3.25 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 14 | 3.25 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 5 | 3.25 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 5 | 3.25 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 3.25 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 3.25 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 17 | 3.25 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 17 | 3.25 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 2 | 3.25 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 2 | 3.25 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 17 | 3.25 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 17 | 3.25 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 12 | 3.25 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 12 | 3.25 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 18 | 3.25 |
| (1,3598) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 18 | 3.25 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 18 | 3.25 |
| (1,3598) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 18 | 3.25 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 4 | 3.25 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 3.25 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 4 | 3.25 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 6 | 3.25 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 3.25 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 6 | 3.25 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 6 | 3.25 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 3.25 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 6 | 3.25 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 2 | 3.25 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 2 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 2 | 3.25 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 19 | 3.25 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 20 | 3.25 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 20 | 3.25 |
| (1,3418) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 20 | 3.25 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 19 | 3.25 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 19 | 3.25 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 17 | 3.25 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 17 | 3.25 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 3 | 3.25 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 16 | 3.25 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 4 | 3.25 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 4 | 3.25 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 16 | 3.25 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 13 | 3.25 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 13 | 3.25 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 3.25 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 3 | 3.25 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 20 | 3.25 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 20 | 3.25 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 20 | 3.25 |
| (1,3032) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 13 | 3.25 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 15 | 3.25 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 10 | 3.25 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 10 | 3.25 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 10 | 3.25 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 14 | 3.25 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 14 | 3.25 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 14 | 3.25 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 20 | 3.25 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 20 | 3.25 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 20 | 3.25 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 4 | 3.25 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 4 | 3.25 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 4 | 3.25 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 17 | 3.25 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 6 | 3.25 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 6 | 3.25 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 17 | 3.25 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 3 | 3.25 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 3 | 3.25 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 6 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 5 | 3.25 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 11 | 3.25 |
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 11 | 3.25 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 11 | 3.25 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 11 | 3.25 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 7 | 3.25 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 7 | 3.25 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 7 | 3.25 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 9 | 3.25 |
| (1,2480) | 1:12:A:GLU:H | 1:25:A:PHE:H | 18 | 3.25 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 4 | 3.25 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 2 | 3.25 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 2 | 3.25 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 2 | 3.25 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 11 | 3.25 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 11 | 3.25 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 11 | 3.25 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 17 | 3.25 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 4 | 3.25 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 9 | 3.25 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 5 | 3.25 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 5 | 3.25 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 5 | 3.25 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 2 | 3.25 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 2 | 3.25 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 2 | 3.25 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 2 | 3.25 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 2 | 3.25 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 2 | 3.25 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 2 | 3.25 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 2 | 3.25 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 2 | 3.25 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 19 | 3.25 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 19 | 3.25 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 19 | 3.25 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 13 | 3.25 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 13 | 3.25 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 13 | 3.25 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 6 | 3.25 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 6 | 3.25 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 6 | 3.25 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 6 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 6 | 3.25 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 6 | 3.25 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 6 | 3.25 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 6 | 3.25 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 6 | 3.25 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 9 | 3.25 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 9 | 3.25 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 17 | 3.25 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 17 | 3.25 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 17 | 3.25 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 16 | 3.25 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 16 | 3.25 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 16 | 3.25 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 2 | 3.25 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 2 | 3.25 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 2 | 3.25 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 17 | 3.25 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 17 | 3.25 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 17 | 3.25 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 16 | 3.25 |
| (1,1814) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 8 | 3.25 |
| (1,1814) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 8 | 3.25 |
| (1,1814) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 8 | 3.25 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 9 | 3.25 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 9 | 3.25 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 9 | 3.25 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 6 | 3.25 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 11 | 3.25 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 11 | 3.25 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 11 | 3.25 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 14 | 3.25 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 14 | 3.25 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 14 | 3.25 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 13 | 3.25 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 19 | 3.25 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 19 | 3.25 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 11 | 3.25 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 12 | 3.25 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 18 | 3.25 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 18 | 3.25 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 12 | 3.25 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 7 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 13 | 3.25 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 11 | 3.25 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 16 | 3.25 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 20 | 3.25 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 5 | 3.25 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 20 | 3.25 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 18 | 3.25 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 18 | 3.25 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 18 | 3.25 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 10 | 3.25 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 10 | 3.25 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 10 | 3.25 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 12 | 3.25 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 1 | 3.25 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 1 | 3.25 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 1 | 3.25 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 12 | 3.25 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 12 | 3.25 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 12 | 3.25 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 12 | 3.25 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 12 | 3.25 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 11 | 3.25 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 5 | 3.25 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 2 | 3.25 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 5 | 3.25 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 12 | 3.25 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 12 | 3.25 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 12 | 3.25 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 12 | 3.25 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 12 | 3.25 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 12 | 3.25 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 12 | 3.25 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 12 | 3.25 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 12 | 3.25 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 3 | 3.25 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 18 | 3.25 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 18 | 3.25 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 10 | 3.25 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 10 | 3.25 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 10 | 3.25 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 1 | 3.25 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 1 | 3.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 1 | 3.25 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 4 | 3.24 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 16 | 3.24 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 12 | 3.24 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 12 | 3.24 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 12 | 3.24 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 12 | 3.24 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 12 | 3.24 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 12 | 3.24 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 12 | 3.24 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 12 | 3.24 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 16 | 3.24 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 16 | 3.24 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 16 | 3.24 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 16 | 3.24 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 16 | 3.24 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 16 | 3.24 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 13 | 3.24 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 13 | 3.24 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 13 | 3.24 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 13 | 3.24 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 1 | 3.24 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 1 | 3.24 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 4 | 3.24 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 4 | 3.24 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 8 | 3.24 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 8 | 3.24 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 12 | 3.24 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 12 | 3.24 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 12 | 3.24 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 12 | 3.24 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 12 | 3.24 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 12 | 3.24 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 10 | 3.24 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 10 | 3.24 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 5 | 3.24 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 5 | 3.24 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 5 | 3.24 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 5 | 3.24 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 5 | 3.24 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 5 | 3.24 |
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA2 | 5 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9223) | 1:96:A:ILE:HA | 1:99:A:GLY:HA3 | 5 | 3.24 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 2 | 3.24 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 2 | 3.24 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 2 | 3.24 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 2 | 3.24 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 12 | 3.24 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 12 | 3.24 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 12 | 3.24 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 12 | 3.24 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 12 | 3.24 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 12 | 3.24 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 11 | 3.24 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 11 | 3.24 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 11 | 3.24 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 11 | 3.24 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 11 | 3.24 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 11 | 3.24 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 18 | 3.24 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 18 | 3.24 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 3 | 3.24 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 3 | 3.24 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 4 | 3.24 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 4 | 3.24 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 4 | 3.24 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 4 | 3.24 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 4 | 3.24 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 4 | 3.24 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 15 | 3.24 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 15 | 3.24 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 13 | 3.24 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 13 | 3.24 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 13 | 3.24 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 13 | 3.24 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 13 | 3.24 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 13 | 3.24 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 7 | 3.24 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 7 | 3.24 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 14 | 3.24 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 14 | 3.24 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 19 | 3.24 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 19 | 3.24 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 1 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 3.24 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 3.24 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 19 | 3.24 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 19 | 3.24 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 8 | 3.24 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 8 | 3.24 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 12 | 3.24 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 12 | 3.24 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 10 | 3.24 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 10 | 3.24 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 10 | 3.24 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 10 | 3.24 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 10 | 3.24 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 10 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 19 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 19 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 19 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 19 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 19 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 19 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 19 | 3.24 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 19 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 19 | 3.24 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 7 | 3.24 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 4 | 3.24 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 5 | 3.24 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 10 | 3.24 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 4 | 3.24 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 4 | 3.24 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 4 | 3.24 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 4 | 3.24 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 4 | 3.24 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 4 | 3.24 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 4 | 3.24 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 4 | 3.24 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 4 | 3.24 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 7 | 3.24 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 7 | 3.24 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 7 | 3.24 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 16 | 3.24 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 17 | 3.24 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 10 | 3.24 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 10 | 3.24 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 10 | 3.24 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 20 | 3.24 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 10 | 3.24 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 10 | 3.24 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 15 | 3.24 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 13 | 3.24 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 13 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 10 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 10 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 10 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 10 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 10 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 10 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 17 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 17 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 17 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 17 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 17 | 3.24 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 17 | 3.24 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 17 | 3.24 |
| (1,7305) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 2 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 14 | 3.24 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 14 | 3.24 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 14 | 3.24 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 14 | 3.24 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 8 | 3.24 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 4 | 3.24 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 4 | 3.24 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 7 | 3.24 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 15 | 3.24 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 15 | 3.24 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 15 | 3.24 |
| (1,6898) | 1:29:A:THR:H | 1:31:A:ALA:H | 15 | 3.24 |
| (1,6885) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 11 | 3.24 |
| (1,6885) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 11 | 3.24 |
| (1,6885) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 11 | 3.24 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 14 | 3.24 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 19 | 3.24 |
| (1,6788) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 4 | 3.24 |
| (1,6788) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 4 | 3.24 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 16 | 3.24 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 5 | 3.24 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 13 | 3.24 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 8 | 3.24 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 16 | 3.24 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 2 | 3.24 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 2 | 3.24 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 2 | 3.24 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 2 | 3.24 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 2 | 3.24 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 2 | 3.24 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 7 | 3.24 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 7 | 3.24 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 7 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 5 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 5 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 5 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 5 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 5 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 5 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 5 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 5 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 5 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 14 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 14 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 14 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 14 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 14 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 14 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 14 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 14 | 3.24 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 14 | 3.24 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 17 | 3.24 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 17 | 3.24 |
| (1,6423) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 17 | 3.24 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 8 | 3.24 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 18 | 3.24 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 18 | 3.24 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 18 | 3.24 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 9 | 3.24 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 9 | 3.24 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 9 | 3.24 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 9 | 3.24 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 9 | 3.24 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 9 | 3.24 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 9 | 3.24 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 9 | 3.24 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 9 | 3.24 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 4 | 3.24 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 4 | 3.24 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 19 | 3.24 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 19 | 3.24 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 4 | 3.24 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 4 | 3.24 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 4 | 3.24 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 17 | 3.24 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 17 | 3.24 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 17 | 3.24 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 20 | 3.24 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 5 | 3.24 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 5 | 3.24 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 5 | 3.24 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 11 | 3.24 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 11 | 3.24 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 11 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 14 | 3.24 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 14 | 3.24 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 14 | 3.24 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 11 | 3.24 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 11 | 3.24 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 11 | 3.24 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 6 | 3.24 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 6 | 3.24 |
| (1,6115) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 6 | 3.24 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 15 | 3.24 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 5 | 3.24 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 1 | 3.24 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 1 | 3.24 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 1 | 3.24 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 8 | 3.24 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 20 | 3.24 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 20 | 3.24 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 12 | 3.24 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 8 | 3.24 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 8 | 3.24 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 7 | 3.24 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 7 | 3.24 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 8 | 3.24 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 13 | 3.24 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 11 | 3.24 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 18 | 3.24 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 18 | 3.24 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 18 | 3.24 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 13 | 3.24 |
| (1,5590) | 1:98:A:SER:H | 1:100:A:GLU:H | 9 | 3.24 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 2 | 3.24 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 2 | 3.24 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 2 | 3.24 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 8 | 3.24 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 8 | 3.24 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 8 | 3.24 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 2 | 3.24 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 18 | 3.24 |
| (1,5496) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 18 | 3.24 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 18 | 3.24 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 18 | 3.24 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 18 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 20 | 3.24 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 20 | 3.24 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 20 | 3.24 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 11 | 3.24 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 18 | 3.24 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 15 | 3.24 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 15 | 3.24 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 15 | 3.24 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 17 | 3.24 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 17 | 3.24 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 17 | 3.24 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 18 | 3.24 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 18 | 3.24 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 18 | 3.24 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 18 | 3.24 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 10 | 3.24 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 18 | 3.24 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 18 | 3.24 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 1 | 3.24 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 1 | 3.24 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 1 | 3.24 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 3 | 3.24 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 7 | 3.24 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 7 | 3.24 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 11 | 3.24 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 11 | 3.24 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 12 | 3.24 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 12 | 3.24 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 13 | 3.24 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 13 | 3.24 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 6 | 3.24 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 6 | 3.24 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 6 | 3.24 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 14 | 3.24 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 16 | 3.24 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 16 | 3.24 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 16 | 3.24 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 16 | 3.24 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 16 | 3.24 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 16 | 3.24 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 11 | 3.24 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 7 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 3 | 3.24 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 3 | 3.24 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 1 | 3.24 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 1 | 3.24 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 3 | 3.24 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 12 | 3.24 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 12 | 3.24 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 12 | 3.24 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 12 | 3.24 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 12 | 3.24 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 12 | 3.24 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 10 | 3.24 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 10 | 3.24 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 4 | 3.24 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 4 | 3.24 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 7 | 3.24 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 7 | 3.24 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 7 | 3.24 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 5 | 3.24 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 5 | 3.24 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 5 | 3.24 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 5 | 3.24 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 5 | 3.24 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 5 | 3.24 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 17 | 3.24 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 17 | 3.24 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 18 | 3.24 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 18 | 3.24 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 1 | 3.24 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 1 | 3.24 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 1 | 3.24 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 1 | 3.24 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 1 | 3.24 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 1 | 3.24 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 12 | 3.24 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 12 | 3.24 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 8 | 3.24 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 8 | 3.24 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 8 | 3.24 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 8 | 3.24 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 8 | 3.24 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 8 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 16 | 3.24 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 2 | 3.24 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 2 | 3.24 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 2 | 3.24 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 2 | 3.24 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 12 | 3.24 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 12 | 3.24 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 12 | 3.24 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 12 | 3.24 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 12 | 3.24 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 12 | 3.24 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 11 | 3.24 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 11 | 3.24 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 11 | 3.24 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 11 | 3.24 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 11 | 3.24 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 11 | 3.24 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 1 | 3.24 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 3 | 3.24 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 3 | 3.24 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 8 | 3.24 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 8 | 3.24 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 3.24 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 11 | 3.24 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 11 | 3.24 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 5 | 3.24 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 13 | 3.24 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 13 | 3.24 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 13 | 3.24 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 17 | 3.24 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 17 | 3.24 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 17 | 3.24 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 15 | 3.24 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 15 | 3.24 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 9 | 3.24 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 3 | 3.24 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 3 | 3.24 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 3 | 3.24 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 15 | 3.24 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 15 | 3.24 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 15 | 3.24 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 13 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 13 | 3.24 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 3.24 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 20 | 3.24 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 15 | 3.24 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 15 | 3.24 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 7 | 3.24 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 7 | 3.24 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 19 | 3.24 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 19 | 3.24 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE21 | 8 | 3.24 |
| (1,3645) | 1:45:A:GLY:HA2 | 1:49:A:GLN:HE22 | 8 | 3.24 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE21 | 8 | 3.24 |
| (1,3645) | 1:45:A:GLY:HA3 | 1:49:A:GLN:HE22 | 8 | 3.24 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 3 | 3.24 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 3 | 3.24 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 12 | 3.24 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 12 | 3.24 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 15 | 3.24 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 15 | 3.24 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 9 | 3.24 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 9 | 3.24 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 15 | 3.24 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 15 | 3.24 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 14 | 3.24 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 8 | 3.24 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 8 | 3.24 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 12 | 3.24 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 12 | 3.24 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 18 | 3.24 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 14 | 3.24 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 14 | 3.24 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 8 | 3.24 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 11 | 3.24 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 11 | 3.24 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 8 | 3.24 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 4 | 3.24 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 4 | 3.24 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 9 | 3.24 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 18 | 3.24 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 7 | 3.24 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 15 | 3.24 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 15 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 15 | 3.24 |
| (1,2898) | 1:29:A:THR:H | 1:31:A:ALA:H | 15 | 3.24 |
| (1,2882) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 11 | 3.24 |
| (1,2882) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 11 | 3.24 |
| (1,2882) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 11 | 3.24 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 14 | 3.24 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 13 | 3.24 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 13 | 3.24 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 13 | 3.24 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 19 | 3.24 |
| (1,2752) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 4 | 3.24 |
| (1,2752) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 4 | 3.24 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 5 | 3.24 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 5 | 3.24 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 13 | 3.24 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 13 | 3.24 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 8 | 3.24 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 8 | 3.24 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 16 | 3.24 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 2 | 3.24 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 16 | 3.24 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 5 | 3.24 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 13 | 3.24 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 17 | 3.24 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 9 | 3.24 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 8 | 3.24 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 16 | 3.24 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 2 | 3.24 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 2 | 3.24 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 2 | 3.24 |
| (1,2300) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 5 | 3.24 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 11 | 3.24 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 2 | 3.24 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 2 | 3.24 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 2 | 3.24 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 16 | 3.24 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 16 | 3.24 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 16 | 3.24 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 7 | 3.24 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 7 | 3.24 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 7 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 5 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 5 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 5 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 5 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 5 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 5 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 5 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 5 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 5 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 14 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 14 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 14 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 14 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 14 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 14 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 14 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 14 | 3.24 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 14 | 3.24 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 17 | 3.24 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 17 | 3.24 |
| (1,2138) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 17 | 3.24 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 8 | 3.24 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 18 | 3.24 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 18 | 3.24 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 18 | 3.24 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 9 | 3.24 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 9 | 3.24 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 9 | 3.24 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 9 | 3.24 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 9 | 3.24 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 9 | 3.24 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 9 | 3.24 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 9 | 3.24 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 9 | 3.24 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 4 | 3.24 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 4 | 3.24 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 19 | 3.24 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 19 | 3.24 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 4 | 3.24 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 4 | 3.24 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 4 | 3.24 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 3 | 3.24 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 3 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 3 | 3.24 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 12 | 3.24 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 12 | 3.24 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 12 | 3.24 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 7 | 3.24 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 14 | 3.24 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 17 | 3.24 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 17 | 3.24 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 17 | 3.24 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 20 | 3.24 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 12 | 3.24 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 12 | 3.24 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 12 | 3.24 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 5 | 3.24 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 5 | 3.24 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 5 | 3.24 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 11 | 3.24 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 11 | 3.24 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 11 | 3.24 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 14 | 3.24 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 14 | 3.24 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 14 | 3.24 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 11 | 3.24 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 11 | 3.24 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 11 | 3.24 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 15 | 3.24 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 15 | 3.24 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 15 | 3.24 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 17 | 3.24 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 17 | 3.24 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 17 | 3.24 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 6 | 3.24 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 6 | 3.24 |
| (1,1688) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 6 | 3.24 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 15 | 3.24 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 1 | 3.24 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 1 | 3.24 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 1 | 3.24 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 8 | 3.24 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 20 | 3.24 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 12 | 3.24 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 12 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 12 | 3.24 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 14 | 3.24 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 12 | 3.24 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 8 | 3.24 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 8 | 3.24 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 7 | 3.24 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 7 | 3.24 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 8 | 3.24 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 13 | 3.24 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 4 | 3.24 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 2 | 3.24 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 11 | 3.24 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 18 | 3.24 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 18 | 3.24 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 18 | 3.24 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 13 | 3.24 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 7 | 3.24 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 7 | 3.24 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 7 | 3.24 |
| (1,772) | 1:98:A:SER:H | 1:100:A:GLU:H | 9 | 3.24 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 10 | 3.24 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 9 | 3.24 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 13 | 3.24 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 2 | 3.24 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 2 | 3.24 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 2 | 3.24 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 8 | 3.24 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 8 | 3.24 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 8 | 3.24 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 2 | 3.24 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 18 | 3.24 |
| (1,634) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 18 | 3.24 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 7 | 3.24 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 1 | 3.24 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 1 | 3.24 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 1 | 3.24 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 1 | 3.24 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 1 | 3.24 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 1 | 3.24 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 1 | 3.24 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 1 | 3.24 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 1 | 3.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 9 | 3.24 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 9 | 3.24 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 3 | 3.24 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 13 | 3.24 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 5 | 3.24 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 6 | 3.24 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 3.24 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 3.24 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 3.24 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 12 | 3.23 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 18 | 3.23 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 18 | 3.23 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 19 | 3.23 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 19 | 3.23 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 9 | 3.23 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 9 | 3.23 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 5 | 3.23 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 5 | 3.23 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 5 | 3.23 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 5 | 3.23 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 5 | 3.23 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 5 | 3.23 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB2 | 16 | 3.23 |
| (1,9566) | 1:146:A:MET:H | 1:160:A:LEU:HB3 | 16 | 3.23 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 11 | 3.23 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 11 | 3.23 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 11 | 3.23 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 11 | 3.23 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 11 | 3.23 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 11 | 3.23 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 17 | 3.23 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 17 | 3.23 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 7 | 3.23 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 7 | 3.23 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 11 | 3.23 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 11 | 3.23 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 11 | 3.23 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 11 | 3.23 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 11 | 3.23 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 11 | 3.23 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 9 | 3.23 |
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 9 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9239) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 9 | 3.23 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 9 | 3.23 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 9 | 3.23 |
| (1,9239) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 9 | 3.23 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 3.23 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 3.23 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 3.23 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 3.23 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 3.23 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 3.23 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 7 | 3.23 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 7 | 3.23 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 7 | 3.23 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 7 | 3.23 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 7 | 3.23 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 7 | 3.23 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 1 | 3.23 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 1 | 3.23 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 11 | 3.23 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 11 | 3.23 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 11 | 3.23 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 11 | 3.23 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 11 | 3.23 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 11 | 3.23 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 14 | 3.23 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 14 | 3.23 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 14 | 3.23 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 14 | 3.23 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 14 | 3.23 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 14 | 3.23 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 7 | 3.23 |
| (1,8852) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 7 | 3.23 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 7 | 3.23 |
| (1,8852) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 7 | 3.23 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 7 | 3.23 |
| (1,8852) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 7 | 3.23 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 10 | 3.23 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 10 | 3.23 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 5 | 3.23 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 5 | 3.23 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 19 | 3.23 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 19 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 19 | 3.23 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 19 | 3.23 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 14 | 3.23 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 14 | 3.23 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 2 | 3.23 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 2 | 3.23 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG21 | 9 | 3.23 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG22 | 9 | 3.23 |
| (1,8442) | 1:146:A:MET:HA | 1:158:A:ILE:HG23 | 9 | 3.23 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 1 | 3.23 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 1 | 3.23 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 1 | 3.23 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 1 | 3.23 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 1 | 3.23 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 1 | 3.23 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 1 | 3.23 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 1 | 3.23 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 1 | 3.23 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 3 | 3.23 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 3 | 3.23 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 3 | 3.23 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 20 | 3.23 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 20 | 3.23 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 20 | 3.23 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 12 | 3.23 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 10 | 3.23 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 10 | 3.23 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 10 | 3.23 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 11 | 3.23 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 11 | 3.23 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 11 | 3.23 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 20 | 3.23 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 20 | 3.23 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 17 | 3.23 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 17 | 3.23 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 17 | 3.23 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 17 | 3.23 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 6 | 3.23 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 6 | 3.23 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 2 | 3.23 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 2 | 3.23 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 2 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB1 | 4 | 3.23 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB2 | 4 | 3.23 |
| (1,7653) | 1:30:A:ASN:H | 1:31:A:ALA:HB3 | 4 | 3.23 |
| (1,7640) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 14 | 3.23 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 9 | 3.23 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 19 | 3.23 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 13 | 3.23 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 17 | 3.23 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 13 | 3.23 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 8 | 3.23 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 8 | 3.23 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 15 | 3.23 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 15 | 3.23 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 15 | 3.23 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 20 | 3.23 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 20 | 3.23 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 20 | 3.23 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 17 | 3.23 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 8 | 3.23 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 19 | 3.23 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 6 | 3.23 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 17 | 3.23 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 15 | 3.23 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 3 | 3.23 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 3 | 3.23 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 3 | 3.23 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 3 | 3.23 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 15 | 3.23 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 15 | 3.23 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 15 | 3.23 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 15 | 3.23 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 15 | 3.23 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 15 | 3.23 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 15 | 3.23 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 15 | 3.23 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 15 | 3.23 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 11 | 3.23 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 14 | 3.23 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 9 | 3.23 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 9 | 3.23 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 9 | 3.23 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 2 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 3 | 3.23 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 3 | 3.23 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 3 | 3.23 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 3 | 3.23 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 3 | 3.23 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 3 | 3.23 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 3 | 3.23 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 3 | 3.23 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 3 | 3.23 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 15 | 3.23 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 14 | 3.23 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 14 | 3.23 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 14 | 3.23 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 19 | 3.23 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 19 | 3.23 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 19 | 3.23 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 3 | 3.23 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 3 | 3.23 |
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 5 | 3.23 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 5 | 3.23 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 11 | 3.23 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 11 | 3.23 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 11 | 3.23 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 17 | 3.23 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 17 | 3.23 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 17 | 3.23 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 1 | 3.23 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 19 | 3.23 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 12 | 3.23 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 8 | 3.23 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 8 | 3.23 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 8 | 3.23 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 2 | 3.23 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 2 | 3.23 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 2 | 3.23 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 2 | 3.23 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 2 | 3.23 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 2 | 3.23 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 2 | 3.23 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 2 | 3.23 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 2 | 3.23 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 3 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 5 | 3.23 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 5 | 3.23 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 5 | 3.23 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 10 | 3.23 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 10 | 3.23 |
| (1,5563) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 4 | 3.23 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 7 | 3.23 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 7 | 3.23 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 7 | 3.23 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 16 | 3.23 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 16 | 3.23 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 16 | 3.23 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 16 | 3.23 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 5 | 3.23 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 5 | 3.23 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 5 | 3.23 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 17 | 3.23 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 17 | 3.23 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 17 | 3.23 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 4 | 3.23 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 4 | 3.23 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 4 | 3.23 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 9 | 3.23 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 9 | 3.23 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 9 | 3.23 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 3 | 3.23 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 3 | 3.23 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 3 | 3.23 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 20 | 3.23 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 20 | 3.23 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 20 | 3.23 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 12 | 3.23 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 12 | 3.23 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 12 | 3.23 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 10 | 3.23 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 15 | 3.23 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 18 | 3.23 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 18 | 3.23 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 18 | 3.23 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 8 | 3.23 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 8 | 3.23 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 8 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 19 | 3.23 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 19 | 3.23 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 19 | 3.23 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 4 | 3.23 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 8 | 3.23 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 8 | 3.23 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 8 | 3.23 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 20 | 3.23 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 2 | 3.23 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 7 | 3.23 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 18 | 3.23 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 18 | 3.23 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 1 | 3.23 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 19 | 3.23 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 19 | 3.23 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 11 | 3.23 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 11 | 3.23 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 11 | 3.23 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 11 | 3.23 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 11 | 3.23 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 11 | 3.23 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 4 | 3.23 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 4 | 3.23 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 4 | 3.23 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 17 | 3.23 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 11 | 3.23 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 11 | 3.23 |
| (1,4294) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 12 | 3.23 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 11 | 3.23 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 11 | 3.23 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 11 | 3.23 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 11 | 3.23 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 11 | 3.23 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 11 | 3.23 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 4 | 3.23 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 4 | 3.23 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 14 | 3.23 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 14 | 3.23 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 14 | 3.23 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 9 | 3.23 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 9 | 3.23 |
| (1,4222) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 9 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 9 | 3.23 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 9 | 3.23 |
| (1,4222) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 9 | 3.23 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 16 | 3.23 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 16 | 3.23 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 16 | 3.23 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 16 | 3.23 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 16 | 3.23 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 16 | 3.23 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 1 | 3.23 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 17 | 3.23 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 17 | 3.23 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 10 | 3.23 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 10 | 3.23 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 10 | 3.23 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 2 | 3.23 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 2 | 3.23 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 3.23 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 3.23 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 3.23 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 3.23 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 3.23 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 3.23 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 3 | 3.23 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 3 | 3.23 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 3 | 3.23 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 6 | 3.23 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 6 | 3.23 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 14 | 3.23 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 14 | 3.23 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 14 | 3.23 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 7 | 3.23 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 7 | 3.23 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 7 | 3.23 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 7 | 3.23 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 7 | 3.23 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 7 | 3.23 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 1 | 3.23 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 1 | 3.23 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 20 | 3.23 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 20 | 3.23 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 20 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 20 | 3.23 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 20 | 3.23 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 20 | 3.23 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 10 | 3.23 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 11 | 3.23 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 11 | 3.23 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 11 | 3.23 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 11 | 3.23 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 11 | 3.23 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 11 | 3.23 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 14 | 3.23 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 14 | 3.23 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 14 | 3.23 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 14 | 3.23 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 14 | 3.23 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 14 | 3.23 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 7 | 3.23 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 7 | 3.23 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 7 | 3.23 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 19 | 3.23 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 19 | 3.23 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 19 | 3.23 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 19 | 3.23 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 19 | 3.23 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 14 | 3.23 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 14 | 3.23 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 17 | 3.23 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 19 | 3.23 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 3 | 3.23 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 12 | 3.23 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 12 | 3.23 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 7 | 3.23 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 16 | 3.23 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 16 | 3.23 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 16 | 3.23 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 7 | 3.23 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 9 | 3.23 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 9 | 3.23 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 15 | 3.23 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 15 | 3.23 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 15 | 3.23 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 20 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 20 | 3.23 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 20 | 3.23 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 17 | 3.23 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 17 | 3.23 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 17 | 3.23 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 17 | 3.23 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 17 | 3.23 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 17 | 3.23 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 17 | 3.23 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 8 | 3.23 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 13 | 3.23 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 16 | 3.23 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 16 | 3.23 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 16 | 3.23 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 10 | 3.23 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 10 | 3.23 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 10 | 3.23 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 13 | 3.23 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 14 | 3.23 |
| (1,3010) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 8 | 3.23 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 19 | 3.23 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 15 | 3.23 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 6 | 3.23 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 17 | 3.23 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 16 | 3.23 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 7 | 3.23 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 15 | 3.23 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 20 | 3.23 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 20 | 3.23 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 3 | 3.23 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 3 | 3.23 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 3 | 3.23 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 3 | 3.23 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 15 | 3.23 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 15 | 3.23 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 15 | 3.23 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 15 | 3.23 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 15 | 3.23 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 15 | 3.23 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 15 | 3.23 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 15 | 3.23 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 15 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 10 | 3.23 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 10 | 3.23 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 10 | 3.23 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 10 | 3.23 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 10 | 3.23 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 10 | 3.23 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 10 | 3.23 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 10 | 3.23 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 10 | 3.23 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 11 | 3.23 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 8 | 3.23 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 8 | 3.23 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 8 | 3.23 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 8 | 3.23 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 8 | 3.23 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 8 | 3.23 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 11 | 3.23 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 10 | 3.23 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 16 | 3.23 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 7 | 3.23 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 7 | 3.23 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 7 | 3.23 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 9 | 3.23 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 9 | 3.23 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 9 | 3.23 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 2 | 3.23 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 1 | 3.23 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 1 | 3.23 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 1 | 3.23 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 3 | 3.23 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 3 | 3.23 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 3 | 3.23 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 3 | 3.23 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 3 | 3.23 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 3 | 3.23 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 3 | 3.23 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 3 | 3.23 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 3 | 3.23 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 15 | 3.23 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 14 | 3.23 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 14 | 3.23 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 14 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 19 | 3.23 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 19 | 3.23 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 19 | 3.23 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 3 | 3.23 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 3 | 3.23 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 11 | 3.23 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 11 | 3.23 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 11 | 3.23 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 1 | 3.23 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 1 | 3.23 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 1 | 3.23 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 13 | 3.23 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 13 | 3.23 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 13 | 3.23 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 20 | 3.23 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 20 | 3.23 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 20 | 3.23 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 14 | 3.23 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 14 | 3.23 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 14 | 3.23 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 4 | 3.23 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 4 | 3.23 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 4 | 3.23 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 5 | 3.23 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 5 | 3.23 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 17 | 3.23 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 11 | 3.23 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 11 | 3.23 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 11 | 3.23 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 11 | 3.23 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 17 | 3.23 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 17 | 3.23 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 17 | 3.23 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 1 | 3.23 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 6 | 3.23 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 19 | 3.23 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 12 | 3.23 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 8 | 3.23 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 8 | 3.23 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 8 | 3.23 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 2 | 3.23 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 2 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 2 | 3.23 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 2 | 3.23 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 2 | 3.23 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 2 | 3.23 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 2 | 3.23 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 2 | 3.23 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 2 | 3.23 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 3 | 3.23 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 6 | 3.23 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 5 | 3.23 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 5 | 3.23 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 5 | 3.23 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 5 | 3.23 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 5 | 3.23 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 5 | 3.23 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 13 | 3.23 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 13 | 3.23 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 13 | 3.23 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 18 | 3.23 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 18 | 3.23 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 18 | 3.23 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 2 | 3.23 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 10 | 3.23 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 10 | 3.23 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 9 | 3.23 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 9 | 3.23 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 1 | 3.23 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 11 | 3.23 |
| (1,732) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 4 | 3.23 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 7 | 3.23 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 7 | 3.23 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 7 | 3.23 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 16 | 3.23 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 16 | 3.23 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 16 | 3.23 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 9 | 3.23 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 16 | 3.23 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 5 | 3.23 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 5 | 3.23 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 5 | 3.23 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 1 | 3.23 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 1 | 3.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 1 | 3.23 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 13 | 3.23 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 13 | 3.23 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 13 | 3.23 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 17 | 3.23 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 17 | 3.23 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 17 | 3.23 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 4 | 3.23 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 4 | 3.23 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 4 | 3.23 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 9 | 3.23 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 9 | 3.23 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 9 | 3.23 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 11 | 3.23 |
| (1,510) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 11 | 3.23 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 11 | 3.23 |
| (1,510) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 11 | 3.23 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 11 | 3.23 |
| (1,510) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 11 | 3.23 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 5 | 3.23 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 8 | 3.23 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 8 | 3.23 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 8 | 3.23 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 8 | 3.23 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 8 | 3.23 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 8 | 3.23 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 8 | 3.23 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 8 | 3.23 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 8 | 3.23 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 18 | 3.23 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 18 | 3.23 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 18 | 3.23 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 7 | 3.23 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 7 | 3.23 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 7 | 3.23 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 4 | 3.23 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 4 | 3.23 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 4 | 3.23 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 20 | 3.22 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 12 | 3.22 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 1 | 3.22 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 8 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 18 | 3.22 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 18 | 3.22 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 18 | 3.22 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 18 | 3.22 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 16 | 3.22 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 16 | 3.22 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 16 | 3.22 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 16 | 3.22 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 16 | 3.22 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 16 | 3.22 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 13 | 3.22 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 13 | 3.22 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 7 | 3.22 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 7 | 3.22 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 16 | 3.22 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 16 | 3.22 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 16 | 3.22 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 16 | 3.22 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 6 | 3.22 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 6 | 3.22 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 19 | 3.22 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 19 | 3.22 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 12 | 3.22 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 12 | 3.22 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 15 | 3.22 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 15 | 3.22 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 15 | 3.22 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 15 | 3.22 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 15 | 3.22 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 15 | 3.22 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 19 | 3.22 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 19 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 9 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 9 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 9 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 9 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 9 | 3.22 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 9 | 3.22 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 3 | 3.22 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 3 | 3.22 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 3 | 3.22 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 3 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 9 | 3.22 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 9 | 3.22 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 7 | 3.22 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 7 | 3.22 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 14 | 3.22 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 14 | 3.22 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 6 | 3.22 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 6 | 3.22 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 6 | 3.22 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 6 | 3.22 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 6 | 3.22 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 6 | 3.22 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 16 | 3.22 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 16 | 3.22 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 16 | 3.22 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 16 | 3.22 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 7 | 3.22 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 7 | 3.22 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 7 | 3.22 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 7 | 3.22 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 7 | 3.22 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 7 | 3.22 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 7 | 3.22 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 7 | 3.22 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 7 | 3.22 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 7 | 3.22 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 2 | 3.22 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 2 | 3.22 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 14 | 3.22 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 14 | 3.22 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 19 | 3.22 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 19 | 3.22 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 8 | 3.22 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 8 | 3.22 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 8 | 3.22 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 8 | 3.22 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 8 | 3.22 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 8 | 3.22 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 11 | 3.22 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 16 | 3.22 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 20 | 3.22 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 20 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 20 | 3.22 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 20 | 3.22 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 20 | 3.22 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 20 | 3.22 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 12 | 3.22 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 3 | 3.22 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 2 | 3.22 |
| (1,8076) | 1:90:A:ASN:HD21 | 1:91:A:GLY:H | 19 | 3.22 |
| (1,8076) | 1:90:A:ASN:HD22 | 1:91:A:GLY:H | 19 | 3.22 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 18 | 3.22 |
| (1,8050) | 1:88:A:LEU:HD11 | 1:89:A:ILE:H | 14 | 3.22 |
| (1,8050) | 1:88:A:LEU:HD12 | 1:89:A:ILE:H | 14 | 3.22 |
| (1,8050) | 1:88:A:LEU:HD13 | 1:89:A:ILE:H | 14 | 3.22 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 4 | 3.22 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 9 | 3.22 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 2 | 3.22 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 8 | 3.22 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 8 | 3.22 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 9 | 3.22 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 6 | 3.22 |
| (1,7545) | 1:16:A:SER:H | 1:22:A:VAL:HA | 10 | 3.22 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 1 | 3.22 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 18 | 3.22 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG12 | 12 | 3.22 |
| (1,7449) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HG13 | 12 | 3.22 |
| (1,7449) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HG13 | 12 | 3.22 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 17 | 3.22 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 17 | 3.22 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 17 | 3.22 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 10 | 3.22 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 10 | 3.22 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 10 | 3.22 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 4 | 3.22 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 4 | 3.22 |
| (1,7266) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 4 | 3.22 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 4 | 3.22 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 4 | 3.22 |
| (1,7266) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 4 | 3.22 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 4 | 3.22 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 4 | 3.22 |
| (1,7266) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 4 | 3.22 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 12 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 12 | 3.22 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 12 | 3.22 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 12 | 3.22 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 12 | 3.22 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 12 | 3.22 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 12 | 3.22 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 12 | 3.22 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 12 | 3.22 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 2 | 3.22 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 17 | 3.22 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 17 | 3.22 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 2 | 3.22 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 7 | 3.22 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 17 | 3.22 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 3.22 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 3.22 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 19 | 3.22 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 9 | 3.22 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 9 | 3.22 |
| (1,6891) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 9 | 3.22 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 14 | 3.22 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 6 | 3.22 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 7 | 3.22 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 12 | 3.22 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 19 | 3.22 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 16 | 3.22 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 16 | 3.22 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 16 | 3.22 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 8 | 3.22 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 15 | 3.22 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 15 | 3.22 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 15 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 10 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 10 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 10 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 10 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 10 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 10 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 10 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 10 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 10 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 19 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 19 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 19 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 19 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 19 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 19 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 19 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 19 | 3.22 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 19 | 3.22 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 9 | 3.22 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 9 | 3.22 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 9 | 3.22 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 10 | 3.22 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 10 | 3.22 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 10 | 3.22 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 17 | 3.22 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 17 | 3.22 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 17 | 3.22 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 6 | 3.22 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 16 | 3.22 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 16 | 3.22 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 16 | 3.22 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 13 | 3.22 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 15 | 3.22 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 15 | 3.22 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 15 | 3.22 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 12 | 3.22 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 2 | 3.22 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 19 | 3.22 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 19 | 3.22 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 19 | 3.22 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 18 | 3.22 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 1 | 3.22 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 1 | 3.22 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 14 | 3.22 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 14 | 3.22 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 14 | 3.22 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 18 | 3.22 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 18 | 3.22 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 18 | 3.22 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 18 | 3.22 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 18 | 3.22 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 18 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 18 | 3.22 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 18 | 3.22 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 18 | 3.22 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 8 | 3.22 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 8 | 3.22 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 8 | 3.22 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 19 | 3.22 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 19 | 3.22 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 19 | 3.22 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 16 | 3.22 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 3.22 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 15 | 3.22 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 20 | 3.22 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 10 | 3.22 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 10 | 3.22 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 10 | 3.22 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 10 | 3.22 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 10 | 3.22 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 10 | 3.22 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 17 | 3.22 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 17 | 3.22 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 17 | 3.22 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 17 | 3.22 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 17 | 3.22 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 17 | 3.22 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 17 | 3.22 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 17 | 3.22 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 17 | 3.22 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 4 | 3.22 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 2 | 3.22 |
| (1,5788) | 1:115:A:SER:HA | 1:117:A:LYS:H | 6 | 3.22 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 2 | 3.22 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 2 | 3.22 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 2 | 3.22 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 7 | 3.22 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 7 | 3.22 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 7 | 3.22 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 5 | 3.22 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 19 | 3.22 |
| (1,5604) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 19 | 3.22 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 15 | 3.22 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 15 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 15 | 3.22 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 5 | 3.22 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 5 | 3.22 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 5 | 3.22 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 17 | 3.22 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 17 | 3.22 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 17 | 3.22 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 10 | 3.22 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 10 | 3.22 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 10 | 3.22 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 13 | 3.22 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 13 | 3.22 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 13 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 1 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 1 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 1 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 2 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 2 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 2 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 6 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 6 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 6 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 7 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 7 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 7 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 8 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 8 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 8 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 10 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 10 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 10 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 11 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 11 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 11 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 12 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 12 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 12 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 14 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 14 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 14 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 15 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 15 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 15 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 16 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 16 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 16 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 17 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 17 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 17 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 18 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 18 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 18 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 19 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 19 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 19 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 20 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 20 | 3.22 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 20 | 3.22 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 9 | 3.22 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 9 | 3.22 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 9 | 3.22 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 8 | 3.22 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 17 | 3.22 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 17 | 3.22 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 17 | 3.22 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 18 | 3.22 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 18 | 3.22 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 18 | 3.22 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 3 | 3.22 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 4 | 3.22 |
| (1,5086) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 18 | 3.22 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 6 | 3.22 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 6 | 3.22 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 6 | 3.22 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 19 | 3.22 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 19 | 3.22 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 19 | 3.22 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 15 | 3.22 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 8 | 3.22 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 15 | 3.22 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 15 | 3.22 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 16 | 3.22 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 2 | 3.22 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 18 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 18 | 3.22 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 18 | 3.22 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 18 | 3.22 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 18 | 3.22 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 18 | 3.22 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 14 | 3.22 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 14 | 3.22 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 14 | 3.22 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 19 | 3.22 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 19 | 3.22 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 19 | 3.22 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 12 | 3.22 |
| (1,4748) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 4 | 3.22 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 16 | 3.22 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 17 | 3.22 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 9 | 3.22 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 9 | 3.22 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 10 | 3.22 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 10 | 3.22 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 10 | 3.22 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 4 | 3.22 |
| (1,4464) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 4 | 3.22 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 16 | 3.22 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 16 | 3.22 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 11 | 3.22 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 16 | 3.22 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 18 | 3.22 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 1 | 3.22 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 1 | 3.22 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 15 | 3.22 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 15 | 3.22 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 8 | 3.22 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 8 | 3.22 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 8 | 3.22 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 8 | 3.22 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 1 | 3.22 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 16 | 3.22 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 8 | 3.22 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 8 | 3.22 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 8 | 3.22 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 8 | 3.22 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 8 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 8 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 2 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 2 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 2 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 2 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 2 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 2 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 6 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 6 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 6 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 6 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 6 | 3.22 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 6 | 3.22 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 7 | 3.22 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 7 | 3.22 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 7 | 3.22 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 7 | 3.22 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 7 | 3.22 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 7 | 3.22 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 15 | 3.22 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 15 | 3.22 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 15 | 3.22 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 15 | 3.22 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 15 | 3.22 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 15 | 3.22 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 14 | 3.22 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 14 | 3.22 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 14 | 3.22 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 10 | 3.22 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 10 | 3.22 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 10 | 3.22 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 19 | 3.22 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 19 | 3.22 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 9 | 3.22 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 9 | 3.22 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 9 | 3.22 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 9 | 3.22 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 9 | 3.22 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 9 | 3.22 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 18 | 3.22 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 18 | 3.22 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 16 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 16 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 9 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 9 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 9 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 9 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 9 | 3.22 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 9 | 3.22 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 18 | 3.22 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 18 | 3.22 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 18 | 3.22 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 18 | 3.22 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 18 | 3.22 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 18 | 3.22 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 9 | 3.22 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 17 | 3.22 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 17 | 3.22 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 17 | 3.22 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 17 | 3.22 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 17 | 3.22 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 17 | 3.22 |
| (1,3980) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 18 | 3.22 |
| (1,3980) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 18 | 3.22 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 15 | 3.22 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 15 | 3.22 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 7 | 3.22 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 7 | 3.22 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 14 | 3.22 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 14 | 3.22 |
| (1,3830) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 1 | 3.22 |
| (1,3830) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 1 | 3.22 |
| (1,3830) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 1 | 3.22 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 10 | 3.22 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 10 | 3.22 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 10 | 3.22 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 10 | 3.22 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 10 | 3.22 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 10 | 3.22 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 5 | 3.22 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 5 | 3.22 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 7 | 3.22 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 7 | 3.22 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 7 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 7 | 3.22 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 7 | 3.22 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 7 | 3.22 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 7 | 3.22 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 7 | 3.22 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 18 | 3.22 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 18 | 3.22 |
| (1,3691) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 18 | 3.22 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 18 | 3.22 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 18 | 3.22 |
| (1,3691) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 18 | 3.22 |
| (1,3690) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 11 | 3.22 |
| (1,3690) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 11 | 3.22 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 2 | 3.22 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 2 | 3.22 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 16 | 3.22 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 16 | 3.22 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 13 | 3.22 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 14 | 3.22 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 19 | 3.22 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 19 | 3.22 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 1 | 3.22 |
| (1,3601) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 1 | 3.22 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 1 | 3.22 |
| (1,3601) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 1 | 3.22 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 15 | 3.22 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 15 | 3.22 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 15 | 3.22 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 15 | 3.22 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 9 | 3.22 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 8 | 3.22 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 8 | 3.22 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 8 | 3.22 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 8 | 3.22 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 8 | 3.22 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 8 | 3.22 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 10 | 3.22 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 3.22 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 10 | 3.22 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 3 | 3.22 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 3 | 3.22 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 3 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 3 | 3.22 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 3 | 3.22 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 3 | 3.22 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 11 | 3.22 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 13 | 3.22 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 13 | 3.22 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 4 | 3.22 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 4 | 3.22 |
| (1,3478) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 4 | 3.22 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 4 | 3.22 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 4 | 3.22 |
| (1,3478) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 4 | 3.22 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 4 | 3.22 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 4 | 3.22 |
| (1,3478) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 4 | 3.22 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 12 | 3.22 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 12 | 3.22 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 12 | 3.22 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 12 | 3.22 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 12 | 3.22 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 12 | 3.22 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 12 | 3.22 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 12 | 3.22 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 12 | 3.22 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 2 | 3.22 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 17 | 3.22 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 13 | 3.22 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 13 | 3.22 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 13 | 3.22 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 14 | 3.22 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 11 | 3.22 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 17 | 3.22 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 17 | 3.22 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 2 | 3.22 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 7 | 3.22 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 17 | 3.22 |
| (1,3188) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 18 | 3.22 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 3.22 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 3.22 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 6 | 3.22 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 6 | 3.22 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 6 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 8 | 3.22 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 8 | 3.22 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 8 | 3.22 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 15 | 3.22 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 13 | 3.22 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 19 | 3.22 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 9 | 3.22 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 9 | 3.22 |
| (1,2888) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 9 | 3.22 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 14 | 3.22 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 6 | 3.22 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 14 | 3.22 |
| (1,2764) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 14 | 3.22 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 15 | 3.22 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 15 | 3.22 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 15 | 3.22 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 15 | 3.22 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 15 | 3.22 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 15 | 3.22 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 12 | 3.22 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 12 | 3.22 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 12 | 3.22 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 12 | 3.22 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 19 | 3.22 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 12 | 3.22 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 12 | 3.22 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 12 | 3.22 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 16 | 3.22 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 16 | 3.22 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 16 | 3.22 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 20 | 3.22 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 17 | 3.22 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 11 | 3.22 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 2 | 3.22 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 14 | 3.22 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 19 | 3.22 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 5 | 3.22 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 8 | 3.22 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 15 | 3.22 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 15 | 3.22 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 15 | 3.22 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 6 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 6 | 3.22 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 6 | 3.22 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 6 | 3.22 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 15 | 3.22 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 15 | 3.22 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 15 | 3.22 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 5 | 3.22 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 10 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 10 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 10 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 10 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 10 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 10 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 10 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 10 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 10 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 19 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 19 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 19 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 19 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 19 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 19 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 19 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 19 | 3.22 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 19 | 3.22 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 9 | 3.22 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 9 | 3.22 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 9 | 3.22 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 10 | 3.22 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 10 | 3.22 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 10 | 3.22 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 17 | 3.22 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 17 | 3.22 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 17 | 3.22 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 6 | 3.22 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 6 | 3.22 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 6 | 3.22 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 16 | 3.22 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 16 | 3.22 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 16 | 3.22 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 16 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 16 | 3.22 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 16 | 3.22 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 15 | 3.22 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 15 | 3.22 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 15 | 3.22 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 2 | 3.22 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 2 | 3.22 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 2 | 3.22 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 12 | 3.22 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 12 | 3.22 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 19 | 3.22 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 19 | 3.22 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 19 | 3.22 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 1 | 3.22 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 1 | 3.22 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 14 | 3.22 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 14 | 3.22 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 9 | 3.22 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 4 | 3.22 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 4 | 3.22 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 4 | 3.22 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 14 | 3.22 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 18 | 3.22 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 18 | 3.22 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 18 | 3.22 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 18 | 3.22 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 18 | 3.22 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 18 | 3.22 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 18 | 3.22 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 18 | 3.22 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 18 | 3.22 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 19 | 3.22 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 19 | 3.22 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 19 | 3.22 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 4 | 3.22 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 16 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 2 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 2 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 3 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 3 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 4 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 4 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 5 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 5 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 8 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 8 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 9 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 9 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 12 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 12 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 13 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 13 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 14 | 3.22 |
| (1,1528) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 14 | 3.22 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 10 | 3.22 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 3.22 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 15 | 3.22 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 20 | 3.22 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 10 | 3.22 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 10 | 3.22 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 10 | 3.22 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 10 | 3.22 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 10 | 3.22 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 10 | 3.22 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 17 | 3.22 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 17 | 3.22 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 17 | 3.22 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 17 | 3.22 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 17 | 3.22 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 17 | 3.22 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 17 | 3.22 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 17 | 3.22 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 17 | 3.22 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 4 | 3.22 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 4 | 3.22 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 2 | 3.22 |
| (1,1184) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 4 | 3.22 |
| (1,1144) | 1:115:A:SER:HA | 1:117:A:LYS:H | 6 | 3.22 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 5 | 3.22 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 3 | 3.22 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 14 | 3.22 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 2 | 3.22 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 2 | 3.22 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 2 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 7 | 3.22 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 7 | 3.22 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 7 | 3.22 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 10 | 3.22 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 5 | 3.22 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 19 | 3.22 |
| (1,790) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 19 | 3.22 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 4 | 3.22 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 4 | 3.22 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 8 | 3.22 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 15 | 3.22 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 15 | 3.22 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 15 | 3.22 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 5 | 3.22 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 5 | 3.22 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 5 | 3.22 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 17 | 3.22 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 17 | 3.22 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 17 | 3.22 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 10 | 3.22 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 10 | 3.22 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 10 | 3.22 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 4 | 3.22 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 4 | 3.22 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 6 | 3.22 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 6 | 3.22 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 14 | 3.22 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 14 | 3.22 |
| (1,608) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 17 | 3.22 |
| (1,608) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 17 | 3.22 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 19 | 3.22 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 13 | 3.22 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 12 | 3.22 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 12 | 3.22 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 12 | 3.22 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 13 | 3.22 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 13 | 3.22 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 13 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 1 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 1 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 1 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 2 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 2 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 2 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 6 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 6 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 6 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 7 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 7 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 7 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 8 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 8 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 8 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 10 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 10 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 10 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 11 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 11 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 11 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 12 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 12 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 12 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 14 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 14 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 14 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 15 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 15 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 15 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 16 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 16 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 16 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 17 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 17 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 17 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 18 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 18 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 18 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 19 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 19 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 19 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 20 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 20 | 3.22 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 20 | 3.22 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 7 | 3.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 1 | 3.22 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 1 | 3.22 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 1 | 3.22 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 8 | 3.22 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 8 | 3.22 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 8 | 3.22 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 17 | 3.21 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 14 | 3.21 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 15 | 3.21 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 9 | 3.21 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 9 | 3.21 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 7 | 3.21 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 20 | 3.21 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 2 | 3.21 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 2 | 3.21 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 2 | 3.21 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 2 | 3.21 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 2 | 3.21 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 2 | 3.21 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 15 | 3.21 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 15 | 3.21 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 15 | 3.21 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 15 | 3.21 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 15 | 3.21 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 15 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 1 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 1 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 1 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 1 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 1 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 1 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 7 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 7 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 7 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 7 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 7 | 3.21 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 7 | 3.21 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 17 | 3.21 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 17 | 3.21 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 17 | 3.21 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 17 | 3.21 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 8 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 8 | 3.21 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 5 | 3.21 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 5 | 3.21 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 5 | 3.21 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 5 | 3.21 |
| (1,9132) | 1:89:A:ILE:HG12 | 1:90:A:ASN:H | 19 | 3.21 |
| (1,9132) | 1:89:A:ILE:HG13 | 1:90:A:ASN:H | 19 | 3.21 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 17 | 3.21 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 17 | 3.21 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 20 | 3.21 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 20 | 3.21 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 20 | 3.21 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 20 | 3.21 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 20 | 3.21 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 20 | 3.21 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 13 | 3.21 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 13 | 3.21 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 7 | 3.21 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 7 | 3.21 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 6 | 3.21 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 6 | 3.21 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 6 | 3.21 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 6 | 3.21 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 5 | 3.21 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 5 | 3.21 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 5 | 3.21 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 5 | 3.21 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 8 | 3.21 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 8 | 3.21 |
| (1,8842) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 8 | 3.21 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 8 | 3.21 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 8 | 3.21 |
| (1,8842) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 8 | 3.21 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 2 | 3.21 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 2 | 3.21 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 2 | 3.21 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 2 | 3.21 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 4 | 3.21 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 4 | 3.21 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 3 | 3.21 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 3 | 3.21 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 10 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 10 | 3.21 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 10 | 3.21 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 10 | 3.21 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 5 | 3.21 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 5 | 3.21 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 5 | 3.21 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 5 | 3.21 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 5 | 3.21 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 5 | 3.21 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 20 | 3.21 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 20 | 3.21 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 20 | 3.21 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 13 | 3.21 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 13 | 3.21 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 17 | 3.21 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 16 | 3.21 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 16 | 3.21 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 16 | 3.21 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 4 | 3.21 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 18 | 3.21 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 11 | 3.21 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 2 | 3.21 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 2 | 3.21 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 2 | 3.21 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 5 | 3.21 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 20 | 3.21 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 15 | 3.21 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 15 | 3.21 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 15 | 3.21 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 15 | 3.21 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 11 | 3.21 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 11 | 3.21 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 11 | 3.21 |
| (1,7624) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 10 | 3.21 |
| (1,7624) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 10 | 3.21 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 5 | 3.21 |
| (1,7456) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 10 | 3.21 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 12 | 3.21 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 12 | 3.21 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 2 | 3.21 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 2 | 3.21 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 2 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 17 | 3.21 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 7 | 3.21 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 9 | 3.21 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 9 | 3.21 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 8 | 3.21 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 1 | 3.21 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 1 | 3.21 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 2 | 3.21 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 3 | 3.21 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 20 | 3.21 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 15 | 3.21 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 4 | 3.21 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 7 | 3.21 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 16 | 3.21 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 8 | 3.21 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 15 | 3.21 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 15 | 3.21 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 6 | 3.21 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 6 | 3.21 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 6 | 3.21 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 6 | 3.21 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 6 | 3.21 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 6 | 3.21 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 6 | 3.21 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 6 | 3.21 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 6 | 3.21 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 11 | 3.21 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 11 | 3.21 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 11 | 3.21 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 18 | 3.21 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 13 | 3.21 |
| (1,6584) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 18 | 3.21 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 20 | 3.21 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 2 | 3.21 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 3 | 3.21 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 19 | 3.21 |
| (1,6456) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 15 | 3.21 |
| (1,6456) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 15 | 3.21 |
| (1,6456) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 15 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 2 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 2 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 2 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 4 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 4 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 4 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 8 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 8 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 8 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 12 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 12 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 12 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 15 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 15 | 3.21 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 15 | 3.21 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 13 | 3.21 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 13 | 3.21 |
| (1,6300) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 3 | 3.21 |
| (1,6300) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 3 | 3.21 |
| (1,6300) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 3 | 3.21 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 1 | 3.21 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 18 | 3.21 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 18 | 3.21 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 18 | 3.21 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 20 | 3.21 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 20 | 3.21 |
| (1,6173) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 17 | 3.21 |
| (1,6173) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 17 | 3.21 |
| (1,6173) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 17 | 3.21 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 16 | 3.21 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 9 | 3.21 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 9 | 3.21 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 9 | 3.21 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 7 | 3.21 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 7 | 3.21 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 7 | 3.21 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 9 | 3.21 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 18 | 3.21 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 19 | 3.21 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 19 | 3.21 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 19 | 3.21 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 10 | 3.21 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 2 | 3.21 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 14 | 3.21 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 10 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 3 | 3.21 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 3 | 3.21 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 3 | 3.21 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 7 | 3.21 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 3 | 3.21 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 3 | 3.21 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 6 | 3.21 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 19 | 3.21 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 6 | 3.21 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 10 | 3.21 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 10 | 3.21 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 11 | 3.21 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 11 | 3.21 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 1 | 3.21 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 1 | 3.21 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 12 | 3.21 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 17 | 3.21 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 17 | 3.21 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 17 | 3.21 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 17 | 3.21 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 17 | 3.21 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 17 | 3.21 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 17 | 3.21 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 17 | 3.21 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 17 | 3.21 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 8 | 3.21 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 8 | 3.21 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 8 | 3.21 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 3 | 3.21 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 3 | 3.21 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 3 | 3.21 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 5 | 3.21 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 5 | 3.21 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 5 | 3.21 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 13 | 3.21 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 13 | 3.21 |
| (1,5460) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 13 | 3.21 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 7 | 3.21 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 7 | 3.21 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 7 | 3.21 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 1 | 3.21 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 5 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 9 | 3.21 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 10 | 3.21 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 10 | 3.21 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 10 | 3.21 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 10 | 3.21 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 10 | 3.21 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 10 | 3.21 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 10 | 3.21 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 10 | 3.21 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 10 | 3.21 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 2 | 3.21 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 2 | 3.21 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 2 | 3.21 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 17 | 3.21 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 13 | 3.21 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 13 | 3.21 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 13 | 3.21 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 15 | 3.21 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 2 | 3.21 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 2 | 3.21 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 2 | 3.21 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 11 | 3.21 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 11 | 3.21 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 11 | 3.21 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 14 | 3.21 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 2 | 3.21 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 2 | 3.21 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 2 | 3.21 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 2 | 3.21 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 4 | 3.21 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 20 | 3.21 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 13 | 3.21 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 13 | 3.21 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 13 | 3.21 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 20 | 3.21 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 6 | 3.21 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 19 | 3.21 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 19 | 3.21 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 19 | 3.21 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 3.21 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 4 | 3.21 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 4 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 4 | 3.21 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 5 | 3.21 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 5 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 1 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 1 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 1 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 1 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 1 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 1 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 7 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 7 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 7 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 7 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 7 | 3.21 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 7 | 3.21 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 1 | 3.21 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 1 | 3.21 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 1 | 3.21 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 1 | 3.21 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 9 | 3.21 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 9 | 3.21 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 9 | 3.21 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 2 | 3.21 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 2 | 3.21 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 2 | 3.21 |
| (1,4360) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 10 | 3.21 |
| (1,4301) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 11 | 3.21 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 2 | 3.21 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 2 | 3.21 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 2 | 3.21 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 8 | 3.21 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 8 | 3.21 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 5 | 3.21 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 5 | 3.21 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 5 | 3.21 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 5 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 2 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 2 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 2 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 2 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 2 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 2 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 5 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 5 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 5 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 5 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 5 | 3.21 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 5 | 3.21 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 9 | 3.21 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 9 | 3.21 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 9 | 3.21 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 10 | 3.21 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 10 | 3.21 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 4 | 3.21 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 4 | 3.21 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 18 | 3.21 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 20 | 3.21 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 20 | 3.21 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 20 | 3.21 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 20 | 3.21 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 20 | 3.21 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 20 | 3.21 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 19 | 3.21 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 13 | 3.21 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 13 | 3.21 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 7 | 3.21 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 7 | 3.21 |
| (1,3850) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 8 | 3.21 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 11 | 3.21 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 5 | 3.21 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 5 | 3.21 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 5 | 3.21 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 5 | 3.21 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 10 | 3.21 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 10 | 3.21 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 10 | 3.21 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 10 | 3.21 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 10 | 3.21 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 10 | 3.21 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 8 | 3.21 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 8 | 3.21 |
| (1,3802) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 8 | 3.21 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 8 | 3.21 |
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 8 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3802) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 8 | 3.21 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 5 | 3.21 |
| (1,3767) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 15 | 3.21 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 14 | 3.21 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 14 | 3.21 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 14 | 3.21 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 7 | 3.21 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 7 | 3.21 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 11 | 3.21 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 11 | 3.21 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 19 | 3.21 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 19 | 3.21 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 4 | 3.21 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 4 | 3.21 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 2 | 3.21 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 2 | 3.21 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 17 | 3.21 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 17 | 3.21 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 20 | 3.21 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 20 | 3.21 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 3.21 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 6 | 3.21 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 6 | 3.21 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 6 | 3.21 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 6 | 3.21 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 6 | 3.21 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 6 | 3.21 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 3 | 3.21 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 3 | 3.21 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 15 | 3.21 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 15 | 3.21 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 16 | 3.21 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 14 | 3.21 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 19 | 3.21 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 1 | 3.21 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 14 | 3.21 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 3 | 3.21 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 20 | 3.21 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 15 | 3.21 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 15 | 3.21 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 12 | 3.21 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 5 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 4 | 3.21 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 7 | 3.21 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 8 | 3.21 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 15 | 3.21 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 15 | 3.21 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 8 | 3.21 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 8 | 3.21 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 8 | 3.21 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 6 | 3.21 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 6 | 3.21 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 6 | 3.21 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 6 | 3.21 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 6 | 3.21 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 6 | 3.21 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 6 | 3.21 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 6 | 3.21 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 6 | 3.21 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 11 | 3.21 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 11 | 3.21 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 11 | 3.21 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 18 | 3.21 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 13 | 3.21 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 3 | 3.21 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 19 | 3.21 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 19 | 3.21 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 19 | 3.21 |
| (1,2519) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 14 | 3.21 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 5 | 3.21 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 20 | 3.21 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 7 | 3.21 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 7 | 3.21 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 7 | 3.21 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 2 | 3.21 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 3 | 3.21 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 19 | 3.21 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 4 | 3.21 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 15 | 3.21 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 9 | 3.21 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 12 | 3.21 |
| (1,2210) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 15 | 3.21 |
| (1,2210) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 15 | 3.21 |
| (1,2210) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 15 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 2 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 2 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 2 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 4 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 4 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 4 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 8 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 8 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 8 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 12 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 12 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 12 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 15 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 15 | 3.21 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 15 | 3.21 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 13 | 3.21 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 13 | 3.21 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 15 | 3.21 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 15 | 3.21 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 15 | 3.21 |
| (1,1972) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 3 | 3.21 |
| (1,1972) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 3 | 3.21 |
| (1,1972) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 3 | 3.21 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 1 | 3.21 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 18 | 3.21 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 18 | 3.21 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 18 | 3.21 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 20 | 3.21 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 20 | 3.21 |
| (1,1776) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 17 | 3.21 |
| (1,1776) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 17 | 3.21 |
| (1,1776) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 17 | 3.21 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 16 | 3.21 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 9 | 3.21 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 9 | 3.21 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 9 | 3.21 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 7 | 3.21 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 7 | 3.21 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 7 | 3.21 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 5 | 3.21 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 9 | 3.21 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 18 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 4 | 3.21 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 4 | 3.21 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 4 | 3.21 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 19 | 3.21 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 19 | 3.21 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 19 | 3.21 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 10 | 3.21 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 8 | 3.21 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 8 | 3.21 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 8 | 3.21 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 2 | 3.21 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 14 | 3.21 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 10 | 3.21 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 3 | 3.21 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 3 | 3.21 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 3 | 3.21 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 8 | 3.21 |
| (1,1189) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 6 | 3.21 |
| (1,1189) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 6 | 3.21 |
| (1,1189) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 6 | 3.21 |
| (1,1092) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 9 | 3.21 |
| (1,1092) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 9 | 3.21 |
| (1,1092) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 9 | 3.21 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 7 | 3.21 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 3 | 3.21 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 3 | 3.21 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 6 | 3.21 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 19 | 3.21 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 20 | 3.21 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 6 | 3.21 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 10 | 3.21 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 10 | 3.21 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 11 | 3.21 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 11 | 3.21 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 1 | 3.21 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 1 | 3.21 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 15 | 3.21 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 12 | 3.21 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 3 | 3.21 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 17 | 3.21 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 17 | 3.21 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 17 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 17 | 3.21 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 17 | 3.21 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 17 | 3.21 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 17 | 3.21 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 17 | 3.21 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 17 | 3.21 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 8 | 3.21 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 8 | 3.21 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 8 | 3.21 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 3 | 3.21 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 3 | 3.21 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 3 | 3.21 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 5 | 3.21 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 5 | 3.21 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 5 | 3.21 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 13 | 3.21 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 13 | 3.21 |
| (1,560) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 13 | 3.21 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 5 | 3.21 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 5 | 3.21 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 20 | 3.21 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 10 | 3.21 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 10 | 3.21 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 4 | 3.21 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 4 | 3.21 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 4 | 3.21 |
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 3 | 3.2 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 3 | 3.2 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 3 | 3.2 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 13 | 3.2 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 13 | 3.2 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 4 | 3.2 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 4 | 3.2 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 10 | 3.2 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 10 | 3.2 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 10 | 3.2 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 10 | 3.2 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 10 | 3.2 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 10 | 3.2 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 17 | 3.2 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 17 | 3.2 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 17 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 17 | 3.2 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 17 | 3.2 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 17 | 3.2 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 17 | 3.2 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 17 | 3.2 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 4 | 3.2 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 4 | 3.2 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 4 | 3.2 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 4 | 3.2 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 7 | 3.2 |
| (1,9492) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 7 | 3.2 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 7 | 3.2 |
| (1,9492) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 7 | 3.2 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 16 | 3.2 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 16 | 3.2 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 3 | 3.2 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 3 | 3.2 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 6 | 3.2 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 6 | 3.2 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 6 | 3.2 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 6 | 3.2 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 6 | 3.2 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 6 | 3.2 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 14 | 3.2 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 14 | 3.2 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 14 | 3.2 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 14 | 3.2 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 14 | 3.2 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 14 | 3.2 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 7 | 3.2 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 7 | 3.2 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 7 | 3.2 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 7 | 3.2 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 10 | 3.2 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 10 | 3.2 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 10 | 3.2 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 10 | 3.2 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 3 | 3.2 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 3 | 3.2 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 3 | 3.2 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 3 | 3.2 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 5 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 5 | 3.2 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 11 | 3.2 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 11 | 3.2 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 11 | 3.2 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 11 | 3.2 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 11 | 3.2 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 11 | 3.2 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 16 | 3.2 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 16 | 3.2 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 16 | 3.2 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 16 | 3.2 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 16 | 3.2 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 16 | 3.2 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 15 | 3.2 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 15 | 3.2 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 17 | 3.2 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 17 | 3.2 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 9 | 3.2 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 9 | 3.2 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 18 | 3.2 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 18 | 3.2 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 19 | 3.2 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 19 | 3.2 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 19 | 3.2 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 19 | 3.2 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 3.2 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 3.2 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 5 | 3.2 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 5 | 3.2 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 1 | 3.2 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 1 | 3.2 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 17 | 3.2 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 17 | 3.2 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 17 | 3.2 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 17 | 3.2 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 17 | 3.2 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 17 | 3.2 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 17 | 3.2 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 17 | 3.2 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 17 | 3.2 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 17 | 3.2 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 8 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 7 | 3.2 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 7 | 3.2 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 7 | 3.2 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 7 | 3.2 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 7 | 3.2 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 7 | 3.2 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 5 | 3.2 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 14 | 3.2 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 14 | 3.2 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 14 | 3.2 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 12 | 3.2 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 12 | 3.2 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 12 | 3.2 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 12 | 3.2 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 12 | 3.2 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 12 | 3.2 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 12 | 3.2 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 12 | 3.2 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 12 | 3.2 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 12 | 3.2 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 12 | 3.2 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 12 | 3.2 |
| (1,7792) | 1:59:A:HIS:HA | 1:160:A:LEU:H | 20 | 3.2 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 14 | 3.2 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 3 | 3.2 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 3 | 3.2 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 3 | 3.2 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 3 | 3.2 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 3 | 3.2 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 3 | 3.2 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 16 | 3.2 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 16 | 3.2 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 18 | 3.2 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 19 | 3.2 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 5 | 3.2 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 2 | 3.2 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 2 | 3.2 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 2 | 3.2 |
| (1,7156) | 1:95:A:LYS:H | 1:97:A:LYS:H | 10 | 3.2 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 8 | 3.2 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 8 | 3.2 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 8 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 12 | 3.2 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 1 | 3.2 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 1 | 3.2 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 19 | 3.2 |
| (1,6950) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 12 | 3.2 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 3 | 3.2 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 3 | 3.2 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 7 | 3.2 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 7 | 3.2 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 13 | 3.2 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 2 | 3.2 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 8 | 3.2 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 11 | 3.2 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 4 | 3.2 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 9 | 3.2 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 1 | 3.2 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 1 | 3.2 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 1 | 3.2 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 12 | 3.2 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 12 | 3.2 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 12 | 3.2 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 10 | 3.2 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 4 | 3.2 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 8 | 3.2 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 8 | 3.2 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 8 | 3.2 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 11 | 3.2 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 11 | 3.2 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 13 | 3.2 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 13 | 3.2 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 13 | 3.2 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 11 | 3.2 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 11 | 3.2 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 11 | 3.2 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 5 | 3.2 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 8 | 3.2 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 15 | 3.2 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 15 | 3.2 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 15 | 3.2 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 14 | 3.2 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 14 | 3.2 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 14 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 10 | 3.2 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 10 | 3.2 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 19 | 3.2 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 19 | 3.2 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 1 | 3.2 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 2 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 9 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 9 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 9 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 9 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 9 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 9 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 9 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 9 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 9 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 20 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 20 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 20 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 20 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 20 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 20 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 20 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 20 | 3.2 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 20 | 3.2 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 17 | 3.2 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 6 | 3.2 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 16 | 3.2 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 12 | 3.2 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 12 | 3.2 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 12 | 3.2 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 20 | 3.2 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 20 | 3.2 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 20 | 3.2 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 20 | 3.2 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 20 | 3.2 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 20 | 3.2 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 9 | 3.2 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 9 | 3.2 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 4 | 3.2 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 4 | 3.2 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 4 | 3.2 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 8 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 8 | 3.2 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 8 | 3.2 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 1 | 3.2 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 2 | 3.2 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 2 | 3.2 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 2 | 3.2 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 5 | 3.2 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 5 | 3.2 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 5 | 3.2 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 2 | 3.2 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 19 | 3.2 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 19 | 3.2 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 19 | 3.2 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 1 | 3.2 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 6 | 3.2 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 3 | 3.2 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 11 | 3.2 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 11 | 3.2 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 11 | 3.2 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 8 | 3.2 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 4 | 3.2 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 4 | 3.2 |
| (1,5559) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 4 | 3.2 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 2 | 3.2 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 2 | 3.2 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 2 | 3.2 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 2 | 3.2 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 2 | 3.2 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 2 | 3.2 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 6 | 3.2 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 8 | 3.2 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 2 | 3.2 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 12 | 3.2 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 13 | 3.2 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 13 | 3.2 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 13 | 3.2 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 1 | 3.2 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 1 | 3.2 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 1 | 3.2 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 1 | 3.2 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 1 | 3.2 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 1 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5179) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 15 | 3.2 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 12 | 3.2 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 12 | 3.2 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 12 | 3.2 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 19 | 3.2 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 19 | 3.2 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 19 | 3.2 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 4 | 3.2 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 4 | 3.2 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 4 | 3.2 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 3 | 3.2 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 3 | 3.2 |
| (1,5017) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 3 | 3.2 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 6 | 3.2 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 6 | 3.2 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 6 | 3.2 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 20 | 3.2 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 16 | 3.2 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 11 | 3.2 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 10 | 3.2 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 10 | 3.2 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 10 | 3.2 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 2 | 3.2 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 2 | 3.2 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 2 | 3.2 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 5 | 3.2 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 5 | 3.2 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 5 | 3.2 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 6 | 3.2 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 6 | 3.2 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 6 | 3.2 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 5 | 3.2 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 5 | 3.2 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 5 | 3.2 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 14 | 3.2 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 14 | 3.2 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 14 | 3.2 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 11 | 3.2 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 11 | 3.2 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 11 | 3.2 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 11 | 3.2 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 11 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 11 | 3.2 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 1 | 3.2 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 1 | 3.2 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 14 | 3.2 |
| (1,4625) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 14 | 3.2 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 14 | 3.2 |
| (1,4625) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 14 | 3.2 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 12 | 3.2 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 12 | 3.2 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 4 | 3.2 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 4 | 3.2 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 8 | 3.2 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 8 | 3.2 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 8 | 3.2 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 19 | 3.2 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 14 | 3.2 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 17 | 3.2 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 17 | 3.2 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 17 | 3.2 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 17 | 3.2 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 17 | 3.2 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 17 | 3.2 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 7 | 3.2 |
| (1,4482) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 7 | 3.2 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 7 | 3.2 |
| (1,4482) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 7 | 3.2 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 10 | 3.2 |
| (1,4435) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 10 | 3.2 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 8 | 3.2 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 8 | 3.2 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 16 | 3.2 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 16 | 3.2 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 11 | 3.2 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 6 | 3.2 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 6 | 3.2 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 6 | 3.2 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 6 | 3.2 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 6 | 3.2 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 6 | 3.2 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 9 | 3.2 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 9 | 3.2 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 12 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 12 | 3.2 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 12 | 3.2 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 19 | 3.2 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 19 | 3.2 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 19 | 3.2 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 7 | 3.2 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 7 | 3.2 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 3 | 3.2 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 15 | 3.2 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 15 | 3.2 |
| (1,4134) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 1 | 3.2 |
| (1,4134) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 1 | 3.2 |
| (1,4134) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 1 | 3.2 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 6 | 3.2 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 6 | 3.2 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 6 | 3.2 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 6 | 3.2 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 6 | 3.2 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 6 | 3.2 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 14 | 3.2 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 14 | 3.2 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 14 | 3.2 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 14 | 3.2 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 14 | 3.2 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 14 | 3.2 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 20 | 3.2 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 20 | 3.2 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 20 | 3.2 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 7 | 3.2 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 7 | 3.2 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 18 | 3.2 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 16 | 3.2 |
| (1,3903) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 16 | 3.2 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 17 | 3.2 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 14 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 5 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 5 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 5 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 5 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 5 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 5 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 18 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 18 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 18 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 18 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 18 | 3.2 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 18 | 3.2 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 16 | 3.2 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 16 | 3.2 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 16 | 3.2 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 16 | 3.2 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 16 | 3.2 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 16 | 3.2 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 2 | 3.2 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 18 | 3.2 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 18 | 3.2 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 6 | 3.2 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 9 | 3.2 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 3 | 3.2 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 3 | 3.2 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 1 | 3.2 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 1 | 3.2 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 4 | 3.2 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 4 | 3.2 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 14 | 3.2 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 14 | 3.2 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 14 | 3.2 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 14 | 3.2 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 7 | 3.2 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 7 | 3.2 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 7 | 3.2 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 7 | 3.2 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 1 | 3.2 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 1 | 3.2 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 1 | 3.2 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 1 | 3.2 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 3.2 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 3.2 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 14 | 3.2 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 14 | 3.2 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 5 | 3.2 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 5 | 3.2 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 1 | 3.2 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 1 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 5 | 3.2 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 2 | 3.2 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 2 | 3.2 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 2 | 3.2 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 19 | 3.2 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 16 | 3.2 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 16 | 3.2 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 16 | 3.2 |
| (1,3266) | 1:95:A:LYS:H | 1:97:A:LYS:H | 10 | 3.2 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 8 | 3.2 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 8 | 3.2 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 8 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 2 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 2 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 2 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 3 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 3 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 3 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 7 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 7 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 7 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 8 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 8 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 8 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 9 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 9 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 9 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 11 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 11 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 11 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 13 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 13 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 13 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 17 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 17 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 17 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 18 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 18 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 18 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 19 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 19 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 19 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 20 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 20 | 3.2 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 20 | 3.2 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 2 | 3.2 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 3 | 3.2 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 3 | 3.2 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 3 | 3.2 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 3 | 3.2 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 3 | 3.2 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 5 | 3.2 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 5 | 3.2 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 5 | 3.2 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 12 | 3.2 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 6 | 3.2 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 13 | 3.2 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 1 | 3.2 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 1 | 3.2 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 19 | 3.2 |
| (1,2970) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 12 | 3.2 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 8 | 3.2 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 11 | 3.2 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 1 | 3.2 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 1 | 3.2 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 1 | 3.2 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 14 | 3.2 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 14 | 3.2 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 14 | 3.2 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 18 | 3.2 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 18 | 3.2 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 18 | 3.2 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 9 | 3.2 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 3 | 3.2 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 3 | 3.2 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 7 | 3.2 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 7 | 3.2 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 15 | 3.2 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 13 | 3.2 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 14 | 3.2 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 14 | 3.2 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 14 | 3.2 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 8 | 3.2 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 11 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 4 | 3.2 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 9 | 3.2 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 1 | 3.2 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 1 | 3.2 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 1 | 3.2 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 12 | 3.2 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 12 | 3.2 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 12 | 3.2 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 10 | 3.2 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 16 | 3.2 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 6 | 3.2 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 11 | 3.2 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 4 | 3.2 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 13 | 3.2 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 8 | 3.2 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 8 | 3.2 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 8 | 3.2 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 14 | 3.2 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 14 | 3.2 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 14 | 3.2 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 20 | 3.2 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 20 | 3.2 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 20 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 4 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 4 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 4 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 12 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 12 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 12 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 14 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 14 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 14 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 15 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 15 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 15 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 19 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 19 | 3.2 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 19 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 1 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 1 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 1 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 7 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 7 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 7 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 9 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 9 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 9 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 11 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 11 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 11 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 20 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 20 | 3.2 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 20 | 3.2 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 11 | 3.2 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 11 | 3.2 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 13 | 3.2 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 13 | 3.2 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 13 | 3.2 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 6 | 3.2 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 6 | 3.2 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 6 | 3.2 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 8 | 3.2 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 8 | 3.2 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 8 | 3.2 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 5 | 3.2 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 8 | 3.2 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 15 | 3.2 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 17 | 3.2 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 17 | 3.2 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 17 | 3.2 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 15 | 3.2 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 15 | 3.2 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 15 | 3.2 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 14 | 3.2 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 14 | 3.2 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 14 | 3.2 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 10 | 3.2 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 10 | 3.2 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 19 | 3.2 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 19 | 3.2 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 10 | 3.2 |
| (1,1692) | 1:138:A:SER:HA | 1:139:A:PHE:H | 4 | 3.2 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 1 | 3.2 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 2 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 9 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 9 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 9 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 9 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 9 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 9 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 9 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 9 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 9 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 20 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 20 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 20 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 20 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 20 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 20 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 20 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 20 | 3.2 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 20 | 3.2 |
| (1,1644) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 19 | 3.2 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 17 | 3.2 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 6 | 3.2 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 16 | 3.2 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 12 | 3.2 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 12 | 3.2 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 12 | 3.2 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 20 | 3.2 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 20 | 3.2 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 20 | 3.2 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 20 | 3.2 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 20 | 3.2 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 20 | 3.2 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 10 | 3.2 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 10 | 3.2 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 10 | 3.2 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 10 | 3.2 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 10 | 3.2 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 10 | 3.2 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 9 | 3.2 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 9 | 3.2 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 4 | 3.2 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 4 | 3.2 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 4 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 8 | 3.2 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 8 | 3.2 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 8 | 3.2 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 1 | 3.2 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 9 | 3.2 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 19 | 3.2 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 20 | 3.2 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 2 | 3.2 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 2 | 3.2 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 2 | 3.2 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 10 | 3.2 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 4 | 3.2 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 5 | 3.2 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 5 | 3.2 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 5 | 3.2 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 2 | 3.2 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 12 | 3.2 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 19 | 3.2 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 19 | 3.2 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 19 | 3.2 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 5 | 3.2 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 15 | 3.2 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 9 | 3.2 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 1 | 3.2 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 6 | 3.2 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 3 | 3.2 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 10 | 3.2 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 19 | 3.2 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 19 | 3.2 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 19 | 3.2 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 19 | 3.2 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 19 | 3.2 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 19 | 3.2 |
| (1,860) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 3 | 3.2 |
| (1,860) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 3 | 3.2 |
| (1,860) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 3 | 3.2 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 11 | 3.2 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 11 | 3.2 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 11 | 3.2 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 8 | 3.2 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 14 | 3.2 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 6 | 3.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 6 | 3.2 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 4 | 3.2 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 4 | 3.2 |
| (1,722) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 4 | 3.2 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 13 | 3.2 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 2 | 3.2 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 2 | 3.2 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 2 | 3.2 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 8 | 3.2 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 8 | 3.2 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 8 | 3.2 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 12 | 3.2 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 12 | 3.2 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 12 | 3.2 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 13 | 3.2 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 13 | 3.2 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 13 | 3.2 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 15 | 3.2 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 15 | 3.2 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 15 | 3.2 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 16 | 3.2 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 16 | 3.2 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 16 | 3.2 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 20 | 3.2 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 20 | 3.2 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 20 | 3.2 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 2 | 3.2 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 2 | 3.2 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 2 | 3.2 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 2 | 3.2 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 2 | 3.2 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 2 | 3.2 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 10 | 3.2 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 9 | 3.2 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 9 | 3.2 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 9 | 3.2 |
| (4,254) | 1:15:A:MET:CB | 1:151:A:PHE:H | 5 | 3.19 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 17 | 3.19 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 13 | 3.19 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 6 | 3.19 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 20 | 3.19 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 12 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 12 | 3.19 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 9 | 3.19 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 9 | 3.19 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 9 | 3.19 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 9 | 3.19 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 9 | 3.19 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 9 | 3.19 |
| (1,9359) | 1:112:A:ASP:HB2 | 1:113:A:CYS:HB2 | 5 | 3.19 |
| (1,9359) | 1:112:A:ASP:HB3 | 1:113:A:CYS:HB2 | 5 | 3.19 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 13 | 3.19 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 13 | 3.19 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 13 | 3.19 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 13 | 3.19 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 19 | 3.19 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 19 | 3.19 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 12 | 3.19 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 12 | 3.19 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 1 | 3.19 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 1 | 3.19 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 16 | 3.19 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 16 | 3.19 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 6 | 3.19 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 6 | 3.19 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 10 | 3.19 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 10 | 3.19 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 10 | 3.19 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 10 | 3.19 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 10 | 3.19 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 10 | 3.19 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 3 | 3.19 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 3 | 3.19 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 16 | 3.19 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 16 | 3.19 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 2 | 3.19 |
| (1,8680) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 2 | 3.19 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 15 | 3.19 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 15 | 3.19 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 11 | 3.19 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 11 | 3.19 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 11 | 3.19 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 11 | 3.19 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 11 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 11 | 3.19 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 12 | 3.19 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 12 | 3.19 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 12 | 3.19 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 4 | 3.19 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 4 | 3.19 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 4 | 3.19 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 4 | 3.19 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 4 | 3.19 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 4 | 3.19 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 6 | 3.19 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 9 | 3.19 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 20 | 3.19 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 20 | 3.19 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 20 | 3.19 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 14 | 3.19 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 14 | 3.19 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 14 | 3.19 |
| (1,7892) | 1:65:A:SER:HA | 1:78:A:ILE:HB | 18 | 3.19 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 15 | 3.19 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 4 | 3.19 |
| (1,7664) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 5 | 3.19 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 6 | 3.19 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 10 | 3.19 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 10 | 3.19 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 7 | 3.19 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 20 | 3.19 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 19 | 3.19 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 6 | 3.19 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 6 | 3.19 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 6 | 3.19 |
| (1,7345) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 19 | 3.19 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD11 | 5 | 3.19 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD12 | 5 | 3.19 |
| (1,7343) | 1:92:A:TYR:HA | 1:106:A:LEU:HD13 | 5 | 3.19 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 6 | 3.19 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 19 | 3.19 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 8 | 3.19 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 17 | 3.19 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 17 | 3.19 |
| (1,7015) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 14 | 3.19 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 13 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 13 | 3.19 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 13 | 3.19 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 17 | 3.19 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 5 | 3.19 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 19 | 3.19 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 6 | 3.19 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 6 | 3.19 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 6 | 3.19 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 15 | 3.19 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 9 | 3.19 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 19 | 3.19 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 3 | 3.19 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 3 | 3.19 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 3 | 3.19 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 15 | 3.19 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 15 | 3.19 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 15 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 1 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 1 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 1 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 3 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 3 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 3 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 10 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 10 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 10 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 12 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 12 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 12 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 15 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 15 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 15 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 20 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 20 | 3.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 20 | 3.19 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 9 | 3.19 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 1 | 3.19 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 1 | 3.19 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 1 | 3.19 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 1 | 3.19 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 1 | 3.19 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 1 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 1 | 3.19 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 1 | 3.19 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 1 | 3.19 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 14 | 3.19 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 14 | 3.19 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 14 | 3.19 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 11 | 3.19 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 11 | 3.19 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 11 | 3.19 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 11 | 3.19 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 11 | 3.19 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 11 | 3.19 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 11 | 3.19 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 11 | 3.19 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 11 | 3.19 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 17 | 3.19 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 17 | 3.19 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 17 | 3.19 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 18 | 3.19 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 8 | 3.19 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 8 | 3.19 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 17 | 3.19 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 17 | 3.19 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 5 | 3.19 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 15 | 3.19 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 15 | 3.19 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 15 | 3.19 |
| (1,6235) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 6 | 3.19 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 12 | 3.19 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 1 | 3.19 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 1 | 3.19 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 1 | 3.19 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 5 | 3.19 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 5 | 3.19 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 17 | 3.19 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 17 | 3.19 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 19 | 3.19 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 1 | 3.19 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 1 | 3.19 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 1 | 3.19 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 1 | 3.19 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 1 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 1 | 3.19 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 1 | 3.19 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 1 | 3.19 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 1 | 3.19 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 5 | 3.19 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 5 | 3.19 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 5 | 3.19 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 3 | 3.19 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 3 | 3.19 |
| (1,6049) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 3 | 3.19 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 17 | 3.19 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 10 | 3.19 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 19 | 3.19 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 19 | 3.19 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 3 | 3.19 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 3 | 3.19 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 19 | 3.19 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 19 | 3.19 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 19 | 3.19 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 3 | 3.19 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 11 | 3.19 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 11 | 3.19 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 11 | 3.19 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 11 | 3.19 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 14 | 3.19 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 5 | 3.19 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 4 | 3.19 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 4 | 3.19 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 4 | 3.19 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 13 | 3.19 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 2 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 1 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 1 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 1 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 2 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 2 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 2 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 3 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 3 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 3 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 4 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 4 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 4 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 7 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 7 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 7 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 8 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 8 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 8 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 9 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 9 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 9 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 10 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 10 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 10 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 12 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 12 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 12 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 17 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 17 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 17 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 18 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 18 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 18 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 19 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 19 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 19 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 20 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 20 | 3.19 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 20 | 3.19 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 14 | 3.19 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 3 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 2 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 2 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 2 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 6 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 6 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 6 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 9 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 9 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 9 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 12 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 12 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 12 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 14 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 14 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 14 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 19 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 19 | 3.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 19 | 3.19 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 6 | 3.19 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 6 | 3.19 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 6 | 3.19 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 2 | 3.19 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 6 | 3.19 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 5 | 3.19 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 5 | 3.19 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 5 | 3.19 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 19 | 3.19 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 12 | 3.19 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 17 | 3.19 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 17 | 3.19 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 17 | 3.19 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 17 | 3.19 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 17 | 3.19 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 17 | 3.19 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 19 | 3.19 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 19 | 3.19 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 19 | 3.19 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 14 | 3.19 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 14 | 3.19 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 14 | 3.19 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 14 | 3.19 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 14 | 3.19 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 14 | 3.19 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 14 | 3.19 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 14 | 3.19 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 14 | 3.19 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 20 | 3.19 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 20 | 3.19 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 20 | 3.19 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 3 | 3.19 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 3 | 3.19 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 3 | 3.19 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 17 | 3.19 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 20 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 8 | 3.19 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 8 | 3.19 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 15 | 3.19 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 15 | 3.19 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 6 | 3.19 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 6 | 3.19 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 15 | 3.19 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 5 | 3.19 |
| (1,4531) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 5 | 3.19 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 9 | 3.19 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 9 | 3.19 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 12 | 3.19 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 12 | 3.19 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 17 | 3.19 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 17 | 3.19 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 2 | 3.19 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 2 | 3.19 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 13 | 3.19 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 13 | 3.19 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 13 | 3.19 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 13 | 3.19 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 15 | 3.19 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 19 | 3.19 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 19 | 3.19 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 9 | 3.19 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 9 | 3.19 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 12 | 3.19 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 12 | 3.19 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 8 | 3.19 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 18 | 3.19 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 15 | 3.19 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 15 | 3.19 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 3 | 3.19 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 3 | 3.19 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 15 | 3.19 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 15 | 3.19 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 15 | 3.19 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 15 | 3.19 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 15 | 3.19 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 15 | 3.19 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 15 | 3.19 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 6 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 6 | 3.19 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 6 | 3.19 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 10 | 3.19 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 10 | 3.19 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 10 | 3.19 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 10 | 3.19 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 10 | 3.19 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 10 | 3.19 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 3 | 3.19 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 3 | 3.19 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 15 | 3.19 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 15 | 3.19 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 15 | 3.19 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 15 | 3.19 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 18 | 3.19 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 18 | 3.19 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 3 | 3.19 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 3 | 3.19 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 1 | 3.19 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 1 | 3.19 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 15 | 3.19 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 15 | 3.19 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 14 | 3.19 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 14 | 3.19 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 14 | 3.19 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 14 | 3.19 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 14 | 3.19 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 14 | 3.19 |
| (1,3529) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 8 | 3.19 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 4 | 3.19 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 4 | 3.19 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 8 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 4 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 4 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 4 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 6 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 6 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 6 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 12 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 12 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 12 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 14 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 14 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 14 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 16 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 16 | 3.19 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 16 | 3.19 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 17 | 3.19 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 17 | 3.19 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 15 | 3.19 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 8 | 3.19 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 7 | 3.19 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 20 | 3.19 |
| (1,3062) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 14 | 3.19 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 16 | 3.19 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 16 | 3.19 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 12 | 3.19 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 13 | 3.19 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 13 | 3.19 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 13 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 2 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 2 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 2 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 4 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 4 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 4 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 5 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 5 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 5 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 7 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 7 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 7 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 10 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 10 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 10 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 12 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 12 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 12 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 16 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 16 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 16 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 19 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 19 | 3.19 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 19 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 17 | 3.19 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 5 | 3.19 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 19 | 3.19 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 7 | 3.19 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 9 | 3.19 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 9 | 3.19 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 20 | 3.19 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 6 | 3.19 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 6 | 3.19 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 6 | 3.19 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 15 | 3.19 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 4 | 3.19 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 9 | 3.19 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 19 | 3.19 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 10 | 3.19 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 10 | 3.19 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 10 | 3.19 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 3 | 3.19 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 3 | 3.19 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 3 | 3.19 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 15 | 3.19 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 15 | 3.19 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 15 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 1 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 1 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 1 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 3 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 3 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 3 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 10 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 10 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 10 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 12 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 12 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 12 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 15 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 15 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 15 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 20 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 20 | 3.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 20 | 3.19 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 2 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 9 | 3.19 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 13 | 3.19 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 7 | 3.19 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 20 | 3.19 |
| (1,2250) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 20 | 3.19 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 1 | 3.19 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 1 | 3.19 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 1 | 3.19 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 1 | 3.19 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 1 | 3.19 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 1 | 3.19 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 1 | 3.19 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 1 | 3.19 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 1 | 3.19 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 14 | 3.19 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 14 | 3.19 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 14 | 3.19 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 4 | 3.19 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 4 | 3.19 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 4 | 3.19 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 17 | 3.19 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 17 | 3.19 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 17 | 3.19 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 14 | 3.19 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 14 | 3.19 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 14 | 3.19 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 11 | 3.19 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 11 | 3.19 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 11 | 3.19 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 11 | 3.19 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 11 | 3.19 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 11 | 3.19 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 11 | 3.19 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 11 | 3.19 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 11 | 3.19 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 4 | 3.19 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 4 | 3.19 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 4 | 3.19 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 6 | 3.19 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 6 | 3.19 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 6 | 3.19 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 17 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 17 | 3.19 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 17 | 3.19 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 3.19 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 3.19 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 3.19 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 18 | 3.19 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 10 | 3.19 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 10 | 3.19 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 10 | 3.19 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 17 | 3.19 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 17 | 3.19 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 17 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 3 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 3 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 3 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 5 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 5 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 5 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 13 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 13 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 13 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 16 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 16 | 3.19 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 16 | 3.19 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 8 | 3.19 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 8 | 3.19 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 17 | 3.19 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 17 | 3.19 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 5 | 3.19 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 15 | 3.19 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 15 | 3.19 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 15 | 3.19 |
| (1,1866) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 6 | 3.19 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 12 | 3.19 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 1 | 3.19 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 1 | 3.19 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 1 | 3.19 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 5 | 3.19 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 5 | 3.19 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 17 | 3.19 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 17 | 3.19 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 12 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 19 | 3.19 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 1 | 3.19 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 1 | 3.19 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 1 | 3.19 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 1 | 3.19 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 1 | 3.19 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 1 | 3.19 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 1 | 3.19 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 1 | 3.19 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 1 | 3.19 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 3 | 3.19 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 3 | 3.19 |
| (1,1600) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 3 | 3.19 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 2 | 3.19 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 2 | 3.19 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 2 | 3.19 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 17 | 3.19 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 18 | 3.19 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 18 | 3.19 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 18 | 3.19 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 15 | 3.19 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 15 | 3.19 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 15 | 3.19 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 17 | 3.19 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 10 | 3.19 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 19 | 3.19 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 19 | 3.19 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 10 | 3.19 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 10 | 3.19 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 10 | 3.19 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 15 | 3.19 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 15 | 3.19 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 15 | 3.19 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 19 | 3.19 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 19 | 3.19 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 19 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 1 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 1 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 1 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 2 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 2 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 2 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 4 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 4 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 4 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 9 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 9 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 9 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 17 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 17 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 17 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 18 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 18 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 18 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 20 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 20 | 3.19 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 20 | 3.19 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 3 | 3.19 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 7 | 3.19 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 19 | 3.19 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 19 | 3.19 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 19 | 3.19 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 3 | 3.19 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 9 | 3.19 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 9 | 3.19 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 9 | 3.19 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 2 | 3.19 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 2 | 3.19 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 2 | 3.19 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 2 | 3.19 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 2 | 3.19 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 2 | 3.19 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 11 | 3.19 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 8 | 3.19 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 17 | 3.19 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 17 | 3.19 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 11 | 3.19 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 11 | 3.19 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 11 | 3.19 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 4 | 3.19 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 14 | 3.19 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 1 | 3.19 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 1 | 3.19 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 1 | 3.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 5 | 3.19 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 5 | 3.19 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 5 | 3.19 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 6 | 3.19 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 6 | 3.19 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 6 | 3.19 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 7 | 3.19 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 7 | 3.19 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 7 | 3.19 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 9 | 3.19 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 9 | 3.19 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 9 | 3.19 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 10 | 3.19 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 10 | 3.19 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 10 | 3.19 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 11 | 3.19 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 11 | 3.19 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 11 | 3.19 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 14 | 3.19 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 14 | 3.19 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 14 | 3.19 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 19 | 3.19 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 19 | 3.19 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 19 | 3.19 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 19 | 3.19 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 7 | 3.19 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 15 | 3.19 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 15 | 3.19 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 15 | 3.19 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 10 | 3.19 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 10 | 3.19 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 10 | 3.19 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 10 | 3.19 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 10 | 3.19 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 10 | 3.19 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 4 | 3.19 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 4 | 3.19 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 4 | 3.19 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 8 | 3.19 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 8 | 3.19 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 8 | 3.19 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 16 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 2 | 3.18 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 1 | 3.18 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 2 | 3.18 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 12 | 3.18 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 5 | 3.18 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 5 | 3.18 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 18 | 3.18 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 18 | 3.18 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 19 | 3.18 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 19 | 3.18 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 1 | 3.18 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 1 | 3.18 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 1 | 3.18 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 1 | 3.18 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 5 | 3.18 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 5 | 3.18 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 12 | 3.18 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 12 | 3.18 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 12 | 3.18 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 12 | 3.18 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 12 | 3.18 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 12 | 3.18 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 1 | 3.18 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 1 | 3.18 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 8 | 3.18 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 8 | 3.18 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 8 | 3.18 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 8 | 3.18 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 8 | 3.18 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 8 | 3.18 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 8 | 3.18 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 8 | 3.18 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 8 | 3.18 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 8 | 3.18 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 8 | 3.18 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 8 | 3.18 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 5 | 3.18 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 5 | 3.18 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 1 | 3.18 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 1 | 3.18 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 1 | 3.18 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 1 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 1 | 3.18 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 1 | 3.18 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 8 | 3.18 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 8 | 3.18 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 6 | 3.18 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 6 | 3.18 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 19 | 3.18 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 19 | 3.18 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 3 | 3.18 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 3 | 3.18 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 15 | 3.18 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 15 | 3.18 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 10 | 3.18 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 10 | 3.18 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 15 | 3.18 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 15 | 3.18 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 11 | 3.18 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 11 | 3.18 |
| (1,8637) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 11 | 3.18 |
| (1,8637) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 11 | 3.18 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 11 | 3.18 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 11 | 3.18 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 11 | 3.18 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 11 | 3.18 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 11 | 3.18 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 11 | 3.18 |
| (1,8621) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 3 | 3.18 |
| (1,8621) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 3 | 3.18 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 3 | 3.18 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 3 | 3.18 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 5 | 3.18 |
| (1,8534) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 5 | 3.18 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 3 | 3.18 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 3 | 3.18 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD11 | 15 | 3.18 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD12 | 15 | 3.18 |
| (1,8496) | 1:158:A:ILE:HG21 | 1:159:A:ILE:HD13 | 15 | 3.18 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD11 | 15 | 3.18 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD12 | 15 | 3.18 |
| (1,8496) | 1:158:A:ILE:HG22 | 1:159:A:ILE:HD13 | 15 | 3.18 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD11 | 15 | 3.18 |
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD12 | 15 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8496) | 1:158:A:ILE:HG23 | 1:159:A:ILE:HD13 | 15 | 3.18 |
| (1,8420) | 1:143:A:THR:HA | 1:145:A:GLU:H | 9 | 3.18 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 1 | 3.18 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 1 | 3.18 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 1 | 3.18 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 8 | 3.18 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 7 | 3.18 |
| (1,8275) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 7 | 3.18 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 7 | 3.18 |
| (1,8275) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 7 | 3.18 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 7 | 3.18 |
| (1,8275) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 7 | 3.18 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 17 | 3.18 |
| (1,8191) | 1:103:A:PHE:HA | 1:107:A:ALA:H | 3 | 3.18 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 2 | 3.18 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 2 | 3.18 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 2 | 3.18 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 13 | 3.18 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 6 | 3.18 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 6 | 3.18 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 8 | 3.18 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 8 | 3.18 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 8 | 3.18 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 7 | 3.18 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 10 | 3.18 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 1 | 3.18 |
| (1,7756) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 3 | 3.18 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 7 | 3.18 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 7 | 3.18 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 11 | 3.18 |
| (1,7610) | 1:26:A:ASN:H | 1:30:A:ASN:H | 11 | 3.18 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 19 | 3.18 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 4 | 3.18 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 11 | 3.18 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 11 | 3.18 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 15 | 3.18 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 15 | 3.18 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 15 | 3.18 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 15 | 3.18 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 15 | 3.18 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 15 | 3.18 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 15 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 6 | 3.18 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 17 | 3.18 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 17 | 3.18 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 6 | 3.18 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 18 | 3.18 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 10 | 3.18 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 10 | 3.18 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 10 | 3.18 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 3 | 3.18 |
| (1,7187) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 3 | 3.18 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 18 | 3.18 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 18 | 3.18 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 18 | 3.18 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 14 | 3.18 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 14 | 3.18 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 15 | 3.18 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 1 | 3.18 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 1 | 3.18 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 1 | 3.18 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 16 | 3.18 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 16 | 3.18 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 18 | 3.18 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 17 | 3.18 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 17 | 3.18 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 8 | 3.18 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 13 | 3.18 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 15 | 3.18 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 15 | 3.18 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 15 | 3.18 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 18 | 3.18 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 14 | 3.18 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 2 | 3.18 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 2 | 3.18 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 2 | 3.18 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 4 | 3.18 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 6 | 3.18 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 6 | 3.18 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 7 | 3.18 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 14 | 3.18 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 9 | 3.18 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 5 | 3.18 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 10 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 10 | 3.18 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 10 | 3.18 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 7 | 3.18 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 7 | 3.18 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 7 | 3.18 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 9 | 3.18 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 9 | 3.18 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 9 | 3.18 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 14 | 3.18 |
| (1,6470) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 13 | 3.18 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 18 | 3.18 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 18 | 3.18 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 18 | 3.18 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 2 | 3.18 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 2 | 3.18 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 2 | 3.18 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 2 | 3.18 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 2 | 3.18 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 2 | 3.18 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 2 | 3.18 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 2 | 3.18 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 2 | 3.18 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 17 | 3.18 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 15 | 3.18 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 8 | 3.18 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 20 | 3.18 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 8 | 3.18 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 2 | 3.18 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 15 | 3.18 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 15 | 3.18 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 15 | 3.18 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 16 | 3.18 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 16 | 3.18 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 16 | 3.18 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 19 | 3.18 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 19 | 3.18 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 19 | 3.18 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 5 | 3.18 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 19 | 3.18 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 19 | 3.18 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 19 | 3.18 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 19 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 19 | 3.18 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 19 | 3.18 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 19 | 3.18 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 19 | 3.18 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 19 | 3.18 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 6 | 3.18 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 6 | 3.18 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 6 | 3.18 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 11 | 3.18 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 13 | 3.18 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 13 | 3.18 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 10 | 3.18 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 10 | 3.18 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 10 | 3.18 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 19 | 3.18 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 19 | 3.18 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 19 | 3.18 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 19 | 3.18 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 19 | 3.18 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 15 | 3.18 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 1 | 3.18 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 2 | 3.18 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 13 | 3.18 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 18 | 3.18 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 13 | 3.18 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 13 | 3.18 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 7 | 3.18 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 6 | 3.18 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 6 | 3.18 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 1 | 3.18 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 7 | 3.18 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 7 | 3.18 |
| (1,5568) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 7 | 3.18 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 7 | 3.18 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 7 | 3.18 |
| (1,5568) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 7 | 3.18 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 4 | 3.18 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 17 | 3.18 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 17 | 3.18 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 17 | 3.18 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 14 | 3.18 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 3 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 3 | 3.18 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 3 | 3.18 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 9 | 3.18 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 19 | 3.18 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 14 | 3.18 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 14 | 3.18 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 14 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 11 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 11 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 11 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 14 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 14 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 14 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 15 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 15 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 15 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 16 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 16 | 3.18 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 16 | 3.18 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 12 | 3.18 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 12 | 3.18 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 12 | 3.18 |
| (1,5181) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 14 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 3 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 3 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 3 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 4 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 4 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 4 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 8 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 8 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 8 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 15 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 15 | 3.18 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 15 | 3.18 |
| (1,5128) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 17 | 3.18 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 18 | 3.18 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 18 | 3.18 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 18 | 3.18 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 9 | 3.18 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 9 | 3.18 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 9 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 17 | 3.18 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 19 | 3.18 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 19 | 3.18 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 19 | 3.18 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 19 | 3.18 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 19 | 3.18 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 19 | 3.18 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 19 | 3.18 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 19 | 3.18 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 19 | 3.18 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 20 | 3.18 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 20 | 3.18 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 20 | 3.18 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 20 | 3.18 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 20 | 3.18 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 20 | 3.18 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 20 | 3.18 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 20 | 3.18 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 20 | 3.18 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 6 | 3.18 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 6 | 3.18 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 6 | 3.18 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 9 | 3.18 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 9 | 3.18 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 9 | 3.18 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 12 | 3.18 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 20 | 3.18 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 10 | 3.18 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 10 | 3.18 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 10 | 3.18 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 16 | 3.18 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 15 | 3.18 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 15 | 3.18 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 15 | 3.18 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 15 | 3.18 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 15 | 3.18 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 15 | 3.18 |
| (1,4677) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 2 | 3.18 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 16 | 3.18 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 8 | 3.18 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 8 | 3.18 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 9 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 9 | 3.18 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 9 | 3.18 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 11 | 3.18 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 19 | 3.18 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 19 | 3.18 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 12 | 3.18 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 1 | 3.18 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 1 | 3.18 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 15 | 3.18 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 15 | 3.18 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 18 | 3.18 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 18 | 3.18 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 18 | 3.18 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 5 | 3.18 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 5 | 3.18 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 1 | 3.18 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 1 | 3.18 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 17 | 3.18 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 17 | 3.18 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 15 | 3.18 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 1 | 3.18 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 1 | 3.18 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 1 | 3.18 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 1 | 3.18 |
| (1,4411) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 10 | 3.18 |
| (1,4411) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 10 | 3.18 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 1 | 3.18 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 3.18 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 6 | 3.18 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 3 | 3.18 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 3 | 3.18 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 3 | 3.18 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 3 | 3.18 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 10 | 3.18 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 10 | 3.18 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 10 | 3.18 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 11 | 3.18 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 13 | 3.18 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 8 | 3.18 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 8 | 3.18 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 8 | 3.18 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 9 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 9 | 3.18 |
| (1,4026) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 15 | 3.18 |
| (1,4026) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 15 | 3.18 |
| (1,4026) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 15 | 3.18 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 11 | 3.18 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 11 | 3.18 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 11 | 3.18 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 11 | 3.18 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 11 | 3.18 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 11 | 3.18 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 5 | 3.18 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 5 | 3.18 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 11 | 3.18 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 1 | 3.18 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 1 | 3.18 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 1 | 3.18 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 1 | 3.18 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 1 | 3.18 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 1 | 3.18 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 8 | 3.18 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 8 | 3.18 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 4 | 3.18 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 11 | 3.18 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 11 | 3.18 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 13 | 3.18 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 13 | 3.18 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 3 | 3.18 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 3 | 3.18 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 17 | 3.18 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 17 | 3.18 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 18 | 3.18 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 18 | 3.18 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 8 | 3.18 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 8 | 3.18 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 8 | 3.18 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 8 | 3.18 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 8 | 3.18 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 8 | 3.18 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 7 | 3.18 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 10 | 3.18 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 10 | 3.18 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 11 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 11 | 3.18 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 18 | 3.18 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 18 | 3.18 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 5 | 3.18 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 11 | 3.18 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 11 | 3.18 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 11 | 3.18 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 11 | 3.18 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 11 | 3.18 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 11 | 3.18 |
| (1,3574) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 3 | 3.18 |
| (1,3574) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 3 | 3.18 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 2 | 3.18 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 2 | 3.18 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 1 | 3.18 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 5 | 3.18 |
| (1,3496) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 5 | 3.18 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 3 | 3.18 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 3 | 3.18 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 1 | 3.18 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 1 | 3.18 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 17 | 3.18 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 1 | 3.18 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 1 | 3.18 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 1 | 3.18 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 15 | 3.18 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 15 | 3.18 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 15 | 3.18 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 8 | 3.18 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 6 | 3.18 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 18 | 3.18 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 10 | 3.18 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 10 | 3.18 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 10 | 3.18 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 3 | 3.18 |
| (1,3336) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 3 | 3.18 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 6 | 3.18 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 6 | 3.18 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 6 | 3.18 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 18 | 3.18 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 18 | 3.18 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 18 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 1 | 3.18 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 1 | 3.18 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 18 | 3.18 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 18 | 3.18 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 18 | 3.18 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 5 | 3.18 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 5 | 3.18 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 5 | 3.18 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 8 | 3.18 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 6 | 3.18 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 14 | 3.18 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 14 | 3.18 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 15 | 3.18 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 9 | 3.18 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 16 | 3.18 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 16 | 3.18 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 18 | 3.18 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 7 | 3.18 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 17 | 3.18 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 17 | 3.18 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 8 | 3.18 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 13 | 3.18 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 1 | 3.18 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 15 | 3.18 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 15 | 3.18 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 15 | 3.18 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 18 | 3.18 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 14 | 3.18 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 2 | 3.18 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 2 | 3.18 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 2 | 3.18 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 6 | 3.18 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 6 | 3.18 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 6 | 3.18 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 11 | 3.18 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 4 | 3.18 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 1 | 3.18 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 1 | 3.18 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 6 | 3.18 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 6 | 3.18 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 18 | 3.18 |
| (1,2638) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 15 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2638) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 15 | 3.18 |
| (1,2638) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 15 | 3.18 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 7 | 3.18 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 14 | 3.18 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 9 | 3.18 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 18 | 3.18 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 20 | 3.18 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 20 | 3.18 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 20 | 3.18 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 5 | 3.18 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 10 | 3.18 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 10 | 3.18 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 10 | 3.18 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 7 | 3.18 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 7 | 3.18 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 7 | 3.18 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 9 | 3.18 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 9 | 3.18 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 9 | 3.18 |
| (1,2342) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 8 | 3.18 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 9 | 3.18 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 14 | 3.18 |
| (1,2240) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 13 | 3.18 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 10 | 3.18 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 10 | 3.18 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 10 | 3.18 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 18 | 3.18 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 18 | 3.18 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 18 | 3.18 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 2 | 3.18 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 2 | 3.18 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 2 | 3.18 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 2 | 3.18 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 2 | 3.18 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 2 | 3.18 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 2 | 3.18 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 2 | 3.18 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 2 | 3.18 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 3 | 3.18 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 3 | 3.18 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 3 | 3.18 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 9 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 9 | 3.18 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 9 | 3.18 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 15 | 3.18 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 15 | 3.18 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 15 | 3.18 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 17 | 3.18 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 15 | 3.18 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 14 | 3.18 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 14 | 3.18 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 14 | 3.18 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 14 | 3.18 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 14 | 3.18 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 14 | 3.18 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 14 | 3.18 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 14 | 3.18 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 14 | 3.18 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 15 | 3.18 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 15 | 3.18 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 15 | 3.18 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 2 | 3.18 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 2 | 3.18 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 2 | 3.18 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 8 | 3.18 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 8 | 3.18 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 8 | 3.18 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 18 | 3.18 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 18 | 3.18 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 18 | 3.18 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 8 | 3.18 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 18 | 3.18 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 18 | 3.18 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 18 | 3.18 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 20 | 3.18 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 20 | 3.18 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 20 | 3.18 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 20 | 3.18 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 7 | 3.18 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 7 | 3.18 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 7 | 3.18 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 3.18 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 8 | 3.18 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 2 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 15 | 3.18 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 15 | 3.18 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 15 | 3.18 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 16 | 3.18 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 16 | 3.18 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 16 | 3.18 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 19 | 3.18 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 19 | 3.18 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 19 | 3.18 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 5 | 3.18 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 19 | 3.18 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 19 | 3.18 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 19 | 3.18 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 19 | 3.18 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 19 | 3.18 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 19 | 3.18 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 19 | 3.18 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 19 | 3.18 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 19 | 3.18 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 10 | 3.18 |
| (1,1613) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 7 | 3.18 |
| (1,1613) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 7 | 3.18 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 6 | 3.18 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 6 | 3.18 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 6 | 3.18 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 1 | 3.18 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 11 | 3.18 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 13 | 3.18 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 13 | 3.18 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 16 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 3 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 3 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 3 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 5 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 5 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 5 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 12 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 12 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 12 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 14 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 14 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 14 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 16 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 16 | 3.18 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 16 | 3.18 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 10 | 3.18 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 10 | 3.18 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 10 | 3.18 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 8 | 3.18 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 14 | 3.18 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 15 | 3.18 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 19 | 3.18 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 14 | 3.18 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 10 | 3.18 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 19 | 3.18 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 19 | 3.18 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 19 | 3.18 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 19 | 3.18 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 15 | 3.18 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 1 | 3.18 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 7 | 3.18 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 2 | 3.18 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 13 | 3.18 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 18 | 3.18 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 9 | 3.18 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 13 | 3.18 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 13 | 3.18 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 7 | 3.18 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 6 | 3.18 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 6 | 3.18 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 7 | 3.18 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 7 | 3.18 |
| (1,744) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 7 | 3.18 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 7 | 3.18 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 7 | 3.18 |
| (1,744) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 7 | 3.18 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 1 | 3.18 |
| (1,638) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 3.18 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 4 | 3.18 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 9 | 3.18 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 6 | 3.18 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 3 | 3.18 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 3 | 3.18 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 3 | 3.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 4 | 3.18 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 4 | 3.18 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 4 | 3.18 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 17 | 3.18 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 17 | 3.18 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 17 | 3.18 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 18 | 3.18 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 18 | 3.18 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 18 | 3.18 |
| (1,580) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 19 | 3.18 |
| (1,580) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 19 | 3.18 |
| (1,580) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 19 | 3.18 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 17 | 3.18 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 17 | 3.18 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 17 | 3.18 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 9 | 3.18 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 17 | 3.18 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 4 | 3.18 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 4 | 3.18 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 4 | 3.18 |
| (4,113) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 20 | 3.17 |
| (1,9537) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 10 | 3.17 |
| (1,9537) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 10 | 3.17 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 4 | 3.17 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 4 | 3.17 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 6 | 3.17 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 6 | 3.17 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 6 | 3.17 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 6 | 3.17 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 6 | 3.17 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 6 | 3.17 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 10 | 3.17 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 10 | 3.17 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 10 | 3.17 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 10 | 3.17 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 5 | 3.17 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 5 | 3.17 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 2 | 3.17 |
| (1,9401) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 2 | 3.17 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 2 | 3.17 |
| (1,9401) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 2 | 3.17 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 8 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 8 | 3.17 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 8 | 3.17 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 8 | 3.17 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 7 | 3.17 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 7 | 3.17 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 7 | 3.17 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 7 | 3.17 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 7 | 3.17 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 7 | 3.17 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 11 | 3.17 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 11 | 3.17 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 8 | 3.17 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 8 | 3.17 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 14 | 3.17 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 14 | 3.17 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 5 | 3.17 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 5 | 3.17 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 20 | 3.17 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 20 | 3.17 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 20 | 3.17 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 20 | 3.17 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 20 | 3.17 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 20 | 3.17 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 20 | 3.17 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 20 | 3.17 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 11 | 3.17 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 11 | 3.17 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 16 | 3.17 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 16 | 3.17 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 5 | 3.17 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 5 | 3.17 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 8 | 3.17 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 8 | 3.17 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 8 | 3.17 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 8 | 3.17 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 8 | 3.17 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 8 | 3.17 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 8 | 3.17 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 8 | 3.17 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 8 | 3.17 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 19 | 3.17 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 19 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 19 | 3.17 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 20 | 3.17 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 7 | 3.17 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 7 | 3.17 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 7 | 3.17 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 7 | 3.17 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 7 | 3.17 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 7 | 3.17 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 2 | 3.17 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 2 | 3.17 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 2 | 3.17 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 2 | 3.17 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 8 | 3.17 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 11 | 3.17 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 11 | 3.17 |
| (1,7619) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 9 | 3.17 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 1 | 3.17 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 7 | 3.17 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 7 | 3.17 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 9 | 3.17 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 6 | 3.17 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 6 | 3.17 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 1 | 3.17 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 20 | 3.17 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 9 | 3.17 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 19 | 3.17 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 19 | 3.17 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 19 | 3.17 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 9 | 3.17 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 9 | 3.17 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 7 | 3.17 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 7 | 3.17 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 7 | 3.17 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 17 | 3.17 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 17 | 3.17 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 17 | 3.17 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 19 | 3.17 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 16 | 3.17 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 20 | 3.17 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 15 | 3.17 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 15 | 3.17 |
| (1,6844) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 15 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 20 | 3.17 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 10 | 3.17 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 12 | 3.17 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 20 | 3.17 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 15 | 3.17 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 6 | 3.17 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 6 | 3.17 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 6 | 3.17 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 6 | 3.17 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 20 | 3.17 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 20 | 3.17 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 20 | 3.17 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 13 | 3.17 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 10 | 3.17 |
| (1,6491) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 11 | 3.17 |
| (1,6417) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 10 | 3.17 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 13 | 3.17 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 13 | 3.17 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 13 | 3.17 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 19 | 3.17 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 15 | 3.17 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 15 | 3.17 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 13 | 3.17 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 2 | 3.17 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 2 | 3.17 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 2 | 3.17 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 20 | 3.17 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 20 | 3.17 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 20 | 3.17 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 2 | 3.17 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 2 | 3.17 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 4 | 3.17 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 4 | 3.17 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 13 | 3.17 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 13 | 3.17 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 3 | 3.17 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 3 | 3.17 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 16 | 3.17 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 10 | 3.17 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 10 | 3.17 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 10 | 3.17 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 10 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 10 | 3.17 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 10 | 3.17 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 10 | 3.17 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 10 | 3.17 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 10 | 3.17 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 10 | 3.17 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 12 | 3.17 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 10 | 3.17 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 3 | 3.17 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 13 | 3.17 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 13 | 3.17 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 3 | 3.17 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 19 | 3.17 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 16 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 14 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 14 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 14 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 14 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 14 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 14 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 14 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 14 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 14 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 19 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 19 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 19 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 19 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 19 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 19 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 19 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 19 | 3.17 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 19 | 3.17 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 7 | 3.17 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 7 | 3.17 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 2 | 3.17 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 17 | 3.17 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 7 | 3.17 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 10 | 3.17 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 16 | 3.17 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 16 | 3.17 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 16 | 3.17 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 20 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 9 | 3.17 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 9 | 3.17 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 9 | 3.17 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 12 | 3.17 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 3.17 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 3.17 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 3.17 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 11 | 3.17 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 11 | 3.17 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 5 | 3.17 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 5 | 3.17 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 5 | 3.17 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 6 | 3.17 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 6 | 3.17 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 6 | 3.17 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 16 | 3.17 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 16 | 3.17 |
| (1,5160) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 16 | 3.17 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 3 | 3.17 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 3 | 3.17 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 3 | 3.17 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 7 | 3.17 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 7 | 3.17 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 7 | 3.17 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 12 | 3.17 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 12 | 3.17 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 12 | 3.17 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 5 | 3.17 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 5 | 3.17 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 5 | 3.17 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 13 | 3.17 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 9 | 3.17 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 9 | 3.17 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 2 | 3.17 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 2 | 3.17 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 2 | 3.17 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 16 | 3.17 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 16 | 3.17 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 16 | 3.17 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 16 | 3.17 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 16 | 3.17 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 16 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 16 | 3.17 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 16 | 3.17 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 16 | 3.17 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 1 | 3.17 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 1 | 3.17 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 1 | 3.17 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 1 | 3.17 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 1 | 3.17 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 1 | 3.17 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 1 | 3.17 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 1 | 3.17 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 1 | 3.17 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 1 | 3.17 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 1 | 3.17 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 1 | 3.17 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 3 | 3.17 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 3 | 3.17 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 3 | 3.17 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 3 | 3.17 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 3 | 3.17 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 3 | 3.17 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 3 | 3.17 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 3 | 3.17 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 3 | 3.17 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 6 | 3.17 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 6 | 3.17 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 6 | 3.17 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 6 | 3.17 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 6 | 3.17 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 6 | 3.17 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 6 | 3.17 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 6 | 3.17 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 6 | 3.17 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 8 | 3.17 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 8 | 3.17 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 8 | 3.17 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 16 | 3.17 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 5 | 3.17 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 5 | 3.17 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 3.17 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 3.17 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 3.17 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 8 | 3.17 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 8 | 3.17 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 8 | 3.17 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 13 | 3.17 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 13 | 3.17 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 4 | 3.17 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 4 | 3.17 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 6 | 3.17 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 6 | 3.17 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 6 | 3.17 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 6 | 3.17 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 6 | 3.17 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 6 | 3.17 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 12 | 3.17 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 12 | 3.17 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 5 | 3.17 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 5 | 3.17 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 15 | 3.17 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 7 | 3.17 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 7 | 3.17 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 7 | 3.17 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 7 | 3.17 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 7 | 3.17 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 7 | 3.17 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 8 | 3.17 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 8 | 3.17 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 8 | 3.17 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 8 | 3.17 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 8 | 3.17 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 8 | 3.17 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 2 | 3.17 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 2 | 3.17 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 19 | 3.17 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 19 | 3.17 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 11 | 3.17 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 11 | 3.17 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 7 | 3.17 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 7 | 3.17 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 7 | 3.17 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 11 | 3.17 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 11 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 11 | 3.17 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 6 | 3.17 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 6 | 3.17 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 6 | 3.17 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 1 | 3.17 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 1 | 3.17 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 8 | 3.17 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 8 | 3.17 |
| (1,4156) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 16 | 3.17 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 9 | 3.17 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 9 | 3.17 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 3.17 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 1 | 3.17 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 1 | 3.17 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 1 | 3.17 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 1 | 3.17 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 3.17 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 3.17 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 3.17 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 14 | 3.17 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 14 | 3.17 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 15 | 3.17 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 12 | 3.17 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 4 | 3.17 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 6 | 3.17 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 6 | 3.17 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 6 | 3.17 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 10 | 3.17 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 16 | 3.17 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 15 | 3.17 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 9 | 3.17 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 9 | 3.17 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 13 | 3.17 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 13 | 3.17 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 8 | 3.17 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 17 | 3.17 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 17 | 3.17 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 17 | 3.17 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 17 | 3.17 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 17 | 3.17 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 17 | 3.17 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 11 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 11 | 3.17 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 11 | 3.17 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 1 | 3.17 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 4 | 3.17 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 1 | 3.17 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 16 | 3.17 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 16 | 3.17 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 7 | 3.17 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 7 | 3.17 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 15 | 3.17 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 15 | 3.17 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 9 | 3.17 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 9 | 3.17 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 12 | 3.17 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 12 | 3.17 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 12 | 3.17 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 12 | 3.17 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 12 | 3.17 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 12 | 3.17 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 12 | 3.17 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 9 | 3.17 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 1 | 3.17 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 19 | 3.17 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 19 | 3.17 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 19 | 3.17 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 9 | 3.17 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 9 | 3.17 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 7 | 3.17 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 7 | 3.17 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 7 | 3.17 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 17 | 3.17 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 17 | 3.17 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 17 | 3.17 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 10 | 3.17 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 10 | 3.17 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 10 | 3.17 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 15 | 3.17 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 15 | 3.17 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 15 | 3.17 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 7 | 3.17 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 7 | 3.17 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 7 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 7 | 3.17 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 7 | 3.17 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 7 | 3.17 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 1 | 3.17 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 5 | 3.17 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 9 | 3.17 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 16 | 3.17 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 7 | 3.17 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 19 | 3.17 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 14 | 3.17 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 16 | 3.17 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 19 | 3.17 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 20 | 3.17 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 15 | 3.17 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 15 | 3.17 |
| (1,2828) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 15 | 3.17 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 20 | 3.17 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 5 | 3.17 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 5 | 3.17 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 13 | 3.17 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 13 | 3.17 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 13 | 3.17 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 13 | 3.17 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 13 | 3.17 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 13 | 3.17 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 1 | 3.17 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 10 | 3.17 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 12 | 3.17 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 20 | 3.17 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 6 | 3.17 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 6 | 3.17 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 6 | 3.17 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 6 | 3.17 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 20 | 3.17 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 20 | 3.17 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 20 | 3.17 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 15 | 3.17 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 13 | 3.17 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 9 | 3.17 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 10 | 3.17 |
| (1,2290) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 11 | 3.17 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 20 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 5 | 3.17 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 5 | 3.17 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 5 | 3.17 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 10 | 3.17 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 10 | 3.17 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 10 | 3.17 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 17 | 3.17 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 17 | 3.17 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 17 | 3.17 |
| (1,2132) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 10 | 3.17 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 13 | 3.17 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 13 | 3.17 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 13 | 3.17 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 19 | 3.17 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 7 | 3.17 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 15 | 3.17 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 15 | 3.17 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 13 | 3.17 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 13 | 3.17 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 13 | 3.17 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 13 | 3.17 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 13 | 3.17 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 13 | 3.17 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 13 | 3.17 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 2 | 3.17 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 2 | 3.17 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 2 | 3.17 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 20 | 3.17 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 20 | 3.17 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 20 | 3.17 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 2 | 3.17 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 2 | 3.17 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 4 | 3.17 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 4 | 3.17 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 13 | 3.17 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 13 | 3.17 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 5 | 3.17 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 5 | 3.17 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 5 | 3.17 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 3 | 3.17 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 3 | 3.17 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 14 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 16 | 3.17 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 10 | 3.17 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 10 | 3.17 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 10 | 3.17 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 10 | 3.17 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 10 | 3.17 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 10 | 3.17 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 10 | 3.17 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 10 | 3.17 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 10 | 3.17 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 10 | 3.17 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 16 | 3.17 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 10 | 3.17 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 10 | 3.17 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 10 | 3.17 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 12 | 3.17 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 10 | 3.17 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 3 | 3.17 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 5 | 3.17 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 13 | 3.17 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 13 | 3.17 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 8 | 3.17 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 3 | 3.17 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 16 | 3.17 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 19 | 3.17 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 15 | 3.17 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 19 | 3.17 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 16 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 14 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 14 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 14 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 14 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 14 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 14 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 14 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 14 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 14 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 19 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 19 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 19 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 19 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 19 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 19 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 19 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 19 | 3.17 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 19 | 3.17 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 6 | 3.17 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 6 | 3.17 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 6 | 3.17 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 11 | 3.17 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 11 | 3.17 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 11 | 3.17 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 13 | 3.17 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 13 | 3.17 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 13 | 3.17 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 7 | 3.17 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 7 | 3.17 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 7 | 3.17 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 7 | 3.17 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 4 | 3.17 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 7 | 3.17 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 7 | 3.17 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 13 | 3.17 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 13 | 3.17 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 2 | 3.17 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 4 | 3.17 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 17 | 3.17 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 4 | 3.17 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 12 | 3.17 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 12 | 3.17 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 7 | 3.17 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 10 | 3.17 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 4 | 3.17 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 4 | 3.17 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 4 | 3.17 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 16 | 3.17 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 16 | 3.17 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 16 | 3.17 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 10 | 3.17 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 10 | 3.17 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 3 | 3.17 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 9 | 3.17 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 9 | 3.17 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 9 | 3.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 12 | 3.17 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 3.17 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 3.17 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 3.17 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 18 | 3.17 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 18 | 3.17 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 18 | 3.17 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 18 | 3.17 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 18 | 3.17 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 18 | 3.17 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 18 | 3.17 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 18 | 3.17 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 18 | 3.17 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 8 | 3.17 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 17 | 3.17 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 17 | 3.17 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 17 | 3.17 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 10 | 3.17 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 10 | 3.17 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 10 | 3.17 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 15 | 3.17 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 4 | 3.17 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 20 | 3.16 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 12 | 3.16 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 4 | 3.16 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 9 | 3.16 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 9 | 3.16 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 12 | 3.16 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 9 | 3.16 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 9 | 3.16 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 5 | 3.16 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 5 | 3.16 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 20 | 3.16 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 20 | 3.16 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 8 | 3.16 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 8 | 3.16 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 8 | 3.16 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 8 | 3.16 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 14 | 3.16 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 14 | 3.16 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 1 | 3.16 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 1 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 11 | 3.16 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 11 | 3.16 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 7 | 3.16 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 7 | 3.16 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 7 | 3.16 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 7 | 3.16 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 7 | 3.16 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 7 | 3.16 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 3 | 3.16 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 3 | 3.16 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 12 | 3.16 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 12 | 3.16 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 17 | 3.16 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 17 | 3.16 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 17 | 3.16 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 17 | 3.16 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 17 | 3.16 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 17 | 3.16 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 14 | 3.16 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 14 | 3.16 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 14 | 3.16 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 14 | 3.16 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 14 | 3.16 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 14 | 3.16 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 18 | 3.16 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 18 | 3.16 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 18 | 3.16 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 18 | 3.16 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 18 | 3.16 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 18 | 3.16 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 11 | 3.16 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 11 | 3.16 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 19 | 3.16 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 19 | 3.16 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 2 | 3.16 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 2 | 3.16 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 2 | 3.16 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 2 | 3.16 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 2 | 3.16 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 2 | 3.16 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 19 | 3.16 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 19 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 19 | 3.16 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 19 | 3.16 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 19 | 3.16 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 19 | 3.16 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 13 | 3.16 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 13 | 3.16 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 13 | 3.16 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 13 | 3.16 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 13 | 3.16 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 13 | 3.16 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 12 | 3.16 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 12 | 3.16 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 12 | 3.16 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 12 | 3.16 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 12 | 3.16 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 12 | 3.16 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 2 | 3.16 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 2 | 3.16 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 14 | 3.16 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 14 | 3.16 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 14 | 3.16 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 14 | 3.16 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 7 | 3.16 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 7 | 3.16 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 7 | 3.16 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 7 | 3.16 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 7 | 3.16 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 7 | 3.16 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 13 | 3.16 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 13 | 3.16 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 2 | 3.16 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 2 | 3.16 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 2 | 3.16 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 2 | 3.16 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 2 | 3.16 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 2 | 3.16 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 19 | 3.16 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 19 | 3.16 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE21 | 16 | 3.16 |
| (1,8726) | 1:49:A:GLN:HA | 1:49:A:GLN:HE22 | 16 | 3.16 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 19 | 3.16 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 19 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 19 | 3.16 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 11 | 3.16 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 11 | 3.16 |
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 4 | 3.16 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 6 | 3.16 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 6 | 3.16 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 6 | 3.16 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 6 | 3.16 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 6 | 3.16 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 6 | 3.16 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 3.16 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 7 | 3.16 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 7 | 3.16 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 13 | 3.16 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 13 | 3.16 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 13 | 3.16 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 13 | 3.16 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 13 | 3.16 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 13 | 3.16 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 13 | 3.16 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 13 | 3.16 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 13 | 3.16 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 8 | 3.16 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 20 | 3.16 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 12 | 3.16 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 12 | 3.16 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 12 | 3.16 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 12 | 3.16 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 11 | 3.16 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 11 | 3.16 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 11 | 3.16 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 11 | 3.16 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 5 | 3.16 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 18 | 3.16 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 18 | 3.16 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 18 | 3.16 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 15 | 3.16 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 1 | 3.16 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 1 | 3.16 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 15 | 3.16 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 7 | 3.16 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 7 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 10 | 3.16 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 10 | 3.16 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 12 | 3.16 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 15 | 3.16 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 18 | 3.16 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 18 | 3.16 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 18 | 3.16 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 10 | 3.16 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 10 | 3.16 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 10 | 3.16 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 16 | 3.16 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 10 | 3.16 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 4 | 3.16 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 4 | 3.16 |
| (1,6779) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 16 | 3.16 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 15 | 3.16 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 15 | 3.16 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 15 | 3.16 |
| (1,6735) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 5 | 3.16 |
| (1,6735) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 5 | 3.16 |
| (1,6735) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 5 | 3.16 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 18 | 3.16 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 18 | 3.16 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 7 | 3.16 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 7 | 3.16 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 7 | 3.16 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 8 | 3.16 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 3 | 3.16 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 3 | 3.16 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 3 | 3.16 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 7 | 3.16 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 7 | 3.16 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 7 | 3.16 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 20 | 3.16 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 18 | 3.16 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 1 | 3.16 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 14 | 3.16 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 14 | 3.16 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 14 | 3.16 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 14 | 3.16 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 14 | 3.16 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 14 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 14 | 3.16 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 14 | 3.16 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 14 | 3.16 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 6 | 3.16 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 6 | 3.16 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 6 | 3.16 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 2 | 3.16 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 2 | 3.16 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 3 | 3.16 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 3 | 3.16 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 3 | 3.16 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 4 | 3.16 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 4 | 3.16 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 4 | 3.16 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 8 | 3.16 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 8 | 3.16 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 8 | 3.16 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 5 | 3.16 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 5 | 3.16 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 9 | 3.16 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 9 | 3.16 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 9 | 3.16 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 7 | 3.16 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 7 | 3.16 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 7 | 3.16 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 11 | 3.16 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 2 | 3.16 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 2 | 3.16 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 2 | 3.16 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 2 | 3.16 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 2 | 3.16 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 2 | 3.16 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 2 | 3.16 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 2 | 3.16 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 2 | 3.16 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 2 | 3.16 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 2 | 3.16 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 2 | 3.16 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 2 | 3.16 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 2 | 3.16 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 2 | 3.16 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 2 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 2 | 3.16 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 2 | 3.16 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 1 | 3.16 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 1 | 3.16 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 1 | 3.16 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 1 | 3.16 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 1 | 3.16 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 1 | 3.16 |
| (1,6021) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 1 | 3.16 |
| (1,6021) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 1 | 3.16 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 11 | 3.16 |
| (1,5964) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 14 | 3.16 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 4 | 3.16 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 3.16 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 2 | 3.16 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 15 | 3.16 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 15 | 3.16 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 15 | 3.16 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 19 | 3.16 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 19 | 3.16 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 19 | 3.16 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 14 | 3.16 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 14 | 3.16 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 14 | 3.16 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 18 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 16 | 3.16 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 16 | 3.16 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 10 | 3.16 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 20 | 3.16 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 9 | 3.16 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 5 | 3.16 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 5 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 5 | 3.16 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 4 | 3.16 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 4 | 3.16 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 4 | 3.16 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 5 | 3.16 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 5 | 3.16 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 5 | 3.16 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 4 | 3.16 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 7 | 3.16 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 7 | 3.16 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 7 | 3.16 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 16 | 3.16 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 18 | 3.16 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 18 | 3.16 |
| (1,5116) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 18 | 3.16 |
| (1,5088) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 5 | 3.16 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 16 | 3.16 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 16 | 3.16 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 16 | 3.16 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 9 | 3.16 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 19 | 3.16 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 19 | 3.16 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 19 | 3.16 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 19 | 3.16 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 19 | 3.16 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 19 | 3.16 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 3 | 3.16 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 13 | 3.16 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 13 | 3.16 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 13 | 3.16 |
| (1,4970) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 10 | 3.16 |
| (1,4970) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 10 | 3.16 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 11 | 3.16 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 6 | 3.16 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 6 | 3.16 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 6 | 3.16 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 11 | 3.16 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 11 | 3.16 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 11 | 3.16 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 10 | 3.16 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 10 | 3.16 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 10 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 6 | 3.16 |
| (1,4716) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 15 | 3.16 |
| (1,4716) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 15 | 3.16 |
| (1,4716) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 15 | 3.16 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 3 | 3.16 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 3 | 3.16 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 15 | 3.16 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 15 | 3.16 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 2 | 3.16 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 9 | 3.16 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 9 | 3.16 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 2 | 3.16 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 2 | 3.16 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 2 | 3.16 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 7 | 3.16 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 14 | 3.16 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 14 | 3.16 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 14 | 3.16 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 14 | 3.16 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 14 | 3.16 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 14 | 3.16 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 8 | 3.16 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 8 | 3.16 |
| (1,4493) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 6 | 3.16 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 18 | 3.16 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 7 | 3.16 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 7 | 3.16 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 7 | 3.16 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 7 | 3.16 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 8 | 3.16 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 8 | 3.16 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 9 | 3.16 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 9 | 3.16 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 17 | 3.16 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 17 | 3.16 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 1 | 3.16 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 1 | 3.16 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 17 | 3.16 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 17 | 3.16 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 7 | 3.16 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 7 | 3.16 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 7 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 7 | 3.16 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 7 | 3.16 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 7 | 3.16 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 3 | 3.16 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 3 | 3.16 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 6 | 3.16 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 12 | 3.16 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 3.16 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 16 | 3.16 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 16 | 3.16 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 3 | 3.16 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 3 | 3.16 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 3 | 3.16 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 12 | 3.16 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 12 | 3.16 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 19 | 3.16 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 19 | 3.16 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 12 | 3.16 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 11 | 3.16 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 11 | 3.16 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 4 | 3.16 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 4 | 3.16 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 4 | 3.16 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 17 | 3.16 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 17 | 3.16 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 17 | 3.16 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 12 | 3.16 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 14 | 3.16 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 14 | 3.16 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 14 | 3.16 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 14 | 3.16 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 3 | 3.16 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 3 | 3.16 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 3 | 3.16 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 14 | 3.16 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 14 | 3.16 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 14 | 3.16 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 14 | 3.16 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 14 | 3.16 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 14 | 3.16 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 18 | 3.16 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 18 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 18 | 3.16 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 18 | 3.16 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 18 | 3.16 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 18 | 3.16 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 16 | 3.16 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 15 | 3.16 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 13 | 3.16 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 12 | 3.16 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 2 | 3.16 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 2 | 3.16 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 1 | 3.16 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 18 | 3.16 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 18 | 3.16 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 18 | 3.16 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 18 | 3.16 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 9 | 3.16 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 8 | 3.16 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 8 | 3.16 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 2 | 3.16 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 2 | 3.16 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 2 | 3.16 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 2 | 3.16 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 19 | 3.16 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 19 | 3.16 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 19 | 3.16 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 19 | 3.16 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 19 | 3.16 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 19 | 3.16 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 16 | 3.16 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 16 | 3.16 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 16 | 3.16 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 16 | 3.16 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 16 | 3.16 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 16 | 3.16 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 11 | 3.16 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 11 | 3.16 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 11 | 3.16 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 11 | 3.16 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 11 | 3.16 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 11 | 3.16 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 14 | 3.16 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 14 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 14 | 3.16 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 14 | 3.16 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 14 | 3.16 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 14 | 3.16 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 19 | 3.16 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 11 | 3.16 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 2 | 3.16 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 2 | 3.16 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 2 | 3.16 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 2 | 3.16 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 2 | 3.16 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 2 | 3.16 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 13 | 3.16 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 15 | 3.16 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 13 | 3.16 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 13 | 3.16 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 13 | 3.16 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 13 | 3.16 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 13 | 3.16 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 13 | 3.16 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 6 | 3.16 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 6 | 3.16 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 15 | 3.16 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 15 | 3.16 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 18 | 3.16 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 18 | 3.16 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 13 | 3.16 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 15 | 3.16 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 15 | 3.16 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 2 | 3.16 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 15 | 3.16 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 1 | 3.16 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 1 | 3.16 |
| (1,3262) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG13 | 1 | 3.16 |
| (1,3262) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG13 | 1 | 3.16 |
| (1,3262) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG13 | 1 | 3.16 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 15 | 3.16 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 13 | 3.16 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 11 | 3.16 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 12 | 3.16 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 2 | 3.16 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 3 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 14 | 3.16 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 7 | 3.16 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 7 | 3.16 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 10 | 3.16 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 10 | 3.16 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 12 | 3.16 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 15 | 3.16 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 17 | 3.16 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 6 | 3.16 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 18 | 3.16 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 18 | 3.16 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 18 | 3.16 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 18 | 3.16 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 14 | 3.16 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 16 | 3.16 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 10 | 3.16 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 17 | 3.16 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 4 | 3.16 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 4 | 3.16 |
| (1,2734) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 16 | 3.16 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 18 | 3.16 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 18 | 3.16 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 15 | 3.16 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 15 | 3.16 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 15 | 3.16 |
| (1,2670) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 5 | 3.16 |
| (1,2670) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 5 | 3.16 |
| (1,2670) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 5 | 3.16 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 11 | 3.16 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 11 | 3.16 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 11 | 3.16 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 18 | 3.16 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 18 | 3.16 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 7 | 3.16 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 7 | 3.16 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 7 | 3.16 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 8 | 3.16 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 3 | 3.16 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 3 | 3.16 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 3 | 3.16 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 7 | 3.16 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 7 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 7 | 3.16 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 18 | 3.16 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 20 | 3.16 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 10 | 3.16 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 5 | 3.16 |
| (1,2298) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 11 | 3.16 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 18 | 3.16 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 1 | 3.16 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 5 | 3.16 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 2 | 3.16 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 2 | 3.16 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 2 | 3.16 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 6 | 3.16 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 6 | 3.16 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 6 | 3.16 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 7 | 3.16 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 7 | 3.16 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 7 | 3.16 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 5 | 3.16 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 5 | 3.16 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 5 | 3.16 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 2 | 3.16 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 2 | 3.16 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 2 | 3.16 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 19 | 3.16 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 19 | 3.16 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 19 | 3.16 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 2 | 3.16 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 2 | 3.16 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 3 | 3.16 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 3 | 3.16 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 3 | 3.16 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 4 | 3.16 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 4 | 3.16 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 4 | 3.16 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 12 | 3.16 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 12 | 3.16 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 12 | 3.16 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 5 | 3.16 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 8 | 3.16 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 8 | 3.16 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 8 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 5 | 3.16 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 5 | 3.16 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 4 | 3.16 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 7 | 3.16 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 7 | 3.16 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 7 | 3.16 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 14 | 3.16 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 14 | 3.16 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 14 | 3.16 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 6 | 3.16 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 6 | 3.16 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 6 | 3.16 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 11 | 3.16 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 2 | 3.16 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 2 | 3.16 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 2 | 3.16 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 2 | 3.16 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 2 | 3.16 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 2 | 3.16 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 2 | 3.16 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 2 | 3.16 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 2 | 3.16 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 2 | 3.16 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 2 | 3.16 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 2 | 3.16 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 2 | 3.16 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 2 | 3.16 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 2 | 3.16 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 2 | 3.16 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 2 | 3.16 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 2 | 3.16 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 5 | 3.16 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 5 | 3.16 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 9 | 3.16 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 1 | 3.16 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 1 | 3.16 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 1 | 3.16 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 1 | 3.16 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 1 | 3.16 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 1 | 3.16 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 3 | 3.16 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 3 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 3 | 3.16 |
| (1,1534) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 1 | 3.16 |
| (1,1534) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 1 | 3.16 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 11 | 3.16 |
| (1,1418) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 14 | 3.16 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 11 | 3.16 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 4 | 3.16 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 3.16 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 2 | 3.16 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 17 | 3.16 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 17 | 3.16 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 17 | 3.16 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 17 | 3.16 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 17 | 3.16 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 17 | 3.16 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 19 | 3.16 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 19 | 3.16 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 19 | 3.16 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 19 | 3.16 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 19 | 3.16 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 19 | 3.16 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 15 | 3.16 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 15 | 3.16 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 15 | 3.16 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 19 | 3.16 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 19 | 3.16 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 19 | 3.16 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 13 | 3.16 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 6 | 3.16 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 1 | 3.16 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 17 | 3.16 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 12 | 3.16 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 1 | 3.16 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 16 | 3.16 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 5 | 3.16 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 6 | 3.16 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 14 | 3.16 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 14 | 3.16 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 14 | 3.16 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 7 | 3.16 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 7 | 3.16 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 7 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 7 | 3.16 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 7 | 3.16 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 7 | 3.16 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 8 | 3.16 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 13 | 3.16 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 18 | 3.16 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 12 | 3.16 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 12 | 3.16 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 12 | 3.16 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 6 | 3.16 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 10 | 3.16 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 20 | 3.16 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 12 | 3.16 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 15 | 3.16 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 9 | 3.16 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 1 | 3.16 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 8 | 3.16 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 5 | 3.16 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 5 | 3.16 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 5 | 3.16 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 3 | 3.16 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 3 | 3.16 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 3 | 3.16 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 3 | 3.16 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 3 | 3.16 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 3 | 3.16 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 4 | 3.16 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 4 | 3.16 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 4 | 3.16 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 4 | 3.16 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 4 | 3.16 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 4 | 3.16 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 9 | 3.16 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 9 | 3.16 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 9 | 3.16 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 9 | 3.16 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 9 | 3.16 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 9 | 3.16 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 10 | 3.16 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 10 | 3.16 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 10 | 3.16 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 10 | 3.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 10 | 3.16 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 10 | 3.16 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 10 | 3.16 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 10 | 3.16 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 10 | 3.16 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 4 | 3.16 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 19 | 3.16 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 19 | 3.16 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 19 | 3.16 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 19 | 3.16 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 19 | 3.16 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 19 | 3.16 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 19 | 3.16 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 19 | 3.16 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 19 | 3.16 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 1 | 3.16 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 18 | 3.16 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 18 | 3.16 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 18 | 3.16 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 4 | 3.15 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 4 | 3.15 |
| (4,91) | 1:15:A:MET:CB | 1:152:A:THR:H | 1 | 3.15 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 1 | 3.15 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 3 | 3.15 |
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 3 | 3.15 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 3 | 3.15 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 3 | 3.15 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 3 | 3.15 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 7 | 3.15 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 7 | 3.15 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 14 | 3.15 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 14 | 3.15 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 5 | 3.15 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 5 | 3.15 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 5 | 3.15 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 5 | 3.15 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 18 | 3.15 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 18 | 3.15 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 18 | 3.15 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 18 | 3.15 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 6 | 3.15 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 6 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 16 | 3.15 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 16 | 3.15 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 16 | 3.15 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 16 | 3.15 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 16 | 3.15 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 16 | 3.15 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 11 | 3.15 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 11 | 3.15 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 11 | 3.15 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 11 | 3.15 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 11 | 3.15 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 11 | 3.15 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 2 | 3.15 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 2 | 3.15 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 1 | 3.15 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 1 | 3.15 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 1 | 3.15 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 1 | 3.15 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 1 | 3.15 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 1 | 3.15 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG2 | 9 | 3.15 |
| (1,9047) | 1:81:A:THR:HG21 | 1:83:A:GLU:HG3 | 9 | 3.15 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG2 | 9 | 3.15 |
| (1,9047) | 1:81:A:THR:HG22 | 1:83:A:GLU:HG3 | 9 | 3.15 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG2 | 9 | 3.15 |
| (1,9047) | 1:81:A:THR:HG23 | 1:83:A:GLU:HG3 | 9 | 3.15 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 9 | 3.15 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 9 | 3.15 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 20 | 3.15 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 20 | 3.15 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 20 | 3.15 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 20 | 3.15 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 20 | 3.15 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 20 | 3.15 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 19 | 3.15 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 19 | 3.15 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 6 | 3.15 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 6 | 3.15 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 19 | 3.15 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 19 | 3.15 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 1 | 3.15 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 1 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 1 | 3.15 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 1 | 3.15 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 1 | 3.15 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 1 | 3.15 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 6 | 3.15 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 6 | 3.15 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 6 | 3.15 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 6 | 3.15 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 6 | 3.15 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 6 | 3.15 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 12 | 3.15 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 12 | 3.15 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 12 | 3.15 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 12 | 3.15 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 9 | 3.15 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 9 | 3.15 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 9 | 3.15 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 9 | 3.15 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 18 | 3.15 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 18 | 3.15 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 18 | 3.15 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 18 | 3.15 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 18 | 3.15 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 18 | 3.15 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 3 | 3.15 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 3 | 3.15 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 3 | 3.15 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 3 | 3.15 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 16 | 3.15 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 16 | 3.15 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 16 | 3.15 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 16 | 3.15 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 16 | 3.15 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 16 | 3.15 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 16 | 3.15 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 16 | 3.15 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 13 | 3.15 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 13 | 3.15 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 9 | 3.15 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 9 | 3.15 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 9 | 3.15 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 9 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 9 | 3.15 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 9 | 3.15 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 17 | 3.15 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 17 | 3.15 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 17 | 3.15 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 17 | 3.15 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 14 | 3.15 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 14 | 3.15 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 3 | 3.15 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 3 | 3.15 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 3 | 3.15 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 3 | 3.15 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 3 | 3.15 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 3 | 3.15 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 3 | 3.15 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 3 | 3.15 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 3 | 3.15 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 10 | 3.15 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 10 | 3.15 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 10 | 3.15 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 10 | 3.15 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 10 | 3.15 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 10 | 3.15 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 15 | 3.15 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG21 | 9 | 3.15 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG22 | 9 | 3.15 |
| (1,8074) | 1:90:A:ASN:HA | 1:93:A:ILE:HG23 | 9 | 3.15 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 5 | 3.15 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 15 | 3.15 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 1 | 3.15 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 3 | 3.15 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 6 | 3.15 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 20 | 3.15 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 20 | 3.15 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 20 | 3.15 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 20 | 3.15 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 1 | 3.15 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 19 | 3.15 |
| (1,7749) | 1:55:A:VAL:HG11 | 1:163:A:GLU:H | 11 | 3.15 |
| (1,7749) | 1:55:A:VAL:HG12 | 1:163:A:GLU:H | 11 | 3.15 |
| (1,7749) | 1:55:A:VAL:HG13 | 1:163:A:GLU:H | 11 | 3.15 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 20 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 20 | 3.15 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 17 | 3.15 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 15 | 3.15 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 15 | 3.15 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 5 | 3.15 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 5 | 3.15 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 6 | 3.15 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 6 | 3.15 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 6 | 3.15 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 14 | 3.15 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 14 | 3.15 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 14 | 3.15 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 14 | 3.15 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 14 | 3.15 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 14 | 3.15 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 17 | 3.15 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 17 | 3.15 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 20 | 3.15 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 20 | 3.15 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 20 | 3.15 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 9 | 3.15 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 9 | 3.15 |
| (1,7254) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 9 | 3.15 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 16 | 3.15 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 15 | 3.15 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 10 | 3.15 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 10 | 3.15 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 10 | 3.15 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 1 | 3.15 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 14 | 3.15 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 19 | 3.15 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 19 | 3.15 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 7 | 3.15 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 8 | 3.15 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 19 | 3.15 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 3 | 3.15 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 3 | 3.15 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 16 | 3.15 |
| (1,6956) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 20 | 3.15 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 20 | 3.15 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 12 | 3.15 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 12 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 12 | 3.15 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 20 | 3.15 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 20 | 3.15 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 20 | 3.15 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 16 | 3.15 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 5 | 3.15 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 20 | 3.15 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 20 | 3.15 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 20 | 3.15 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 20 | 3.15 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 9 | 3.15 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 9 | 3.15 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 9 | 3.15 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 9 | 3.15 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 1 | 3.15 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 1 | 3.15 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 1 | 3.15 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 17 | 3.15 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 17 | 3.15 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 17 | 3.15 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 11 | 3.15 |
| (1,6608) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 14 | 3.15 |
| (1,6608) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 14 | 3.15 |
| (1,6608) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 14 | 3.15 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 2 | 3.15 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 14 | 3.15 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 14 | 3.15 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 14 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 1 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 1 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 1 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 1 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 1 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 1 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 1 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 1 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 1 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 16 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 16 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 16 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 16 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 16 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 16 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 16 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 16 | 3.15 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 16 | 3.15 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 8 | 3.15 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 8 | 3.15 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 8 | 3.15 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 11 | 3.15 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 11 | 3.15 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 11 | 3.15 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 11 | 3.15 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 11 | 3.15 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 11 | 3.15 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 11 | 3.15 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 11 | 3.15 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 11 | 3.15 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 18 | 3.15 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 18 | 3.15 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 18 | 3.15 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 19 | 3.15 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 19 | 3.15 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 19 | 3.15 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 19 | 3.15 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 19 | 3.15 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 19 | 3.15 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 19 | 3.15 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 19 | 3.15 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 19 | 3.15 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 13 | 3.15 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 13 | 3.15 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 13 | 3.15 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 15 | 3.15 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 18 | 3.15 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 18 | 3.15 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 15 | 3.15 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 13 | 3.15 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 4 | 3.15 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 4 | 3.15 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 4 | 3.15 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 12 | 3.15 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 19 | 3.15 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 11 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 14 | 3.15 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 17 | 3.15 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 14 | 3.15 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 3 | 3.15 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 3 | 3.15 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 3 | 3.15 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 8 | 3.15 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 8 | 3.15 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 8 | 3.15 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 9 | 3.15 |
| (1,5519) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 13 | 3.15 |
| (1,5468) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 18 | 3.15 |
| (1,5468) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 18 | 3.15 |
| (1,5468) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 18 | 3.15 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 9 | 3.15 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 9 | 3.15 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 9 | 3.15 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 13 | 3.15 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 6 | 3.15 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 6 | 3.15 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 6 | 3.15 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 12 | 3.15 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 12 | 3.15 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 12 | 3.15 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 12 | 3.15 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 12 | 3.15 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 12 | 3.15 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 4 | 3.15 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 4 | 3.15 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 8 | 3.15 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 12 | 3.15 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 5 | 3.15 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 5 | 3.15 |
| (1,5252) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 5 | 3.15 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 4 | 3.15 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 4 | 3.15 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 4 | 3.15 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 1 | 3.15 |
| (1,5162) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 3 | 3.15 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 6 | 3.15 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 2 | 3.15 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 2 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 2 | 3.15 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 2 | 3.15 |
| (1,4942) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 1 | 3.15 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 16 | 3.15 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 16 | 3.15 |
| (1,4910) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 16 | 3.15 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 18 | 3.15 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 18 | 3.15 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 18 | 3.15 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 9 | 3.15 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 9 | 3.15 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 9 | 3.15 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 2 | 3.15 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 16 | 3.15 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 3 | 3.15 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 3 | 3.15 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 7 | 3.15 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 7 | 3.15 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 14 | 3.15 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 14 | 3.15 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 13 | 3.15 |
| (1,4501) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 8 | 3.15 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 10 | 3.15 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 15 | 3.15 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 15 | 3.15 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 15 | 3.15 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 15 | 3.15 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 15 | 3.15 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 15 | 3.15 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 17 | 3.15 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 17 | 3.15 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 17 | 3.15 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 17 | 3.15 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 5 | 3.15 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 5 | 3.15 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 8 | 3.15 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 2 | 3.15 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 2 | 3.15 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 18 | 3.15 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 18 | 3.15 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 18 | 3.15 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 1 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 1 | 3.15 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 8 | 3.15 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 8 | 3.15 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 6 | 3.15 |
| (1,4290) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 10 | 3.15 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 7 | 3.15 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 10 | 3.15 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 10 | 3.15 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 10 | 3.15 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 10 | 3.15 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 16 | 3.15 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 16 | 3.15 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 16 | 3.15 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 16 | 3.15 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 16 | 3.15 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 16 | 3.15 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 15 | 3.15 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 2 | 3.15 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 2 | 3.15 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 2 | 3.15 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 2 | 3.15 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 18 | 3.15 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 18 | 3.15 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 2 | 3.15 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 2 | 3.15 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 5 | 3.15 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 5 | 3.15 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 5 | 3.15 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 5 | 3.15 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 5 | 3.15 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 5 | 3.15 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 1 | 3.15 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 1 | 3.15 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 1 | 3.15 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 1 | 3.15 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 1 | 3.15 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 1 | 3.15 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 13 | 3.15 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 13 | 3.15 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 13 | 3.15 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 13 | 3.15 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 13 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 13 | 3.15 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 2 | 3.15 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 2 | 3.15 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 2 | 3.15 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 2 | 3.15 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 18 | 3.15 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 20 | 3.15 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 20 | 3.15 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 14 | 3.15 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 14 | 3.15 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 14 | 3.15 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 14 | 3.15 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 14 | 3.15 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 14 | 3.15 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 9 | 3.15 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 9 | 3.15 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 7 | 3.15 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 20 | 3.15 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 20 | 3.15 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 20 | 3.15 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 20 | 3.15 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 20 | 3.15 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 20 | 3.15 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 19 | 3.15 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 19 | 3.15 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 11 | 3.15 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 6 | 3.15 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 6 | 3.15 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 8 | 3.15 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 8 | 3.15 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 8 | 3.15 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 8 | 3.15 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 8 | 3.15 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 8 | 3.15 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 3 | 3.15 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 3 | 3.15 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 3 | 3.15 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 3 | 3.15 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 3 | 3.15 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 3 | 3.15 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 1 | 3.15 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 1 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 1 | 3.15 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 1 | 3.15 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 1 | 3.15 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 1 | 3.15 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 6 | 3.15 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 6 | 3.15 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 6 | 3.15 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 6 | 3.15 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 6 | 3.15 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 6 | 3.15 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 3.15 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 18 | 3.15 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 18 | 3.15 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 18 | 3.15 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 18 | 3.15 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 18 | 3.15 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 18 | 3.15 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 13 | 3.15 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 13 | 3.15 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 16 | 3.15 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 16 | 3.15 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 16 | 3.15 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 16 | 3.15 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 16 | 3.15 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 16 | 3.15 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 5 | 3.15 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 5 | 3.15 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 14 | 3.15 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 14 | 3.15 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 3.15 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 3.15 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 17 | 3.15 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 17 | 3.15 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 14 | 3.15 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 14 | 3.15 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 17 | 3.15 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 17 | 3.15 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 14 | 3.15 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 14 | 3.15 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 11 | 3.15 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 11 | 3.15 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 9 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 9 | 3.15 |
| (1,3464) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 9 | 3.15 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 16 | 3.15 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 10 | 3.15 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 19 | 3.15 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 15 | 3.15 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 12 | 3.15 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 12 | 3.15 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 12 | 3.15 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 12 | 3.15 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 12 | 3.15 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 12 | 3.15 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 12 | 3.15 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 12 | 3.15 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 12 | 3.15 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 10 | 3.15 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 10 | 3.15 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 10 | 3.15 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 10 | 3.15 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 10 | 3.15 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 10 | 3.15 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 1 | 3.15 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 14 | 3.15 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 19 | 3.15 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 19 | 3.15 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 6 | 3.15 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 10 | 3.15 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 15 | 3.15 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 19 | 3.15 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 3.15 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 7 | 3.15 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 8 | 3.15 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 19 | 3.15 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 12 | 3.15 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 19 | 3.15 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 19 | 3.15 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 19 | 3.15 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 3 | 3.15 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 3 | 3.15 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 14 | 3.15 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 19 | 3.15 |
| (1,2984) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 20 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 20 | 3.15 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 12 | 3.15 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 12 | 3.15 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 12 | 3.15 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 8 | 3.15 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 16 | 3.15 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 5 | 3.15 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 20 | 3.15 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 20 | 3.15 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 20 | 3.15 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 20 | 3.15 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 1 | 3.15 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 1 | 3.15 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 1 | 3.15 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 17 | 3.15 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 17 | 3.15 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 17 | 3.15 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 12 | 3.15 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 13 | 3.15 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 17 | 3.15 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 11 | 3.15 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 2 | 3.15 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 7 | 3.15 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 7 | 3.15 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 7 | 3.15 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 7 | 3.15 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 7 | 3.15 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 7 | 3.15 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 5 | 3.15 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 18 | 3.15 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 16 | 3.15 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 17 | 3.15 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 17 | 3.15 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 17 | 3.15 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 14 | 3.15 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 14 | 3.15 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 14 | 3.15 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 2 | 3.15 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 2 | 3.15 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 2 | 3.15 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 19 | 3.15 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 19 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 19 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 1 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 1 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 1 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 1 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 1 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 1 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 1 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 1 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 1 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 16 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 16 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 16 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 16 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 16 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 16 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 16 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 16 | 3.15 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 16 | 3.15 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 8 | 3.15 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 8 | 3.15 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 8 | 3.15 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 11 | 3.15 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 11 | 3.15 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 11 | 3.15 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 11 | 3.15 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 11 | 3.15 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 11 | 3.15 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 11 | 3.15 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 11 | 3.15 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 11 | 3.15 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 18 | 3.15 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 18 | 3.15 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 18 | 3.15 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 18 | 3.15 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 19 | 3.15 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 3 | 3.15 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 3 | 3.15 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 3 | 3.15 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 19 | 3.15 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 19 | 3.15 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 19 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 19 | 3.15 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 19 | 3.15 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 19 | 3.15 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 19 | 3.15 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 19 | 3.15 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 19 | 3.15 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 15 | 3.15 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 15 | 3.15 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 15 | 3.15 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 2 | 3.15 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 2 | 3.15 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 2 | 3.15 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 2 | 3.15 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 2 | 3.15 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 2 | 3.15 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 8 | 3.15 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 8 | 3.15 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 8 | 3.15 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 13 | 3.15 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 13 | 3.15 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 13 | 3.15 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 6 | 3.15 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 10 | 3.15 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 15 | 3.15 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 18 | 3.15 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 18 | 3.15 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 9 | 3.15 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 15 | 3.15 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 13 | 3.15 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 4 | 3.15 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 4 | 3.15 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 4 | 3.15 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 12 | 3.15 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 19 | 3.15 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 11 | 3.15 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 14 | 3.15 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 17 | 3.15 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 14 | 3.15 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 15 | 3.15 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 15 | 3.15 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 15 | 3.15 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 3 | 3.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 3 | 3.15 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 3 | 3.15 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 17 | 3.15 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 14 | 3.15 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 19 | 3.15 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 18 | 3.15 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 16 | 3.15 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 16 | 3.15 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 16 | 3.15 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 8 | 3.15 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 8 | 3.15 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 8 | 3.15 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 9 | 3.15 |
| (1,672) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 13 | 3.15 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 5 | 3.15 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 10 | 3.15 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 16 | 3.15 |
| (1,572) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 18 | 3.15 |
| (1,572) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 18 | 3.15 |
| (1,572) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 18 | 3.15 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 9 | 3.15 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 9 | 3.15 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 9 | 3.15 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 6 | 3.15 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 6 | 3.15 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 6 | 3.15 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 6 | 3.15 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 6 | 3.15 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 6 | 3.15 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 4 | 3.15 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 5 | 3.15 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 18 | 3.15 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 18 | 3.15 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 18 | 3.15 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 18 | 3.15 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 13 | 3.15 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 13 | 3.15 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 13 | 3.15 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 10 | 3.14 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 18 | 3.14 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 13 | 3.14 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 13 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 13 | 3.14 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 17 | 3.14 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 17 | 3.14 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 4 | 3.14 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 4 | 3.14 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 15 | 3.14 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 15 | 3.14 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 3 | 3.14 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 3 | 3.14 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 3 | 3.14 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 3 | 3.14 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 16 | 3.14 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 16 | 3.14 |
| (1,9374) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 16 | 3.14 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 16 | 3.14 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 16 | 3.14 |
| (1,9374) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 16 | 3.14 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 10 | 3.14 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 10 | 3.14 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 11 | 3.14 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 11 | 3.14 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 14 | 3.14 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 14 | 3.14 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 13 | 3.14 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 13 | 3.14 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 13 | 3.14 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 13 | 3.14 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 13 | 3.14 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 13 | 3.14 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 10 | 3.14 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 10 | 3.14 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 20 | 3.14 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 20 | 3.14 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 11 | 3.14 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 11 | 3.14 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 10 | 3.14 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 10 | 3.14 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 10 | 3.14 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 10 | 3.14 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 10 | 3.14 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 10 | 3.14 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 1 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 1 | 3.14 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG2 | 15 | 3.14 |
| (1,8772) | 1:56:A:ARG:H | 1:163:A:GLU:HG3 | 15 | 3.14 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 10 | 3.14 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 10 | 3.14 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 10 | 3.14 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 10 | 3.14 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 11 | 3.14 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 11 | 3.14 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 2 | 3.14 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 2 | 3.14 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 15 | 3.14 |
| (1,8676) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 15 | 3.14 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 15 | 3.14 |
| (1,8676) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 15 | 3.14 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 7 | 3.14 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 7 | 3.14 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 7 | 3.14 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 7 | 3.14 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 7 | 3.14 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 7 | 3.14 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 10 | 3.14 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 10 | 3.14 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 10 | 3.14 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 10 | 3.14 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 10 | 3.14 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 10 | 3.14 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 13 | 3.14 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 13 | 3.14 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 15 | 3.14 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 17 | 3.14 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 17 | 3.14 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 2 | 3.14 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 8 | 3.14 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 8 | 3.14 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 8 | 3.14 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 18 | 3.14 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 18 | 3.14 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 18 | 3.14 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 9 | 3.14 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 9 | 3.14 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 9 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 9 | 3.14 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 9 | 3.14 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 9 | 3.14 |
| (1,7955) | 1:75:A:GLN:HA | 1:77:A:LYS:H | 3 | 3.14 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 19 | 3.14 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 10 | 3.14 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 16 | 3.14 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 16 | 3.14 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 16 | 3.14 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 16 | 3.14 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 16 | 3.14 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 16 | 3.14 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 8 | 3.14 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 8 | 3.14 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 2 | 3.14 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 2 | 3.14 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG21 | 18 | 3.14 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG22 | 18 | 3.14 |
| (1,7559) | 1:21:A:ARG:H | 1:22:A:VAL:HG23 | 18 | 3.14 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 4 | 3.14 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 7 | 3.14 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 7 | 3.14 |
| (1,7435) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG2 | 6 | 3.14 |
| (1,7435) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG2 | 6 | 3.14 |
| (1,7435) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG2 | 6 | 3.14 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 16 | 3.14 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 16 | 3.14 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 16 | 3.14 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 16 | 3.14 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 16 | 3.14 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 16 | 3.14 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 7 | 3.14 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 7 | 3.14 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 10 | 3.14 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 2 | 3.14 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 2 | 3.14 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 19 | 3.14 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 19 | 3.14 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 19 | 3.14 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 11 | 3.14 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 11 | 3.14 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 11 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 5 | 3.14 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 2 | 3.14 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 6 | 3.14 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 4 | 3.14 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 6 | 3.14 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 4 | 3.14 |
| (1,6887) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 5 | 3.14 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 11 | 3.14 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 11 | 3.14 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 11 | 3.14 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 11 | 3.14 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 20 | 3.14 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 20 | 3.14 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 20 | 3.14 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 20 | 3.14 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 20 | 3.14 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 20 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 13 | 3.14 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 13 | 3.14 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 17 | 3.14 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 17 | 3.14 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 18 | 3.14 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 8 | 3.14 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 8 | 3.14 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 8 | 3.14 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 6 | 3.14 |
| (1,6521) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 4 | 3.14 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 6 | 3.14 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 6 | 3.14 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 6 | 3.14 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 6 | 3.14 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 6 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 6 | 3.14 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 6 | 3.14 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 6 | 3.14 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 6 | 3.14 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 7 | 3.14 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 7 | 3.14 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 7 | 3.14 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 13 | 3.14 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 13 | 3.14 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 13 | 3.14 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 16 | 3.14 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 16 | 3.14 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 16 | 3.14 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 15 | 3.14 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 13 | 3.14 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 13 | 3.14 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 13 | 3.14 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 20 | 3.14 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 20 | 3.14 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 20 | 3.14 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 20 | 3.14 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 20 | 3.14 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 20 | 3.14 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 15 | 3.14 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 19 | 3.14 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 19 | 3.14 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 19 | 3.14 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 12 | 3.14 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 12 | 3.14 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 12 | 3.14 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 12 | 3.14 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 12 | 3.14 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 12 | 3.14 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 12 | 3.14 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 12 | 3.14 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 12 | 3.14 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 12 | 3.14 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 18 | 3.14 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 18 | 3.14 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 1 | 3.14 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 3 | 3.14 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 4 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 4 | 3.14 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 4 | 3.14 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 16 | 3.14 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 16 | 3.14 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 16 | 3.14 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 16 | 3.14 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 8 | 3.14 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 8 | 3.14 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 6 | 3.14 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 6 | 3.14 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 6 | 3.14 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 11 | 3.14 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 11 | 3.14 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 11 | 3.14 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 6 | 3.14 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 6 | 3.14 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 15 | 3.14 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 15 | 3.14 |
| (1,5765) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 15 | 3.14 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 18 | 3.14 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 4 | 3.14 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 14 | 3.14 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 14 | 3.14 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 14 | 3.14 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 20 | 3.14 |
| (1,5612) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 8 | 3.14 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 14 | 3.14 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 12 | 3.14 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 12 | 3.14 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 8 | 3.14 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 11 | 3.14 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 11 | 3.14 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 11 | 3.14 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 11 | 3.14 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 11 | 3.14 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 11 | 3.14 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 5 | 3.14 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 5 | 3.14 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 5 | 3.14 |
| (1,5466) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 12 | 3.14 |
| (1,5466) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 12 | 3.14 |
| (1,5466) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 12 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 12 | 3.14 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 4 | 3.14 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 4 | 3.14 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 4 | 3.14 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 7 | 3.14 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 13 | 3.14 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 16 | 3.14 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 16 | 3.14 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 16 | 3.14 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 13 | 3.14 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 13 | 3.14 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 13 | 3.14 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 17 | 3.14 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 17 | 3.14 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 17 | 3.14 |
| (1,5067) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 20 | 3.14 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 9 | 3.14 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 7 | 3.14 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 7 | 3.14 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 15 | 3.14 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 15 | 3.14 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 15 | 3.14 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 17 | 3.14 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 17 | 3.14 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 17 | 3.14 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 7 | 3.14 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 7 | 3.14 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 7 | 3.14 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 18 | 3.14 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 3 | 3.14 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 8 | 3.14 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 4 | 3.14 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 3 | 3.14 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 3 | 3.14 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 3 | 3.14 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 3 | 3.14 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 3 | 3.14 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 3 | 3.14 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 4 | 3.14 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 4 | 3.14 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 15 | 3.14 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 15 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 9 | 3.14 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 8 | 3.14 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 8 | 3.14 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 9 | 3.14 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 10 | 3.14 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 10 | 3.14 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 14 | 3.14 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 11 | 3.14 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 11 | 3.14 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 19 | 3.14 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 19 | 3.14 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 11 | 3.14 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 11 | 3.14 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 11 | 3.14 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 13 | 3.14 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 13 | 3.14 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 13 | 3.14 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 13 | 3.14 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 13 | 3.14 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 13 | 3.14 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 8 | 3.14 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 8 | 3.14 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 18 | 3.14 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 18 | 3.14 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 18 | 3.14 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 18 | 3.14 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 18 | 3.14 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 18 | 3.14 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 2 | 3.14 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 2 | 3.14 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 3 | 3.14 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 3 | 3.14 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 3 | 3.14 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 12 | 3.14 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 12 | 3.14 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 20 | 3.14 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 20 | 3.14 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 11 | 3.14 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 11 | 3.14 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 11 | 3.14 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 13 | 3.14 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 15 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 10 | 3.14 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 10 | 3.14 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 10 | 3.14 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 11 | 3.14 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 11 | 3.14 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 1 | 3.14 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 8 | 3.14 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 16 | 3.14 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 16 | 3.14 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 9 | 3.14 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 19 | 3.14 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 19 | 3.14 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 19 | 3.14 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 19 | 3.14 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 10 | 3.14 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 10 | 3.14 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 10 | 3.14 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 10 | 3.14 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 10 | 3.14 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 10 | 3.14 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 14 | 3.14 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 14 | 3.14 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 14 | 3.14 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 16 | 3.14 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 16 | 3.14 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 16 | 3.14 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 11 | 3.14 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 4 | 3.14 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 4 | 3.14 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 4 | 3.14 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 4 | 3.14 |
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 6 | 3.14 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 14 | 3.14 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 14 | 3.14 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 3 | 3.14 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 3 | 3.14 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 3 | 3.14 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 1 | 3.14 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 1 | 3.14 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 3 | 3.14 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 3 | 3.14 |
| (1,3572) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 15 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 7 | 3.14 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 7 | 3.14 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 7 | 3.14 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 7 | 3.14 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 7 | 3.14 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 7 | 3.14 |
| (1,3536) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 19 | 3.14 |
| (1,3536) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 19 | 3.14 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 19 | 3.14 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 19 | 3.14 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 5 | 3.14 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 5 | 3.14 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 10 | 3.14 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 10 | 3.14 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 10 | 3.14 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 10 | 3.14 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 10 | 3.14 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 10 | 3.14 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 10 | 3.14 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 14 | 3.14 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 16 | 3.14 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 2 | 3.14 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 2 | 3.14 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 19 | 3.14 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 19 | 3.14 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 19 | 3.14 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 3 | 3.14 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 3 | 3.14 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 11 | 3.14 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 11 | 3.14 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 11 | 3.14 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 2 | 3.14 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 18 | 3.14 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 3 | 3.14 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 3 | 3.14 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 3 | 3.14 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 5 | 3.14 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 1 | 3.14 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 2 | 3.14 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 8 | 3.14 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 6 | 3.14 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 4 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 6 | 3.14 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 4 | 3.14 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 14 | 3.14 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 4 | 3.14 |
| (1,2884) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 5 | 3.14 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 11 | 3.14 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 11 | 3.14 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 11 | 3.14 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 20 | 3.14 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 20 | 3.14 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 20 | 3.14 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 20 | 3.14 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 20 | 3.14 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 20 | 3.14 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 4 | 3.14 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 4 | 3.14 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 17 | 3.14 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 17 | 3.14 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 18 | 3.14 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 1 | 3.14 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 13 | 3.14 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 8 | 3.14 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 8 | 3.14 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 8 | 3.14 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 7 | 3.14 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 7 | 3.14 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 7 | 3.14 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 6 | 3.14 |
| (1,2364) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 4 | 3.14 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 8 | 3.14 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 6 | 3.14 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 6 | 3.14 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 6 | 3.14 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 6 | 3.14 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 6 | 3.14 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 6 | 3.14 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 6 | 3.14 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 6 | 3.14 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 6 | 3.14 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 7 | 3.14 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 7 | 3.14 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 7 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 13 | 3.14 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 13 | 3.14 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 13 | 3.14 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 16 | 3.14 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 16 | 3.14 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 16 | 3.14 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 11 | 3.14 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 11 | 3.14 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 11 | 3.14 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 15 | 3.14 |
| (1,2077) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 12 | 3.14 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 13 | 3.14 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 13 | 3.14 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 13 | 3.14 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 20 | 3.14 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 20 | 3.14 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 20 | 3.14 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 20 | 3.14 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 20 | 3.14 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 20 | 3.14 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 8 | 3.14 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 8 | 3.14 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 8 | 3.14 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 19 | 3.14 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 19 | 3.14 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 19 | 3.14 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 3 | 3.14 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 11 | 3.14 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 17 | 3.14 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 12 | 3.14 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 12 | 3.14 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 12 | 3.14 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 12 | 3.14 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 12 | 3.14 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 12 | 3.14 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 12 | 3.14 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 12 | 3.14 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 12 | 3.14 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 16 | 3.14 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 16 | 3.14 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 16 | 3.14 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 18 | 3.14 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 16 | 3.14 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 20 | 3.14 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 12 | 3.14 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 18 | 3.14 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 18 | 3.14 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 1 | 3.14 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 2 | 3.14 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 3 | 3.14 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 4 | 3.14 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 4 | 3.14 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 4 | 3.14 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 16 | 3.14 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 16 | 3.14 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 16 | 3.14 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 16 | 3.14 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 8 | 3.14 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 8 | 3.14 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 16 | 3.14 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 16 | 3.14 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 16 | 3.14 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 16 | 3.14 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 16 | 3.14 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 16 | 3.14 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 16 | 3.14 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 16 | 3.14 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 16 | 3.14 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 6 | 3.14 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 6 | 3.14 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 6 | 3.14 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 11 | 3.14 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 11 | 3.14 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 11 | 3.14 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 13 | 3.14 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 6 | 3.14 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 6 | 3.14 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 16 | 3.14 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 15 | 3.14 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 15 | 3.14 |
| (1,1102) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 15 | 3.14 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 18 | 3.14 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 18 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 14 | 3.14 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 14 | 3.14 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 14 | 3.14 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 20 | 3.14 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 8 | 3.14 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 2 | 3.14 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 2 | 3.14 |
| (1,806) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 8 | 3.14 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 14 | 3.14 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 17 | 3.14 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 17 | 3.14 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 8 | 3.14 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 14 | 3.14 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 14 | 3.14 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 14 | 3.14 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 4 | 3.14 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 4 | 3.14 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 4 | 3.14 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 15 | 3.14 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 11 | 3.14 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 11 | 3.14 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 11 | 3.14 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 11 | 3.14 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 11 | 3.14 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 11 | 3.14 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 5 | 3.14 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 5 | 3.14 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 5 | 3.14 |
| (1,566) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 12 | 3.14 |
| (1,566) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 12 | 3.14 |
| (1,566) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 12 | 3.14 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 12 | 3.14 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 10 | 3.14 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 10 | 3.14 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 10 | 3.14 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 4 | 3.14 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 4 | 3.14 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 4 | 3.14 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 16 | 3.14 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 16 | 3.14 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 16 | 3.14 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 8 | 3.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 8 | 3.14 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 8 | 3.14 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 3 | 3.14 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 3 | 3.14 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 1 | 3.14 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 1 | 3.14 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 1 | 3.14 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 13 | 3.14 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 13 | 3.14 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 13 | 3.14 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 6 | 3.14 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 8 | 3.13 |
| (4,81) | 1:15:A:MET:CB | 1:140:A:ALA:H | 18 | 3.13 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 4 | 3.13 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 9 | 3.13 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 9 | 3.13 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 9 | 3.13 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 9 | 3.13 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 16 | 3.13 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 16 | 3.13 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 20 | 3.13 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 20 | 3.13 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 16 | 3.13 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 16 | 3.13 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 16 | 3.13 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 16 | 3.13 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 10 | 3.13 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 10 | 3.13 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 10 | 3.13 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 10 | 3.13 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 10 | 3.13 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 10 | 3.13 |
| (1,9014) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 18 | 3.13 |
| (1,9014) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 18 | 3.13 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 20 | 3.13 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 20 | 3.13 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 16 | 3.13 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 16 | 3.13 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 16 | 3.13 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 16 | 3.13 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 16 | 3.13 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 16 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 10 | 3.13 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 10 | 3.13 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 3.13 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 20 | 3.13 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 2 | 3.13 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 2 | 3.13 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 2 | 3.13 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 2 | 3.13 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 2 | 3.13 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 2 | 3.13 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 4 | 3.13 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 4 | 3.13 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 4 | 3.13 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 4 | 3.13 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 19 | 3.13 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 19 | 3.13 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 19 | 3.13 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 19 | 3.13 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 19 | 3.13 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 19 | 3.13 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 15 | 3.13 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 15 | 3.13 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 19 | 3.13 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 19 | 3.13 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 9 | 3.13 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 9 | 3.13 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 20 | 3.13 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 3.13 |
| (1,8657) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 1 | 3.13 |
| (1,8657) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 1 | 3.13 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 8 | 3.13 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 8 | 3.13 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 3 | 3.13 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 3 | 3.13 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 3 | 3.13 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 3 | 3.13 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 3 | 3.13 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 3 | 3.13 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 15 | 3.13 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 15 | 3.13 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 15 | 3.13 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 15 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 15 | 3.13 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 15 | 3.13 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 18 | 3.13 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 18 | 3.13 |
| (1,8473) | 1:151:A:PHE:HD1 | 1:152:A:THR:H | 2 | 3.13 |
| (1,8473) | 1:151:A:PHE:HD2 | 1:152:A:THR:H | 2 | 3.13 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 9 | 3.13 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 9 | 3.13 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 10 | 3.13 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 10 | 3.13 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 10 | 3.13 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 10 | 3.13 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 10 | 3.13 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 10 | 3.13 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 4 | 3.13 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 1 | 3.13 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 6 | 3.13 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 5 | 3.13 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 5 | 3.13 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 5 | 3.13 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 6 | 3.13 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 6 | 3.13 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 6 | 3.13 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 15 | 3.13 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 19 | 3.13 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 19 | 3.13 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 19 | 3.13 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 9 | 3.13 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 10 | 3.13 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 9 | 3.13 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 14 | 3.13 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 8 | 3.13 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 2 | 3.13 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 2 | 3.13 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 2 | 3.13 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 13 | 3.13 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 20 | 3.13 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 9 | 3.13 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 11 | 3.13 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 4 | 3.13 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 7 | 3.13 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 6 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 15 | 3.13 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 15 | 3.13 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 8 | 3.13 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 8 | 3.13 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 8 | 3.13 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 17 | 3.13 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 17 | 3.13 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 2 | 3.13 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 2 | 3.13 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 17 | 3.13 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 3 | 3.13 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 12 | 3.13 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 5 | 3.13 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 5 | 3.13 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 19 | 3.13 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 10 | 3.13 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 16 | 3.13 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 16 | 3.13 |
| (1,6968) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 17 | 3.13 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 13 | 3.13 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 2 | 3.13 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 2 | 3.13 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 4 | 3.13 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 8 | 3.13 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 2 | 3.13 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 2 | 3.13 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 2 | 3.13 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 14 | 3.13 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 9 | 3.13 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 13 | 3.13 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 5 | 3.13 |
| (1,6543) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 8 | 3.13 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 13 | 3.13 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 13 | 3.13 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 13 | 3.13 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 16 | 3.13 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 16 | 3.13 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 16 | 3.13 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 1 | 3.13 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 1 | 3.13 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 1 | 3.13 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 1 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 7 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 7 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 7 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 7 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 7 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 7 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 7 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 7 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 7 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 15 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 15 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 15 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 15 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 15 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 15 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 15 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 15 | 3.13 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 15 | 3.13 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 9 | 3.13 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 9 | 3.13 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 9 | 3.13 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 17 | 3.13 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 17 | 3.13 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 17 | 3.13 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 17 | 3.13 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 17 | 3.13 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 17 | 3.13 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 19 | 3.13 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 19 | 3.13 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 19 | 3.13 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 17 | 3.13 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 12 | 3.13 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 6 | 3.13 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 11 | 3.13 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 11 | 3.13 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 11 | 3.13 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 11 | 3.13 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 11 | 3.13 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 11 | 3.13 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 8 | 3.13 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 8 | 3.13 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 8 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 19 | 3.13 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 19 | 3.13 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 19 | 3.13 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 17 | 3.13 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 17 | 3.13 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 17 | 3.13 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 15 | 3.13 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 16 | 3.13 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 10 | 3.13 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 17 | 3.13 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 17 | 3.13 |
| (1,5464) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 9 | 3.13 |
| (1,5464) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 9 | 3.13 |
| (1,5464) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 9 | 3.13 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 8 | 3.13 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 8 | 3.13 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 8 | 3.13 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 18 | 3.13 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 16 | 3.13 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 6 | 3.13 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 13 | 3.13 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 13 | 3.13 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 13 | 3.13 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 20 | 3.13 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 20 | 3.13 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 20 | 3.13 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 20 | 3.13 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 20 | 3.13 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 20 | 3.13 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 20 | 3.13 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 20 | 3.13 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 20 | 3.13 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 8 | 3.13 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 8 | 3.13 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 8 | 3.13 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 12 | 3.13 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 12 | 3.13 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 12 | 3.13 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 19 | 3.13 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 16 | 3.13 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 3 | 3.13 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 11 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 11 | 3.13 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 16 | 3.13 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 16 | 3.13 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 13 | 3.13 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 13 | 3.13 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 1 | 3.13 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 1 | 3.13 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 1 | 3.13 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 9 | 3.13 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 18 | 3.13 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 18 | 3.13 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 18 | 3.13 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 17 | 3.13 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 17 | 3.13 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 17 | 3.13 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 20 | 3.13 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 20 | 3.13 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 8 | 3.13 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 8 | 3.13 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 10 | 3.13 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 10 | 3.13 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 11 | 3.13 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 8 | 3.13 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 8 | 3.13 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 15 | 3.13 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 15 | 3.13 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 12 | 3.13 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 12 | 3.13 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 12 | 3.13 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 19 | 3.13 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 19 | 3.13 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 19 | 3.13 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 1 | 3.13 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 3 | 3.13 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 13 | 3.13 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 19 | 3.13 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 10 | 3.13 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 10 | 3.13 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 10 | 3.13 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 10 | 3.13 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 10 | 3.13 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 10 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 5 | 3.13 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 11 | 3.13 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 5 | 3.13 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 5 | 3.13 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 19 | 3.13 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 19 | 3.13 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 19 | 3.13 |
| (1,3986) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 18 | 3.13 |
| (1,3986) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 18 | 3.13 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 12 | 3.13 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 12 | 3.13 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 11 | 3.13 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 11 | 3.13 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 11 | 3.13 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 11 | 3.13 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 11 | 3.13 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 11 | 3.13 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 6 | 3.13 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 6 | 3.13 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 10 | 3.13 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 12 | 3.13 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 16 | 3.13 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 19 | 3.13 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 3.13 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 20 | 3.13 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 2 | 3.13 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 2 | 3.13 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 2 | 3.13 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 2 | 3.13 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 2 | 3.13 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 2 | 3.13 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 3.13 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 3.13 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 3.13 |
| (1,3800) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 14 | 3.13 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 16 | 3.13 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 19 | 3.13 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 19 | 3.13 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 19 | 3.13 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 19 | 3.13 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 19 | 3.13 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 19 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 19 | 3.13 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 19 | 3.13 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 14 | 3.13 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 14 | 3.13 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 9 | 3.13 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 9 | 3.13 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 20 | 3.13 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 3.13 |
| (1,3634) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 1 | 3.13 |
| (1,3634) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 1 | 3.13 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 10 | 3.13 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 10 | 3.13 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 10 | 3.13 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 14 | 3.13 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 11 | 3.13 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 11 | 3.13 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 17 | 3.13 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 17 | 3.13 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 3 | 3.13 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 3 | 3.13 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 3 | 3.13 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 3 | 3.13 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 3 | 3.13 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 3 | 3.13 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 15 | 3.13 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 15 | 3.13 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 15 | 3.13 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 15 | 3.13 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 15 | 3.13 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 15 | 3.13 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 3 | 3.13 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 12 | 3.13 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 7 | 3.13 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 18 | 3.13 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 18 | 3.13 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 18 | 3.13 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 5 | 3.13 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 5 | 3.13 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 5 | 3.13 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 5 | 3.13 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 5 | 3.13 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 19 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 3 | 3.13 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 7 | 3.13 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 13 | 3.13 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 3.13 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 10 | 3.13 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 16 | 3.13 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 16 | 3.13 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 16 | 3.13 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 8 | 3.13 |
| (1,2998) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 17 | 3.13 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 13 | 3.13 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 2 | 3.13 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 2 | 3.13 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 4 | 3.13 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 17 | 3.13 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 17 | 3.13 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 8 | 3.13 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 9 | 3.13 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 2 | 3.13 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 2 | 3.13 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 2 | 3.13 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 14 | 3.13 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 9 | 3.13 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 13 | 3.13 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 5 | 3.13 |
| (1,2390) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 8 | 3.13 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 13 | 3.13 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 13 | 3.13 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 13 | 3.13 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 16 | 3.13 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 16 | 3.13 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 16 | 3.13 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 1 | 3.13 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 12 | 3.13 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 13 | 3.13 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 13 | 3.13 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 13 | 3.13 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 5 | 3.13 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 11 | 3.13 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 11 | 3.13 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 13 | 3.13 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 13 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 13 | 3.13 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 20 | 3.13 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 20 | 3.13 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 20 | 3.13 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 1 | 3.13 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 1 | 3.13 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 1 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 7 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 7 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 7 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 7 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 7 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 7 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 7 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 7 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 7 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 15 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 15 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 15 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 15 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 15 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 15 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 15 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 15 | 3.13 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 15 | 3.13 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 3.13 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 3.13 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 3.13 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 9 | 3.13 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 9 | 3.13 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 9 | 3.13 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 6 | 3.13 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 17 | 3.13 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 17 | 3.13 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 17 | 3.13 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 17 | 3.13 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 17 | 3.13 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 17 | 3.13 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 19 | 3.13 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 19 | 3.13 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 19 | 3.13 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 17 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 16 | 3.13 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 16 | 3.13 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 16 | 3.13 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 16 | 3.13 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 20 | 3.13 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 12 | 3.13 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 6 | 3.13 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 13 | 3.13 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 13 | 3.13 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 13 | 3.13 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 13 | 3.13 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 13 | 3.13 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 13 | 3.13 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 13 | 3.13 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 13 | 3.13 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 12 | 3.13 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 3.13 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 3.13 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 3.13 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 11 | 3.13 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 11 | 3.13 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 11 | 3.13 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 11 | 3.13 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 11 | 3.13 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 11 | 3.13 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 8 | 3.13 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 8 | 3.13 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 8 | 3.13 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 7 | 3.13 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 20 | 3.13 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 19 | 3.13 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 19 | 3.13 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 19 | 3.13 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 11 | 3.13 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 17 | 3.13 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 17 | 3.13 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 17 | 3.13 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 14 | 3.13 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 15 | 3.13 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 5 | 3.13 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 8 | 3.13 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 13 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 16 | 3.13 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 5 | 3.13 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 12 | 3.13 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 14 | 3.13 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 14 | 3.13 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 14 | 3.13 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 14 | 3.13 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 14 | 3.13 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 14 | 3.13 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 4 | 3.13 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 4 | 3.13 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 4 | 3.13 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 16 | 3.13 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 10 | 3.13 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 7 | 3.13 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 7 | 3.13 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 17 | 3.13 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 17 | 3.13 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 10 | 3.13 |
| (1,564) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 9 | 3.13 |
| (1,564) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 9 | 3.13 |
| (1,564) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 9 | 3.13 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 8 | 3.13 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 8 | 3.13 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 8 | 3.13 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 20 | 3.13 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 20 | 3.13 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 20 | 3.13 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 20 | 3.13 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 20 | 3.13 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 20 | 3.13 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 7 | 3.13 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 7 | 3.13 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 7 | 3.13 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 7 | 3.13 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 7 | 3.13 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 7 | 3.13 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 13 | 3.13 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 13 | 3.13 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 13 | 3.13 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 19 | 3.13 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 19 | 3.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 19 | 3.13 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 17 | 3.13 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 17 | 3.13 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 17 | 3.13 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 20 | 3.13 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 8 | 3.13 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 14 | 3.13 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 14 | 3.13 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 14 | 3.13 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 2 | 3.13 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 12 | 3.12 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 5 | 3.12 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 13 | 3.12 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 13 | 3.12 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 11 | 3.12 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 6 | 3.12 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 13 | 3.12 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 13 | 3.12 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 2 | 3.12 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 2 | 3.12 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 2 | 3.12 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 2 | 3.12 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 2 | 3.12 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 2 | 3.12 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 17 | 3.12 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 17 | 3.12 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 17 | 3.12 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 17 | 3.12 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 17 | 3.12 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 17 | 3.12 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 17 | 3.12 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 17 | 3.12 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 1 | 3.12 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 1 | 3.12 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 18 | 3.12 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 18 | 3.12 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 18 | 3.12 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 18 | 3.12 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 18 | 3.12 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 18 | 3.12 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 4 | 3.12 |
| (1,9468) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 4 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 4 | 3.12 |
| (1,9468) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 4 | 3.12 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 18 | 3.12 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 18 | 3.12 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 14 | 3.12 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 14 | 3.12 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 10 | 3.12 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 10 | 3.12 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 12 | 3.12 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 12 | 3.12 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 12 | 3.12 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 12 | 3.12 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 12 | 3.12 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 12 | 3.12 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 20 | 3.12 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 20 | 3.12 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 3 | 3.12 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 3 | 3.12 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 3 | 3.12 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 3 | 3.12 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 3 | 3.12 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 3 | 3.12 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 12 | 3.12 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 12 | 3.12 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 12 | 3.12 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 12 | 3.12 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 12 | 3.12 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 12 | 3.12 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 20 | 3.12 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 20 | 3.12 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 14 | 3.12 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 14 | 3.12 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 3.12 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 3.12 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 3.12 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 3.12 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 3.12 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 3.12 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 13 | 3.12 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 13 | 3.12 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 6 | 3.12 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 6 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 3 | 3.12 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 3 | 3.12 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 3 | 3.12 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 3 | 3.12 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 3 | 3.12 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 3 | 3.12 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 3.12 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 3.12 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 3.12 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 3.12 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 3.12 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 3.12 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 16 | 3.12 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 16 | 3.12 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 11 | 3.12 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 11 | 3.12 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 11 | 3.12 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 11 | 3.12 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 11 | 3.12 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 11 | 3.12 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 19 | 3.12 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 19 | 3.12 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 12 | 3.12 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 12 | 3.12 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 1 | 3.12 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 1 | 3.12 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 5 | 3.12 |
| (1,8629) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 5 | 3.12 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 5 | 3.12 |
| (1,8629) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 5 | 3.12 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 5 | 3.12 |
| (1,8629) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 5 | 3.12 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 15 | 3.12 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 15 | 3.12 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 19 | 3.12 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 19 | 3.12 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 18 | 3.12 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 18 | 3.12 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 18 | 3.12 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 18 | 3.12 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 18 | 3.12 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 18 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8444) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 1 | 3.12 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 17 | 3.12 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 17 | 3.12 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 17 | 3.12 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 12 | 3.12 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 12 | 3.12 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 12 | 3.12 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 12 | 3.12 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 12 | 3.12 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 12 | 3.12 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 11 | 3.12 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 11 | 3.12 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 11 | 3.12 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 11 | 3.12 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 11 | 3.12 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 11 | 3.12 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 20 | 3.12 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 6 | 3.12 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD11 | 4 | 3.12 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD12 | 4 | 3.12 |
| (1,7922) | 1:70:A:PRO:HA | 1:78:A:ILE:HD13 | 4 | 3.12 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 18 | 3.12 |
| (1,7736) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 2 | 3.12 |
| (1,7736) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 2 | 3.12 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 19 | 3.12 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 19 | 3.12 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 19 | 3.12 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 19 | 3.12 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 19 | 3.12 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 19 | 3.12 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 18 | 3.12 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 10 | 3.12 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 5 | 3.12 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 4 | 3.12 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 4 | 3.12 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 4 | 3.12 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 20 | 3.12 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 20 | 3.12 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 20 | 3.12 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 20 | 3.12 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 20 | 3.12 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 20 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 2 | 3.12 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 13 | 3.12 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 7 | 3.12 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 15 | 3.12 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 15 | 3.12 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 18 | 3.12 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 11 | 3.12 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 11 | 3.12 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 11 | 3.12 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 3 | 3.12 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 6 | 3.12 |
| (1,6841) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 9 | 3.12 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 8 | 3.12 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 18 | 3.12 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 18 | 3.12 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 18 | 3.12 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 18 | 3.12 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 6 | 3.12 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 6 | 3.12 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 15 | 3.12 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 6 | 3.12 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 6 | 3.12 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 6 | 3.12 |
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 14 | 3.12 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 19 | 3.12 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 19 | 3.12 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 19 | 3.12 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 11 | 3.12 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 11 | 3.12 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 11 | 3.12 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 19 | 3.12 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 19 | 3.12 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 19 | 3.12 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 2 | 3.12 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 2 | 3.12 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 2 | 3.12 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 9 | 3.12 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 9 | 3.12 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 9 | 3.12 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 9 | 3.12 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 9 | 3.12 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 9 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 9 | 3.12 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 9 | 3.12 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 9 | 3.12 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 4 | 3.12 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 4 | 3.12 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 4 | 3.12 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 12 | 3.12 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 12 | 3.12 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 12 | 3.12 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 12 | 3.12 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 12 | 3.12 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 12 | 3.12 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 12 | 3.12 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 12 | 3.12 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 12 | 3.12 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 12 | 3.12 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 12 | 3.12 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 12 | 3.12 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 15 | 3.12 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 15 | 3.12 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 15 | 3.12 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 17 | 3.12 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 17 | 3.12 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 17 | 3.12 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 7 | 3.12 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 12 | 3.12 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 12 | 3.12 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 12 | 3.12 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 12 | 3.12 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 12 | 3.12 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 12 | 3.12 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 12 | 3.12 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 12 | 3.12 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 12 | 3.12 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 18 | 3.12 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 18 | 3.12 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 18 | 3.12 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 7 | 3.12 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 18 | 3.12 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 18 | 3.12 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 15 | 3.12 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 15 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 6 | 3.12 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 6 | 3.12 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 6 | 3.12 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 18 | 3.12 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 18 | 3.12 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 15 | 3.12 |
| (1,5634) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 16 | 3.12 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 15 | 3.12 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 15 | 3.12 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 15 | 3.12 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 20 | 3.12 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 20 | 3.12 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 7 | 3.12 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 5 | 3.12 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 5 | 3.12 |
| (1,5474) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 5 | 3.12 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 16 | 3.12 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 16 | 3.12 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 16 | 3.12 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 16 | 3.12 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 16 | 3.12 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 16 | 3.12 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 16 | 3.12 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 16 | 3.12 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 16 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 3.12 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 1 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 1 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 11 | 3.12 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 11 | 3.12 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 4 | 3.12 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 12 | 3.12 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 12 | 3.12 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 12 | 3.12 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 12 | 3.12 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 12 | 3.12 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 12 | 3.12 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 12 | 3.12 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 12 | 3.12 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 12 | 3.12 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 9 | 3.12 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 9 | 3.12 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 9 | 3.12 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 16 | 3.12 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 17 | 3.12 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 4 | 3.12 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 4 | 3.12 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 4 | 3.12 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 7 | 3.12 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 7 | 3.12 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 7 | 3.12 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 3 | 3.12 |
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 3 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 3 | 3.12 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 2 | 3.12 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 2 | 3.12 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 2 | 3.12 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 19 | 3.12 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 9 | 3.12 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 8 | 3.12 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 8 | 3.12 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 8 | 3.12 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 1 | 3.12 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 1 | 3.12 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 1 | 3.12 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 13 | 3.12 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 13 | 3.12 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 13 | 3.12 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 14 | 3.12 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 14 | 3.12 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 14 | 3.12 |
| (1,5003) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 13 | 3.12 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 16 | 3.12 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 18 | 3.12 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 1 | 3.12 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 5 | 3.12 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 14 | 3.12 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 13 | 3.12 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 12 | 3.12 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 12 | 3.12 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 12 | 3.12 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 13 | 3.12 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 13 | 3.12 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 2 | 3.12 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 2 | 3.12 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 2 | 3.12 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 2 | 3.12 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 2 | 3.12 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 2 | 3.12 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 17 | 3.12 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 17 | 3.12 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 17 | 3.12 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 17 | 3.12 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 17 | 3.12 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 17 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 15 | 3.12 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 15 | 3.12 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 1 | 3.12 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 6 | 3.12 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 18 | 3.12 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 18 | 3.12 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 18 | 3.12 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 18 | 3.12 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 18 | 3.12 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 18 | 3.12 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 4 | 3.12 |
| (1,4462) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 4 | 3.12 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 4 | 3.12 |
| (1,4462) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 4 | 3.12 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 15 | 3.12 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 15 | 3.12 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 15 | 3.12 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 18 | 3.12 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 18 | 3.12 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 3.12 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 12 | 3.12 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 12 | 3.12 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 10 | 3.12 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 6 | 3.12 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 6 | 3.12 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 6 | 3.12 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 3 | 3.12 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 7 | 3.12 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 15 | 3.12 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 14 | 3.12 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 14 | 3.12 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 14 | 3.12 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 12 | 3.12 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 12 | 3.12 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 12 | 3.12 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 12 | 3.12 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 12 | 3.12 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 12 | 3.12 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 14 | 3.12 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 14 | 3.12 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 14 | 3.12 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 14 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 3 | 3.12 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 3 | 3.12 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 3 | 3.12 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 3 | 3.12 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 3 | 3.12 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 3 | 3.12 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 1 | 3.12 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 1 | 3.12 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 11 | 3.12 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 11 | 3.12 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 7 | 3.12 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 17 | 3.12 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 20 | 3.12 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 20 | 3.12 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 14 | 3.12 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 14 | 3.12 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 2 | 3.12 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 13 | 3.12 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 13 | 3.12 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 13 | 3.12 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 3 | 3.12 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 3 | 3.12 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 3 | 3.12 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 3 | 3.12 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 3 | 3.12 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 3 | 3.12 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 3.12 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 3.12 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 3.12 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 3.12 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 3.12 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 3.12 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 16 | 3.12 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 16 | 3.12 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 4 | 3.12 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 4 | 3.12 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 4 | 3.12 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 3 | 3.12 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 3 | 3.12 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 3 | 3.12 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 11 | 3.12 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 11 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 11 | 3.12 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 11 | 3.12 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 11 | 3.12 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 11 | 3.12 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 15 | 3.12 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 15 | 3.12 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 19 | 3.12 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 19 | 3.12 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 1 | 3.12 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 1 | 3.12 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 12 | 3.12 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 12 | 3.12 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 12 | 3.12 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 5 | 3.12 |
| (1,3578) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 5 | 3.12 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 5 | 3.12 |
| (1,3578) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 5 | 3.12 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 5 | 3.12 |
| (1,3578) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 5 | 3.12 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 6 | 3.12 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 6 | 3.12 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 1 | 3.12 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 4 | 3.12 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 19 | 3.12 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 19 | 3.12 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 6 | 3.12 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 7 | 3.12 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 15 | 3.12 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 15 | 3.12 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 10 | 3.12 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 10 | 3.12 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 17 | 3.12 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 17 | 3.12 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 18 | 3.12 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 16 | 3.12 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 10 | 3.12 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 17 | 3.12 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 19 | 3.12 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 10 | 3.12 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 11 | 3.12 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 6 | 3.12 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 6 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 6 | 3.12 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 11 | 3.12 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 11 | 3.12 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 11 | 3.12 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 3 | 3.12 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 6 | 3.12 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 8 | 3.12 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 4 | 3.12 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 4 | 3.12 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 4 | 3.12 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 4 | 3.12 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 4 | 3.12 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 4 | 3.12 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 4 | 3.12 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 4 | 3.12 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 3 | 3.12 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 3 | 3.12 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 12 | 3.12 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 12 | 3.12 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 12 | 3.12 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 6 | 3.12 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 6 | 3.12 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 17 | 3.12 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 4 | 3.12 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 15 | 3.12 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 14 | 3.12 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 14 | 3.12 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 14 | 3.12 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 14 | 3.12 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 14 | 3.12 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 14 | 3.12 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 15 | 3.12 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 6 | 3.12 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 6 | 3.12 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 6 | 3.12 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 15 | 3.12 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 11 | 3.12 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 14 | 3.12 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 5 | 3.12 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 16 | 3.12 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 19 | 3.12 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 19 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 19 | 3.12 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 9 | 3.12 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 11 | 3.12 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 11 | 3.12 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 11 | 3.12 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 19 | 3.12 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 19 | 3.12 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 19 | 3.12 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 2 | 3.12 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 2 | 3.12 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 2 | 3.12 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 9 | 3.12 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 9 | 3.12 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 9 | 3.12 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 9 | 3.12 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 9 | 3.12 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 9 | 3.12 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 9 | 3.12 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 9 | 3.12 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 9 | 3.12 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 4 | 3.12 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 4 | 3.12 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 4 | 3.12 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 12 | 3.12 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 12 | 3.12 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 12 | 3.12 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 5 | 3.12 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 5 | 3.12 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 5 | 3.12 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 19 | 3.12 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 19 | 3.12 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 19 | 3.12 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 12 | 3.12 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 12 | 3.12 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 12 | 3.12 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 12 | 3.12 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 12 | 3.12 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 12 | 3.12 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 12 | 3.12 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 12 | 3.12 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 12 | 3.12 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 15 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 15 | 3.12 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 15 | 3.12 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 17 | 3.12 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 17 | 3.12 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 17 | 3.12 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 1 | 3.12 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 5 | 3.12 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 6 | 3.12 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 7 | 3.12 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 7 | 3.12 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 12 | 3.12 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 12 | 3.12 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 12 | 3.12 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 12 | 3.12 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 12 | 3.12 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 12 | 3.12 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 12 | 3.12 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 12 | 3.12 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 12 | 3.12 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 1 | 3.12 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 8 | 3.12 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 8 | 3.12 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 18 | 3.12 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 18 | 3.12 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 18 | 3.12 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 7 | 3.12 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 18 | 3.12 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 18 | 3.12 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 15 | 3.12 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 15 | 3.12 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 17 | 3.12 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 9 | 3.12 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 9 | 3.12 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 9 | 3.12 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 6 | 3.12 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 6 | 3.12 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 6 | 3.12 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 6 | 3.12 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 6 | 3.12 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 6 | 3.12 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 20 | 3.12 |
| (1,1230) | 1:119:A:ARG:H | 1:119:A:ARG:HB2 | 16 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 6 | 3.12 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 6 | 3.12 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 6 | 3.12 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 12 | 3.12 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 18 | 3.12 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 18 | 3.12 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 20 | 3.12 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 20 | 3.12 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 5 | 3.12 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 5 | 3.12 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 5 | 3.12 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 15 | 3.12 |
| (1,852) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 16 | 3.12 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 15 | 3.12 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 15 | 3.12 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 15 | 3.12 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 15 | 3.12 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 3 | 3.12 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 11 | 3.12 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 8 | 3.12 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 8 | 3.12 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 20 | 3.12 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 20 | 3.12 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 3 | 3.12 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 5 | 3.12 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 17 | 3.12 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 17 | 3.12 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 19 | 3.12 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 7 | 3.12 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 5 | 3.12 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 5 | 3.12 |
| (1,582) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 5 | 3.12 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 16 | 3.12 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 16 | 3.12 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 16 | 3.12 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 16 | 3.12 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 16 | 3.12 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 16 | 3.12 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 16 | 3.12 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 16 | 3.12 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 16 | 3.12 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 5 | 3.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 5 | 3.12 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 5 | 3.12 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 20 | 3.12 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 20 | 3.12 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 20 | 3.12 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 4 | 3.12 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 4 | 3.12 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 4 | 3.12 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 16 | 3.12 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 10 | 3.12 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 10 | 3.12 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 10 | 3.12 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 2 | 3.12 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 2 | 3.12 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 2 | 3.12 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 18 | 3.12 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 18 | 3.12 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 18 | 3.12 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 17 | 3.12 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 17 | 3.12 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 17 | 3.12 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 2 | 3.12 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 2 | 3.12 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 12 | 3.11 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 3 | 3.11 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 15 | 3.11 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 15 | 3.11 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 18 | 3.11 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 18 | 3.11 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 20 | 3.11 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 20 | 3.11 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 8 | 3.11 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 8 | 3.11 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 4 | 3.11 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 4 | 3.11 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 4 | 3.11 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 4 | 3.11 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 12 | 3.11 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 12 | 3.11 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 12 | 3.11 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 12 | 3.11 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 13 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 13 | 3.11 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 15 | 3.11 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 15 | 3.11 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 15 | 3.11 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 15 | 3.11 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 15 | 3.11 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 15 | 3.11 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 4 | 3.11 |
| (1,9173) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 4 | 3.11 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 4 | 3.11 |
| (1,9173) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 4 | 3.11 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 4 | 3.11 |
| (1,9173) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 4 | 3.11 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 2 | 3.11 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 2 | 3.11 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 20 | 3.11 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 20 | 3.11 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 2 | 3.11 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 2 | 3.11 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 2 | 3.11 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 2 | 3.11 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 8 | 3.11 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 8 | 3.11 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 20 | 3.11 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 20 | 3.11 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 20 | 3.11 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 20 | 3.11 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 8 | 3.11 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 8 | 3.11 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 8 | 3.11 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 8 | 3.11 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 9 | 3.11 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 9 | 3.11 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 16 | 3.11 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 16 | 3.11 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 18 | 3.11 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 18 | 3.11 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 4 | 3.11 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 4 | 3.11 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 4 | 3.11 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 4 | 3.11 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 7 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 7 | 3.11 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 10 | 3.11 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 10 | 3.11 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 15 | 3.11 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 7 | 3.11 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 1 | 3.11 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 19 | 3.11 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 19 | 3.11 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 19 | 3.11 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 19 | 3.11 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 19 | 3.11 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 19 | 3.11 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 7 | 3.11 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 7 | 3.11 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 7 | 3.11 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 7 | 3.11 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 7 | 3.11 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 7 | 3.11 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 1 | 3.11 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 1 | 3.11 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 1 | 3.11 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 1 | 3.11 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 1 | 3.11 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 1 | 3.11 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 12 | 3.11 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 4 | 3.11 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 4 | 3.11 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 3 | 3.11 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 3 | 3.11 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 3 | 3.11 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 3 | 3.11 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 3 | 3.11 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 3 | 3.11 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 5 | 3.11 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 19 | 3.11 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 10 | 3.11 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 13 | 3.11 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 13 | 3.11 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 20 | 3.11 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 14 | 3.11 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 1 | 3.11 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 1 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 15 | 3.11 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 15 | 3.11 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 5 | 3.11 |
| (1,7425) | 1:7:A:LEU:HB2 | 1:8:A:PRO:HD3 | 14 | 3.11 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 15 | 3.11 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 15 | 3.11 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 18 | 3.11 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 18 | 3.11 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 8 | 3.11 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 8 | 3.11 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 8 | 3.11 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 19 | 3.11 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 11 | 3.11 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 19 | 3.11 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 19 | 3.11 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 19 | 3.11 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 12 | 3.11 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 12 | 3.11 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 11 | 3.11 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 6 | 3.11 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 6 | 3.11 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 6 | 3.11 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 11 | 3.11 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 11 | 3.11 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 11 | 3.11 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 3 | 3.11 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 12 | 3.11 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 12 | 3.11 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 8 | 3.11 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 8 | 3.11 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 8 | 3.11 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 8 | 3.11 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 4 | 3.11 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 4 | 3.11 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 7 | 3.11 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 2 | 3.11 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 2 | 3.11 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 2 | 3.11 |
| (1,6729) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 18 | 3.11 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 1 | 3.11 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 4 | 3.11 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 14 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 14 | 3.11 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 14 | 3.11 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 14 | 3.11 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 14 | 3.11 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 14 | 3.11 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 4 | 3.11 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 4 | 3.11 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 4 | 3.11 |
| (1,6219) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 9 | 3.11 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 5 | 3.11 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 3 | 3.11 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 3 | 3.11 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 3 | 3.11 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 6 | 3.11 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 1 | 3.11 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 16 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 6 | 3.11 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 6 | 3.11 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 1 | 3.11 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 1 | 3.11 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 1 | 3.11 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 16 | 3.11 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 14 | 3.11 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 4 | 3.11 |
| (1,5681) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 3 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 18 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 18 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 19 | 3.11 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 19 | 3.11 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 9 | 3.11 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 9 | 3.11 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 1 | 3.11 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 1 | 3.11 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 1 | 3.11 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 8 | 3.11 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 8 | 3.11 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 8 | 3.11 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 8 | 3.11 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 8 | 3.11 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 8 | 3.11 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 8 | 3.11 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 8 | 3.11 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 8 | 3.11 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 8 | 3.11 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 8 | 3.11 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 8 | 3.11 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 13 | 3.11 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 2 | 3.11 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 2 | 3.11 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 2 | 3.11 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 5 | 3.11 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 5 | 3.11 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 5 | 3.11 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 15 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 15 | 3.11 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 15 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 10 | 3.11 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 10 | 3.11 |
| (1,5416) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 14 | 3.11 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 4 | 3.11 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 4 | 3.11 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 4 | 3.11 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 9 | 3.11 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 9 | 3.11 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 9 | 3.11 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 10 | 3.11 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 15 | 3.11 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 9 | 3.11 |
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 18 | 3.11 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 5 | 3.11 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 17 | 3.11 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 7 | 3.11 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 7 | 3.11 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 7 | 3.11 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 9 | 3.11 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 18 | 3.11 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 20 | 3.11 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 4 | 3.11 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 17 | 3.11 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 14 | 3.11 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 12 | 3.11 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 12 | 3.11 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 14 | 3.11 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 14 | 3.11 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 12 | 3.11 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 12 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 12 | 3.11 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 2 | 3.11 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 2 | 3.11 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 2 | 3.11 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 2 | 3.11 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 2 | 3.11 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 2 | 3.11 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 2 | 3.11 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 2 | 3.11 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 2 | 3.11 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 19 | 3.11 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 19 | 3.11 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 19 | 3.11 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 19 | 3.11 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 19 | 3.11 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 19 | 3.11 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 19 | 3.11 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 19 | 3.11 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 19 | 3.11 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 14 | 3.11 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 2 | 3.11 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 2 | 3.11 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 2 | 3.11 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 14 | 3.11 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 14 | 3.11 |
| (1,4622) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 19 | 3.11 |
| (1,4622) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 19 | 3.11 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 8 | 3.11 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 8 | 3.11 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 18 | 3.11 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 18 | 3.11 |
| (1,4598) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 18 | 3.11 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 8 | 3.11 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 2 | 3.11 |
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 2 | 3.11 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 19 | 3.11 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 3.11 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 3.11 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 3.11 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 3.11 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 16 | 3.11 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 16 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 16 | 3.11 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 16 | 3.11 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 12 | 3.11 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 12 | 3.11 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 3 | 3.11 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 3 | 3.11 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 19 | 3.11 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 19 | 3.11 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 19 | 3.11 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 19 | 3.11 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 3.11 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 12 | 3.11 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 16 | 3.11 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 16 | 3.11 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 16 | 3.11 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 4 | 3.11 |
| (1,4152) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 4 | 3.11 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 4 | 3.11 |
| (1,4152) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 4 | 3.11 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 4 | 3.11 |
| (1,4152) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 4 | 3.11 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 15 | 3.11 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 15 | 3.11 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 15 | 3.11 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 15 | 3.11 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 15 | 3.11 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 15 | 3.11 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 13 | 3.11 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 13 | 3.11 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 7 | 3.11 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 7 | 3.11 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 7 | 3.11 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 7 | 3.11 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 7 | 3.11 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 7 | 3.11 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 3 | 3.11 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 3 | 3.11 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 3 | 3.11 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 6 | 3.11 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 6 | 3.11 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 6 | 3.11 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 19 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 19 | 3.11 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 19 | 3.11 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 14 | 3.11 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 8 | 3.11 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 8 | 3.11 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 8 | 3.11 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 14 | 3.11 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 14 | 3.11 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 14 | 3.11 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 5 | 3.11 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 5 | 3.11 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 5 | 3.11 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 5 | 3.11 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 5 | 3.11 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 5 | 3.11 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 7 | 3.11 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 18 | 3.11 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 8 | 3.11 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 8 | 3.11 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 9 | 3.11 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 9 | 3.11 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 9 | 3.11 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 9 | 3.11 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 9 | 3.11 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 9 | 3.11 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 10 | 3.11 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 10 | 3.11 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 10 | 3.11 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 10 | 3.11 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 10 | 3.11 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 10 | 3.11 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 3.11 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 3.11 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 3.11 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 18 | 3.11 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 18 | 3.11 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 18 | 3.11 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 9 | 3.11 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 9 | 3.11 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 16 | 3.11 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 16 | 3.11 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 3 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 3 | 3.11 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 13 | 3.11 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 13 | 3.11 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 8 | 3.11 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 8 | 3.11 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 8 | 3.11 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 8 | 3.11 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 16 | 3.11 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 16 | 3.11 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 16 | 3.11 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 16 | 3.11 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 10 | 3.11 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 10 | 3.11 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 6 | 3.11 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 6 | 3.11 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 6 | 3.11 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 3 | 3.11 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 3 | 3.11 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 11 | 3.11 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 19 | 3.11 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 19 | 3.11 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 19 | 3.11 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 2 | 3.11 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 2 | 3.11 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 10 | 3.11 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 19 | 3.11 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 12 | 3.11 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 12 | 3.11 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 13 | 3.11 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 11 | 3.11 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 6 | 3.11 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 6 | 3.11 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 6 | 3.11 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 11 | 3.11 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 11 | 3.11 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 11 | 3.11 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 3 | 3.11 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 12 | 3.11 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 12 | 3.11 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 8 | 3.11 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 8 | 3.11 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 8 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 8 | 3.11 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 4 | 3.11 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 4 | 3.11 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 7 | 3.11 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 2 | 3.11 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 2 | 3.11 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 2 | 3.11 |
| (1,2662) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 18 | 3.11 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 1 | 3.11 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 16 | 3.11 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 10 | 3.11 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 8 | 3.11 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 18 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 11 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 11 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 11 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 11 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 11 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 11 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 11 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 11 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 11 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 19 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 19 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 19 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 19 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 19 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 19 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 19 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 19 | 3.11 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 19 | 3.11 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 8 | 3.11 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 8 | 3.11 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 8 | 3.11 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 12 | 3.11 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 12 | 3.11 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 12 | 3.11 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 11 | 3.11 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 14 | 3.11 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 14 | 3.11 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 14 | 3.11 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 14 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 14 | 3.11 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 14 | 3.11 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 4 | 3.11 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 4 | 3.11 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 4 | 3.11 |
| (1,1848) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 9 | 3.11 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 9 | 3.11 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 19 | 3.11 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 5 | 3.11 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 2 | 3.11 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 2 | 3.11 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 3 | 3.11 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 3 | 3.11 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 3 | 3.11 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 6 | 3.11 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 16 | 3.11 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 5 | 3.11 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 4 | 3.11 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 1 | 3.11 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 1 | 3.11 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 1 | 3.11 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 16 | 3.11 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 14 | 3.11 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 14 | 3.11 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 4 | 3.11 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 8 | 3.11 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 7 | 3.11 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 8 | 3.11 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 13 | 3.11 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 13 | 3.11 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 13 | 3.11 |
| (1,946) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 3 | 3.11 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 7 | 3.11 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 7 | 3.11 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 7 | 3.11 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 1 | 3.11 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 13 | 3.11 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 17 | 3.11 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 9 | 3.11 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 9 | 3.11 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 16 | 3.11 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 16 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 1 | 3.11 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 1 | 3.11 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 1 | 3.11 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 8 | 3.11 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 8 | 3.11 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 8 | 3.11 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 6 | 3.11 |
| (1,752) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 7 | 3.11 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 8 | 3.11 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 8 | 3.11 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 8 | 3.11 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 8 | 3.11 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 8 | 3.11 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 8 | 3.11 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 8 | 3.11 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 8 | 3.11 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 8 | 3.11 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 13 | 3.11 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 15 | 3.11 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 13 | 3.11 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 10 | 3.11 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 14 | 3.11 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 6 | 3.11 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 9 | 3.11 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 2 | 3.11 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 2 | 3.11 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 2 | 3.11 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 5 | 3.11 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 5 | 3.11 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 5 | 3.11 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 15 | 3.11 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 15 | 3.11 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 15 | 3.11 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 3 | 3.11 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 3 | 3.11 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 3 | 3.11 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 3 | 3.11 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 3 | 3.11 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 3 | 3.11 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 13 | 3.11 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 13 | 3.11 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 20 | 3.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 9 | 3.1 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 16 | 3.1 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 4 | 3.1 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 4 | 3.1 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 6 | 3.1 |
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 6 | 3.1 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 6 | 3.1 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 16 | 3.1 |
| (1,9587) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 16 | 3.1 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 16 | 3.1 |
| (1,9587) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 16 | 3.1 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 16 | 3.1 |
| (1,9587) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 16 | 3.1 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 11 | 3.1 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 11 | 3.1 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 3 | 3.1 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 3 | 3.1 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 3 | 3.1 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 3 | 3.1 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 2 | 3.1 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 2 | 3.1 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 14 | 3.1 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 14 | 3.1 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 3.1 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 3.1 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 8 | 3.1 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 8 | 3.1 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 12 | 3.1 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 12 | 3.1 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 12 | 3.1 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 12 | 3.1 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 13 | 3.1 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 13 | 3.1 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB2 | 5 | 3.1 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB2 | 5 | 3.1 |
| (1,9274) | 1:102:A:ASP:HB2 | 1:105:A:SER:HB3 | 5 | 3.1 |
| (1,9274) | 1:102:A:ASP:HB3 | 1:105:A:SER:HB3 | 5 | 3.1 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 19 | 3.1 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 19 | 3.1 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 19 | 3.1 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 19 | 3.1 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 7 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 7 | 3.1 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 7 | 3.1 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 7 | 3.1 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 7 | 3.1 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 7 | 3.1 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 4 | 3.1 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 4 | 3.1 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 19 | 3.1 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 19 | 3.1 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 15 | 3.1 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 15 | 3.1 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 15 | 3.1 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 15 | 3.1 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 15 | 3.1 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 15 | 3.1 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 10 | 3.1 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 10 | 3.1 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 3.1 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 3.1 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 16 | 3.1 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 16 | 3.1 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 16 | 3.1 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 16 | 3.1 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 16 | 3.1 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 16 | 3.1 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 5 | 3.1 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 5 | 3.1 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 5 | 3.1 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 5 | 3.1 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 5 | 3.1 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 5 | 3.1 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 17 | 3.1 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 17 | 3.1 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 17 | 3.1 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 17 | 3.1 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 17 | 3.1 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 17 | 3.1 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 5 | 3.1 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 5 | 3.1 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 5 | 3.1 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 5 | 3.1 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 5 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 5 | 3.1 |
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 19 | 3.1 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 19 | 3.1 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 11 | 3.1 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 11 | 3.1 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 17 | 3.1 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 17 | 3.1 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 17 | 3.1 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 17 | 3.1 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 8 | 3.1 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 8 | 3.1 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 8 | 3.1 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 8 | 3.1 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 19 | 3.1 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 19 | 3.1 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 15 | 3.1 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 15 | 3.1 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 17 | 3.1 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 17 | 3.1 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 4 | 3.1 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 4 | 3.1 |
| (1,8509) | 1:161:A:ARG:HA | 1:163:A:GLU:H | 14 | 3.1 |
| (1,8502) | 1:160:A:LEU:H | 1:161:A:ARG:H | 11 | 3.1 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 8 | 3.1 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 8 | 3.1 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 8 | 3.1 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 16 | 3.1 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 13 | 3.1 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 13 | 3.1 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 13 | 3.1 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 13 | 3.1 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 13 | 3.1 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 13 | 3.1 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 14 | 3.1 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 14 | 3.1 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 14 | 3.1 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 14 | 3.1 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 14 | 3.1 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 14 | 3.1 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 14 | 3.1 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 14 | 3.1 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 14 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 18 | 3.1 |
| (1,8046) | 1:88:A:LEU:H | 1:90:A:ASN:H | 1 | 3.1 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 14 | 3.1 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 14 | 3.1 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 14 | 3.1 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 8 | 3.1 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 1 | 3.1 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 15 | 3.1 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA2 | 5 | 3.1 |
| (1,7704) | 1:49:A:GLN:HG2 | 1:50:A:GLY:HA3 | 5 | 3.1 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA2 | 5 | 3.1 |
| (1,7704) | 1:49:A:GLN:HG3 | 1:50:A:GLY:HA3 | 5 | 3.1 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 20 | 3.1 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 3 | 3.1 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 3 | 3.1 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 3 | 3.1 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 3 | 3.1 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 3 | 3.1 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 4 | 3.1 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 20 | 3.1 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 20 | 3.1 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 10 | 3.1 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 7 | 3.1 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 15 | 3.1 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 15 | 3.1 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 9 | 3.1 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 9 | 3.1 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 9 | 3.1 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 6 | 3.1 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 16 | 3.1 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 5 | 3.1 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 5 | 3.1 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 5 | 3.1 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 16 | 3.1 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 20 | 3.1 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 8 | 3.1 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 8 | 3.1 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 6 | 3.1 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 6 | 3.1 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 6 | 3.1 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 11 | 3.1 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 16 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 2 | 3.1 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 11 | 3.1 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 1 | 3.1 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 1 | 3.1 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 1 | 3.1 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 9 | 3.1 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 3 | 3.1 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 3 | 3.1 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 11 | 3.1 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 15 | 3.1 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 15 | 3.1 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 15 | 3.1 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 15 | 3.1 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 7 | 3.1 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 8 | 3.1 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 4 | 3.1 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 4 | 3.1 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 4 | 3.1 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 11 | 3.1 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 2 | 3.1 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 8 | 3.1 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 17 | 3.1 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 18 | 3.1 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 5 | 3.1 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 5 | 3.1 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 5 | 3.1 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 9 | 3.1 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 9 | 3.1 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 9 | 3.1 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 4 | 3.1 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 13 | 3.1 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 19 | 3.1 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 5 | 3.1 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 5 | 3.1 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 5 | 3.1 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 5 | 3.1 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 5 | 3.1 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 5 | 3.1 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 5 | 3.1 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 5 | 3.1 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 5 | 3.1 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 3 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 3 | 3.1 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 10 | 3.1 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 9 | 3.1 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 9 | 3.1 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 9 | 3.1 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 13 | 3.1 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 13 | 3.1 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 13 | 3.1 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 19 | 3.1 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 19 | 3.1 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 8 | 3.1 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 15 | 3.1 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 15 | 3.1 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 16 | 3.1 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 16 | 3.1 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 16 | 3.1 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 2 | 3.1 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 11 | 3.1 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 11 | 3.1 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 12 | 3.1 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 17 | 3.1 |
| (1,5710) | 1:105:A:SER:H | 1:107:A:ALA:H | 11 | 3.1 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 13 | 3.1 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 12 | 3.1 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 12 | 3.1 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 12 | 3.1 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 17 | 3.1 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 18 | 3.1 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 11 | 3.1 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 11 | 3.1 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 11 | 3.1 |
| (1,5379) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 15 | 3.1 |
| (1,5379) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 15 | 3.1 |
| (1,5379) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 15 | 3.1 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 5 | 3.1 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 15 | 3.1 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 15 | 3.1 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 15 | 3.1 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 8 | 3.1 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 17 | 3.1 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 17 | 3.1 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 17 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5156) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 12 | 3.1 |
| (1,5106) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 13 | 3.1 |
| (1,5106) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 13 | 3.1 |
| (1,5106) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 13 | 3.1 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 15 | 3.1 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 15 | 3.1 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 15 | 3.1 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 3 | 3.1 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 3 | 3.1 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 3 | 3.1 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 15 | 3.1 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 15 | 3.1 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 15 | 3.1 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 15 | 3.1 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 15 | 3.1 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 15 | 3.1 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 15 | 3.1 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 15 | 3.1 |
| (1,4868) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 9 | 3.1 |
| (1,4868) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 9 | 3.1 |
| (1,4868) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 9 | 3.1 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 8 | 3.1 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 8 | 3.1 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 8 | 3.1 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 8 | 3.1 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 8 | 3.1 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 8 | 3.1 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 6 | 3.1 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 6 | 3.1 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 6 | 3.1 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 17 | 3.1 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 17 | 3.1 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 17 | 3.1 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 2 | 3.1 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 2 | 3.1 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 16 | 3.1 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 20 | 3.1 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 20 | 3.1 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 20 | 3.1 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 20 | 3.1 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 2 | 3.1 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 2 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 14 | 3.1 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 14 | 3.1 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 3.1 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 3.1 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 3 | 3.1 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 3 | 3.1 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 3 | 3.1 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 3 | 3.1 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 12 | 3.1 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 12 | 3.1 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 12 | 3.1 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 12 | 3.1 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 13 | 3.1 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 13 | 3.1 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 15 | 3.1 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 15 | 3.1 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 15 | 3.1 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 5 | 3.1 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 18 | 3.1 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 3 | 3.1 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 3 | 3.1 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 7 | 3.1 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 7 | 3.1 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 7 | 3.1 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 7 | 3.1 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 7 | 3.1 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 7 | 3.1 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 15 | 3.1 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 15 | 3.1 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 15 | 3.1 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 15 | 3.1 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 15 | 3.1 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 15 | 3.1 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 10 | 3.1 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 10 | 3.1 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 3.1 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 3.1 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 20 | 3.1 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 20 | 3.1 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 20 | 3.1 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 20 | 3.1 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 20 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 20 | 3.1 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 10 | 3.1 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 16 | 3.1 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 16 | 3.1 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 16 | 3.1 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 16 | 3.1 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 16 | 3.1 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 16 | 3.1 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 15 | 3.1 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 15 | 3.1 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 15 | 3.1 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 5 | 3.1 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 5 | 3.1 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 5 | 3.1 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 5 | 3.1 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 5 | 3.1 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 5 | 3.1 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 17 | 3.1 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 17 | 3.1 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 17 | 3.1 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 17 | 3.1 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 17 | 3.1 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 17 | 3.1 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 8 | 3.1 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 8 | 3.1 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 8 | 3.1 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 4 | 3.1 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 4 | 3.1 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 4 | 3.1 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 1 | 3.1 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 1 | 3.1 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 1 | 3.1 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 1 | 3.1 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 1 | 3.1 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 1 | 3.1 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 3 | 3.1 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 3.1 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 17 | 3.1 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 4 | 3.1 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 4 | 3.1 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 4 | 3.1 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 4 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 4 | 3.1 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 4 | 3.1 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 1 | 3.1 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 9 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 4 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 4 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 4 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 4 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 4 | 3.1 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 4 | 3.1 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 4 | 3.1 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 19 | 3.1 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 19 | 3.1 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 2 | 3.1 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 2 | 3.1 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 6 | 3.1 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 6 | 3.1 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 7 | 3.1 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 13 | 3.1 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 13 | 3.1 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 17 | 3.1 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 17 | 3.1 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 4 | 3.1 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 4 | 3.1 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 8 | 3.1 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 9 | 3.1 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 9 | 3.1 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 9 | 3.1 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 4 | 3.1 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 6 | 3.1 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 16 | 3.1 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 5 | 3.1 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 5 | 3.1 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 5 | 3.1 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 16 | 3.1 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 15 | 3.1 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 15 | 3.1 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 15 | 3.1 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 20 | 3.1 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 4 | 3.1 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 8 | 3.1 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 8 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 9 | 3.1 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 11 | 3.1 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 11 | 3.1 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 16 | 3.1 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 1 | 3.1 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 1 | 3.1 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 1 | 3.1 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 9 | 3.1 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 3 | 3.1 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 3 | 3.1 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 11 | 3.1 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 15 | 3.1 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 15 | 3.1 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 15 | 3.1 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 15 | 3.1 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 7 | 3.1 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 8 | 3.1 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 3 | 3.1 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 5 | 3.1 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 7 | 3.1 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 4 | 3.1 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 4 | 3.1 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 4 | 3.1 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 11 | 3.1 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 2 | 3.1 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 8 | 3.1 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 17 | 3.1 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 18 | 3.1 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 5 | 3.1 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 5 | 3.1 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 5 | 3.1 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 9 | 3.1 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 9 | 3.1 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 9 | 3.1 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 4 | 3.1 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 13 | 3.1 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 19 | 3.1 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 4 | 3.1 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 4 | 3.1 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 4 | 3.1 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 4 | 3.1 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 3 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 3 | 3.1 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 2 | 3.1 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 2 | 3.1 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 2 | 3.1 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 2 | 3.1 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 2 | 3.1 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 2 | 3.1 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 2 | 3.1 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 2 | 3.1 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 2 | 3.1 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 10 | 3.1 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 9 | 3.1 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 9 | 3.1 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 9 | 3.1 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 13 | 3.1 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 13 | 3.1 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 13 | 3.1 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 9 | 3.1 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 9 | 3.1 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 9 | 3.1 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 12 | 3.1 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 19 | 3.1 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 19 | 3.1 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 14 | 3.1 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 14 | 3.1 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 14 | 3.1 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 14 | 3.1 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 14 | 3.1 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 14 | 3.1 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 8 | 3.1 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 15 | 3.1 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 15 | 3.1 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 16 | 3.1 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 16 | 3.1 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 16 | 3.1 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 15 | 3.1 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 15 | 3.1 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 15 | 3.1 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 2 | 3.1 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 11 | 3.1 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 11 | 3.1 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 12 | 3.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 17 | 3.1 |
| (1,992) | 1:105:A:SER:H | 1:107:A:ALA:H | 11 | 3.1 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 6 | 3.1 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 10 | 3.1 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 19 | 3.1 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 1 | 3.1 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 1 | 3.1 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 1 | 3.1 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 9 | 3.1 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 13 | 3.1 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 12 | 3.1 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 12 | 3.1 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 12 | 3.1 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 17 | 3.1 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 9 | 3.1 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 9 | 3.1 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 9 | 3.1 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 3 | 3.1 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 3 | 3.1 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 3 | 3.1 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 3 | 3.1 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 3 | 3.1 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 3 | 3.1 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 9 | 3.1 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 11 | 3.1 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 16 | 3.1 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 16 | 3.1 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 16 | 3.1 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 16 | 3.1 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 16 | 3.1 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 16 | 3.1 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 12 | 3.1 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 12 | 3.1 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 12 | 3.1 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 2 | 3.1 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 2 | 3.1 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 2 | 3.1 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 15 | 3.09 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 15 | 3.09 |
| (4,203) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 20 | 3.09 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 2 | 3.09 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 10 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 10 | 3.09 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 3 | 3.09 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 3 | 3.09 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 16 | 3.09 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 16 | 3.09 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 3 | 3.09 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 3 | 3.09 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 12 | 3.09 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 12 | 3.09 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 3 | 3.09 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 3 | 3.09 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB2 | 1 | 3.09 |
| (1,9414) | 1:126:A:SER:HB2 | 1:127:A:ARG:HB3 | 1 | 3.09 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB2 | 1 | 3.09 |
| (1,9414) | 1:126:A:SER:HB3 | 1:127:A:ARG:HB3 | 1 | 3.09 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 20 | 3.09 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 3.09 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 17 | 3.09 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 17 | 3.09 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 13 | 3.09 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 13 | 3.09 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 1 | 3.09 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 1 | 3.09 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 2 | 3.09 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 2 | 3.09 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 14 | 3.09 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 14 | 3.09 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 2 | 3.09 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 2 | 3.09 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 2 | 3.09 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 2 | 3.09 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 5 | 3.09 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 5 | 3.09 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 5 | 3.09 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 5 | 3.09 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 5 | 3.09 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 5 | 3.09 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 13 | 3.09 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 13 | 3.09 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 13 | 3.09 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 13 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 5 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 5 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 5 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 5 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 5 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 5 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 13 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 13 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 13 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 13 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 13 | 3.09 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 13 | 3.09 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 3.09 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 3.09 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 3.09 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 3.09 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 7 | 3.09 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 7 | 3.09 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 7 | 3.09 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 7 | 3.09 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 7 | 3.09 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 7 | 3.09 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 19 | 3.09 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 19 | 3.09 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 20 | 3.09 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 20 | 3.09 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 3 | 3.09 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 3 | 3.09 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 3 | 3.09 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 3 | 3.09 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 3 | 3.09 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 3 | 3.09 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 12 | 3.09 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 12 | 3.09 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 12 | 3.09 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 12 | 3.09 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 12 | 3.09 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 12 | 3.09 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 11 | 3.09 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 11 | 3.09 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 14 | 3.09 |
| (1,8757) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 14 | 3.09 |
| (1,8568) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 8 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8568) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 8 | 3.09 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 20 | 3.09 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 20 | 3.09 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 14 | 3.09 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 14 | 3.09 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 14 | 3.09 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 10 | 3.09 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 10 | 3.09 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 10 | 3.09 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 10 | 3.09 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 10 | 3.09 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 10 | 3.09 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 2 | 3.09 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 2 | 3.09 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 2 | 3.09 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 2 | 3.09 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 2 | 3.09 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 2 | 3.09 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 20 | 3.09 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 20 | 3.09 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 12 | 3.09 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 14 | 3.09 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 10 | 3.09 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 10 | 3.09 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 10 | 3.09 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 15 | 3.09 |
| (1,7999) | 1:81:A:THR:HG21 | 1:85:A:ALA:H | 3 | 3.09 |
| (1,7999) | 1:81:A:THR:HG22 | 1:85:A:ALA:H | 3 | 3.09 |
| (1,7999) | 1:81:A:THR:HG23 | 1:85:A:ALA:H | 3 | 3.09 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 7 | 3.09 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG21 | 18 | 3.09 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG22 | 18 | 3.09 |
| (1,7730) | 1:54:A:ARG:HA | 1:55:A:VAL:HG23 | 18 | 3.09 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 11 | 3.09 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 19 | 3.09 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 19 | 3.09 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 20 | 3.09 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 20 | 3.09 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 10 | 3.09 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 10 | 3.09 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 13 | 3.09 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 13 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 7 | 3.09 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 7 | 3.09 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 7 | 3.09 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 7 | 3.09 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 7 | 3.09 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 7 | 3.09 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 7 | 3.09 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 20 | 3.09 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 20 | 3.09 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 20 | 3.09 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 3 | 3.09 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 12 | 3.09 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 4 | 3.09 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 4 | 3.09 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 20 | 3.09 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 9 | 3.09 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 9 | 3.09 |
| (1,7154) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 19 | 3.09 |
| (1,7154) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 19 | 3.09 |
| (1,7154) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 19 | 3.09 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 6 | 3.09 |
| (1,7116) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 11 | 3.09 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 1 | 3.09 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 17 | 3.09 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 9 | 3.09 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 9 | 3.09 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 10 | 3.09 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 14 | 3.09 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 10 | 3.09 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 1 | 3.09 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 11 | 3.09 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 1 | 3.09 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 5 | 3.09 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 5 | 3.09 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 15 | 3.09 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 17 | 3.09 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 5 | 3.09 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 5 | 3.09 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 5 | 3.09 |
| (1,6607) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 16 | 3.09 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 9 | 3.09 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 13 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6493) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 2 | 3.09 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 11 | 3.09 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 11 | 3.09 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 11 | 3.09 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 18 | 3.09 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 18 | 3.09 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 18 | 3.09 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 8 | 3.09 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 8 | 3.09 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 11 | 3.09 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 11 | 3.09 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 11 | 3.09 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 11 | 3.09 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 11 | 3.09 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 11 | 3.09 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 11 | 3.09 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 11 | 3.09 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 11 | 3.09 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 18 | 3.09 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 18 | 3.09 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 18 | 3.09 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 2 | 3.09 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 2 | 3.09 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 2 | 3.09 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 16 | 3.09 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 16 | 3.09 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 16 | 3.09 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 11 | 3.09 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 11 | 3.09 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 19 | 3.09 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 2 | 3.09 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 2 | 3.09 |
| (1,6239) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 2 | 3.09 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 19 | 3.09 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 15 | 3.09 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 12 | 3.09 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 12 | 3.09 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 12 | 3.09 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 10 | 3.09 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 11 | 3.09 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 17 | 3.09 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 15 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 15 | 3.09 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 15 | 3.09 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 5 | 3.09 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 13 | 3.09 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 20 | 3.09 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 13 | 3.09 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 6 | 3.09 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 19 | 3.09 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 2 | 3.09 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 2 | 3.09 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 2 | 3.09 |
| (1,5892) | 1:123:A:GLY:H | 1:124:A:ALA:H | 3 | 3.09 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 17 | 3.09 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 17 | 3.09 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 17 | 3.09 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 17 | 3.09 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 17 | 3.09 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 17 | 3.09 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 17 | 3.09 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 17 | 3.09 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 17 | 3.09 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 13 | 3.09 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 13 | 3.09 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 13 | 3.09 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 13 | 3.09 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 13 | 3.09 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 13 | 3.09 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 13 | 3.09 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 10 | 3.09 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 19 | 3.09 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 7 | 3.09 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 19 | 3.09 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 1 | 3.09 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 14 | 3.09 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 14 | 3.09 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 4 | 3.09 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 16 | 3.09 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 16 | 3.09 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 16 | 3.09 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 16 | 3.09 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 16 | 3.09 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 16 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 16 | 3.09 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 16 | 3.09 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 16 | 3.09 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 5 | 3.09 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 5 | 3.09 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 5 | 3.09 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 7 | 3.09 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 6 | 3.09 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 6 | 3.09 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 6 | 3.09 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 8 | 3.09 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 8 | 3.09 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 8 | 3.09 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 3 | 3.09 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 3 | 3.09 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 13 | 3.09 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 13 | 3.09 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 13 | 3.09 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 14 | 3.09 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 14 | 3.09 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 14 | 3.09 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 19 | 3.09 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 19 | 3.09 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 19 | 3.09 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 1 | 3.09 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 12 | 3.09 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 12 | 3.09 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 12 | 3.09 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 18 | 3.09 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 18 | 3.09 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 18 | 3.09 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 2 | 3.09 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 2 | 3.09 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 2 | 3.09 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 16 | 3.09 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 16 | 3.09 |
| (1,5232) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 16 | 3.09 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 4 | 3.09 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 4 | 3.09 |
| (1,4983) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 4 | 3.09 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 9 | 3.09 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 11 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 11 | 3.09 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 11 | 3.09 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 15 | 3.09 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 15 | 3.09 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 15 | 3.09 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 18 | 3.09 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 18 | 3.09 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 18 | 3.09 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 18 | 3.09 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 18 | 3.09 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 18 | 3.09 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 18 | 3.09 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 18 | 3.09 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 18 | 3.09 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 11 | 3.09 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 11 | 3.09 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 11 | 3.09 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 11 | 3.09 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 11 | 3.09 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 11 | 3.09 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 11 | 3.09 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 11 | 3.09 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 11 | 3.09 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 2 | 3.09 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 2 | 3.09 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 2 | 3.09 |
| (1,4824) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 9 | 3.09 |
| (1,4824) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 9 | 3.09 |
| (1,4824) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 9 | 3.09 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 3 | 3.09 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 3 | 3.09 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 3 | 3.09 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 3 | 3.09 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 3 | 3.09 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 3 | 3.09 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 3 | 3.09 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 3 | 3.09 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 3 | 3.09 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 20 | 3.09 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 20 | 3.09 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 20 | 3.09 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 8 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 8 | 3.09 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 8 | 3.09 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 10 | 3.09 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 6 | 3.09 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 10 | 3.09 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 10 | 3.09 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 15 | 3.09 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 15 | 3.09 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 15 | 3.09 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 7 | 3.09 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 7 | 3.09 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 3 | 3.09 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 12 | 3.09 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 12 | 3.09 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 12 | 3.09 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 11 | 3.09 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 11 | 3.09 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 11 | 3.09 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 16 | 3.09 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 16 | 3.09 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 15 | 3.09 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 15 | 3.09 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 15 | 3.09 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 15 | 3.09 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 15 | 3.09 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 15 | 3.09 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 9 | 3.09 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 3 | 3.09 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 3 | 3.09 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 11 | 3.09 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 11 | 3.09 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 11 | 3.09 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 11 | 3.09 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 19 | 3.09 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 6 | 3.09 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 6 | 3.09 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 17 | 3.09 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 17 | 3.09 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 13 | 3.09 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 13 | 3.09 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 19 | 3.09 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 1 | 3.09 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 1 | 3.09 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 14 | 3.09 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 14 | 3.09 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 4 | 3.09 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 2 | 3.09 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 2 | 3.09 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 2 | 3.09 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 2 | 3.09 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 10 | 3.09 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 10 | 3.09 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 10 | 3.09 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 10 | 3.09 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 6 | 3.09 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 6 | 3.09 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 6 | 3.09 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 6 | 3.09 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 6 | 3.09 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 6 | 3.09 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 18 | 3.09 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 18 | 3.09 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 5 | 3.09 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 5 | 3.09 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 18 | 3.09 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 18 | 3.09 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 5 | 3.09 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 5 | 3.09 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 5 | 3.09 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 5 | 3.09 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 5 | 3.09 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 5 | 3.09 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 2 | 3.09 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 11 | 3.09 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 13 | 3.09 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 13 | 3.09 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 13 | 3.09 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 13 | 3.09 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 17 | 3.09 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 17 | 3.09 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 18 | 3.09 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 18 | 3.09 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 10 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 10 | 3.09 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 10 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 5 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 5 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 5 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 5 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 5 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 5 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 13 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 13 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 13 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 13 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 13 | 3.09 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 13 | 3.09 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 15 | 3.09 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 15 | 3.09 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 15 | 3.09 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 3.09 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 3.09 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 3.09 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 3.09 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 13 | 3.09 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 13 | 3.09 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 13 | 3.09 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 13 | 3.09 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 13 | 3.09 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 13 | 3.09 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 14 | 3.09 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 19 | 3.09 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 19 | 3.09 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 15 | 3.09 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 9 | 3.09 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 9 | 3.09 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 9 | 3.09 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 3.09 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 3.09 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 3.09 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 5 | 3.09 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 5 | 3.09 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 5 | 3.09 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 5 | 3.09 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 5 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 5 | 3.09 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 6 | 3.09 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 6 | 3.09 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 2 | 3.09 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 16 | 3.09 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 14 | 3.09 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 14 | 3.09 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 1 | 3.09 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 1 | 3.09 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 19 | 3.09 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 19 | 3.09 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 3 | 3.09 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 1 | 3.09 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 16 | 3.09 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 3 | 3.09 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 3 | 3.09 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 3 | 3.09 |
| (1,3524) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 8 | 3.09 |
| (1,3524) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 8 | 3.09 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 11 | 3.09 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 11 | 3.09 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 2 | 3.09 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 2 | 3.09 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 8 | 3.09 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 8 | 3.09 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 9 | 3.09 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 9 | 3.09 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 11 | 3.09 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 11 | 3.09 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 11 | 3.09 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 13 | 3.09 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 2 | 3.09 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 2 | 3.09 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 7 | 3.09 |
| (1,3264) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 19 | 3.09 |
| (1,3264) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 19 | 3.09 |
| (1,3264) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 19 | 3.09 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 11 | 3.09 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 6 | 3.09 |
| (1,3206) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 11 | 3.09 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 17 | 3.09 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 1 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 4 | 3.09 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 1 | 3.09 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 17 | 3.09 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 18 | 3.09 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 9 | 3.09 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 9 | 3.09 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 10 | 3.09 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 14 | 3.09 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 10 | 3.09 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 1 | 3.09 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 1 | 3.09 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 11 | 3.09 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 14 | 3.09 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 14 | 3.09 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 5 | 3.09 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 5 | 3.09 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 16 | 3.09 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 16 | 3.09 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 8 | 3.09 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 8 | 3.09 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 17 | 3.09 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 8 | 3.09 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 16 | 3.09 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 5 | 3.09 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 5 | 3.09 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 5 | 3.09 |
| (1,2464) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 16 | 3.09 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 9 | 3.09 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 13 | 3.09 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 7 | 3.09 |
| (1,2292) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 2 | 3.09 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 6 | 3.09 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 16 | 3.09 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 20 | 3.09 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 20 | 3.09 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 20 | 3.09 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 2 | 3.09 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 8 | 3.09 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 8 | 3.09 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 11 | 3.09 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 11 | 3.09 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 11 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 18 | 3.09 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 18 | 3.09 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 18 | 3.09 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 2 | 3.09 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 8 | 3.09 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 8 | 3.09 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 11 | 3.09 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 11 | 3.09 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 11 | 3.09 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 11 | 3.09 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 11 | 3.09 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 11 | 3.09 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 11 | 3.09 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 11 | 3.09 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 11 | 3.09 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 18 | 3.09 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 18 | 3.09 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 18 | 3.09 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 17 | 3.09 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 17 | 3.09 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 17 | 3.09 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 2 | 3.09 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 2 | 3.09 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 2 | 3.09 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 16 | 3.09 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 16 | 3.09 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 16 | 3.09 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 11 | 3.09 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 11 | 3.09 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 19 | 3.09 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 2 | 3.09 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 2 | 3.09 |
| (1,1870) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 2 | 3.09 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 19 | 3.09 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 15 | 3.09 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 17 | 3.09 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 13 | 3.09 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 13 | 3.09 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 13 | 3.09 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 12 | 3.09 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 12 | 3.09 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 12 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 10 | 3.09 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 11 | 3.09 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 17 | 3.09 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 15 | 3.09 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 15 | 3.09 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 15 | 3.09 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 4 | 3.09 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 4 | 3.09 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 4 | 3.09 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 5 | 3.09 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 4 | 3.09 |
| (1,1704) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 19 | 3.09 |
| (1,1704) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 19 | 3.09 |
| (1,1704) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 19 | 3.09 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 2 | 3.09 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 13 | 3.09 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 11 | 3.09 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 11 | 3.09 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 11 | 3.09 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 14 | 3.09 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 14 | 3.09 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 14 | 3.09 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 13 | 3.09 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 15 | 3.09 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 15 | 3.09 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 15 | 3.09 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 6 | 3.09 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 19 | 3.09 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 13 | 3.09 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 13 | 3.09 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 13 | 3.09 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 13 | 3.09 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 13 | 3.09 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 13 | 3.09 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 2 | 3.09 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 2 | 3.09 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 2 | 3.09 |
| (1,1306) | 1:123:A:GLY:H | 1:124:A:ALA:H | 3 | 3.09 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 17 | 3.09 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 17 | 3.09 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 17 | 3.09 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 17 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 17 | 3.09 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 17 | 3.09 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 17 | 3.09 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 17 | 3.09 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 17 | 3.09 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 13 | 3.09 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 2 | 3.09 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 13 | 3.09 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 13 | 3.09 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 13 | 3.09 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 13 | 3.09 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 13 | 3.09 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 13 | 3.09 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 6 | 3.09 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 7 | 3.09 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 19 | 3.09 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 17 | 3.09 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 19 | 3.09 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 1 | 3.09 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 14 | 3.09 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 7 | 3.09 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 1 | 3.09 |
| (1,780) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 8 | 3.09 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 14 | 3.09 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 14 | 3.09 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 4 | 3.09 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 16 | 3.09 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 16 | 3.09 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 16 | 3.09 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 16 | 3.09 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 16 | 3.09 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 16 | 3.09 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 16 | 3.09 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 16 | 3.09 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 16 | 3.09 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 5 | 3.09 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 5 | 3.09 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 5 | 3.09 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 13 | 3.09 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 7 | 3.09 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 13 | 3.09 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 13 | 3.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 13 | 3.09 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 20 | 3.09 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 18 | 3.09 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 18 | 3.09 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 18 | 3.09 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 18 | 3.09 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 18 | 3.09 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 18 | 3.09 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 18 | 3.09 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 18 | 3.09 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 18 | 3.09 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 2 | 3.09 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 2 | 3.09 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 2 | 3.09 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 6 | 3.09 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 6 | 3.09 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 6 | 3.09 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 13 | 3.09 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 13 | 3.09 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 13 | 3.09 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 18 | 3.09 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 11 | 3.09 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 11 | 3.09 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 11 | 3.09 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 8 | 3.09 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 8 | 3.09 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 8 | 3.09 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 13 | 3.09 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 4 | 3.09 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 4 | 3.09 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 4 | 3.09 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 10 | 3.08 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 18 | 3.08 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 18 | 3.08 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 16 | 3.08 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 16 | 3.08 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 1 | 3.08 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 1 | 3.08 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 1 | 3.08 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 1 | 3.08 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 1 | 3.08 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 1 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 3.08 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 3.08 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 3.08 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 3.08 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 3.08 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 3.08 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 7 | 3.08 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 7 | 3.08 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 3 | 3.08 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 3 | 3.08 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 16 | 3.08 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 16 | 3.08 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 19 | 3.08 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 19 | 3.08 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 2 | 3.08 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 2 | 3.08 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 2 | 3.08 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 2 | 3.08 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 11 | 3.08 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 11 | 3.08 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 11 | 3.08 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 11 | 3.08 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 2 | 3.08 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 2 | 3.08 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 7 | 3.08 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 7 | 3.08 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 7 | 3.08 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 7 | 3.08 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 5 | 3.08 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 5 | 3.08 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 6 | 3.08 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 6 | 3.08 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 7 | 3.08 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 7 | 3.08 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 11 | 3.08 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 11 | 3.08 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 11 | 3.08 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 11 | 3.08 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 11 | 3.08 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 11 | 3.08 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 15 | 3.08 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 15 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 9 | 3.08 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 9 | 3.08 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 6 | 3.08 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 6 | 3.08 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 16 | 3.08 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 16 | 3.08 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 2 | 3.08 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 2 | 3.08 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 2 | 3.08 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 2 | 3.08 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 2 | 3.08 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 2 | 3.08 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 14 | 3.08 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 14 | 3.08 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 14 | 3.08 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 14 | 3.08 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 14 | 3.08 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 14 | 3.08 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 6 | 3.08 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 6 | 3.08 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 5 | 3.08 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 5 | 3.08 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 5 | 3.08 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 5 | 3.08 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 5 | 3.08 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 5 | 3.08 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 4 | 3.08 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 4 | 3.08 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 4 | 3.08 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 4 | 3.08 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 4 | 3.08 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 4 | 3.08 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 15 | 3.08 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 15 | 3.08 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 16 | 3.08 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 16 | 3.08 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 8 | 3.08 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 8 | 3.08 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 19 | 3.08 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 19 | 3.08 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 19 | 3.08 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 19 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 19 | 3.08 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 19 | 3.08 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 1 | 3.08 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 14 | 3.08 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 6 | 3.08 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 6 | 3.08 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 18 | 3.08 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 18 | 3.08 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 18 | 3.08 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 18 | 3.08 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 18 | 3.08 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 18 | 3.08 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 5 | 3.08 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 5 | 3.08 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 5 | 3.08 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 5 | 3.08 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 5 | 3.08 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 5 | 3.08 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 16 | 3.08 |
| (1,8153) | 1:96:A:ILE:HA | 1:99:A:GLY:H | 14 | 3.08 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 6 | 3.08 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 6 | 3.08 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 6 | 3.08 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 6 | 3.08 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 6 | 3.08 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 6 | 3.08 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 6 | 3.08 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 6 | 3.08 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 6 | 3.08 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 10 | 3.08 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 10 | 3.08 |
| (1,7795) | 1:59:A:HIS:HD2 | 1:60:A:LEU:H | 17 | 3.08 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 4 | 3.08 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 4 | 3.08 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 4 | 3.08 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 1 | 3.08 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 1 | 3.08 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 1 | 3.08 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 1 | 3.08 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 1 | 3.08 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 1 | 3.08 |
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD1 | 7 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7347) | 1:92:A:TYR:H | 1:92:A:TYR:HD2 | 7 | 3.08 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 5 | 3.08 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 5 | 3.08 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 2 | 3.08 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 2 | 3.08 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 2 | 3.08 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 7 | 3.08 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 7 | 3.08 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 16 | 3.08 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 16 | 3.08 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 7 | 3.08 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 12 | 3.08 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 5 | 3.08 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 6 | 3.08 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 2 | 3.08 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 16 | 3.08 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 12 | 3.08 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 12 | 3.08 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 4 | 3.08 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 6 | 3.08 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 2 | 3.08 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 2 | 3.08 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 2 | 3.08 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 4 | 3.08 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 2 | 3.08 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 2 | 3.08 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 2 | 3.08 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 1 | 3.08 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 4 | 3.08 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 4 | 3.08 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 2 | 3.08 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 2 | 3.08 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 2 | 3.08 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 2 | 3.08 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 2 | 3.08 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 2 | 3.08 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 12 | 3.08 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 12 | 3.08 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 12 | 3.08 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 6 | 3.08 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 9 | 3.08 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 3 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 3 | 3.08 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 3 | 3.08 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 18 | 3.08 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 4 | 3.08 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 2 | 3.08 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 3 | 3.08 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 11 | 3.08 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 11 | 3.08 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 15 | 3.08 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 15 | 3.08 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 13 | 3.08 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 13 | 3.08 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 13 | 3.08 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 18 | 3.08 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 16 | 3.08 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 9 | 3.08 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 2 | 3.08 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 15 | 3.08 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 6 | 3.08 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 6 | 3.08 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 6 | 3.08 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 17 | 3.08 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 3 | 3.08 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 3 | 3.08 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 3 | 3.08 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 14 | 3.08 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 14 | 3.08 |
| (1,5314) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 14 | 3.08 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 1 | 3.08 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 14 | 3.08 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 4 | 3.08 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 6 | 3.08 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 10 | 3.08 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 10 | 3.08 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 10 | 3.08 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 10 | 3.08 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 10 | 3.08 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 10 | 3.08 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 10 | 3.08 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 10 | 3.08 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 10 | 3.08 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 7 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 1 | 3.08 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 8 | 3.08 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 13 | 3.08 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 13 | 3.08 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 18 | 3.08 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 18 | 3.08 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 6 | 3.08 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 10 | 3.08 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 10 | 3.08 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 1 | 3.08 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 1 | 3.08 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 1 | 3.08 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 1 | 3.08 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 1 | 3.08 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 1 | 3.08 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 1 | 3.08 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 1 | 3.08 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 1 | 3.08 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 14 | 3.08 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 14 | 3.08 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 14 | 3.08 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 12 | 3.08 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 12 | 3.08 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 12 | 3.08 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 12 | 3.08 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 12 | 3.08 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 12 | 3.08 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 3.08 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 3.08 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 3.08 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 3.08 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 3.08 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 3.08 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 7 | 3.08 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 7 | 3.08 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 7 | 3.08 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 7 | 3.08 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 16 | 3.08 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 10 | 3.08 |
| (1,4433) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 10 | 3.08 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 10 | 3.08 |
| (1,4433) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 10 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 19 | 3.08 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 19 | 3.08 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 19 | 3.08 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 19 | 3.08 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 8 | 3.08 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 15 | 3.08 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 2 | 3.08 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 2 | 3.08 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 6 | 3.08 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 18 | 3.08 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 18 | 3.08 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 18 | 3.08 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 3.08 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 3.08 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 3.08 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 12 | 3.08 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 12 | 3.08 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 20 | 3.08 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 20 | 3.08 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 2 | 3.08 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 12 | 3.08 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 12 | 3.08 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 12 | 3.08 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 15 | 3.08 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 15 | 3.08 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 15 | 3.08 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 3.08 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 15 | 3.08 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 15 | 3.08 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 15 | 3.08 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 3.08 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 3.08 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 3.08 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 3.08 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 3.08 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 3.08 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 2 | 3.08 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 5 | 3.08 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 11 | 3.08 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 11 | 3.08 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 11 | 3.08 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 11 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 11 | 3.08 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 11 | 3.08 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 15 | 3.08 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 15 | 3.08 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 18 | 3.08 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 18 | 3.08 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 13 | 3.08 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 13 | 3.08 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 13 | 3.08 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 4 | 3.08 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 9 | 3.08 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 9 | 3.08 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 16 | 3.08 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 16 | 3.08 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 12 | 3.08 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 14 | 3.08 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 14 | 3.08 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 14 | 3.08 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 14 | 3.08 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 6 | 3.08 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 6 | 3.08 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 18 | 3.08 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 11 | 3.08 |
| (1,3734) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 14 | 3.08 |
| (1,3734) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 14 | 3.08 |
| (1,3734) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 14 | 3.08 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 5 | 3.08 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 5 | 3.08 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 5 | 3.08 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 5 | 3.08 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 5 | 3.08 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 5 | 3.08 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 15 | 3.08 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 15 | 3.08 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 13 | 3.08 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 16 | 3.08 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 16 | 3.08 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 7 | 3.08 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 2 | 3.08 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 5 | 3.08 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 6 | 3.08 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 2 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 2 | 3.08 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 8 | 3.08 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 8 | 3.08 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 8 | 3.08 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 4 | 3.08 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 4 | 3.08 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 4 | 3.08 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 16 | 3.08 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 5 | 3.08 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 18 | 3.08 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 7 | 3.08 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 7 | 3.08 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 19 | 3.08 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 20 | 3.08 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 7 | 3.08 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 7 | 3.08 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 16 | 3.08 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 16 | 3.08 |
| (1,2980) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 3 | 3.08 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 7 | 3.08 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 12 | 3.08 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 5 | 3.08 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 15 | 3.08 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 13 | 3.08 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 13 | 3.08 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 13 | 3.08 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 6 | 3.08 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 2 | 3.08 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 7 | 3.08 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 7 | 3.08 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 12 | 3.08 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 12 | 3.08 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 16 | 3.08 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 12 | 3.08 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 12 | 3.08 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 15 | 3.08 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 16 | 3.08 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 4 | 3.08 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 6 | 3.08 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 2 | 3.08 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 2 | 3.08 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 2 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 15 | 3.08 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 14 | 3.08 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 3 | 3.08 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 4 | 3.08 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 17 | 3.08 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 2 | 3.08 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 2 | 3.08 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 2 | 3.08 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 1 | 3.08 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 1 | 3.08 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 8 | 3.08 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 2 | 3.08 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 2 | 3.08 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 2 | 3.08 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 2 | 3.08 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 2 | 3.08 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 2 | 3.08 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 9 | 3.08 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 9 | 3.08 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 9 | 3.08 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 16 | 3.08 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 12 | 3.08 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 12 | 3.08 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 12 | 3.08 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 6 | 3.08 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 9 | 3.08 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 3 | 3.08 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 3 | 3.08 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 3 | 3.08 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 9 | 3.08 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 17 | 3.08 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 18 | 3.08 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 12 | 3.08 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 10 | 3.08 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 4 | 3.08 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 6 | 3.08 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 2 | 3.08 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 3 | 3.08 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 5 | 3.08 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 5 | 3.08 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 11 | 3.08 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 11 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 15 | 3.08 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 15 | 3.08 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 13 | 3.08 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 13 | 3.08 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 13 | 3.08 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 18 | 3.08 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 11 | 3.08 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 11 | 3.08 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 11 | 3.08 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 16 | 3.08 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 18 | 3.08 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 18 | 3.08 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 2 | 3.08 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 15 | 3.08 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 6 | 3.08 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 6 | 3.08 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 6 | 3.08 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 15 | 3.08 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 17 | 3.08 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 5 | 3.08 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 2 | 3.08 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 17 | 3.08 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 17 | 3.08 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 17 | 3.08 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 2 | 3.08 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 12 | 3.08 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 4 | 3.08 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 19 | 3.08 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 11 | 3.08 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 11 | 3.08 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 11 | 3.08 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 8 | 3.08 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 8 | 3.08 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 8 | 3.08 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 7 | 3.08 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 7 | 3.08 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 7 | 3.08 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 10 | 3.08 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 10 | 3.08 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 10 | 3.08 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 6 | 3.08 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 1 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 1 | 3.08 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 1 | 3.08 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 3 | 3.08 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 8 | 3.08 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 8 | 3.08 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 3 | 3.08 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 3 | 3.08 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 3 | 3.08 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 11 | 3.07 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 13 | 3.07 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 16 | 3.07 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 12 | 3.07 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 9 | 3.07 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 9 | 3.07 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 15 | 3.07 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 15 | 3.07 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 12 | 3.07 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 12 | 3.07 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 12 | 3.07 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 12 | 3.07 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 12 | 3.07 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 12 | 3.07 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 8 | 3.07 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 8 | 3.07 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 16 | 3.07 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 16 | 3.07 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 3 | 3.07 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 3 | 3.07 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 19 | 3.07 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 19 | 3.07 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 19 | 3.07 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 19 | 3.07 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 19 | 3.07 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 19 | 3.07 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 3 | 3.07 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 3 | 3.07 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 3 | 3.07 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 3 | 3.07 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 3 | 3.07 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 3 | 3.07 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 17 | 3.07 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 17 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 17 | 3.07 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 17 | 3.07 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 17 | 3.07 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 17 | 3.07 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 4 | 3.07 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 4 | 3.07 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 1 | 3.07 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 1 | 3.07 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 1 | 3.07 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 1 | 3.07 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 1 | 3.07 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 1 | 3.07 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 3 | 3.07 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 3 | 3.07 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 12 | 3.07 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 12 | 3.07 |
| (1,8872) | 1:63:A:LYS:HB2 | 1:71:A:SER:H | 7 | 3.07 |
| (1,8872) | 1:63:A:LYS:HB3 | 1:71:A:SER:H | 7 | 3.07 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 1 | 3.07 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 1 | 3.07 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 10 | 3.07 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 10 | 3.07 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 11 | 3.07 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 11 | 3.07 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 11 | 3.07 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 11 | 3.07 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 15 | 3.07 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 15 | 3.07 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 16 | 3.07 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 16 | 3.07 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 16 | 3.07 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 16 | 3.07 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 10 | 3.07 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 10 | 3.07 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 14 | 3.07 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 14 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 3.07 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 3.07 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 15 | 3.07 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 15 | 3.07 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 6 | 3.07 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 6 | 3.07 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 9 | 3.07 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 9 | 3.07 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 12 | 3.07 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 12 | 3.07 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 19 | 3.07 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 19 | 3.07 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 19 | 3.07 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 19 | 3.07 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 19 | 3.07 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 19 | 3.07 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 15 | 3.07 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 15 | 3.07 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 15 | 3.07 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 15 | 3.07 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 15 | 3.07 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 15 | 3.07 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 15 | 3.07 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 15 | 3.07 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 15 | 3.07 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 3 | 3.07 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 3 | 3.07 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 3 | 3.07 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 1 | 3.07 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 9 | 3.07 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 6 | 3.07 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 6 | 3.07 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 5 | 3.07 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 16 | 3.07 |
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 16 | 3.07 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 10 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 12 | 3.07 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 12 | 3.07 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 8 | 3.07 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 8 | 3.07 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 8 | 3.07 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 8 | 3.07 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 8 | 3.07 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 9 | 3.07 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 13 | 3.07 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 19 | 3.07 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 19 | 3.07 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 1 | 3.07 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 1 | 3.07 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 10 | 3.07 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 20 | 3.07 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 19 | 3.07 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 19 | 3.07 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 19 | 3.07 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 4 | 3.07 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 4 | 3.07 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 4 | 3.07 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 4 | 3.07 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 9 | 3.07 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 8 | 3.07 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 4 | 3.07 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 17 | 3.07 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 10 | 3.07 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 10 | 3.07 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 10 | 3.07 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 17 | 3.07 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 17 | 3.07 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 17 | 3.07 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 6 | 3.07 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 6 | 3.07 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 6 | 3.07 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 13 | 3.07 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 13 | 3.07 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 18 | 3.07 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 18 | 3.07 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 7 | 3.07 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 7 | 3.07 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 9 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 14 | 3.07 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 19 | 3.07 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 1 | 3.07 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 11 | 3.07 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 6 | 3.07 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 6 | 3.07 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 6 | 3.07 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 3 | 3.07 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 3 | 3.07 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 2 | 3.07 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 19 | 3.07 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 11 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 13 | 3.07 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 13 | 3.07 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 6 | 3.07 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 6 | 3.07 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 6 | 3.07 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 6 | 3.07 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 6 | 3.07 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 6 | 3.07 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 6 | 3.07 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 6 | 3.07 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 6 | 3.07 |
| (1,5878) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 9 | 3.07 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 10 | 3.07 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 14 | 3.07 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 3 | 3.07 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 6 | 3.07 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 9 | 3.07 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 9 | 3.07 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 9 | 3.07 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 7 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 17 | 3.07 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 9 | 3.07 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 10 | 3.07 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 10 | 3.07 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 10 | 3.07 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 5 | 3.07 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 5 | 3.07 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 5 | 3.07 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 8 | 3.07 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 8 | 3.07 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 8 | 3.07 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 20 | 3.07 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 20 | 3.07 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 20 | 3.07 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 9 | 3.07 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 19 | 3.07 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 19 | 3.07 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 19 | 3.07 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 9 | 3.07 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 10 | 3.07 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 10 | 3.07 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 18 | 3.07 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 18 | 3.07 |
| (1,5381) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 11 | 3.07 |
| (1,5381) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 11 | 3.07 |
| (1,5381) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 11 | 3.07 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 9 | 3.07 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 16 | 3.07 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 9 | 3.07 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 9 | 3.07 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 9 | 3.07 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 4 | 3.07 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 18 | 3.07 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 4 | 3.07 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 14 | 3.07 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 16 | 3.07 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 1 | 3.07 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 1 | 3.07 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 5 | 3.07 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 5 | 3.07 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 5 | 3.07 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 5 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 5 | 3.07 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 5 | 3.07 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 9 | 3.07 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 9 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 6 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 6 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 6 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 6 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 6 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 6 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 6 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 6 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 6 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 8 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 8 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 8 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 8 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 8 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 8 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 8 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 8 | 3.07 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 8 | 3.07 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 6 | 3.07 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 6 | 3.07 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 16 | 3.07 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 4 | 3.07 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 4 | 3.07 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 1 | 3.07 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 1 | 3.07 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 14 | 3.07 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 14 | 3.07 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 19 | 3.07 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 18 | 3.07 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 18 | 3.07 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 3.07 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 3.07 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 12 | 3.07 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 12 | 3.07 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 12 | 3.07 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 12 | 3.07 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 12 | 3.07 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 12 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 10 | 3.07 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 10 | 3.07 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 11 | 3.07 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 8 | 3.07 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 8 | 3.07 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 17 | 3.07 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 5 | 3.07 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 3.07 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 3.07 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 1 | 3.07 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 1 | 3.07 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 1 | 3.07 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 19 | 3.07 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 19 | 3.07 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 19 | 3.07 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 19 | 3.07 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 19 | 3.07 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 19 | 3.07 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 16 | 3.07 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 16 | 3.07 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 16 | 3.07 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 3 | 3.07 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 3 | 3.07 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 3 | 3.07 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 3 | 3.07 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 3 | 3.07 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 3 | 3.07 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 3 | 3.07 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 3 | 3.07 |
| (1,4006) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 12 | 3.07 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 9 | 3.07 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 9 | 3.07 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 10 | 3.07 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 10 | 3.07 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 17 | 3.07 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 17 | 3.07 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 17 | 3.07 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 11 | 3.07 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 11 | 3.07 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 16 | 3.07 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 16 | 3.07 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 3 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 3 | 3.07 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 13 | 3.07 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 13 | 3.07 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 18 | 3.07 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 18 | 3.07 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 18 | 3.07 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 18 | 3.07 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 3 | 3.07 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 3 | 3.07 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 3 | 3.07 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 3 | 3.07 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 3 | 3.07 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 3 | 3.07 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 15 | 3.07 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 15 | 3.07 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 16 | 3.07 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 16 | 3.07 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 16 | 3.07 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 16 | 3.07 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 11 | 3.07 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 17 | 3.07 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 15 | 3.07 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 15 | 3.07 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 15 | 3.07 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 16 | 3.07 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 16 | 3.07 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 6 | 3.07 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 6 | 3.07 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 9 | 3.07 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 9 | 3.07 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 19 | 3.07 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 14 | 3.07 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 14 | 3.07 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 8 | 3.07 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 8 | 3.07 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 8 | 3.07 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 2 | 3.07 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 17 | 3.07 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 17 | 3.07 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 9 | 3.07 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 9 | 3.07 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 9 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 5 | 3.07 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 8 | 3.07 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 8 | 3.07 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 2 | 3.07 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 8 | 3.07 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 15 | 3.07 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 9 | 3.07 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 15 | 3.07 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 13 | 3.07 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 1 | 3.07 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 4 | 3.07 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 19 | 3.07 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 19 | 3.07 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 1 | 3.07 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 1 | 3.07 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 10 | 3.07 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 11 | 3.07 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 8 | 3.07 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 8 | 3.07 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 8 | 3.07 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 20 | 3.07 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 19 | 3.07 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 19 | 3.07 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 19 | 3.07 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 4 | 3.07 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 4 | 3.07 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 9 | 3.07 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 1 | 3.07 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 8 | 3.07 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 9 | 3.07 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 17 | 3.07 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 12 | 3.07 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 20 | 3.07 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 20 | 3.07 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 20 | 3.07 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 10 | 3.07 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 10 | 3.07 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 10 | 3.07 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 12 | 3.07 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 17 | 3.07 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 17 | 3.07 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 17 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 12 | 3.07 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 8 | 3.07 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 7 | 3.07 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 19 | 3.07 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 10 | 3.07 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 16 | 3.07 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 6 | 3.07 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 6 | 3.07 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 6 | 3.07 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 10 | 3.07 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 10 | 3.07 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 10 | 3.07 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 7 | 3.07 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 7 | 3.07 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 9 | 3.07 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 14 | 3.07 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 19 | 3.07 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 1 | 3.07 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 11 | 3.07 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 4 | 3.07 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 14 | 3.07 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 19 | 3.07 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 3.07 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 13 | 3.07 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 6 | 3.07 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 6 | 3.07 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 6 | 3.07 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 18 | 3.07 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 18 | 3.07 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 8 | 3.07 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 3 | 3.07 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 3 | 3.07 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 3 | 3.07 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 3 | 3.07 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 3 | 3.07 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 2 | 3.07 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 19 | 3.07 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 11 | 3.07 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 1 | 3.07 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 1 | 3.07 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 1 | 3.07 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 6 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 6 | 3.07 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 6 | 3.07 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 6 | 3.07 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 6 | 3.07 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 6 | 3.07 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 6 | 3.07 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 6 | 3.07 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 6 | 3.07 |
| (1,1292) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 9 | 3.07 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 17 | 3.07 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 10 | 3.07 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 14 | 3.07 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 19 | 3.07 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 1 | 3.07 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 3 | 3.07 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 6 | 3.07 |
| (1,1062) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 4 | 3.07 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 9 | 3.07 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 9 | 3.07 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 9 | 3.07 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 7 | 3.07 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 17 | 3.07 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 8 | 3.07 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 5 | 3.07 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 14 | 3.07 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 9 | 3.07 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 8 | 3.07 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 8 | 3.07 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 8 | 3.07 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 10 | 3.07 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 10 | 3.07 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 10 | 3.07 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 5 | 3.07 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 5 | 3.07 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 5 | 3.07 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 8 | 3.07 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 8 | 3.07 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 8 | 3.07 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 20 | 3.07 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 20 | 3.07 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 20 | 3.07 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 9 | 3.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 6 | 3.07 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 19 | 3.07 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 19 | 3.07 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 19 | 3.07 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 11 | 3.07 |
| (1,520) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 11 | 3.07 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 11 | 3.07 |
| (1,520) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 11 | 3.07 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 11 | 3.07 |
| (1,520) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 11 | 3.07 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 13 | 3.07 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 13 | 3.07 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 13 | 3.07 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 13 | 3.07 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 13 | 3.07 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 13 | 3.07 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 13 | 3.07 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 13 | 3.07 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 13 | 3.07 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 13 | 3.07 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 13 | 3.07 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 13 | 3.07 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 13 | 3.07 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 13 | 3.07 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 13 | 3.07 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 16 | 3.07 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 16 | 3.07 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 16 | 3.07 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 6 | 3.07 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 6 | 3.07 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 6 | 3.07 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 8 | 3.07 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 8 | 3.07 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 8 | 3.07 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 6 | 3.07 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 8 | 3.07 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 13 | 3.07 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 12 | 3.07 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 12 | 3.07 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 12 | 3.07 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 5 | 3.07 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 9 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 9 | 3.06 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 9 | 3.06 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 9 | 3.06 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 9 | 3.06 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 9 | 3.06 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 9 | 3.06 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 8 | 3.06 |
| (1,9548) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 8 | 3.06 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 8 | 3.06 |
| (1,9548) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 8 | 3.06 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 8 | 3.06 |
| (1,9548) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 8 | 3.06 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 9 | 3.06 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 9 | 3.06 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 10 | 3.06 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 10 | 3.06 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 10 | 3.06 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 10 | 3.06 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 10 | 3.06 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 10 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 8 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 8 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 8 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 8 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 8 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 8 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 11 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 11 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 11 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 11 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 11 | 3.06 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 11 | 3.06 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 6 | 3.06 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 6 | 3.06 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 17 | 3.06 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 17 | 3.06 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 14 | 3.06 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 14 | 3.06 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 14 | 3.06 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 14 | 3.06 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 14 | 3.06 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 14 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 14 | 3.06 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 14 | 3.06 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 13 | 3.06 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 13 | 3.06 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 15 | 3.06 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 15 | 3.06 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 10 | 3.06 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 10 | 3.06 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 14 | 3.06 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 14 | 3.06 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 17 | 3.06 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 17 | 3.06 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 17 | 3.06 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 17 | 3.06 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 3 | 3.06 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 3 | 3.06 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 3 | 3.06 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 3 | 3.06 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 3 | 3.06 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 3 | 3.06 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 3 | 3.06 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 3 | 3.06 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 3 | 3.06 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 3 | 3.06 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 3 | 3.06 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 3 | 3.06 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 12 | 3.06 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 12 | 3.06 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 14 | 3.06 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 14 | 3.06 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 3 | 3.06 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 3 | 3.06 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 3 | 3.06 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 3 | 3.06 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 17 | 3.06 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 17 | 3.06 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 11 | 3.06 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 11 | 3.06 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 10 | 3.06 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 10 | 3.06 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 4 | 3.06 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 4 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 1 | 3.06 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 1 | 3.06 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 20 | 3.06 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 20 | 3.06 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 3 | 3.06 |
| (1,8432) | 1:144:A:GLY:H | 1:161:A:ARG:H | 6 | 3.06 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD21 | 7 | 3.06 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD22 | 7 | 3.06 |
| (1,8368) | 1:137:A:ALA:HB1 | 1:141:A:LEU:HD23 | 7 | 3.06 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD21 | 7 | 3.06 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD22 | 7 | 3.06 |
| (1,8368) | 1:137:A:ALA:HB2 | 1:141:A:LEU:HD23 | 7 | 3.06 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD21 | 7 | 3.06 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD22 | 7 | 3.06 |
| (1,8368) | 1:137:A:ALA:HB3 | 1:141:A:LEU:HD23 | 7 | 3.06 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 4 | 3.06 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 8 | 3.06 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 19 | 3.06 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 19 | 3.06 |
| (1,8159) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 19 | 3.06 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 19 | 3.06 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 19 | 3.06 |
| (1,8159) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 19 | 3.06 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 19 | 3.06 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 19 | 3.06 |
| (1,8159) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 19 | 3.06 |
| (1,8055) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HA | 2 | 3.06 |
| (1,8055) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HA | 2 | 3.06 |
| (1,8055) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HA | 2 | 3.06 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 11 | 3.06 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 9 | 3.06 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 14 | 3.06 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 14 | 3.06 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 14 | 3.06 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 14 | 3.06 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 1 | 3.06 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 1 | 3.06 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 6 | 3.06 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 6 | 3.06 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 18 | 3.06 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 4 | 3.06 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 15 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 12 | 3.06 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 14 | 3.06 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 7 | 3.06 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 7 | 3.06 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 13 | 3.06 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 13 | 3.06 |
| (1,7140) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 13 | 3.06 |
| (1,7140) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 13 | 3.06 |
| (1,7140) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 13 | 3.06 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 5 | 3.06 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 5 | 3.06 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 7 | 3.06 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 11 | 3.06 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 11 | 3.06 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 11 | 3.06 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 15 | 3.06 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 6 | 3.06 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 20 | 3.06 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 15 | 3.06 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 18 | 3.06 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 18 | 3.06 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 18 | 3.06 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 5 | 3.06 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 5 | 3.06 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 5 | 3.06 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 5 | 3.06 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 5 | 3.06 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 5 | 3.06 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 19 | 3.06 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 20 | 3.06 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 15 | 3.06 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 5 | 3.06 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 5 | 3.06 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 12 | 3.06 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 12 | 3.06 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 12 | 3.06 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 12 | 3.06 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 15 | 3.06 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 15 | 3.06 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 15 | 3.06 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 2 | 3.06 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 2 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 2 | 3.06 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 7 | 3.06 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 7 | 3.06 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 19 | 3.06 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 16 | 3.06 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 1 | 3.06 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 11 | 3.06 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 11 | 3.06 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 10 | 3.06 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 10 | 3.06 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 10 | 3.06 |
| (1,5718) | 1:107:A:ALA:HA | 1:111:A:SER:H | 6 | 3.06 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 17 | 3.06 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 17 | 3.06 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 17 | 3.06 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 14 | 3.06 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 14 | 3.06 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 14 | 3.06 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 19 | 3.06 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 19 | 3.06 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 19 | 3.06 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 10 | 3.06 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 10 | 3.06 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 10 | 3.06 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 15 | 3.06 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 15 | 3.06 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 15 | 3.06 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 15 | 3.06 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 15 | 3.06 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 16 | 3.06 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 13 | 3.06 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 10 | 3.06 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 10 | 3.06 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 10 | 3.06 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 9 | 3.06 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 9 | 3.06 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 9 | 3.06 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 20 | 3.06 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 20 | 3.06 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 20 | 3.06 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 9 | 3.06 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 15 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 15 | 3.06 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 15 | 3.06 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 18 | 3.06 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 1 | 3.06 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 1 | 3.06 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 2 | 3.06 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 2 | 3.06 |
| (1,4880) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 2 | 3.06 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 2 | 3.06 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 2 | 3.06 |
| (1,4880) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 2 | 3.06 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 2 | 3.06 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 2 | 3.06 |
| (1,4880) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 2 | 3.06 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 17 | 3.06 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 17 | 3.06 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 17 | 3.06 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 17 | 3.06 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 17 | 3.06 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 17 | 3.06 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 17 | 3.06 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 17 | 3.06 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 17 | 3.06 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 7 | 3.06 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 7 | 3.06 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 7 | 3.06 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 4 | 3.06 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 1 | 3.06 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 15 | 3.06 |
| (1,4653) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 20 | 3.06 |
| (1,4653) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 20 | 3.06 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 6 | 3.06 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 6 | 3.06 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 6 | 3.06 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 9 | 3.06 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 9 | 3.06 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 9 | 3.06 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 9 | 3.06 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 9 | 3.06 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 9 | 3.06 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 2 | 3.06 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 2 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 11 | 3.06 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 11 | 3.06 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 11 | 3.06 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 8 | 3.06 |
| (1,4540) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 8 | 3.06 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 8 | 3.06 |
| (1,4540) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 8 | 3.06 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 8 | 3.06 |
| (1,4540) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 8 | 3.06 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 3.06 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 3.06 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 3.06 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 11 | 3.06 |
| (1,4321) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 2 | 3.06 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 6 | 3.06 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 6 | 3.06 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 15 | 3.06 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 19 | 3.06 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 19 | 3.06 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 19 | 3.06 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 19 | 3.06 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 18 | 3.06 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 18 | 3.06 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 18 | 3.06 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 18 | 3.06 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 9 | 3.06 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 9 | 3.06 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 8 | 3.06 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 2 | 3.06 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 2 | 3.06 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 2 | 3.06 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 2 | 3.06 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 2 | 3.06 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 10 | 3.06 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 10 | 3.06 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 10 | 3.06 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 10 | 3.06 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 10 | 3.06 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 10 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 8 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 8 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 8 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 8 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 8 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 8 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 11 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 11 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 11 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 11 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 11 | 3.06 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 11 | 3.06 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 1 | 3.06 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 1 | 3.06 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 16 | 3.06 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 16 | 3.06 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 16 | 3.06 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 16 | 3.06 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 16 | 3.06 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 16 | 3.06 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 18 | 3.06 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 18 | 3.06 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 18 | 3.06 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 8 | 3.06 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 17 | 3.06 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 17 | 3.06 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 17 | 3.06 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 18 | 3.06 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 18 | 3.06 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 18 | 3.06 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 12 | 3.06 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 12 | 3.06 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 13 | 3.06 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 3 | 3.06 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 3 | 3.06 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 14 | 3.06 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 14 | 3.06 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 19 | 3.06 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 19 | 3.06 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 19 | 3.06 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 19 | 3.06 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 19 | 3.06 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 19 | 3.06 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 14 | 3.06 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 14 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 13 | 3.06 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 13 | 3.06 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 16 | 3.06 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 16 | 3.06 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 15 | 3.06 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 15 | 3.06 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 14 | 3.06 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 14 | 3.06 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 3.06 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 3.06 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 3.06 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 3 | 3.06 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 3 | 3.06 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 3 | 3.06 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 3 | 3.06 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 3 | 3.06 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 3 | 3.06 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 3 | 3.06 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 3 | 3.06 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 3 | 3.06 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 3 | 3.06 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 3 | 3.06 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 3 | 3.06 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 5 | 3.06 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 5 | 3.06 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 5 | 3.06 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 5 | 3.06 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 5 | 3.06 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 5 | 3.06 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 12 | 3.06 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 12 | 3.06 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 12 | 3.06 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 12 | 3.06 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 12 | 3.06 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 12 | 3.06 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 12 | 3.06 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 12 | 3.06 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 11 | 3.06 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 11 | 3.06 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 1 | 3.06 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 1 | 3.06 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 10 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 10 | 3.06 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 11 | 3.06 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 11 | 3.06 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 4 | 3.06 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 4 | 3.06 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 19 | 3.06 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 4 | 3.06 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 4 | 3.06 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 3.06 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 3.06 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 1 | 3.06 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 1 | 3.06 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 6 | 3.06 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 6 | 3.06 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 6 | 3.06 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 3 | 3.06 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 18 | 3.06 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 18 | 3.06 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 20 | 3.06 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 20 | 3.06 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 7 | 3.06 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 7 | 3.06 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 9 | 3.06 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 13 | 3.06 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 13 | 3.06 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 2 | 3.06 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 2 | 3.06 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 2 | 3.06 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 15 | 3.06 |
| (1,3238) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 13 | 3.06 |
| (1,3238) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 13 | 3.06 |
| (1,3238) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 13 | 3.06 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 16 | 3.06 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 2 | 3.06 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 9 | 3.06 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 5 | 3.06 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 5 | 3.06 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 18 | 3.06 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 18 | 3.06 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 9 | 3.06 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 7 | 3.06 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 11 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 11 | 3.06 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 11 | 3.06 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 12 | 3.06 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 12 | 3.06 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 12 | 3.06 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 3 | 3.06 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 3 | 3.06 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 3 | 3.06 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 15 | 3.06 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 6 | 3.06 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 20 | 3.06 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 15 | 3.06 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 18 | 3.06 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 18 | 3.06 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 18 | 3.06 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 14 | 3.06 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 9 | 3.06 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 9 | 3.06 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 9 | 3.06 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 3 | 3.06 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 3 | 3.06 |
| (1,2590) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 3 | 3.06 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 5 | 3.06 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 5 | 3.06 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 5 | 3.06 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 5 | 3.06 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 5 | 3.06 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 5 | 3.06 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 4 | 3.06 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 4 | 3.06 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 4 | 3.06 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 4 | 3.06 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 4 | 3.06 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 4 | 3.06 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 19 | 3.06 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 19 | 3.06 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 19 | 3.06 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 6 | 3.06 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 19 | 3.06 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 20 | 3.06 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 4 | 3.06 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 15 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 19 | 3.06 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 1 | 3.06 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 4 | 3.06 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 8 | 3.06 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 8 | 3.06 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 8 | 3.06 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 12 | 3.06 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 12 | 3.06 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 12 | 3.06 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 12 | 3.06 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 15 | 3.06 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 15 | 3.06 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 15 | 3.06 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 2 | 3.06 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 2 | 3.06 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 2 | 3.06 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 7 | 3.06 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 7 | 3.06 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 18 | 3.06 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 18 | 3.06 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 1 | 3.06 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 6 | 3.06 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 19 | 3.06 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 16 | 3.06 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 1 | 3.06 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 11 | 3.06 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 8 | 3.06 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 7 | 3.06 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 6 | 3.06 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 18 | 3.06 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 18 | 3.06 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 18 | 3.06 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 6 | 3.06 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 11 | 3.06 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 6 | 3.06 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 6 | 3.06 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 6 | 3.06 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 6 | 3.06 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 6 | 3.06 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 6 | 3.06 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 10 | 3.06 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 10 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 10 | 3.06 |
| (1,1002) | 1:107:A:ALA:HA | 1:111:A:SER:H | 6 | 3.06 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 10 | 3.06 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 10 | 3.06 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 10 | 3.06 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 17 | 3.06 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 17 | 3.06 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 17 | 3.06 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 16 | 3.06 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 16 | 3.06 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 16 | 3.06 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 16 | 3.06 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 16 | 3.06 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 16 | 3.06 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 15 | 3.06 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 15 | 3.06 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 10 | 3.06 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 10 | 3.06 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 14 | 3.06 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 14 | 3.06 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 14 | 3.06 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 11 | 3.06 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 19 | 3.06 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 19 | 3.06 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 19 | 3.06 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 15 | 3.06 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 10 | 3.06 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 3 | 3.06 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 3 | 3.06 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 3 | 3.06 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 19 | 3.06 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 19 | 3.06 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 13 | 3.06 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 13 | 3.06 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 13 | 3.06 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 13 | 3.06 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 13 | 3.06 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 13 | 3.06 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 11 | 3.06 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 11 | 3.06 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 11 | 3.06 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 17 | 3.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 10 | 3.06 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 10 | 3.05 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 8 | 3.05 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 13 | 3.05 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 13 | 3.05 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 2 | 3.05 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 14 | 3.05 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 6 | 3.05 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 10 | 3.05 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 10 | 3.05 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 15 | 3.05 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 15 | 3.05 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 14 | 3.05 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 14 | 3.05 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 19 | 3.05 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 19 | 3.05 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 7 | 3.05 |
| (1,9409) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 7 | 3.05 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 6 | 3.05 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 6 | 3.05 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 6 | 3.05 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 6 | 3.05 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 12 | 3.05 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 12 | 3.05 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 12 | 3.05 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 12 | 3.05 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 17 | 3.05 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 17 | 3.05 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 10 | 3.05 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 10 | 3.05 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 10 | 3.05 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 10 | 3.05 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 13 | 3.05 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 13 | 3.05 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 13 | 3.05 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 13 | 3.05 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 13 | 3.05 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 13 | 3.05 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 9 | 3.05 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 9 | 3.05 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 6 | 3.05 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 6 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 6 | 3.05 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 6 | 3.05 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 6 | 3.05 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 6 | 3.05 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 16 | 3.05 |
| (1,8952) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 16 | 3.05 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 17 | 3.05 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 17 | 3.05 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 17 | 3.05 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 17 | 3.05 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 12 | 3.05 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 12 | 3.05 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 1 | 3.05 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 1 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 3 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 3 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 3 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 3 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 3 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 3 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 4 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 4 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 4 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 4 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 4 | 3.05 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 4 | 3.05 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 5 | 3.05 |
| (1,8316) | 1:130:A:MET:HB2 | 1:135:A:GLU:H | 14 | 3.05 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 9 | 3.05 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 19 | 3.05 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 19 | 3.05 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 10 | 3.05 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 10 | 3.05 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 5 | 3.05 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 20 | 3.05 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 20 | 3.05 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 9 | 3.05 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 7 | 3.05 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 7 | 3.05 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 7 | 3.05 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 7 | 3.05 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 7 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 11 | 3.05 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 11 | 3.05 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 1 | 3.05 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 1 | 3.05 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 7 | 3.05 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 7 | 3.05 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 4 | 3.05 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 13 | 3.05 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 5 | 3.05 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 3 | 3.05 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 3 | 3.05 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 3 | 3.05 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 6 | 3.05 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 6 | 3.05 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 6 | 3.05 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 3 | 3.05 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 3 | 3.05 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 3 | 3.05 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 8 | 3.05 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 8 | 3.05 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 8 | 3.05 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 14 | 3.05 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 14 | 3.05 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 14 | 3.05 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 20 | 3.05 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 16 | 3.05 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 3.05 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 3.05 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 12 | 3.05 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 12 | 3.05 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 10 | 3.05 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 17 | 3.05 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 17 | 3.05 |
| (1,6649) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 11 | 3.05 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 8 | 3.05 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 15 | 3.05 |
| (1,6629) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 1 | 3.05 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 1 | 3.05 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 1 | 3.05 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 1 | 3.05 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 2 | 3.05 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 11 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 11 | 3.05 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 11 | 3.05 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 11 | 3.05 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 11 | 3.05 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 11 | 3.05 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 18 | 3.05 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 18 | 3.05 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 16 | 3.05 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 16 | 3.05 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 16 | 3.05 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 16 | 3.05 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 16 | 3.05 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 16 | 3.05 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 16 | 3.05 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 16 | 3.05 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 16 | 3.05 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 16 | 3.05 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 11 | 3.05 |
| (1,6129) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 11 | 3.05 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 11 | 3.05 |
| (1,6129) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 11 | 3.05 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 11 | 3.05 |
| (1,6129) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 11 | 3.05 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 8 | 3.05 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 9 | 3.05 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 3 | 3.05 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 1 | 3.05 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 17 | 3.05 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 6 | 3.05 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 6 | 3.05 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 6 | 3.05 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 3 | 3.05 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 3 | 3.05 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 3 | 3.05 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 18 | 3.05 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 18 | 3.05 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 18 | 3.05 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 18 | 3.05 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 18 | 3.05 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 18 | 3.05 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 18 | 3.05 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 18 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 18 | 3.05 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 18 | 3.05 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 18 | 3.05 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 17 | 3.05 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 16 | 3.05 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 17 | 3.05 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 8 | 3.05 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 7 | 3.05 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 4 | 3.05 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 11 | 3.05 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 17 | 3.05 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 17 | 3.05 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 17 | 3.05 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 3 | 3.05 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 3 | 3.05 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 3 | 3.05 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 13 | 3.05 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 4 | 3.05 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 4 | 3.05 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 4 | 3.05 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 3 | 3.05 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 13 | 3.05 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 4 | 3.05 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 19 | 3.05 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 19 | 3.05 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 19 | 3.05 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 19 | 3.05 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 19 | 3.05 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 19 | 3.05 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 19 | 3.05 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 19 | 3.05 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 19 | 3.05 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 16 | 3.05 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 16 | 3.05 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 16 | 3.05 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 5 | 3.05 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 5 | 3.05 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 5 | 3.05 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 7 | 3.05 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 7 | 3.05 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 7 | 3.05 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 13 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 13 | 3.05 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 13 | 3.05 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 4 | 3.05 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 4 | 3.05 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 4 | 3.05 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 5 | 3.05 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 5 | 3.05 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 5 | 3.05 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 3 | 3.05 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 3 | 3.05 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 3 | 3.05 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 4 | 3.05 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 5 | 3.05 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 11 | 3.05 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 8 | 3.05 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 14 | 3.05 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 14 | 3.05 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 14 | 3.05 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 14 | 3.05 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 14 | 3.05 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 14 | 3.05 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 3 | 3.05 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 3 | 3.05 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 3 | 3.05 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 3 | 3.05 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 3 | 3.05 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 3 | 3.05 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 3 | 3.05 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 3 | 3.05 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 3 | 3.05 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 5 | 3.05 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 5 | 3.05 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 5 | 3.05 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 10 | 3.05 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 10 | 3.05 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 10 | 3.05 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 12 | 3.05 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 12 | 3.05 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 12 | 3.05 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 15 | 3.05 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 15 | 3.05 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 9 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 14 | 3.05 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 14 | 3.05 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 19 | 3.05 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 19 | 3.05 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 9 | 3.05 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 9 | 3.05 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 6 | 3.05 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 6 | 3.05 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 6 | 3.05 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 6 | 3.05 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 16 | 3.05 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 16 | 3.05 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 17 | 3.05 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 5 | 3.05 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 5 | 3.05 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 5 | 3.05 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 5 | 3.05 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 5 | 3.05 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 5 | 3.05 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 12 | 3.05 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 14 | 3.05 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 17 | 3.05 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 17 | 3.05 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 17 | 3.05 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 14 | 3.05 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 14 | 3.05 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 14 | 3.05 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 1 | 3.05 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 17 | 3.05 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 17 | 3.05 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 17 | 3.05 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 17 | 3.05 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 17 | 3.05 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 17 | 3.05 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 4 | 3.05 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 4 | 3.05 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 5 | 3.05 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 5 | 3.05 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 5 | 3.05 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 13 | 3.05 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 10 | 3.05 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 10 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 19 | 3.05 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 19 | 3.05 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 19 | 3.05 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 1 | 3.05 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 1 | 3.05 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 1 | 3.05 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 4 | 3.05 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 4 | 3.05 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 16 | 3.05 |
| (1,3922) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 16 | 3.05 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 8 | 3.05 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 5 | 3.05 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 11 | 3.05 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 7 | 3.05 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 7 | 3.05 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 7 | 3.05 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 7 | 3.05 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 7 | 3.05 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 7 | 3.05 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 7 | 3.05 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 6 | 3.05 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 6 | 3.05 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 6 | 3.05 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 6 | 3.05 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 6 | 3.05 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 6 | 3.05 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 14 | 3.05 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 14 | 3.05 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 15 | 3.05 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 15 | 3.05 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 1 | 3.05 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 1 | 3.05 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 4 | 3.05 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 4 | 3.05 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 7 | 3.05 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 7 | 3.05 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 7 | 3.05 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 7 | 3.05 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 7 | 3.05 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 7 | 3.05 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 2 | 3.05 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 18 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 3.05 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 13 | 3.05 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 13 | 3.05 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 13 | 3.05 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 7 | 3.05 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 7 | 3.05 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 7 | 3.05 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 16 | 3.05 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 16 | 3.05 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 7 | 3.05 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 7 | 3.05 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 7 | 3.05 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 15 | 3.05 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 15 | 3.05 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 15 | 3.05 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 11 | 3.05 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 11 | 3.05 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 1 | 3.05 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 1 | 3.05 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 7 | 3.05 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 7 | 3.05 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 18 | 3.05 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 4 | 3.05 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 13 | 3.05 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 12 | 3.05 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 12 | 3.05 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 12 | 3.05 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 3 | 3.05 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 3 | 3.05 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 3 | 3.05 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 6 | 3.05 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 6 | 3.05 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 6 | 3.05 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 7 | 3.05 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 7 | 3.05 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 7 | 3.05 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 3 | 3.05 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 3 | 3.05 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 3 | 3.05 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 8 | 3.05 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 8 | 3.05 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 8 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 14 | 3.05 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 14 | 3.05 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 14 | 3.05 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 20 | 3.05 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 16 | 3.05 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 19 | 3.05 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 2 | 3.05 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 2 | 3.05 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 3.05 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 3.05 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 12 | 3.05 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 12 | 3.05 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 10 | 3.05 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 17 | 3.05 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 17 | 3.05 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 7 | 3.05 |
| (1,2516) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 11 | 3.05 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 8 | 3.05 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 15 | 3.05 |
| (1,2492) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 1 | 3.05 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 7 | 3.05 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 2 | 3.05 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 4 | 3.05 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 7 | 3.05 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 7 | 3.05 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 6 | 3.05 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 15 | 3.05 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 17 | 3.05 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 18 | 3.05 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 18 | 3.05 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 18 | 3.05 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 11 | 3.05 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 11 | 3.05 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 11 | 3.05 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 13 | 3.05 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 11 | 3.05 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 11 | 3.05 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 11 | 3.05 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 18 | 3.05 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 18 | 3.05 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 16 | 3.05 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 16 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 16 | 3.05 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 16 | 3.05 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 16 | 3.05 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 16 | 3.05 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 16 | 3.05 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 16 | 3.05 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 16 | 3.05 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 2 | 3.05 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 2 | 3.05 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 2 | 3.05 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 20 | 3.05 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 20 | 3.05 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 20 | 3.05 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 16 | 3.05 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 11 | 3.05 |
| (1,1720) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 11 | 3.05 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 11 | 3.05 |
| (1,1720) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 11 | 3.05 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 11 | 3.05 |
| (1,1720) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 11 | 3.05 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 16 | 3.05 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 2 | 3.05 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 2 | 3.05 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 2 | 3.05 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 8 | 3.05 |
| (1,1450) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 7 | 3.05 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 9 | 3.05 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 16 | 3.05 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 13 | 3.05 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 3 | 3.05 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 17 | 3.05 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 12 | 3.05 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 12 | 3.05 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 12 | 3.05 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 12 | 3.05 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 12 | 3.05 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 12 | 3.05 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 18 | 3.05 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 18 | 3.05 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 2 | 3.05 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 2 | 3.05 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 18 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 18 | 3.05 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 18 | 3.05 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 18 | 3.05 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 18 | 3.05 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 18 | 3.05 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 18 | 3.05 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 18 | 3.05 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 18 | 3.05 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 20 | 3.05 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 12 | 3.05 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 17 | 3.05 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 16 | 3.05 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 17 | 3.05 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 8 | 3.05 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 16 | 3.05 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 7 | 3.05 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 3.05 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 3.05 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 3.05 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 4 | 3.05 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 19 | 3.05 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 11 | 3.05 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 17 | 3.05 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 17 | 3.05 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 17 | 3.05 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 18 | 3.05 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 18 | 3.05 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 18 | 3.05 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 3 | 3.05 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 3 | 3.05 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 3 | 3.05 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 8 | 3.05 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 20 | 3.05 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 20 | 3.05 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 4 | 3.05 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 4 | 3.05 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 4 | 3.05 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 4 | 3.05 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 4 | 3.04 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 7 | 3.04 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 16 | 3.04 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 20 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 2 | 3.04 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 2 | 3.04 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG12 | 14 | 3.04 |
| (1,9595) | 1:156:A:ILE:HG21 | 1:158:A:ILE:HG13 | 14 | 3.04 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG12 | 14 | 3.04 |
| (1,9595) | 1:156:A:ILE:HG22 | 1:158:A:ILE:HG13 | 14 | 3.04 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG12 | 14 | 3.04 |
| (1,9595) | 1:156:A:ILE:HG23 | 1:158:A:ILE:HG13 | 14 | 3.04 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 19 | 3.04 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 19 | 3.04 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 3 | 3.04 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 3 | 3.04 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 8 | 3.04 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 8 | 3.04 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 10 | 3.04 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 10 | 3.04 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 17 | 3.04 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 17 | 3.04 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 10 | 3.04 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 10 | 3.04 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 10 | 3.04 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 10 | 3.04 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 10 | 3.04 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 10 | 3.04 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 6 | 3.04 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 6 | 3.04 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 6 | 3.04 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 6 | 3.04 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 6 | 3.04 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 6 | 3.04 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 20 | 3.04 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 20 | 3.04 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 4 | 3.04 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 4 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 4 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 4 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 4 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 4 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 4 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 4 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 15 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 15 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 15 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 15 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 15 | 3.04 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 15 | 3.04 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 4 | 3.04 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 4 | 3.04 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 4 | 3.04 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 4 | 3.04 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 4 | 3.04 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 4 | 3.04 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 4 | 3.04 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 4 | 3.04 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 7 | 3.04 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 7 | 3.04 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 9 | 3.04 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 9 | 3.04 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 9 | 3.04 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 9 | 3.04 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 9 | 3.04 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 9 | 3.04 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 5 | 3.04 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 5 | 3.04 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 12 | 3.04 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 12 | 3.04 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 12 | 3.04 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 12 | 3.04 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 18 | 3.04 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 18 | 3.04 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 8 | 3.04 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 8 | 3.04 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 19 | 3.04 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 19 | 3.04 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 1 | 3.04 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 1 | 3.04 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 18 | 3.04 |
| (1,8655) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 18 | 3.04 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 2 | 3.04 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 2 | 3.04 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 4 | 3.04 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 4 | 3.04 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 11 | 3.04 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 11 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 10 | 3.04 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 10 | 3.04 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD11 | 15 | 3.04 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD12 | 15 | 3.04 |
| (1,8429) | 1:144:A:GLY:H | 1:160:A:LEU:HD13 | 15 | 3.04 |
| (1,8333) | 1:131:A:GLN:H | 1:135:A:GLU:H | 17 | 3.04 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 6 | 3.04 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 6 | 3.04 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 10 | 3.04 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 10 | 3.04 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 10 | 3.04 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 10 | 3.04 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 10 | 3.04 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 10 | 3.04 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG21 | 3 | 3.04 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG22 | 3 | 3.04 |
| (1,8034) | 1:86:A:LEU:HD21 | 1:156:A:ILE:HG23 | 3 | 3.04 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG21 | 3 | 3.04 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG22 | 3 | 3.04 |
| (1,8034) | 1:86:A:LEU:HD22 | 1:156:A:ILE:HG23 | 3 | 3.04 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG21 | 3 | 3.04 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG22 | 3 | 3.04 |
| (1,8034) | 1:86:A:LEU:HD23 | 1:156:A:ILE:HG23 | 3 | 3.04 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 13 | 3.04 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 7 | 3.04 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 7 | 3.04 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 7 | 3.04 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 7 | 3.04 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 8 | 3.04 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 8 | 3.04 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 8 | 3.04 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 8 | 3.04 |
| (1,7685) | 1:38:A:SER:HB3 | 1:39:A:GLY:H | 16 | 3.04 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 14 | 3.04 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 14 | 3.04 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 14 | 3.04 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 14 | 3.04 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 14 | 3.04 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 14 | 3.04 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 14 | 3.04 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 14 | 3.04 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 14 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 5 | 3.04 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 14 | 3.04 |
| (1,7455) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 6 | 3.04 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 14 | 3.04 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 2 | 3.04 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 2 | 3.04 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 2 | 3.04 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 2 | 3.04 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 2 | 3.04 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 2 | 3.04 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 13 | 3.04 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 13 | 3.04 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 16 | 3.04 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 16 | 3.04 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 16 | 3.04 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 16 | 3.04 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 16 | 3.04 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 16 | 3.04 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 8 | 3.04 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 8 | 3.04 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 12 | 3.04 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 12 | 3.04 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 8 | 3.04 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 16 | 3.04 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 2 | 3.04 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 2 | 3.04 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 10 | 3.04 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 10 | 3.04 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 2 | 3.04 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 9 | 3.04 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 18 | 3.04 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 13 | 3.04 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 18 | 3.04 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 4 | 3.04 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 4 | 3.04 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 11 | 3.04 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 11 | 3.04 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 13 | 3.04 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 11 | 3.04 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 11 | 3.04 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 11 | 3.04 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 11 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 11 | 3.04 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 11 | 3.04 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 11 | 3.04 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 11 | 3.04 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 11 | 3.04 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 8 | 3.04 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 8 | 3.04 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 8 | 3.04 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 15 | 3.04 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 15 | 3.04 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 18 | 3.04 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 17 | 3.04 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 17 | 3.04 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 17 | 3.04 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 17 | 3.04 |
| (1,6375) | 1:156:A:ILE:H | 1:157:A:HIS:H | 13 | 3.04 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 20 | 3.04 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 20 | 3.04 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 12 | 3.04 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 12 | 3.04 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 9 | 3.04 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 9 | 3.04 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 9 | 3.04 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 10 | 3.04 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 4 | 3.04 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 4 | 3.04 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 4 | 3.04 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 2 | 3.04 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 7 | 3.04 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 7 | 3.04 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 15 | 3.04 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 9 | 3.04 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 6 | 3.04 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 6 | 3.04 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 18 | 3.04 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 3 | 3.04 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 3 | 3.04 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 3 | 3.04 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 3 | 3.04 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 6 | 3.04 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 15 | 3.04 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 14 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 11 | 3.04 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 11 | 3.04 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 5 | 3.04 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 11 | 3.04 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 15 | 3.04 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 15 | 3.04 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 15 | 3.04 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 3 | 3.04 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 11 | 3.04 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 11 | 3.04 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 11 | 3.04 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 10 | 3.04 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 5 | 3.04 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 2 | 3.04 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 18 | 3.04 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 18 | 3.04 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 18 | 3.04 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 19 | 3.04 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 19 | 3.04 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 19 | 3.04 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 18 | 3.04 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 6 | 3.04 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 9 | 3.04 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 18 | 3.04 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 6 | 3.04 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 6 | 3.04 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 6 | 3.04 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 15 | 3.04 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 15 | 3.04 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 15 | 3.04 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 18 | 3.04 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 18 | 3.04 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 18 | 3.04 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 17 | 3.04 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 17 | 3.04 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 17 | 3.04 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 13 | 3.04 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 13 | 3.04 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 13 | 3.04 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 13 | 3.04 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 13 | 3.04 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 13 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 13 | 3.04 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 13 | 3.04 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 13 | 3.04 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 20 | 3.04 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 20 | 3.04 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 19 | 3.04 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 19 | 3.04 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 19 | 3.04 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 14 | 3.04 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 14 | 3.04 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 14 | 3.04 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 14 | 3.04 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 14 | 3.04 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 14 | 3.04 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 15 | 3.04 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 9 | 3.04 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 9 | 3.04 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 9 | 3.04 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 10 | 3.04 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 3 | 3.04 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 3 | 3.04 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 8 | 3.04 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 8 | 3.04 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 8 | 3.04 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 8 | 3.04 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 8 | 3.04 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 8 | 3.04 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 12 | 3.04 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 12 | 3.04 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 12 | 3.04 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 12 | 3.04 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 12 | 3.04 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 12 | 3.04 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 8 | 3.04 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 10 | 3.04 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 10 | 3.04 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 17 | 3.04 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 17 | 3.04 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 17 | 3.04 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 17 | 3.04 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 17 | 3.04 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 11 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 11 | 3.04 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 11 | 3.04 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 11 | 3.04 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 11 | 3.04 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 11 | 3.04 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 14 | 3.04 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 14 | 3.04 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 14 | 3.04 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 1 | 3.04 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 1 | 3.04 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 1 | 3.04 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 10 | 3.04 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 10 | 3.04 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 10 | 3.04 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 10 | 3.04 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 10 | 3.04 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 10 | 3.04 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 3.04 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 13 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 4 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 4 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 4 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 4 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 4 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 4 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 15 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 15 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 15 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 15 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 15 | 3.04 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 15 | 3.04 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 10 | 3.04 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 10 | 3.04 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 10 | 3.04 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 4 | 3.04 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 4 | 3.04 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 4 | 3.04 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 4 | 3.04 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 4 | 3.04 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 4 | 3.04 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 2 | 3.04 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 2 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 9 | 3.04 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 7 | 3.04 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 7 | 3.04 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 9 | 3.04 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 9 | 3.04 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 9 | 3.04 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 9 | 3.04 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 9 | 3.04 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 9 | 3.04 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 5 | 3.04 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 5 | 3.04 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 3.04 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 3.04 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 3.04 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 2 | 3.04 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 8 | 3.04 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 7 | 3.04 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 7 | 3.04 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 7 | 3.04 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 20 | 3.04 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 20 | 3.04 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 17 | 3.04 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 17 | 3.04 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 18 | 3.04 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 18 | 3.04 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 19 | 3.04 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 17 | 3.04 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 17 | 3.04 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 8 | 3.04 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 8 | 3.04 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 19 | 3.04 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 19 | 3.04 |
| (1,3637) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 1 | 3.04 |
| (1,3637) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 1 | 3.04 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 17 | 3.04 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 17 | 3.04 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 18 | 3.04 |
| (1,3630) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 18 | 3.04 |
| (1,3570) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 15 | 3.04 |
| (1,3570) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 15 | 3.04 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 3.04 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 4 | 3.04 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 4 | 3.04 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 19 | 3.04 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 19 | 3.04 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 16 | 3.04 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 13 | 3.04 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 13 | 3.04 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 11 | 3.04 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 11 | 3.04 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 11 | 3.04 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 2 | 3.04 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 9 | 3.04 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 20 | 3.04 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 20 | 3.04 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 20 | 3.04 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 4 | 3.04 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 4 | 3.04 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 4 | 3.04 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 6 | 3.04 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 6 | 3.04 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 6 | 3.04 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 18 | 3.04 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 8 | 3.04 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 8 | 3.04 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 13 | 3.04 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 13 | 3.04 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 13 | 3.04 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 18 | 3.04 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 18 | 3.04 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 4 | 3.04 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 4 | 3.04 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 20 | 3.04 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 20 | 3.04 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 20 | 3.04 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 11 | 3.04 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 11 | 3.04 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 13 | 3.04 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 7 | 3.04 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 7 | 3.04 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 11 | 3.04 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 11 | 3.04 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 11 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 11 | 3.04 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 11 | 3.04 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 11 | 3.04 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 11 | 3.04 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 11 | 3.04 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 11 | 3.04 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 11 | 3.04 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 8 | 3.04 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 8 | 3.04 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 8 | 3.04 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 10 | 3.04 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 10 | 3.04 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 10 | 3.04 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 11 | 3.04 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 15 | 3.04 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 15 | 3.04 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 18 | 3.04 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 15 | 3.04 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 20 | 3.04 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 20 | 3.04 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 20 | 3.04 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 20 | 3.04 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 20 | 3.04 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 20 | 3.04 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 14 | 3.04 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 18 | 3.04 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 4 | 3.04 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 4 | 3.04 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 12 | 3.04 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 12 | 3.04 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 12 | 3.04 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 11 | 3.04 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 17 | 3.04 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 17 | 3.04 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 17 | 3.04 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 17 | 3.04 |
| (1,2072) | 1:156:A:ILE:H | 1:157:A:HIS:H | 13 | 3.04 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 6 | 3.04 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 6 | 3.04 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 6 | 3.04 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 12 | 3.04 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 12 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 15 | 3.04 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 15 | 3.04 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 15 | 3.04 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 8 | 3.04 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 8 | 3.04 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 8 | 3.04 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 8 | 3.04 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 8 | 3.04 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 8 | 3.04 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 8 | 3.04 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 8 | 3.04 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 8 | 3.04 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 9 | 3.04 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 9 | 3.04 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 9 | 3.04 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 12 | 3.04 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 12 | 3.04 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 12 | 3.04 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 18 | 3.04 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 18 | 3.04 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 18 | 3.04 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 18 | 3.04 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 18 | 3.04 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 18 | 3.04 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 10 | 3.04 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 1 | 3.04 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 4 | 3.04 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 4 | 3.04 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 4 | 3.04 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 2 | 3.04 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 18 | 3.04 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 18 | 3.04 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 18 | 3.04 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 7 | 3.04 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 7 | 3.04 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 15 | 3.04 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 6 | 3.04 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 6 | 3.04 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 16 | 3.04 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 18 | 3.04 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 3 | 3.04 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 3 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 3 | 3.04 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 3 | 3.04 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 20 | 3.04 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 20 | 3.04 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 20 | 3.04 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 20 | 3.04 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 20 | 3.04 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 20 | 3.04 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 13 | 3.04 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 13 | 3.04 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 6 | 3.04 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 6 | 3.04 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 6 | 3.04 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 15 | 3.04 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 1 | 3.04 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 1 | 3.04 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 1 | 3.04 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 14 | 3.04 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 11 | 3.04 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 11 | 3.04 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 5 | 3.04 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 11 | 3.04 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 15 | 3.04 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 15 | 3.04 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 15 | 3.04 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 4 | 3.04 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 4 | 3.04 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 10 | 3.04 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 14 | 3.04 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 15 | 3.04 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 6 | 3.04 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 3 | 3.04 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 6 | 3.04 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 2 | 3.04 |
| (1,567) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 17 | 3.04 |
| (1,567) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 17 | 3.04 |
| (1,567) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 17 | 3.04 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 11 | 3.04 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 11 | 3.04 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 11 | 3.04 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 5 | 3.04 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 5 | 3.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 5 | 3.04 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 11 | 3.04 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 7 | 3.04 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 9 | 3.04 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 20 | 3.04 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 14 | 3.04 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 14 | 3.04 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 14 | 3.04 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 19 | 3.04 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 19 | 3.04 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 19 | 3.04 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 4 | 3.03 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 10 | 3.03 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 4 | 3.03 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 4 | 3.03 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 3 | 3.03 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 3 | 3.03 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 7 | 3.03 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 7 | 3.03 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 5 | 3.03 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 5 | 3.03 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 15 | 3.03 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 15 | 3.03 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 3 | 3.03 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 3 | 3.03 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 12 | 3.03 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 12 | 3.03 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 12 | 3.03 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 12 | 3.03 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 12 | 3.03 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 12 | 3.03 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 5 | 3.03 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 5 | 3.03 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 5 | 3.03 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 5 | 3.03 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 5 | 3.03 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 5 | 3.03 |
| (1,9032) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 12 | 3.03 |
| (1,9032) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 12 | 3.03 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 19 | 3.03 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 19 | 3.03 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 19 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 19 | 3.03 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 15 | 3.03 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 15 | 3.03 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 2 | 3.03 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 2 | 3.03 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 16 | 3.03 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 16 | 3.03 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 5 | 3.03 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 5 | 3.03 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 12 | 3.03 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 3.03 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 3.03 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 7 | 3.03 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 7 | 3.03 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 6 | 3.03 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 10 | 3.03 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 10 | 3.03 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 10 | 3.03 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 10 | 3.03 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 10 | 3.03 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 10 | 3.03 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 10 | 3.03 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 10 | 3.03 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 10 | 3.03 |
| (1,8062) | 1:89:A:ILE:HB | 1:149:A:PRO:HB3 | 4 | 3.03 |
| (1,7944) | 1:73:A:TRP:HD1 | 1:74:A:ARG:H | 11 | 3.03 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 2 | 3.03 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 15 | 3.03 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 8 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 16 | 3.03 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 16 | 3.03 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 7 | 3.03 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 19 | 3.03 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 19 | 3.03 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 10 | 3.03 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 2 | 3.03 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 16 | 3.03 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 11 | 3.03 |
| (1,7503) | 1:13:A:LYS:HA | 1:24:A:TYR:HB3 | 14 | 3.03 |
| (1,7458) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:HD21 | 4 | 3.03 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 19 | 3.03 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 6 | 3.03 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 6 | 3.03 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 6 | 3.03 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 6 | 3.03 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 6 | 3.03 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 6 | 3.03 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 17 | 3.03 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 18 | 3.03 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 18 | 3.03 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 14 | 3.03 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 12 | 3.03 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 12 | 3.03 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 3 | 3.03 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 17 | 3.03 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 8 | 3.03 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 10 | 3.03 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 10 | 3.03 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 18 | 3.03 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 1 | 3.03 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 4 | 3.03 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 10 | 3.03 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 19 | 3.03 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 7 | 3.03 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 11 | 3.03 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 8 | 3.03 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 8 | 3.03 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 8 | 3.03 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 8 | 3.03 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 7 | 3.03 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 7 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 17 | 3.03 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 8 | 3.03 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 8 | 3.03 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 8 | 3.03 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 17 | 3.03 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 17 | 3.03 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 17 | 3.03 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 10 | 3.03 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 6 | 3.03 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 6 | 3.03 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 6 | 3.03 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 4 | 3.03 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 4 | 3.03 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 4 | 3.03 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 2 | 3.03 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 2 | 3.03 |
| (1,6433) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 2 | 3.03 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 12 | 3.03 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 12 | 3.03 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 12 | 3.03 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 12 | 3.03 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 12 | 3.03 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 12 | 3.03 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 12 | 3.03 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 12 | 3.03 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 12 | 3.03 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 13 | 3.03 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 2 | 3.03 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 9 | 3.03 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 9 | 3.03 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 9 | 3.03 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 15 | 3.03 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 15 | 3.03 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 19 | 3.03 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 19 | 3.03 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 19 | 3.03 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 1 | 3.03 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 3 | 3.03 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 3 | 3.03 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 3 | 3.03 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 3 | 3.03 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 2 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 14 | 3.03 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 14 | 3.03 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 14 | 3.03 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 14 | 3.03 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 14 | 3.03 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 14 | 3.03 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 14 | 3.03 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 14 | 3.03 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 14 | 3.03 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 19 | 3.03 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 10 | 3.03 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 10 | 3.03 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 19 | 3.03 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 17 | 3.03 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 17 | 3.03 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 17 | 3.03 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 9 | 3.03 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 9 | 3.03 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 9 | 3.03 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 6 | 3.03 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 11 | 3.03 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 18 | 3.03 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 18 | 3.03 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 18 | 3.03 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 19 | 3.03 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 19 | 3.03 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 19 | 3.03 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 20 | 3.03 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 18 | 3.03 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 18 | 3.03 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 18 | 3.03 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 5 | 3.03 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 5 | 3.03 |
| (1,5427) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 5 | 3.03 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 16 | 3.03 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 16 | 3.03 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 16 | 3.03 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 15 | 3.03 |
| (1,5423) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 20 | 3.03 |
| (1,5411) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 20 | 3.03 |
| (1,5411) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 20 | 3.03 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 3 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 17 | 3.03 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 18 | 3.03 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 18 | 3.03 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 18 | 3.03 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 18 | 3.03 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 18 | 3.03 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 18 | 3.03 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 18 | 3.03 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 18 | 3.03 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 18 | 3.03 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 10 | 3.03 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 19 | 3.03 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 18 | 3.03 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 17 | 3.03 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 17 | 3.03 |
| (1,5212) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 17 | 3.03 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 17 | 3.03 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 17 | 3.03 |
| (1,5212) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 17 | 3.03 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 17 | 3.03 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 17 | 3.03 |
| (1,5212) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 17 | 3.03 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 5 | 3.03 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 5 | 3.03 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 5 | 3.03 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 18 | 3.03 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 13 | 3.03 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 17 | 3.03 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 19 | 3.03 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 3 | 3.03 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 4 | 3.03 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 12 | 3.03 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 15 | 3.03 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 2 | 3.03 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 2 | 3.03 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 2 | 3.03 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 2 | 3.03 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 2 | 3.03 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 2 | 3.03 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 1 | 3.03 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 1 | 3.03 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 1 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 1 | 3.03 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 1 | 3.03 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 1 | 3.03 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 1 | 3.03 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 1 | 3.03 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 1 | 3.03 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 11 | 3.03 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 12 | 3.03 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 12 | 3.03 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 12 | 3.03 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 19 | 3.03 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 19 | 3.03 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 19 | 3.03 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 12 | 3.03 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 9 | 3.03 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 2 | 3.03 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 2 | 3.03 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 11 | 3.03 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 11 | 3.03 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 17 | 3.03 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 4 | 3.03 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 4 | 3.03 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 19 | 3.03 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 19 | 3.03 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 3 | 3.03 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 3 | 3.03 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 9 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 8 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 8 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 8 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 8 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 8 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 8 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 17 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 17 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 17 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 17 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 17 | 3.03 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 17 | 3.03 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 9 | 3.03 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 9 | 3.03 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 7 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 7 | 3.03 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 15 | 3.03 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 15 | 3.03 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 8 | 3.03 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 8 | 3.03 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 8 | 3.03 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 12 | 3.03 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 12 | 3.03 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 13 | 3.03 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 14 | 3.03 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 14 | 3.03 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 14 | 3.03 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 12 | 3.03 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 12 | 3.03 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 12 | 3.03 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 12 | 3.03 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 12 | 3.03 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 12 | 3.03 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 13 | 3.03 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 11 | 3.03 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 11 | 3.03 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 4 | 3.03 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 4 | 3.03 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 9 | 3.03 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 9 | 3.03 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 9 | 3.03 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 9 | 3.03 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 8 | 3.03 |
| (1,4004) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 12 | 3.03 |
| (1,4004) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 12 | 3.03 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 5 | 3.03 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 5 | 3.03 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 5 | 3.03 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 19 | 3.03 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 19 | 3.03 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 19 | 3.03 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 19 | 3.03 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 4 | 3.03 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 4 | 3.03 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 15 | 3.03 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 15 | 3.03 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 3.03 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 3.03 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 10 | 3.03 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 11 | 3.03 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 15 | 3.03 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 15 | 3.03 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 15 | 3.03 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 15 | 3.03 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 16 | 3.03 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 16 | 3.03 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 18 | 3.03 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 18 | 3.03 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 5 | 3.03 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 5 | 3.03 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 20 | 3.03 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 14 | 3.03 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 14 | 3.03 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 15 | 3.03 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 15 | 3.03 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 15 | 3.03 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 15 | 3.03 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 15 | 3.03 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 15 | 3.03 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 11 | 3.03 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 11 | 3.03 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 7 | 3.03 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 7 | 3.03 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 3.03 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 3.03 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 9 | 3.03 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 9 | 3.03 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 10 | 3.03 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 10 | 3.03 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 13 | 3.03 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 20 | 3.03 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 17 | 3.03 |
| (1,3416) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 4 | 3.03 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 18 | 3.03 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 18 | 3.03 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 6 | 3.03 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 18 | 3.03 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 20 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 4 | 3.03 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 4 | 3.03 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 4 | 3.03 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 14 | 3.03 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 12 | 3.03 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 12 | 3.03 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 3 | 3.03 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 6 | 3.03 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 6 | 3.03 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 6 | 3.03 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 3.03 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 3.03 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 3.03 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 18 | 3.03 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 9 | 3.03 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 9 | 3.03 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 9 | 3.03 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 4 | 3.03 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 17 | 3.03 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 8 | 3.03 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 9 | 3.03 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 17 | 3.03 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 17 | 3.03 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 17 | 3.03 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 10 | 3.03 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 18 | 3.03 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 1 | 3.03 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 4 | 3.03 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 10 | 3.03 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 19 | 3.03 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 7 | 3.03 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 14 | 3.03 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 14 | 3.03 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 11 | 3.03 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 13 | 3.03 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 13 | 3.03 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 12 | 3.03 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 12 | 3.03 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 12 | 3.03 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 12 | 3.03 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 12 | 3.03 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 12 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 7 | 3.03 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 7 | 3.03 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 16 | 3.03 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 18 | 3.03 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 17 | 3.03 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 8 | 3.03 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 8 | 3.03 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 8 | 3.03 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 17 | 3.03 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 17 | 3.03 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 17 | 3.03 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 7 | 3.03 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 6 | 3.03 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 7 | 3.03 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 9 | 3.03 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 10 | 3.03 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 6 | 3.03 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 6 | 3.03 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 6 | 3.03 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 12 | 3.03 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 20 | 3.03 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 16 | 3.03 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 14 | 3.03 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 14 | 3.03 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 14 | 3.03 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 14 | 3.03 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 14 | 3.03 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 14 | 3.03 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 14 | 3.03 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 14 | 3.03 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 14 | 3.03 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 2 | 3.03 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 2 | 3.03 |
| (1,2164) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 2 | 3.03 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 18 | 3.03 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 18 | 3.03 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 18 | 3.03 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 12 | 3.03 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 12 | 3.03 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 12 | 3.03 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 12 | 3.03 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 12 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 12 | 3.03 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 12 | 3.03 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 12 | 3.03 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 12 | 3.03 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 13 | 3.03 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 13 | 3.03 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 3.03 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 3.03 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 3.03 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 20 | 3.03 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 2 | 3.03 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 9 | 3.03 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 9 | 3.03 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 11 | 3.03 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 16 | 3.03 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 20 | 3.03 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 9 | 3.03 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 19 | 3.03 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 19 | 3.03 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 19 | 3.03 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 1 | 3.03 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 3 | 3.03 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 6 | 3.03 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 6 | 3.03 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 6 | 3.03 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 2 | 3.03 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 3 | 3.03 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 3 | 3.03 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 3 | 3.03 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 11 | 3.03 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 2 | 3.03 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 3 | 3.03 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 3 | 3.03 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 3 | 3.03 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 14 | 3.03 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 14 | 3.03 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 14 | 3.03 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 14 | 3.03 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 14 | 3.03 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 14 | 3.03 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 14 | 3.03 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 14 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 14 | 3.03 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 19 | 3.03 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 2 | 3.03 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 17 | 3.03 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 2 | 3.03 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 2 | 3.03 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 10 | 3.03 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 10 | 3.03 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 10 | 3.03 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 10 | 3.03 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 10 | 3.03 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 10 | 3.03 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 16 | 3.03 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 18 | 3.03 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 16 | 3.03 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 16 | 3.03 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 16 | 3.03 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 10 | 3.03 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 10 | 3.03 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 16 | 3.03 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 7 | 3.03 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 19 | 3.03 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 17 | 3.03 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 17 | 3.03 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 17 | 3.03 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 9 | 3.03 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 9 | 3.03 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 9 | 3.03 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 6 | 3.03 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 11 | 3.03 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 15 | 3.03 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 8 | 3.03 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 18 | 3.03 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 18 | 3.03 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 18 | 3.03 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 19 | 3.03 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 19 | 3.03 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 19 | 3.03 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 18 | 3.03 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 18 | 3.03 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 18 | 3.03 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 18 | 3.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 18 | 3.03 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 18 | 3.03 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 18 | 3.03 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 20 | 3.03 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 18 | 3.03 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 18 | 3.03 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 18 | 3.03 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 1 | 3.03 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 1 | 3.03 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 1 | 3.03 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 3 | 3.03 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 3 | 3.03 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 3 | 3.03 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 16 | 3.03 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 16 | 3.03 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 16 | 3.03 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 19 | 3.03 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 16 | 3.03 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 16 | 3.03 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 16 | 3.03 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 16 | 3.03 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 16 | 3.03 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 16 | 3.03 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 12 | 3.03 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 12 | 3.03 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 12 | 3.03 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 8 | 3.03 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 8 | 3.03 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 18 | 3.02 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 7 | 3.02 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 13 | 3.02 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 7 | 3.02 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 18 | 3.02 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 4 | 3.02 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 4 | 3.02 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 2 | 3.02 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 2 | 3.02 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 2 | 3.02 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 2 | 3.02 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 19 | 3.02 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 19 | 3.02 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 18 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 18 | 3.02 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 18 | 3.02 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 18 | 3.02 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 15 | 3.02 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 15 | 3.02 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 2 | 3.02 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 2 | 3.02 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 1 | 3.02 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 1 | 3.02 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 5 | 3.02 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 5 | 3.02 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 5 | 3.02 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 5 | 3.02 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 5 | 3.02 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 5 | 3.02 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 13 | 3.02 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 13 | 3.02 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 19 | 3.02 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 19 | 3.02 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 19 | 3.02 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 19 | 3.02 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 19 | 3.02 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 19 | 3.02 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 8 | 3.02 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 8 | 3.02 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 8 | 3.02 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 8 | 3.02 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 8 | 3.02 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 8 | 3.02 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 17 | 3.02 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 17 | 3.02 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 2 | 3.02 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 2 | 3.02 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 2 | 3.02 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 2 | 3.02 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 2 | 3.02 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 2 | 3.02 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 2 | 3.02 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 2 | 3.02 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 2 | 3.02 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 2 | 3.02 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 2 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 2 | 3.02 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 3 | 3.02 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 3 | 3.02 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 7 | 3.02 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 7 | 3.02 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 7 | 3.02 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 7 | 3.02 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 3 | 3.02 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 3 | 3.02 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 6 | 3.02 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 6 | 3.02 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 10 | 3.02 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 10 | 3.02 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 10 | 3.02 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 10 | 3.02 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 10 | 3.02 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 10 | 3.02 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 3 | 3.02 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 3 | 3.02 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 3 | 3.02 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 3 | 3.02 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 3 | 3.02 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 3 | 3.02 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 18 | 3.02 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 18 | 3.02 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA2 | 16 | 3.02 |
| (1,8819) | 1:59:A:HIS:H | 1:120:A:GLY:HA3 | 16 | 3.02 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 9 | 3.02 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 9 | 3.02 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 17 | 3.02 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 17 | 3.02 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 17 | 3.02 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 17 | 3.02 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 17 | 3.02 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 17 | 3.02 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 8 | 3.02 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 8 | 3.02 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 17 | 3.02 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 17 | 3.02 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 3 | 3.02 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 3 | 3.02 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 17 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 17 | 3.02 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 8 | 3.02 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 8 | 3.02 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 16 | 3.02 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 16 | 3.02 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 5 | 3.02 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 5 | 3.02 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 5 | 3.02 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 7 | 3.02 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 7 | 3.02 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 7 | 3.02 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 3 | 3.02 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 3 | 3.02 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 3 | 3.02 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 4 | 3.02 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 4 | 3.02 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 4 | 3.02 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 2 | 3.02 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 14 | 3.02 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 14 | 3.02 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 4 | 3.02 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 3 | 3.02 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 7 | 3.02 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 7 | 3.02 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 7 | 3.02 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 7 | 3.02 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 9 | 3.02 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 9 | 3.02 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 9 | 3.02 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 9 | 3.02 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 1 | 3.02 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 7 | 3.02 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 17 | 3.02 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 17 | 3.02 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD1 | 14 | 3.02 |
| (1,7528) | 1:14:A:ARG:H | 1:23:A:TYR:HD2 | 14 | 3.02 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 3 | 3.02 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 3 | 3.02 |
| (1,7436) | 1:7:A:LEU:HB3 | 1:37:A:PRO:HD3 | 5 | 3.02 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 5 | 3.02 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 5 | 3.02 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 19 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 15 | 3.02 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 15 | 3.02 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 2 | 3.02 |
| (1,7080) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 14 | 3.02 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 2 | 3.02 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 2 | 3.02 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 1 | 3.02 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 3 | 3.02 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 12 | 3.02 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 20 | 3.02 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 9 | 3.02 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 9 | 3.02 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 9 | 3.02 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 2 | 3.02 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 5 | 3.02 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 7 | 3.02 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 12 | 3.02 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 14 | 3.02 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 16 | 3.02 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 18 | 3.02 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 16 | 3.02 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 10 | 3.02 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 10 | 3.02 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 10 | 3.02 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 12 | 3.02 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 8 | 3.02 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 8 | 3.02 |
| (1,6661) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 12 | 3.02 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 5 | 3.02 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 5 | 3.02 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 2 | 3.02 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 16 | 3.02 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 17 | 3.02 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 17 | 3.02 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 17 | 3.02 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 4 | 3.02 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 4 | 3.02 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 4 | 3.02 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 9 | 3.02 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 2 | 3.02 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 2 | 3.02 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 11 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 11 | 3.02 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 8 | 3.02 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 8 | 3.02 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 7 | 3.02 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 7 | 3.02 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 7 | 3.02 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 17 | 3.02 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 17 | 3.02 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 17 | 3.02 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 15 | 3.02 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 12 | 3.02 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 12 | 3.02 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 12 | 3.02 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 16 | 3.02 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 3 | 3.02 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 8 | 3.02 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 14 | 3.02 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 14 | 3.02 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 14 | 3.02 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 14 | 3.02 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 14 | 3.02 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 14 | 3.02 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 14 | 3.02 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 14 | 3.02 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 14 | 3.02 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 7 | 3.02 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 7 | 3.02 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 20 | 3.02 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 16 | 3.02 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 16 | 3.02 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 10 | 3.02 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 10 | 3.02 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 10 | 3.02 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 12 | 3.02 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 4 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 14 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 14 | 3.02 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 14 | 3.02 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 3 | 3.02 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 8 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 1 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 1 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 1 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 1 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 1 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 1 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 1 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 1 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 1 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 10 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 10 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 10 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 10 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 10 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 10 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 10 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 10 | 3.02 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 10 | 3.02 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 13 | 3.02 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 13 | 3.02 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 14 | 3.02 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 14 | 3.02 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 14 | 3.02 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 11 | 3.02 |
| (1,5342) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 7 | 3.02 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 8 | 3.02 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 8 | 3.02 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 8 | 3.02 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 8 | 3.02 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 8 | 3.02 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 8 | 3.02 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 2 | 3.02 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 2 | 3.02 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 2 | 3.02 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 19 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 9 | 3.02 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 8 | 3.02 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 4 | 3.02 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 4 | 3.02 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 4 | 3.02 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 18 | 3.02 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 18 | 3.02 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 18 | 3.02 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 9 | 3.02 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 9 | 3.02 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 9 | 3.02 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 14 | 3.02 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 14 | 3.02 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 14 | 3.02 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 2 | 3.02 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 9 | 3.02 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 4 | 3.02 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 15 | 3.02 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 5 | 3.02 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 5 | 3.02 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 5 | 3.02 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 5 | 3.02 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 5 | 3.02 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 5 | 3.02 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 4 | 3.02 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 4 | 3.02 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 4 | 3.02 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 4 | 3.02 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 5 | 3.02 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 5 | 3.02 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 16 | 3.02 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 16 | 3.02 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 16 | 3.02 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 2 | 3.02 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 2 | 3.02 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 18 | 3.02 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 2 | 3.02 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 2 | 3.02 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 7 | 3.02 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 7 | 3.02 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 7 | 3.02 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 7 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 7 | 3.02 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 7 | 3.02 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 4 | 3.02 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 4 | 3.02 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 4 | 3.02 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 4 | 3.02 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 4 | 3.02 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 4 | 3.02 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 5 | 3.02 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 5 | 3.02 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 16 | 3.02 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 16 | 3.02 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 16 | 3.02 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 3 | 3.02 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 3 | 3.02 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 3 | 3.02 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 3 | 3.02 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 11 | 3.02 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 10 | 3.02 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 7 | 3.02 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 7 | 3.02 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 7 | 3.02 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 7 | 3.02 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 2 | 3.02 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 2 | 3.02 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 2 | 3.02 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 2 | 3.02 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 1 | 3.02 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 1 | 3.02 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 12 | 3.02 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 12 | 3.02 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 10 | 3.02 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 10 | 3.02 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 4 | 3.02 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 18 | 3.02 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 15 | 3.02 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 15 | 3.02 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 15 | 3.02 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 15 | 3.02 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 19 | 3.02 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 19 | 3.02 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 19 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 19 | 3.02 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 19 | 3.02 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 19 | 3.02 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 18 | 3.02 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 18 | 3.02 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 18 | 3.02 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 3.02 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 3.02 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 3.02 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 17 | 3.02 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 17 | 3.02 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 8 | 3.02 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 8 | 3.02 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 8 | 3.02 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 8 | 3.02 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 2 | 3.02 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 2 | 3.02 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 2 | 3.02 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 2 | 3.02 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 2 | 3.02 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 2 | 3.02 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 19 | 3.02 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 19 | 3.02 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 19 | 3.02 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 17 | 3.02 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 17 | 3.02 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 19 | 3.02 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 19 | 3.02 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 2 | 3.02 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 2 | 3.02 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 2 | 3.02 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 2 | 3.02 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 2 | 3.02 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 2 | 3.02 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 2 | 3.02 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 2 | 3.02 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 2 | 3.02 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 2 | 3.02 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 2 | 3.02 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 2 | 3.02 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 8 | 3.02 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 8 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 8 | 3.02 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 4 | 3.02 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 4 | 3.02 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 5 | 3.02 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 5 | 3.02 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 3 | 3.02 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 3 | 3.02 |
| (1,3925) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 19 | 3.02 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 15 | 3.02 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 15 | 3.02 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 6 | 3.02 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 9 | 3.02 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 9 | 3.02 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 13 | 3.02 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 13 | 3.02 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 13 | 3.02 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 13 | 3.02 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 13 | 3.02 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 13 | 3.02 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 10 | 3.02 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 10 | 3.02 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 10 | 3.02 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 10 | 3.02 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 10 | 3.02 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 10 | 3.02 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 3 | 3.02 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 3 | 3.02 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 3 | 3.02 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 3 | 3.02 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 3 | 3.02 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 3 | 3.02 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 3.02 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 3.02 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 3.02 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 3.02 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 3.02 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 3.02 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 3.02 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 3.02 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 3.02 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 8 | 3.02 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 8 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 8 | 3.02 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 8 | 3.02 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 14 | 3.02 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 14 | 3.02 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 14 | 3.02 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 14 | 3.02 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 14 | 3.02 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 14 | 3.02 |
| (1,3754) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 7 | 3.02 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 8 | 3.02 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 8 | 3.02 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 8 | 3.02 |
| (1,3632) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 8 | 3.02 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 11 | 3.02 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 11 | 3.02 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 8 | 3.02 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 8 | 3.02 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 16 | 3.02 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 16 | 3.02 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 16 | 3.02 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 16 | 3.02 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 16 | 3.02 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 9 | 3.02 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 9 | 3.02 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 4 | 3.02 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 7 | 3.02 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 10 | 3.02 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 11 | 3.02 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 17 | 3.02 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 20 | 3.02 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 20 | 3.02 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 20 | 3.02 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 20 | 3.02 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 20 | 3.02 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 20 | 3.02 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 20 | 3.02 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 20 | 3.02 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 20 | 3.02 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 2 | 3.02 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 9 | 3.02 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 12 | 3.02 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 13 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 14 | 3.02 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 14 | 3.02 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 14 | 3.02 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 16 | 3.02 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 8 | 3.02 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 8 | 3.02 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 8 | 3.02 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 15 | 3.02 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 15 | 3.02 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 2 | 3.02 |
| (1,3148) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 14 | 3.02 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 8 | 3.02 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 17 | 3.02 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 8 | 3.02 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 2 | 3.02 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 6 | 3.02 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 10 | 3.02 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 13 | 3.02 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 2 | 3.02 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 2 | 3.02 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 1 | 3.02 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 3 | 3.02 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 3 | 3.02 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 7 | 3.02 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 13 | 3.02 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 20 | 3.02 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 12 | 3.02 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 20 | 3.02 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 11 | 3.02 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 11 | 3.02 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 11 | 3.02 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 9 | 3.02 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 9 | 3.02 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 9 | 3.02 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 2 | 3.02 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 5 | 3.02 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 7 | 3.02 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 12 | 3.02 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 14 | 3.02 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 16 | 3.02 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 18 | 3.02 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 4 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 8 | 3.02 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 12 | 3.02 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 16 | 3.02 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 19 | 3.02 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 16 | 3.02 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 10 | 3.02 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 10 | 3.02 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 10 | 3.02 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 12 | 3.02 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 9 | 3.02 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 9 | 3.02 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 8 | 3.02 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 8 | 3.02 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 3.02 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 3.02 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 10 | 3.02 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 13 | 3.02 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 16 | 3.02 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 19 | 3.02 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 20 | 3.02 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 20 | 3.02 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 20 | 3.02 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 4 | 3.02 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 10 | 3.02 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 6 | 3.02 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 7 | 3.02 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 12 | 3.02 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 17 | 3.02 |
| (1,2546) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 12 | 3.02 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 5 | 3.02 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 5 | 3.02 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 2 | 3.02 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 8 | 3.02 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 12 | 3.02 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 20 | 3.02 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 18 | 3.02 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 2 | 3.02 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 13 | 3.02 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 16 | 3.02 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 13 | 3.02 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 2 | 3.02 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 4 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 9 | 3.02 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 10 | 3.02 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 18 | 3.02 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 2 | 3.02 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 8 | 3.02 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 9 | 3.02 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 14 | 3.02 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 15 | 3.02 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 16 | 3.02 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 20 | 3.02 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 3 | 3.02 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 11 | 3.02 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 3 | 3.02 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 7 | 3.02 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 9 | 3.02 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 15 | 3.02 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 19 | 3.02 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 17 | 3.02 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 17 | 3.02 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 17 | 3.02 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 4 | 3.02 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 4 | 3.02 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 4 | 3.02 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 9 | 3.02 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 9 | 3.02 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 9 | 3.02 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 9 | 3.02 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 8 | 3.02 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 18 | 3.02 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 17 | 3.02 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 17 | 3.02 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 17 | 3.02 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 6 | 3.02 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 1 | 3.02 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 3 | 3.02 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 5 | 3.02 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 7 | 3.02 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 13 | 3.02 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 18 | 3.02 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 15 | 3.02 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 15 | 3.02 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 2 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 2 | 3.02 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 11 | 3.02 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 11 | 3.02 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 8 | 3.02 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 8 | 3.02 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 4 | 3.02 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 4 | 3.02 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 4 | 3.02 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 4 | 3.02 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 4 | 3.02 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 4 | 3.02 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 4 | 3.02 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 4 | 3.02 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 4 | 3.02 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 7 | 3.02 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 7 | 3.02 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 7 | 3.02 |
| (1,1950) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 12 | 3.02 |
| (1,1950) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 12 | 3.02 |
| (1,1950) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 12 | 3.02 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 17 | 3.02 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 17 | 3.02 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 17 | 3.02 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 15 | 3.02 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 12 | 3.02 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 12 | 3.02 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 12 | 3.02 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 16 | 3.02 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 16 | 3.02 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 16 | 3.02 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 16 | 3.02 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 18 | 3.02 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 3 | 3.02 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 13 | 3.02 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 16 | 3.02 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 10 | 3.02 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 15 | 3.02 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 18 | 3.02 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 20 | 3.02 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 8 | 3.02 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 3.02 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 14 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 14 | 3.02 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 14 | 3.02 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 14 | 3.02 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 14 | 3.02 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 14 | 3.02 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 14 | 3.02 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 14 | 3.02 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 14 | 3.02 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 7 | 3.02 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 7 | 3.02 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 19 | 3.02 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 20 | 3.02 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 3 | 3.02 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 9 | 3.02 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 13 | 3.02 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 14 | 3.02 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 15 | 3.02 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 18 | 3.02 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 20 | 3.02 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 16 | 3.02 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 16 | 3.02 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 4 | 3.02 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 4 | 3.02 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 4 | 3.02 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 1 | 3.02 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 6 | 3.02 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 7 | 3.02 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 10 | 3.02 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 13 | 3.02 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 16 | 3.02 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 9 | 3.02 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 6 | 3.02 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 17 | 3.02 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 17 | 3.02 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 10 | 3.02 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 10 | 3.02 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 10 | 3.02 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 12 | 3.02 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 8 | 3.02 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 13 | 3.02 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 1 | 3.02 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 11 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 15 | 3.02 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 13 | 3.02 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 4 | 3.02 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 7 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 2 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 3 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 6 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 7 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 9 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 11 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 14 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 15 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 18 | 3.02 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 19 | 3.02 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 9 | 3.02 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 17 | 3.02 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 9 | 3.02 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 9 | 3.02 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 9 | 3.02 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 9 | 3.02 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 9 | 3.02 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 9 | 3.02 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 4 | 3.02 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 4 | 3.02 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 4 | 3.02 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 3 | 3.02 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 8 | 3.02 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 16 | 3.02 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 1 | 3.02 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 1 | 3.02 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 1 | 3.02 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 1 | 3.02 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 1 | 3.02 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 1 | 3.02 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 1 | 3.02 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 1 | 3.02 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 1 | 3.02 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 10 | 3.02 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 10 | 3.02 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 10 | 3.02 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 10 | 3.02 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 10 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 10 | 3.02 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 10 | 3.02 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 10 | 3.02 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 10 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 2 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 3 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 4 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 6 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 8 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 9 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 12 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 14 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 16 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 18 | 3.02 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 20 | 3.02 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 13 | 3.02 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 13 | 3.02 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 3 | 3.02 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 4 | 3.02 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 4 | 3.02 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 4 | 3.02 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 4 | 3.02 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 4 | 3.02 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 4 | 3.02 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 3 | 3.02 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 4 | 3.02 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 6 | 3.02 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 7 | 3.02 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 15 | 3.02 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 16 | 3.02 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 18 | 3.02 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 19 | 3.02 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 20 | 3.02 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 14 | 3.02 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 14 | 3.02 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 14 | 3.02 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 5 | 3.02 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 5 | 3.02 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 5 | 3.02 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 3.02 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 3.02 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 3.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 3.02 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 3.02 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 3.02 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 6 | 3.02 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 9 | 3.02 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 4 | 3.02 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 12 | 3.02 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 12 | 3.02 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 12 | 3.02 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 13 | 3.02 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 13 | 3.02 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 3 | 3.01 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 18 | 3.01 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 15 | 3.01 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 1 | 3.01 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 1 | 3.01 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 8 | 3.01 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 8 | 3.01 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 4 | 3.01 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 4 | 3.01 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 11 | 3.01 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 11 | 3.01 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 19 | 3.01 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 19 | 3.01 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 6 | 3.01 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 6 | 3.01 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 17 | 3.01 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 17 | 3.01 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 17 | 3.01 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 17 | 3.01 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 15 | 3.01 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 15 | 3.01 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 15 | 3.01 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 15 | 3.01 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 16 | 3.01 |
| (1,9179) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 16 | 3.01 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 10 | 3.01 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 10 | 3.01 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 10 | 3.01 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 10 | 3.01 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 13 | 3.01 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 13 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 14 | 3.01 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 14 | 3.01 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 19 | 3.01 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 19 | 3.01 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 19 | 3.01 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 19 | 3.01 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 19 | 3.01 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 19 | 3.01 |
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 11 | 3.01 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 11 | 3.01 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 4 | 3.01 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 4 | 3.01 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 15 | 3.01 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 15 | 3.01 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 19 | 3.01 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 19 | 3.01 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 4 | 3.01 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 4 | 3.01 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 4 | 3.01 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 4 | 3.01 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 5 | 3.01 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 5 | 3.01 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 4 | 3.01 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 4 | 3.01 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 9 | 3.01 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 9 | 3.01 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 9 | 3.01 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 9 | 3.01 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 18 | 3.01 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 18 | 3.01 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 6 | 3.01 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 6 | 3.01 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 6 | 3.01 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 6 | 3.01 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 6 | 3.01 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 6 | 3.01 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 14 | 3.01 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 14 | 3.01 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 14 | 3.01 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 14 | 3.01 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 14 | 3.01 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 14 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 16 | 3.01 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 16 | 3.01 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 16 | 3.01 |
| (1,8317) | 1:130:A:MET:HG2 | 1:131:A:GLN:H | 9 | 3.01 |
| (1,8317) | 1:130:A:MET:HG3 | 1:131:A:GLN:H | 9 | 3.01 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 7 | 3.01 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 7 | 3.01 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 12 | 3.01 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 12 | 3.01 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 11 | 3.01 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 15 | 3.01 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 15 | 3.01 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 15 | 3.01 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 15 | 3.01 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 15 | 3.01 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 15 | 3.01 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 15 | 3.01 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 15 | 3.01 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 15 | 3.01 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 18 | 3.01 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 17 | 3.01 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 17 | 3.01 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 17 | 3.01 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 17 | 3.01 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 17 | 3.01 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 17 | 3.01 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 17 | 3.01 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 17 | 3.01 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 17 | 3.01 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 9 | 3.01 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 3 | 3.01 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 13 | 3.01 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 1 | 3.01 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 10 | 3.01 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 18 | 3.01 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 15 | 3.01 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 15 | 3.01 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 4 | 3.01 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 9 | 3.01 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 16 | 3.01 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 1 | 3.01 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 3 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 7 | 3.01 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 10 | 3.01 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 14 | 3.01 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 17 | 3.01 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 19 | 3.01 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 5 | 3.01 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 5 | 3.01 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 19 | 3.01 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 19 | 3.01 |
| (1,7096) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 10 | 3.01 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 12 | 3.01 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 6 | 3.01 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 6 | 3.01 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 16 | 3.01 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 12 | 3.01 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 16 | 3.01 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 18 | 3.01 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 15 | 3.01 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 3 | 3.01 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 5 | 3.01 |
| (1,6813) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 4 | 3.01 |
| (1,6813) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 4 | 3.01 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 6 | 3.01 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 6 | 3.01 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 6 | 3.01 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 6 | 3.01 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 6 | 3.01 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 6 | 3.01 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 3 | 3.01 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 3 | 3.01 |
| (1,6575) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 17 | 3.01 |
| (1,6575) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 17 | 3.01 |
| (1,6575) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 17 | 3.01 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 12 | 3.01 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 1 | 3.01 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 1 | 3.01 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 1 | 3.01 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 9 | 3.01 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 20 | 3.01 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 8 | 3.01 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 8 | 3.01 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 11 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 11 | 3.01 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 11 | 3.01 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 14 | 3.01 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 14 | 3.01 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 14 | 3.01 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 16 | 3.01 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 16 | 3.01 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 16 | 3.01 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 2 | 3.01 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 2 | 3.01 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 10 | 3.01 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 10 | 3.01 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 7 | 3.01 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 15 | 3.01 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 18 | 3.01 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 18 | 3.01 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 18 | 3.01 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 4 | 3.01 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 4 | 3.01 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 4 | 3.01 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 4 | 3.01 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 4 | 3.01 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 4 | 3.01 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 4 | 3.01 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 4 | 3.01 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 4 | 3.01 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 10 | 3.01 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 10 | 3.01 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 8 | 3.01 |
| (1,6039) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 3 | 3.01 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 16 | 3.01 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 16 | 3.01 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 14 | 3.01 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 16 | 3.01 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 10 | 3.01 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 16 | 3.01 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 5 | 3.01 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 20 | 3.01 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 20 | 3.01 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 20 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 6 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 6 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 6 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 9 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 9 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 9 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 20 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 20 | 3.01 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 20 | 3.01 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 17 | 3.01 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 9 | 3.01 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 9 | 3.01 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 15 | 3.01 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 10 | 3.01 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 12 | 3.01 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 12 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 4 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 4 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 4 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 4 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 4 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 4 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 4 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 4 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 4 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 19 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 19 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 19 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 19 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 19 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 19 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 19 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 19 | 3.01 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 19 | 3.01 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 3 | 3.01 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 3 | 3.01 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 3 | 3.01 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 19 | 3.01 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 19 | 3.01 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 19 | 3.01 |
| (1,5399) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 19 | 3.01 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 5 | 3.01 |
| (1,5304) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 6 | 3.01 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 2 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 5 | 3.01 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 10 | 3.01 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 14 | 3.01 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 20 | 3.01 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 7 | 3.01 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 2 | 3.01 |
| (1,4888) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 9 | 3.01 |
| (1,4888) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 9 | 3.01 |
| (1,4888) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 9 | 3.01 |
| (1,4872) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 17 | 3.01 |
| (1,4872) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 17 | 3.01 |
| (1,4872) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 17 | 3.01 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 10 | 3.01 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 10 | 3.01 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 10 | 3.01 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 7 | 3.01 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 7 | 3.01 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 7 | 3.01 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 7 | 3.01 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 7 | 3.01 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 7 | 3.01 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 7 | 3.01 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 7 | 3.01 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 7 | 3.01 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 2 | 3.01 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 2 | 3.01 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 2 | 3.01 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 18 | 3.01 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 11 | 3.01 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 15 | 3.01 |
| (1,4659) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 15 | 3.01 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 3.01 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 3.01 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 3.01 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 8 | 3.01 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 8 | 3.01 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 19 | 3.01 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 4 | 3.01 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 4 | 3.01 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 11 | 3.01 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 11 | 3.01 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 19 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 19 | 3.01 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 3 | 3.01 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 6 | 3.01 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 6 | 3.01 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 16 | 3.01 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 3.01 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 15 | 3.01 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 15 | 3.01 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 15 | 3.01 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 15 | 3.01 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 1 | 3.01 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 1 | 3.01 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 1 | 3.01 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 1 | 3.01 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 18 | 3.01 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 18 | 3.01 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 18 | 3.01 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 18 | 3.01 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 18 | 3.01 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 18 | 3.01 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 12 | 3.01 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 4 | 3.01 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 4 | 3.01 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 19 | 3.01 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 19 | 3.01 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 9 | 3.01 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 16 | 3.01 |
| (1,4154) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 16 | 3.01 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 9 | 3.01 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 9 | 3.01 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 9 | 3.01 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 9 | 3.01 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 9 | 3.01 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 9 | 3.01 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 10 | 3.01 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 10 | 3.01 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 10 | 3.01 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 10 | 3.01 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 8 | 3.01 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 8 | 3.01 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 9 | 3.01 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 9 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 11 | 3.01 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 11 | 3.01 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 8 | 3.01 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 8 | 3.01 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 8 | 3.01 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 19 | 3.01 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 19 | 3.01 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 19 | 3.01 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 19 | 3.01 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 19 | 3.01 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 19 | 3.01 |
| (1,3974) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 5 | 3.01 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 4 | 3.01 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 4 | 3.01 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 15 | 3.01 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 15 | 3.01 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 14 | 3.01 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 14 | 3.01 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 14 | 3.01 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 14 | 3.01 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 14 | 3.01 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 14 | 3.01 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 2 | 3.01 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 2 | 3.01 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 2 | 3.01 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 2 | 3.01 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 18 | 3.01 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 18 | 3.01 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 18 | 3.01 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 18 | 3.01 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 4 | 3.01 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 4 | 3.01 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 4 | 3.01 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 8 | 3.01 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 8 | 3.01 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 8 | 3.01 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 8 | 3.01 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 8 | 3.01 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 8 | 3.01 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 3.01 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 3.01 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 6 | 3.01 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 17 | 3.01 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 17 | 3.01 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 17 | 3.01 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 17 | 3.01 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 17 | 3.01 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 17 | 3.01 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 17 | 3.01 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 17 | 3.01 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 10 | 3.01 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 10 | 3.01 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 5 | 3.01 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 5 | 3.01 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 8 | 3.01 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 8 | 3.01 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 18 | 3.01 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 18 | 3.01 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 4 | 3.01 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 6 | 3.01 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 6 | 3.01 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 6 | 3.01 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 6 | 3.01 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 6 | 3.01 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 6 | 3.01 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 20 | 3.01 |
| (1,3486) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 20 | 3.01 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 4 | 3.01 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 6 | 3.01 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 20 | 3.01 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 13 | 3.01 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 5 | 3.01 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 12 | 3.01 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 16 | 3.01 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 20 | 3.01 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 14 | 3.01 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 12 | 3.01 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 14 | 3.01 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 14 | 3.01 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 14 | 3.01 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 3 | 3.01 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 4 | 3.01 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 14 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 15 | 3.01 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 3 | 3.01 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 3 | 3.01 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 5 | 3.01 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 5 | 3.01 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 10 | 3.01 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 5 | 3.01 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 9 | 3.01 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 11 | 3.01 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 12 | 3.01 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 13 | 3.01 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 16 | 3.01 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 18 | 3.01 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 20 | 3.01 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 2 | 3.01 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 2 | 3.01 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 2 | 3.01 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 19 | 3.01 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 4 | 3.01 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 19 | 3.01 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 19 | 3.01 |
| (1,3178) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 10 | 3.01 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 17 | 3.01 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 17 | 3.01 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 17 | 3.01 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 1 | 3.01 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 4 | 3.01 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 12 | 3.01 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 9 | 3.01 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 11 | 3.01 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 16 | 3.01 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 19 | 3.01 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 14 | 3.01 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 16 | 3.01 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 6 | 3.01 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 6 | 3.01 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 16 | 3.01 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 16 | 3.01 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 6 | 3.01 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 6 | 3.01 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 12 | 3.01 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 19 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 15 | 3.01 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 5 | 3.01 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 10 | 3.01 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 17 | 3.01 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 5 | 3.01 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 10 | 3.01 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 14 | 3.01 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 18 | 3.01 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 16 | 3.01 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 18 | 3.01 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 15 | 3.01 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 3 | 3.01 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 5 | 3.01 |
| (1,2794) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 4 | 3.01 |
| (1,2794) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 4 | 3.01 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 13 | 3.01 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 6 | 3.01 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 6 | 3.01 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 6 | 3.01 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 6 | 3.01 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 6 | 3.01 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 6 | 3.01 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 3 | 3.01 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 12 | 3.01 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 17 | 3.01 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 6 | 3.01 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 15 | 3.01 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 2 | 3.01 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 8 | 3.01 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 9 | 3.01 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 13 | 3.01 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 18 | 3.01 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 5 | 3.01 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 7 | 3.01 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 11 | 3.01 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 12 | 3.01 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 16 | 3.01 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 20 | 3.01 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 2 | 3.01 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 10 | 3.01 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 13 | 3.01 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 19 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 4 | 3.01 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 1 | 3.01 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 3 | 3.01 |
| (1,2434) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 17 | 3.01 |
| (1,2434) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 17 | 3.01 |
| (1,2434) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 17 | 3.01 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 13 | 3.01 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 13 | 3.01 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 13 | 3.01 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 13 | 3.01 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 13 | 3.01 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 13 | 3.01 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 12 | 3.01 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 15 | 3.01 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 17 | 3.01 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 1 | 3.01 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 1 | 3.01 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 1 | 3.01 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 14 | 3.01 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 19 | 3.01 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 1 | 3.01 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 1 | 3.01 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 1 | 3.01 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 18 | 3.01 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 4 | 3.01 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 5 | 3.01 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 9 | 3.01 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 12 | 3.01 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 14 | 3.01 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 9 | 3.01 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 7 | 3.01 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 7 | 3.01 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 7 | 3.01 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 11 | 3.01 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 11 | 3.01 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 11 | 3.01 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 14 | 3.01 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 14 | 3.01 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 14 | 3.01 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 16 | 3.01 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 16 | 3.01 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 16 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 2 | 3.01 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 2 | 3.01 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 1 | 3.01 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 4 | 3.01 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 10 | 3.01 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 11 | 3.01 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 17 | 3.01 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 19 | 3.01 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 1 | 3.01 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 4 | 3.01 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 10 | 3.01 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 11 | 3.01 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 17 | 3.01 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 19 | 3.01 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 1 | 3.01 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 6 | 3.01 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 8 | 3.01 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 2 | 3.01 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 5 | 3.01 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 12 | 3.01 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 18 | 3.01 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 3 | 3.01 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 10 | 3.01 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 10 | 3.01 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 10 | 3.01 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 2 | 3.01 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 4 | 3.01 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 5 | 3.01 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 7 | 3.01 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 13 | 3.01 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 7 | 3.01 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 15 | 3.01 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 9 | 3.01 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 9 | 3.01 |
| (1,1702) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 9 | 3.01 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 11 | 3.01 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 11 | 3.01 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 11 | 3.01 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 4 | 3.01 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 4 | 3.01 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 4 | 3.01 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 4 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 4 | 3.01 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 4 | 3.01 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 4 | 3.01 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 4 | 3.01 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 4 | 3.01 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 10 | 3.01 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 10 | 3.01 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 8 | 3.01 |
| (1,1584) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 3 | 3.01 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 16 | 3.01 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 16 | 3.01 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 5 | 3.01 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 5 | 3.01 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 5 | 3.01 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 14 | 3.01 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 1 | 3.01 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 3 | 3.01 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 6 | 3.01 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 7 | 3.01 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 10 | 3.01 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 17 | 3.01 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 14 | 3.01 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 8 | 3.01 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 16 | 3.01 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 11 | 3.01 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 17 | 3.01 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 10 | 3.01 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 17 | 3.01 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 17 | 3.01 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 16 | 3.01 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 2 | 3.01 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 5 | 3.01 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 7 | 3.01 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 10 | 3.01 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 13 | 3.01 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 16 | 3.01 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 1 | 3.01 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 5 | 3.01 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 9 | 3.01 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 12 | 3.01 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 13 | 3.01 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 18 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 20 | 3.01 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 20 | 3.01 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 20 | 3.01 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 12 | 3.01 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 12 | 3.01 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 18 | 3.01 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 18 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 6 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 6 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 6 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 9 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 9 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 9 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 20 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 20 | 3.01 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 20 | 3.01 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 6 | 3.01 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 11 | 3.01 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 19 | 3.01 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 8 | 3.01 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 17 | 3.01 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 3 | 3.01 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 6 | 3.01 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 8 | 3.01 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 10 | 3.01 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 17 | 3.01 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 16 | 3.01 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 4 | 3.01 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 14 | 3.01 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 9 | 3.01 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 9 | 3.01 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 11 | 3.01 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 2 | 3.01 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 15 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 2 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 3 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 5 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 6 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 7 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 8 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 10 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 15 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 16 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 18 | 3.01 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 20 | 3.01 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 11 | 3.01 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 19 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 2 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 3 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 5 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 6 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 7 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 8 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 10 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 15 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 16 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 18 | 3.01 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 20 | 3.01 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 13 | 3.01 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 10 | 3.01 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 4 | 3.01 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 9 | 3.01 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 12 | 3.01 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 12 | 3.01 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 4 | 3.01 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 4 | 3.01 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 19 | 3.01 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 19 | 3.01 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 19 | 3.01 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 19 | 3.01 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 19 | 3.01 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 19 | 3.01 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 19 | 3.01 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 19 | 3.01 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 19 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 3 | 3.01 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 3 | 3.01 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 3 | 3.01 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 1 | 3.01 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 5 | 3.01 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 7 | 3.01 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 10 | 3.01 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 11 | 3.01 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 13 | 3.01 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 15 | 3.01 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 17 | 3.01 |
| (1,676) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 19 | 3.01 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 11 | 3.01 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 15 | 3.01 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 1 | 3.01 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 11 | 3.01 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 14 | 3.01 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 17 | 3.01 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 19 | 3.01 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 19 | 3.01 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 19 | 3.01 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 12 | 3.01 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 12 | 3.01 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 12 | 3.01 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 12 | 3.01 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 12 | 3.01 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 12 | 3.01 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 12 | 3.01 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 12 | 3.01 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 12 | 3.01 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 3 | 3.01 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 5 | 3.01 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 7 | 3.01 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 7 | 3.01 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 7 | 3.01 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 7 | 3.01 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 7 | 3.01 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 7 | 3.01 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 9 | 3.01 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 9 | 3.01 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 9 | 3.01 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 15 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 13 | 3.01 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 4 | 3.01 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 4 | 3.01 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 4 | 3.01 |
| (4,253) | 1:15:A:MET:CB | 1:148:A:GLY:H | 5 | 3.0 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 10 | 3.0 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 17 | 3.0 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 17 | 3.0 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG12 | 6 | 3.0 |
| (1,9608) | 1:158:A:ILE:HA | 1:159:A:ILE:HG13 | 6 | 3.0 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 18 | 3.0 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 18 | 3.0 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 18 | 3.0 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 18 | 3.0 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 18 | 3.0 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 18 | 3.0 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 8 | 3.0 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 8 | 3.0 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 5 | 3.0 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 5 | 3.0 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 16 | 3.0 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 16 | 3.0 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 16 | 3.0 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 16 | 3.0 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 2 | 3.0 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 2 | 3.0 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 7 | 3.0 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 7 | 3.0 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 13 | 3.0 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 13 | 3.0 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 15 | 3.0 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 15 | 3.0 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 18 | 3.0 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 18 | 3.0 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 18 | 3.0 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 18 | 3.0 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 18 | 3.0 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 18 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 6 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 6 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 6 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 6 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 6 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 6 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 7 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 7 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 7 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 7 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 7 | 3.0 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 7 | 3.0 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 4 | 3.0 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 4 | 3.0 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 6 | 3.0 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 6 | 3.0 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 15 | 3.0 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 15 | 3.0 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 5 | 3.0 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 5 | 3.0 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 4 | 3.0 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 4 | 3.0 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 17 | 3.0 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 17 | 3.0 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 19 | 3.0 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 19 | 3.0 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 11 | 3.0 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 11 | 3.0 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 11 | 3.0 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 11 | 3.0 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 11 | 3.0 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 11 | 3.0 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 16 | 3.0 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 16 | 3.0 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 16 | 3.0 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 16 | 3.0 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 7 | 3.0 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 7 | 3.0 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 3 | 3.0 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 3 | 3.0 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 5 | 3.0 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 5 | 3.0 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 8 | 3.0 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 8 | 3.0 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 20 | 3.0 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 20 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 10 | 3.0 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 10 | 3.0 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 10 | 3.0 |
| (1,8403) | 1:141:A:LEU:HD11 | 1:146:A:MET:HA | 17 | 3.0 |
| (1,8403) | 1:141:A:LEU:HD12 | 1:146:A:MET:HA | 17 | 3.0 |
| (1,8403) | 1:141:A:LEU:HD13 | 1:146:A:MET:HA | 17 | 3.0 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 9 | 3.0 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 9 | 3.0 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 9 | 3.0 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 9 | 3.0 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 9 | 3.0 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 9 | 3.0 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 1 | 3.0 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 1 | 3.0 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 1 | 3.0 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 1 | 3.0 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 1 | 3.0 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 1 | 3.0 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 9 | 3.0 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 18 | 3.0 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 17 | 3.0 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 17 | 3.0 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 17 | 3.0 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 6 | 3.0 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 2 | 3.0 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 18 | 3.0 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 12 | 3.0 |
| (1,7904) | 1:68:A:ARG:H | 1:68:A:ARG:HD2 | 6 | 3.0 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 12 | 3.0 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 12 | 3.0 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 12 | 3.0 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 11 | 3.0 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 6 | 3.0 |
| (1,7586) | 1:25:A:PHE:HB3 | 1:26:A:ASN:H | 7 | 3.0 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 7 | 3.0 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 17 | 3.0 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 20 | 3.0 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 14 | 3.0 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 14 | 3.0 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 12 | 3.0 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 15 | 3.0 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 15 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 18 | 3.0 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 8 | 3.0 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 15 | 3.0 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 17 | 3.0 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 17 | 3.0 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 17 | 3.0 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 9 | 3.0 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 9 | 3.0 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 9 | 3.0 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 18 | 3.0 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 18 | 3.0 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 14 | 3.0 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 6 | 3.0 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 16 | 3.0 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 16 | 3.0 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 9 | 3.0 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 16 | 3.0 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 8 | 3.0 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 17 | 3.0 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 20 | 3.0 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 13 | 3.0 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 8 | 3.0 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 17 | 3.0 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 8 | 3.0 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 8 | 3.0 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 8 | 3.0 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 14 | 3.0 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 14 | 3.0 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 14 | 3.0 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 14 | 3.0 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 14 | 3.0 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 14 | 3.0 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 14 | 3.0 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 14 | 3.0 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 14 | 3.0 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 15 | 3.0 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 4 | 3.0 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 4 | 3.0 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 2 | 3.0 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 16 | 3.0 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 11 | 3.0 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 11 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 11 | 3.0 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 9 | 3.0 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 9 | 3.0 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 9 | 3.0 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 9 | 3.0 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 9 | 3.0 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 8 | 3.0 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 8 | 3.0 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 8 | 3.0 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 16 | 3.0 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 16 | 3.0 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 16 | 3.0 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 14 | 3.0 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 14 | 3.0 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 14 | 3.0 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 14 | 3.0 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 14 | 3.0 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 14 | 3.0 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 14 | 3.0 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 14 | 3.0 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 7 | 3.0 |
| (1,5926) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 7 | 3.0 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 7 | 3.0 |
| (1,5926) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 7 | 3.0 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 11 | 3.0 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 11 | 3.0 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 11 | 3.0 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 17 | 3.0 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 10 | 3.0 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 14 | 3.0 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 14 | 3.0 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 14 | 3.0 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 14 | 3.0 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 2 | 3.0 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 2 | 3.0 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 10 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 9 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 9 | 3.0 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 9 | 3.0 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 19 | 3.0 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 2 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 11 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 11 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 11 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 11 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 11 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 11 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 11 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 11 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 11 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 14 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 14 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 14 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 14 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 14 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 14 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 14 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 14 | 3.0 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 14 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 4 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 4 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 4 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 4 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 4 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 4 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 4 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 4 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 4 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 19 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 19 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 19 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 19 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 19 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 19 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 19 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 19 | 3.0 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 19 | 3.0 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 2 | 3.0 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 2 | 3.0 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 2 | 3.0 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 12 | 3.0 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 13 | 3.0 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 13 | 3.0 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 13 | 3.0 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 16 | 3.0 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 13 | 3.0 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 13 | 3.0 |
| (1,5208) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 13 | 3.0 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 14 | 3.0 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 8 | 3.0 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 8 | 3.0 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 8 | 3.0 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 2 | 3.0 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 2 | 3.0 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 2 | 3.0 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 10 | 3.0 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 14 | 3.0 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 20 | 3.0 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 20 | 3.0 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 20 | 3.0 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 11 | 3.0 |
| (1,4904) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 15 | 3.0 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 9 | 3.0 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 9 | 3.0 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 9 | 3.0 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 9 | 3.0 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 9 | 3.0 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 9 | 3.0 |
| (1,4857) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 3 | 3.0 |
| (1,4857) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 3 | 3.0 |
| (1,4857) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 3 | 3.0 |
| (1,4796) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 2 | 3.0 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 13 | 3.0 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 10 | 3.0 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 10 | 3.0 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 12 | 3.0 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 18 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 18 | 3.0 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 18 | 3.0 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 18 | 3.0 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 18 | 3.0 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 18 | 3.0 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 8 | 3.0 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 8 | 3.0 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 13 | 3.0 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 13 | 3.0 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 1 | 3.0 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 1 | 3.0 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 1 | 3.0 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 18 | 3.0 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 18 | 3.0 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 16 | 3.0 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 16 | 3.0 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 1 | 3.0 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 2 | 3.0 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 2 | 3.0 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 7 | 3.0 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 7 | 3.0 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 13 | 3.0 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 13 | 3.0 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 8 | 3.0 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 8 | 3.0 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 10 | 3.0 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 15 | 3.0 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 15 | 3.0 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 17 | 3.0 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 2 | 3.0 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 18 | 3.0 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 18 | 3.0 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 11 | 3.0 |
| (1,4236) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 11 | 3.0 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 17 | 3.0 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 17 | 3.0 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 18 | 3.0 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 18 | 3.0 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 18 | 3.0 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 18 | 3.0 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 18 | 3.0 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 18 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 8 | 3.0 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 8 | 3.0 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 8 | 3.0 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 8 | 3.0 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 7 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 6 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 6 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 6 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 6 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 6 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 6 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 7 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 7 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 7 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 7 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 7 | 3.0 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 7 | 3.0 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 13 | 3.0 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 13 | 3.0 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 13 | 3.0 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 13 | 3.0 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 7 | 3.0 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 7 | 3.0 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 7 | 3.0 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 5 | 3.0 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 5 | 3.0 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 3.0 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 16 | 3.0 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 16 | 3.0 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 16 | 3.0 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 16 | 3.0 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 16 | 3.0 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 16 | 3.0 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 4 | 3.0 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 4 | 3.0 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 6 | 3.0 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 6 | 3.0 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 11 | 3.0 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 11 | 3.0 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 17 | 3.0 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 17 | 3.0 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 12 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 12 | 3.0 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 4 | 3.0 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 6 | 3.0 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 6 | 3.0 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 11 | 3.0 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 11 | 3.0 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 11 | 3.0 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 11 | 3.0 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 11 | 3.0 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 11 | 3.0 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 14 | 3.0 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 14 | 3.0 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 14 | 3.0 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 14 | 3.0 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 14 | 3.0 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 14 | 3.0 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 12 | 3.0 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 15 | 3.0 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 5 | 3.0 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 5 | 3.0 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 15 | 3.0 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 15 | 3.0 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 3 | 3.0 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 3 | 3.0 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 5 | 3.0 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 5 | 3.0 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 19 | 3.0 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 19 | 3.0 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 19 | 3.0 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 6 | 3.0 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 6 | 3.0 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 17 | 3.0 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 17 | 3.0 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 17 | 3.0 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 9 | 3.0 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 3 | 3.0 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 17 | 3.0 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 17 | 3.0 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 17 | 3.0 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 1 | 3.0 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 11 | 3.0 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 11 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 11 | 3.0 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 9 | 3.0 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 9 | 3.0 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 9 | 3.0 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 18 | 3.0 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 18 | 3.0 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 3 | 3.0 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 10 | 3.0 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 14 | 3.0 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 15 | 3.0 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 17 | 3.0 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 9 | 3.0 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 15 | 3.0 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 17 | 3.0 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 4 | 3.0 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 9 | 3.0 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 14 | 3.0 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 16 | 3.0 |
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 6 | 3.0 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 16 | 3.0 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 16 | 3.0 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 9 | 3.0 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 2 | 3.0 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 15 | 3.0 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 15 | 3.0 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 16 | 3.0 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 17 | 3.0 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 20 | 3.0 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 13 | 3.0 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 8 | 3.0 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 8 | 3.0 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 8 | 3.0 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 8 | 3.0 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 17 | 3.0 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 2 | 3.0 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 2 | 3.0 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 14 | 3.0 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 14 | 3.0 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 14 | 3.0 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 14 | 3.0 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 14 | 3.0 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 14 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 14 | 3.0 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 14 | 3.0 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 14 | 3.0 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 1 | 3.0 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 7 | 3.0 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 17 | 3.0 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 15 | 3.0 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 4 | 3.0 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 4 | 3.0 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 2 | 3.0 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 13 | 3.0 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 13 | 3.0 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 15 | 3.0 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 16 | 3.0 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 3 | 3.0 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 5 | 3.0 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 11 | 3.0 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 11 | 3.0 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 11 | 3.0 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 1 | 3.0 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 16 | 3.0 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 5 | 3.0 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 6 | 3.0 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 14 | 3.0 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 9 | 3.0 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 4 | 3.0 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 5 | 3.0 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 11 | 3.0 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 2 | 3.0 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 20 | 3.0 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 5 | 3.0 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 7 | 3.0 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 7 | 3.0 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 7 | 3.0 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 9 | 3.0 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 9 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 18 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 18 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 18 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 18 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 18 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 18 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 18 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 18 | 3.0 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 18 | 3.0 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 9 | 3.0 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 9 | 3.0 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 9 | 3.0 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 7 | 3.0 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 7 | 3.0 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 7 | 3.0 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 18 | 3.0 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 18 | 3.0 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 18 | 3.0 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 5 | 3.0 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 5 | 3.0 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 5 | 3.0 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 6 | 3.0 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 14 | 3.0 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 16 | 3.0 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 15 | 3.0 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 15 | 3.0 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 15 | 3.0 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 6 | 3.0 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 14 | 3.0 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 16 | 3.0 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 17 | 3.0 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 20 | 3.0 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 11 | 3.0 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 8 | 3.0 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 8 | 3.0 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 8 | 3.0 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 2 | 3.0 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 13 | 3.0 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 16 | 3.0 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 16 | 3.0 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 16 | 3.0 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 14 | 3.0 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 14 | 3.0 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 6 | 3.0 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 15 | 3.0 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 14 | 3.0 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 14 | 3.0 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 14 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 14 | 3.0 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 14 | 3.0 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 14 | 3.0 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 12 | 3.0 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 2 | 3.0 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 5 | 3.0 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 12 | 3.0 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 19 | 3.0 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 3 | 3.0 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 12 | 3.0 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 18 | 3.0 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 11 | 3.0 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 14 | 3.0 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 15 | 3.0 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 17 | 3.0 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 7 | 3.0 |
| (1,1352) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 7 | 3.0 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 7 | 3.0 |
| (1,1352) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 7 | 3.0 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 11 | 3.0 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 11 | 3.0 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 11 | 3.0 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 17 | 3.0 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 11 | 3.0 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 15 | 3.0 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 19 | 3.0 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 7 | 3.0 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 10 | 3.0 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 14 | 3.0 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 14 | 3.0 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 14 | 3.0 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 14 | 3.0 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 14 | 3.0 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 2 | 3.0 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 18 | 3.0 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 18 | 3.0 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 18 | 3.0 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 2 | 3.0 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 13 | 3.0 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 4 | 3.0 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 5 | 3.0 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 10 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 1 | 3.0 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 12 | 3.0 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 17 | 3.0 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 14 | 3.0 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 1 | 3.0 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 12 | 3.0 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 17 | 3.0 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 3 | 3.0 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 8 | 3.0 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 8 | 3.0 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 8 | 3.0 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 8 | 3.0 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 8 | 3.0 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 8 | 3.0 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 15 | 3.0 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 3.0 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 19 | 3.0 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 19 | 3.0 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 2 | 3.0 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 11 | 3.0 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 11 | 3.0 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 11 | 3.0 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 11 | 3.0 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 11 | 3.0 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 11 | 3.0 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 11 | 3.0 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 11 | 3.0 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 11 | 3.0 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 14 | 3.0 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 14 | 3.0 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 14 | 3.0 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 14 | 3.0 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 14 | 3.0 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 14 | 3.0 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 14 | 3.0 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 14 | 3.0 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 14 | 3.0 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 1 | 3.0 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 4 | 3.0 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 4 | 3.0 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 4 | 3.0 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 4 | 3.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 4 | 3.0 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 4 | 3.0 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 4 | 3.0 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 4 | 3.0 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 4 | 3.0 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 19 | 3.0 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 19 | 3.0 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 19 | 3.0 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 19 | 3.0 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 19 | 3.0 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 19 | 3.0 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 19 | 3.0 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 19 | 3.0 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 19 | 3.0 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 10 | 3.0 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 13 | 3.0 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 4 | 3.0 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 4 | 3.0 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 4 | 3.0 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 4 | 3.0 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 4 | 3.0 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 4 | 3.0 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 13 | 3.0 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 13 | 3.0 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 13 | 3.0 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 13 | 3.0 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 13 | 3.0 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 13 | 3.0 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 12 | 3.0 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 12 | 3.0 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 12 | 3.0 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 20 | 3.0 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 20 | 3.0 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 20 | 3.0 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 20 | 3.0 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 20 | 3.0 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 20 | 3.0 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 20 | 3.0 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 20 | 3.0 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 20 | 3.0 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 17 | 3.0 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 19 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 15 | 2.99 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 15 | 2.99 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 18 | 2.99 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 18 | 2.99 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 4 | 2.99 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 4 | 2.99 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 2 | 2.99 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 2 | 2.99 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 15 | 2.99 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 15 | 2.99 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 18 | 2.99 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 18 | 2.99 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 4 | 2.99 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 4 | 2.99 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 3 | 2.99 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 3 | 2.99 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 3 | 2.99 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 3 | 2.99 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 3 | 2.99 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 3 | 2.99 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 16 | 2.99 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 16 | 2.99 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 13 | 2.99 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 13 | 2.99 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 16 | 2.99 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 16 | 2.99 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 12 | 2.99 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 12 | 2.99 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 16 | 2.99 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 16 | 2.99 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 16 | 2.99 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 16 | 2.99 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 16 | 2.99 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 16 | 2.99 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 2.99 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 20 | 2.99 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 15 | 2.99 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 15 | 2.99 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 15 | 2.99 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 15 | 2.99 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 15 | 2.99 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 15 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 4 | 2.99 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 4 | 2.99 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 4 | 2.99 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 4 | 2.99 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 4 | 2.99 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 4 | 2.99 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 4 | 2.99 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 4 | 2.99 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 20 | 2.99 |
| (1,8733) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 20 | 2.99 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 20 | 2.99 |
| (1,8733) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 20 | 2.99 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 19 | 2.99 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 19 | 2.99 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 11 | 2.99 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 11 | 2.99 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 11 | 2.99 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 11 | 2.99 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 17 | 2.99 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 17 | 2.99 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 10 | 2.99 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 10 | 2.99 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 10 | 2.99 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 10 | 2.99 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 2 | 2.99 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 2 | 2.99 |
| (1,8490) | 1:156:A:ILE:HG21 | 1:157:A:HIS:HA | 6 | 2.99 |
| (1,8490) | 1:156:A:ILE:HG22 | 1:157:A:HIS:HA | 6 | 2.99 |
| (1,8490) | 1:156:A:ILE:HG23 | 1:157:A:HIS:HA | 6 | 2.99 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 11 | 2.99 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 17 | 2.99 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 17 | 2.99 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 17 | 2.99 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 17 | 2.99 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 17 | 2.99 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 17 | 2.99 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 1 | 2.99 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 1 | 2.99 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 1 | 2.99 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 1 | 2.99 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 1 | 2.99 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 1 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 19 | 2.99 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 19 | 2.99 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 19 | 2.99 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 19 | 2.99 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 19 | 2.99 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 19 | 2.99 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 1 | 2.99 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 13 | 2.99 |
| (1,8115) | 1:93:A:ILE:HG21 | 1:97:A:LYS:H | 3 | 2.99 |
| (1,8115) | 1:93:A:ILE:HG22 | 1:97:A:LYS:H | 3 | 2.99 |
| (1,8115) | 1:93:A:ILE:HG23 | 1:97:A:LYS:H | 3 | 2.99 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 19 | 2.99 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 19 | 2.99 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 3 | 2.99 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 3 | 2.99 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 3 | 2.99 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 3 | 2.99 |
| (1,7615) | 1:26:A:ASN:HB2 | 1:27:A:HIS:H | 14 | 2.99 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 11 | 2.99 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 3 | 2.99 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 12 | 2.99 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 4 | 2.99 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 10 | 2.99 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 10 | 2.99 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 10 | 2.99 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 5 | 2.99 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 10 | 2.99 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 10 | 2.99 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 13 | 2.99 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 13 | 2.99 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 13 | 2.99 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 4 | 2.99 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 11 | 2.99 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 12 | 2.99 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 11 | 2.99 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 11 | 2.99 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 3 | 2.99 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 11 | 2.99 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 2 | 2.99 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 2 | 2.99 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 2 | 2.99 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 20 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 20 | 2.99 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 20 | 2.99 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 8 | 2.99 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 18 | 2.99 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 9 | 2.99 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 17 | 2.99 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 2 | 2.99 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 2 | 2.99 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 2 | 2.99 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 2 | 2.99 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 14 | 2.99 |
| (1,6783) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 14 | 2.99 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 14 | 2.99 |
| (1,6783) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 14 | 2.99 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 11 | 2.99 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 11 | 2.99 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 9 | 2.99 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 9 | 2.99 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 6 | 2.99 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 10 | 2.99 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 12 | 2.99 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 12 | 2.99 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 15 | 2.99 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 19 | 2.99 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 2 | 2.99 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 14 | 2.99 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 14 | 2.99 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 14 | 2.99 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 9 | 2.99 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 9 | 2.99 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 9 | 2.99 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 9 | 2.99 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 9 | 2.99 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 9 | 2.99 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 20 | 2.99 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 20 | 2.99 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 20 | 2.99 |
| (1,6381) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 1 | 2.99 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 12 | 2.99 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 12 | 2.99 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 9 | 2.99 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 9 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 9 | 2.99 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 9 | 2.99 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 9 | 2.99 |
| (1,6209) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 18 | 2.99 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 9 | 2.99 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 9 | 2.99 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 9 | 2.99 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 10 | 2.99 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 10 | 2.99 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 10 | 2.99 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 9 | 2.99 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 8 | 2.99 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 8 | 2.99 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 8 | 2.99 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 18 | 2.99 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 18 | 2.99 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 18 | 2.99 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 18 | 2.99 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 18 | 2.99 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 18 | 2.99 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 18 | 2.99 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 18 | 2.99 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 18 | 2.99 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 20 | 2.99 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 2 | 2.99 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 12 | 2.99 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 12 | 2.99 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 19 | 2.99 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 10 | 2.99 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 19 | 2.99 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 6 | 2.99 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 1 | 2.99 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 11 | 2.99 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 5 | 2.99 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 5 | 2.99 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 5 | 2.99 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 5 | 2.99 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 5 | 2.99 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 5 | 2.99 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 16 | 2.99 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 8 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 7 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 7 | 2.99 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 7 | 2.99 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 7 | 2.99 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 3 | 2.99 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 3 | 2.99 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 3 | 2.99 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 12 | 2.99 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 12 | 2.99 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 12 | 2.99 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 17 | 2.99 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 17 | 2.99 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 17 | 2.99 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 3 | 2.99 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 10 | 2.99 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 6 | 2.99 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 6 | 2.99 |
| (1,5242) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 6 | 2.99 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 2 | 2.99 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 15 | 2.99 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 15 | 2.99 |
| (1,4989) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 15 | 2.99 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 3 | 2.99 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 10 | 2.99 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 16 | 2.99 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 9 | 2.99 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 2 | 2.99 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 3 | 2.99 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 3 | 2.99 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 3 | 2.99 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 20 | 2.99 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 20 | 2.99 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 20 | 2.99 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 15 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 15 | 2.99 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 15 | 2.99 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 14 | 2.99 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 14 | 2.99 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 14 | 2.99 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 8 | 2.99 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 8 | 2.99 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 8 | 2.99 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 3 | 2.99 |
| (1,4705) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 12 | 2.99 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 8 | 2.99 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 8 | 2.99 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 19 | 2.99 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 11 | 2.99 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 11 | 2.99 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 18 | 2.99 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 18 | 2.99 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 4 | 2.99 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 4 | 2.99 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 3 | 2.99 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 3 | 2.99 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 3 | 2.99 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 3 | 2.99 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 3 | 2.99 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 3 | 2.99 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 17 | 2.99 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 17 | 2.99 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 17 | 2.99 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 17 | 2.99 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 17 | 2.99 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 17 | 2.99 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 9 | 2.99 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 9 | 2.99 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 12 | 2.99 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 12 | 2.99 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 4 | 2.99 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 15 | 2.99 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 15 | 2.99 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 18 | 2.99 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 18 | 2.99 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 10 | 2.99 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 2.99 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 2.99 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 2.99 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 2.99 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 2.99 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 3 | 2.99 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 3 | 2.99 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 3 | 2.99 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 3 | 2.99 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 3 | 2.99 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 3 | 2.99 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 13 | 2.99 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 13 | 2.99 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 16 | 2.99 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 16 | 2.99 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 13 | 2.99 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 13 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 1 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 1 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 3 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 3 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 10 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 10 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 11 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 11 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 17 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 17 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 19 | 2.99 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 19 | 2.99 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 13 | 2.99 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 8 | 2.99 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 8 | 2.99 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 17 | 2.99 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 8 | 2.99 |
| (1,4116) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 3 | 2.99 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 15 | 2.99 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 16 | 2.99 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 16 | 2.99 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 16 | 2.99 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 16 | 2.99 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 16 | 2.99 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 16 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 19 | 2.99 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 6 | 2.99 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 6 | 2.99 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 13 | 2.99 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 13 | 2.99 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 13 | 2.99 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 1 | 2.99 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 5 | 2.99 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 5 | 2.99 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 14 | 2.99 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 14 | 2.99 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 7 | 2.99 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 7 | 2.99 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 9 | 2.99 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 15 | 2.99 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 15 | 2.99 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 15 | 2.99 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 15 | 2.99 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 15 | 2.99 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 15 | 2.99 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 4 | 2.99 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 4 | 2.99 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 2.99 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 2.99 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 2.99 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 4 | 2.99 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 4 | 2.99 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 4 | 2.99 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 4 | 2.99 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 4 | 2.99 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 4 | 2.99 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 13 | 2.99 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 13 | 2.99 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 10 | 2.99 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 19 | 2.99 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 19 | 2.99 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 17 | 2.99 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 17 | 2.99 |
| (1,3599) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 18 | 2.99 |
| (1,3599) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 18 | 2.99 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 2 | 2.99 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 2 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 10 | 2.99 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 10 | 2.99 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 19 | 2.99 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 19 | 2.99 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 11 | 2.99 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 11 | 2.99 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 2 | 2.99 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 2 | 2.99 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 6 | 2.99 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 17 | 2.99 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 16 | 2.99 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 16 | 2.99 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 12 | 2.99 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 12 | 2.99 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 12 | 2.99 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 13 | 2.99 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 13 | 2.99 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 13 | 2.99 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 15 | 2.99 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 12 | 2.99 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 5 | 2.99 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 7 | 2.99 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 10 | 2.99 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 11 | 2.99 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 16 | 2.99 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 19 | 2.99 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 15 | 2.99 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 15 | 2.99 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 12 | 2.99 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 5 | 2.99 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 1 | 2.99 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 16 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 1 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 2 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 3 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 4 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 5 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 6 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 10 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 11 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 12 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 14 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 17 | 2.99 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 19 | 2.99 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 8 | 2.99 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 12 | 2.99 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 12 | 2.99 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 12 | 2.99 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 11 | 2.99 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 13 | 2.99 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 3 | 2.99 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 11 | 2.99 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 11 | 2.99 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 11 | 2.99 |
| (1,2978) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 5 | 2.99 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 3 | 2.99 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 11 | 2.99 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 12 | 2.99 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 2 | 2.99 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 2 | 2.99 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 2 | 2.99 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 20 | 2.99 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 20 | 2.99 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 20 | 2.99 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 8 | 2.99 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 2 | 2.99 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 18 | 2.99 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 2 | 2.99 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 17 | 2.99 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 14 | 2.99 |
| (1,2742) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 14 | 2.99 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 14 | 2.99 |
| (1,2742) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 14 | 2.99 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 11 | 2.99 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 11 | 2.99 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 9 | 2.99 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 9 | 2.99 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 13 | 2.99 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 13 | 2.99 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 13 | 2.99 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 13 | 2.99 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 13 | 2.99 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 13 | 2.99 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 13 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 13 | 2.99 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 13 | 2.99 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 6 | 2.99 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 9 | 2.99 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 14 | 2.99 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 20 | 2.99 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 9 | 2.99 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 12 | 2.99 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 6 | 2.99 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 14 | 2.99 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 18 | 2.99 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 15 | 2.99 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 15 | 2.99 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 15 | 2.99 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 15 | 2.99 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 15 | 2.99 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 15 | 2.99 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 12 | 2.99 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 12 | 2.99 |
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 19 | 2.99 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 13 | 2.99 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 19 | 2.99 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 2 | 2.99 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 14 | 2.99 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 14 | 2.99 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 14 | 2.99 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 4 | 2.99 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 5 | 2.99 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 17 | 2.99 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 6 | 2.99 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 11 | 2.99 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 13 | 2.99 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 18 | 2.99 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 2 | 2.99 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 5 | 2.99 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 6 | 2.99 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 2 | 2.99 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 9 | 2.99 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 9 | 2.99 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 9 | 2.99 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 7 | 2.99 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 9 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 9 | 2.99 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 9 | 2.99 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 20 | 2.99 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 20 | 2.99 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 20 | 2.99 |
| (1,2082) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 1 | 2.99 |
| (1,2063) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 6 | 2.99 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 12 | 2.99 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 12 | 2.99 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 12 | 2.99 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 12 | 2.99 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 12 | 2.99 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 12 | 2.99 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 12 | 2.99 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 12 | 2.99 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 12 | 2.99 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 4 | 2.99 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 4 | 2.99 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 4 | 2.99 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 9 | 2.99 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 9 | 2.99 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 9 | 2.99 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 7 | 2.99 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 7 | 2.99 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 7 | 2.99 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 7 | 2.99 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 13 | 2.99 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 9 | 2.99 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 9 | 2.99 |
| (1,1836) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 18 | 2.99 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 15 | 2.99 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 15 | 2.99 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 15 | 2.99 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 9 | 2.99 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 9 | 2.99 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 9 | 2.99 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 7 | 2.99 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 10 | 2.99 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 12 | 2.99 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 10 | 2.99 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 10 | 2.99 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 10 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 9 | 2.99 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 8 | 2.99 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 8 | 2.99 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 8 | 2.99 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 15 | 2.99 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 13 | 2.99 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 13 | 2.99 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 13 | 2.99 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 18 | 2.99 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 18 | 2.99 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 18 | 2.99 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 18 | 2.99 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 18 | 2.99 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 18 | 2.99 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 18 | 2.99 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 18 | 2.99 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 18 | 2.99 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 20 | 2.99 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 16 | 2.99 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 2 | 2.99 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 11 | 2.99 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 14 | 2.99 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 17 | 2.99 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 2 | 2.99 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 2 | 2.99 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 2 | 2.99 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 15 | 2.99 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 15 | 2.99 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 15 | 2.99 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 9 | 2.99 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 13 | 2.99 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 20 | 2.99 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 9 | 2.99 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 9 | 2.99 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 2 | 2.99 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 19 | 2.99 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 12 | 2.99 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 18 | 2.99 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 2 | 2.99 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 11 | 2.99 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 15 | 2.99 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 2 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 11 | 2.99 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 15 | 2.99 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 12 | 2.99 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 10 | 2.99 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 12 | 2.99 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 12 | 2.99 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 12 | 2.99 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 11 | 2.99 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 11 | 2.99 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 14 | 2.99 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 14 | 2.99 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 12 | 2.99 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 12 | 2.99 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 13 | 2.99 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 5 | 2.99 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 5 | 2.99 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 5 | 2.99 |
| (1,1278) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 18 | 2.99 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 10 | 2.99 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 11 | 2.99 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 4 | 2.99 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 14 | 2.99 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 19 | 2.99 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 12 | 2.99 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 12 | 2.99 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 12 | 2.99 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 1 | 2.99 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 1 | 2.99 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 1 | 2.99 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 4 | 2.99 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 2.99 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 10 | 2.99 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 19 | 2.99 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 20 | 2.99 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 6 | 2.99 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 1 | 2.99 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 13 | 2.99 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 13 | 2.99 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 11 | 2.99 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 5 | 2.99 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 5 | 2.99 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 5 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 5 | 2.99 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 5 | 2.99 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 5 | 2.99 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 1 | 2.99 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 5 | 2.99 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 14 | 2.99 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 7 | 2.99 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 11 | 2.99 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 16 | 2.99 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 17 | 2.99 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 4 | 2.99 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 17 | 2.99 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 8 | 2.99 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 2 | 2.99 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 5 | 2.99 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 8 | 2.99 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 9 | 2.99 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 1 | 2.99 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 1 | 2.99 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 1 | 2.99 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 5 | 2.99 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 5 | 2.99 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 5 | 2.99 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 5 | 2.99 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 5 | 2.99 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 5 | 2.99 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 10 | 2.99 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 19 | 2.99 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 12 | 2.99 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 8 | 2.99 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 7 | 2.99 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 7 | 2.99 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 1 | 2.99 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 1 | 2.99 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 1 | 2.99 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 1 | 2.99 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 1 | 2.99 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 1 | 2.99 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 6 | 2.99 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 6 | 2.99 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 6 | 2.99 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 6 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 6 | 2.99 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 6 | 2.99 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 13 | 2.99 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 13 | 2.99 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 13 | 2.99 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 16 | 2.98 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 8 | 2.98 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 3 | 2.98 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 4 | 2.98 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 13 | 2.98 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 13 | 2.98 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 13 | 2.98 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 13 | 2.98 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 13 | 2.98 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 13 | 2.98 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 12 | 2.98 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 12 | 2.98 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 12 | 2.98 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 12 | 2.98 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 12 | 2.98 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 12 | 2.98 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 11 | 2.98 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 11 | 2.98 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 11 | 2.98 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 11 | 2.98 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 3 | 2.98 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 3 | 2.98 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 19 | 2.98 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 19 | 2.98 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 2.98 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 2.98 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 3 | 2.98 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 3 | 2.98 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 6 | 2.98 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 6 | 2.98 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 18 | 2.98 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 18 | 2.98 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 20 | 2.98 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 20 | 2.98 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 14 | 2.98 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 14 | 2.98 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 14 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 14 | 2.98 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 14 | 2.98 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 14 | 2.98 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 9 | 2.98 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 9 | 2.98 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 3 | 2.98 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 3 | 2.98 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 3 | 2.98 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 3 | 2.98 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 3 | 2.98 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 3 | 2.98 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 7 | 2.98 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 7 | 2.98 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 18 | 2.98 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 18 | 2.98 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 9 | 2.98 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 9 | 2.98 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 11 | 2.98 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 11 | 2.98 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 10 | 2.98 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 10 | 2.98 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 11 | 2.98 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 11 | 2.98 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 5 | 2.98 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 5 | 2.98 |
| (1,8787) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 7 | 2.98 |
| (1,8787) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 7 | 2.98 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 1 | 2.98 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 1 | 2.98 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 19 | 2.98 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 19 | 2.98 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 3 | 2.98 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 3 | 2.98 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 5 | 2.98 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 5 | 2.98 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 1 | 2.98 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 1 | 2.98 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 3 | 2.98 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 3 | 2.98 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 14 | 2.98 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 14 | 2.98 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 14 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 14 | 2.98 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 14 | 2.98 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 14 | 2.98 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 18 | 2.98 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 18 | 2.98 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 14 | 2.98 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 14 | 2.98 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 4 | 2.98 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 4 | 2.98 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 13 | 2.98 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 13 | 2.98 |
| (1,8402) | 1:141:A:LEU:HD11 | 1:142:A:ARG:H | 12 | 2.98 |
| (1,8402) | 1:141:A:LEU:HD12 | 1:142:A:ARG:H | 12 | 2.98 |
| (1,8402) | 1:141:A:LEU:HD13 | 1:142:A:ARG:H | 12 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 3 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 3 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 3 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 3 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 3 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 3 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 16 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 16 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 16 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 16 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 16 | 2.98 |
| (1,8353) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 16 | 2.98 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 20 | 2.98 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 14 | 2.98 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 5 | 2.98 |
| (1,8169) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 5 | 2.98 |
| (1,8155) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 8 | 2.98 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 7 | 2.98 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD21 | 19 | 2.98 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD22 | 19 | 2.98 |
| (1,7826) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD23 | 19 | 2.98 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD21 | 19 | 2.98 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD22 | 19 | 2.98 |
| (1,7826) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD23 | 19 | 2.98 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD21 | 19 | 2.98 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD22 | 19 | 2.98 |
| (1,7826) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD23 | 19 | 2.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 8 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 8 | 2.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 8 | 2.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 8 | 2.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 8 | 2.98 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 8 | 2.98 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 1 | 2.98 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 5 | 2.98 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 5 | 2.98 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 13 | 2.98 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 13 | 2.98 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 13 | 2.98 |
| (1,7582) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 12 | 2.98 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 6 | 2.98 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 17 | 2.98 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 17 | 2.98 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 17 | 2.98 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 19 | 2.98 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 19 | 2.98 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 19 | 2.98 |
| (1,7313) | 1:40:A:ASN:HA | 1:43:A:SER:H | 19 | 2.98 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 9 | 2.98 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 16 | 2.98 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 12 | 2.98 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 1 | 2.98 |
| (1,7009) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 9 | 2.98 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 3 | 2.98 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 8 | 2.98 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 14 | 2.98 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 14 | 2.98 |
| (1,6768) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 2 | 2.98 |
| (1,6768) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 2 | 2.98 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 12 | 2.98 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 17 | 2.98 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 20 | 2.98 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 15 | 2.98 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 9 | 2.98 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 9 | 2.98 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 9 | 2.98 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 10 | 2.98 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 15 | 2.98 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 15 | 2.98 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 15 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 18 | 2.98 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 18 | 2.98 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 18 | 2.98 |
| (1,6468) | 1:162:A:THR:HB | 1:163:A:GLU:H | 9 | 2.98 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 16 | 2.98 |
| (1,6359) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 12 | 2.98 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 2 | 2.98 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 2 | 2.98 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 16 | 2.98 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 16 | 2.98 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 17 | 2.98 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 17 | 2.98 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 17 | 2.98 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 13 | 2.98 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 7 | 2.98 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 7 | 2.98 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 7 | 2.98 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 7 | 2.98 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 7 | 2.98 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 7 | 2.98 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 7 | 2.98 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 7 | 2.98 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 7 | 2.98 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 4 | 2.98 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 4 | 2.98 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 16 | 2.98 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 16 | 2.98 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 16 | 2.98 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 19 | 2.98 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 19 | 2.98 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 19 | 2.98 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 19 | 2.98 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 19 | 2.98 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 19 | 2.98 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 12 | 2.98 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 12 | 2.98 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 12 | 2.98 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 15 | 2.98 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 15 | 2.98 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 15 | 2.98 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 1 | 2.98 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 1 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 9 | 2.98 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 10 | 2.98 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 3 | 2.98 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 11 | 2.98 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 8 | 2.98 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 17 | 2.98 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 16 | 2.98 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 17 | 2.98 |
| (1,5636) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 1 | 2.98 |
| (1,5636) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 1 | 2.98 |
| (1,5636) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 1 | 2.98 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 14 | 2.98 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 19 | 2.98 |
| (1,5565) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 3 | 2.98 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 17 | 2.98 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 17 | 2.98 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 17 | 2.98 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 17 | 2.98 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 17 | 2.98 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 17 | 2.98 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 17 | 2.98 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 17 | 2.98 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 17 | 2.98 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 4 | 2.98 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 4 | 2.98 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 4 | 2.98 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 1 | 2.98 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 11 | 2.98 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 12 | 2.98 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 12 | 2.98 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 12 | 2.98 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 8 | 2.98 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 8 | 2.98 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 8 | 2.98 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 13 | 2.98 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 13 | 2.98 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 13 | 2.98 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 12 | 2.98 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 10 | 2.98 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 10 | 2.98 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 10 | 2.98 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 1 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 1 | 2.98 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 1 | 2.98 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 14 | 2.98 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 16 | 2.98 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 4 | 2.98 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 4 | 2.98 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 4 | 2.98 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 1 | 2.98 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 11 | 2.98 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 12 | 2.98 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 8 | 2.98 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 8 | 2.98 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 8 | 2.98 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 12 | 2.98 |
| (1,4900) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 17 | 2.98 |
| (1,4900) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 17 | 2.98 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 17 | 2.98 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 17 | 2.98 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 8 | 2.98 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 8 | 2.98 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 8 | 2.98 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 8 | 2.98 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 8 | 2.98 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 8 | 2.98 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 8 | 2.98 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 8 | 2.98 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 8 | 2.98 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 10 | 2.98 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 10 | 2.98 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 10 | 2.98 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 10 | 2.98 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 10 | 2.98 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 10 | 2.98 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 10 | 2.98 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 10 | 2.98 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 10 | 2.98 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 11 | 2.98 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 11 | 2.98 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 11 | 2.98 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 3 | 2.98 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 4 | 2.98 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 4 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 4 | 2.98 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 1 | 2.98 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 1 | 2.98 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 6 | 2.98 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 6 | 2.98 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 18 | 2.98 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 18 | 2.98 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 10 | 2.98 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 10 | 2.98 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 19 | 2.98 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 19 | 2.98 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 19 | 2.98 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 6 | 2.98 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 16 | 2.98 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 16 | 2.98 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 18 | 2.98 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 18 | 2.98 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 18 | 2.98 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 18 | 2.98 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 18 | 2.98 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 18 | 2.98 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 3 | 2.98 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 3 | 2.98 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 19 | 2.98 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 19 | 2.98 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 2.98 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 2.98 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 20 | 2.98 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 20 | 2.98 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 20 | 2.98 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 20 | 2.98 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 6 | 2.98 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 6 | 2.98 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 13 | 2.98 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 13 | 2.98 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 18 | 2.98 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 18 | 2.98 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 20 | 2.98 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 20 | 2.98 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 14 | 2.98 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 14 | 2.98 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 15 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 15 | 2.98 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 2 | 2.98 |
| (1,4246) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 5 | 2.98 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 14 | 2.98 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 14 | 2.98 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 14 | 2.98 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 14 | 2.98 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 14 | 2.98 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 14 | 2.98 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 14 | 2.98 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 14 | 2.98 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 16 | 2.98 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 16 | 2.98 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 16 | 2.98 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 16 | 2.98 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 18 | 2.98 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 18 | 2.98 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 18 | 2.98 |
| (1,4129) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 12 | 2.98 |
| (1,4129) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 12 | 2.98 |
| (1,4129) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 12 | 2.98 |
| (1,4049) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 18 | 2.98 |
| (1,4049) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 18 | 2.98 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 11 | 2.98 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 6 | 2.98 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 11 | 2.98 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 2.98 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 2.98 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 2.98 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 9 | 2.98 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 9 | 2.98 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 9 | 2.98 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 2 | 2.98 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 9 | 2.98 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 9 | 2.98 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 15 | 2.98 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 15 | 2.98 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 10 | 2.98 |
| (1,3899) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 5 | 2.98 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 5 | 2.98 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 6 | 2.98 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 9 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 9 | 2.98 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 11 | 2.98 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 11 | 2.98 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 7 | 2.98 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 7 | 2.98 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 7 | 2.98 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 7 | 2.98 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 17 | 2.98 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 17 | 2.98 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 17 | 2.98 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 17 | 2.98 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 15 | 2.98 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 15 | 2.98 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 10 | 2.98 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 10 | 2.98 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 11 | 2.98 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 11 | 2.98 |
| (1,3752) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 7 | 2.98 |
| (1,3752) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 7 | 2.98 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 9 | 2.98 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 9 | 2.98 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 1 | 2.98 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 1 | 2.98 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 3 | 2.98 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 19 | 2.98 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 19 | 2.98 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 15 | 2.98 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 15 | 2.98 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 15 | 2.98 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 5 | 2.98 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 3 | 2.98 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 3 | 2.98 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 5 | 2.98 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 5 | 2.98 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 3 | 2.98 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 3 | 2.98 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 1 | 2.98 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 1 | 2.98 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 2.98 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 2.98 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 1 | 2.98 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 1 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 16 | 2.98 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 16 | 2.98 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 2.98 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 18 | 2.98 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 18 | 2.98 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 14 | 2.98 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 14 | 2.98 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 2.98 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 4 | 2.98 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 1 | 2.98 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 3 | 2.98 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 3 | 2.98 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 3 | 2.98 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 3 | 2.98 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 3 | 2.98 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 3 | 2.98 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 3 | 2.98 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 3 | 2.98 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 3 | 2.98 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 8 | 2.98 |
| (1,3340) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 17 | 2.98 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 13 | 2.98 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 6 | 2.98 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 2 | 2.98 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 14 | 2.98 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 7 | 2.98 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 8 | 2.98 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 9 | 2.98 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 13 | 2.98 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 15 | 2.98 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 16 | 2.98 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 18 | 2.98 |
| (1,3168) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 20 | 2.98 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 19 | 2.98 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 19 | 2.98 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 19 | 2.98 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 2.98 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 3 | 2.98 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 10 | 2.98 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 10 | 2.98 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 12 | 2.98 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 17 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3054) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 9 | 2.98 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 16 | 2.98 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 12 | 2.98 |
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 8 | 2.98 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 3 | 2.98 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 1 | 2.98 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 9 | 2.98 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 13 | 2.98 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 8 | 2.98 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 12 | 2.98 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 14 | 2.98 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 14 | 2.98 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 1 | 2.98 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 1 | 2.98 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 1 | 2.98 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 1 | 2.98 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 1 | 2.98 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 1 | 2.98 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 1 | 2.98 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 1 | 2.98 |
| (1,2720) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 2 | 2.98 |
| (1,2720) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 2 | 2.98 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 16 | 2.98 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 16 | 2.98 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 19 | 2.98 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 12 | 2.98 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 9 | 2.98 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 20 | 2.98 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 1 | 2.98 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 3 | 2.98 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 4 | 2.98 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 5 | 2.98 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 15 | 2.98 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 9 | 2.98 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 9 | 2.98 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 9 | 2.98 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 4 | 2.98 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 17 | 2.98 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 8 | 2.98 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 16 | 2.98 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 10 | 2.98 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 15 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 15 | 2.98 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 15 | 2.98 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 9 | 2.98 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 18 | 2.98 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 18 | 2.98 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 18 | 2.98 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 7 | 2.98 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 7 | 2.98 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 16 | 2.98 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 14 | 2.98 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 5 | 2.98 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 6 | 2.98 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 6 | 2.98 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 6 | 2.98 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 2 | 2.98 |
| (1,2228) | 1:162:A:THR:HB | 1:163:A:GLU:H | 9 | 2.98 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 16 | 2.98 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 2.98 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 2.98 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 2.98 |
| (1,2042) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 12 | 2.98 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 16 | 2.98 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 16 | 2.98 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 17 | 2.98 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 17 | 2.98 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 17 | 2.98 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 7 | 2.98 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 4 | 2.98 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 3 | 2.98 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 2 | 2.98 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 5 | 2.98 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 18 | 2.98 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 7 | 2.98 |
| (1,1828) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 14 | 2.98 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 8 | 2.98 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 4 | 2.98 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 8 | 2.98 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 9 | 2.98 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 13 | 2.98 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 7 | 2.98 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 7 | 2.98 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 7 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 7 | 2.98 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 7 | 2.98 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 7 | 2.98 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 7 | 2.98 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 7 | 2.98 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 7 | 2.98 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 4 | 2.98 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 4 | 2.98 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 1 | 2.98 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 7 | 2.98 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 10 | 2.98 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 13 | 2.98 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 2 | 2.98 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 2 | 2.98 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 5 | 2.98 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 8 | 2.98 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 11 | 2.98 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 15 | 2.98 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 18 | 2.98 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 1 | 2.98 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 13 | 2.98 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 18 | 2.98 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 19 | 2.98 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 9 | 2.98 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 4 | 2.98 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 4 | 2.98 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 1 | 2.98 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 13 | 2.98 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 13 | 2.98 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 13 | 2.98 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 19 | 2.98 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 19 | 2.98 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 19 | 2.98 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 19 | 2.98 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 19 | 2.98 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 19 | 2.98 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 3 | 2.98 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 3 | 2.98 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 12 | 2.98 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 12 | 2.98 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 12 | 2.98 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 15 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 15 | 2.98 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 15 | 2.98 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 1 | 2.98 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 16 | 2.98 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 9 | 2.98 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 10 | 2.98 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 16 | 2.98 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 20 | 2.98 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 7 | 2.98 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 8 | 2.98 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 3 | 2.98 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 11 | 2.98 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 5 | 2.98 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 5 | 2.98 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 5 | 2.98 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 3 | 2.98 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 8 | 2.98 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 13 | 2.98 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 17 | 2.98 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 16 | 2.98 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 4 | 2.98 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 9 | 2.98 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 11 | 2.98 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 10 | 2.98 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 17 | 2.98 |
| (1,854) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 1 | 2.98 |
| (1,854) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 1 | 2.98 |
| (1,854) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 1 | 2.98 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 7 | 2.98 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 11 | 2.98 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 13 | 2.98 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 18 | 2.98 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 20 | 2.98 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 14 | 2.98 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 19 | 2.98 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 3 | 2.98 |
| (1,736) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 3 | 2.98 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 10 | 2.98 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 10 | 2.98 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 10 | 2.98 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 17 | 2.98 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 17 | 2.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 17 | 2.98 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 17 | 2.98 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 17 | 2.98 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 17 | 2.98 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 17 | 2.98 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 17 | 2.98 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 17 | 2.98 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 4 | 2.98 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 4 | 2.98 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 4 | 2.98 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 1 | 2.98 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 11 | 2.98 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 18 | 2.98 |
| (1,640) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 13 | 2.98 |
| (1,558) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 12 | 2.98 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 12 | 2.98 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 12 | 2.98 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 12 | 2.98 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 7 | 2.98 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 7 | 2.98 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 7 | 2.98 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 19 | 2.98 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 6 | 2.98 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 6 | 2.98 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 6 | 2.98 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 10 | 2.98 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 14 | 2.98 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 7 | 2.98 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 12 | 2.98 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 15 | 2.98 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 15 | 2.98 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 15 | 2.98 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 16 | 2.98 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 16 | 2.98 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 16 | 2.98 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 12 | 2.98 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 18 | 2.98 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 3 | 2.98 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 3 | 2.98 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 3 | 2.98 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 12 | 2.97 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 18 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 18 | 2.97 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 18 | 2.97 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 6 | 2.97 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 6 | 2.97 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 13 | 2.97 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 13 | 2.97 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 15 | 2.97 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 15 | 2.97 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 1 | 2.97 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 1 | 2.97 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 3 | 2.97 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 3 | 2.97 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 3 | 2.97 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 3 | 2.97 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 11 | 2.97 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 11 | 2.97 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 11 | 2.97 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 11 | 2.97 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 15 | 2.97 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 15 | 2.97 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 8 | 2.97 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 8 | 2.97 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 8 | 2.97 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 8 | 2.97 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 8 | 2.97 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 8 | 2.97 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 9 | 2.97 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 9 | 2.97 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 4 | 2.97 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 4 | 2.97 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 12 | 2.97 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 12 | 2.97 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 12 | 2.97 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 12 | 2.97 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 12 | 2.97 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 12 | 2.97 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 3 | 2.97 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 3 | 2.97 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 9 | 2.97 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 9 | 2.97 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 9 | 2.97 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 9 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 9 | 2.97 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 9 | 2.97 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 15 | 2.97 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 15 | 2.97 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 15 | 2.97 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 15 | 2.97 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 11 | 2.97 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 11 | 2.97 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 20 | 2.97 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 20 | 2.97 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 8 | 2.97 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 8 | 2.97 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 8 | 2.97 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 7 | 2.97 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 7 | 2.97 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 7 | 2.97 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 7 | 2.97 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 7 | 2.97 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 7 | 2.97 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 15 | 2.97 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 15 | 2.97 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 15 | 2.97 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 15 | 2.97 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 15 | 2.97 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 15 | 2.97 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 19 | 2.97 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 17 | 2.97 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD21 | 12 | 2.97 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD22 | 12 | 2.97 |
| (1,8174) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD23 | 12 | 2.97 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 15 | 2.97 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 15 | 2.97 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 15 | 2.97 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 15 | 2.97 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 15 | 2.97 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 15 | 2.97 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 15 | 2.97 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 15 | 2.97 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 15 | 2.97 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 10 | 2.97 |
| (1,7837) | 1:61:A:LEU:H | 1:62:A:VAL:H | 6 | 2.97 |
| (1,7776) | 1:57:A:CYS:HB2 | 1:160:A:LEU:H | 18 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 14 | 2.97 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 14 | 2.97 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 14 | 2.97 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 2 | 2.97 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 5 | 2.97 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 13 | 2.97 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 16 | 2.97 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 18 | 2.97 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 18 | 2.97 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 18 | 2.97 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 18 | 2.97 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 18 | 2.97 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 18 | 2.97 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 14 | 2.97 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 5 | 2.97 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 8 | 2.97 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 20 | 2.97 |
| (1,7213) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 19 | 2.97 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 6 | 2.97 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 6 | 2.97 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 18 | 2.97 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 14 | 2.97 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 14 | 2.97 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 14 | 2.97 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 13 | 2.97 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 13 | 2.97 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 1 | 2.97 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 1 | 2.97 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 4 | 2.97 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 4 | 2.97 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 11 | 2.97 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 11 | 2.97 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 1 | 2.97 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 18 | 2.97 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 2 | 2.97 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 10 | 2.97 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 20 | 2.97 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 20 | 2.97 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 14 | 2.97 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 14 | 2.97 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 14 | 2.97 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 14 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 2 | 2.97 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 3 | 2.97 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 3 | 2.97 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 3 | 2.97 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 12 | 2.97 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 5 | 2.97 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 15 | 2.97 |
| (1,6606) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 18 | 2.97 |
| (1,6573) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 5 | 2.97 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 7 | 2.97 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 7 | 2.97 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 7 | 2.97 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 11 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 8 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 8 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 8 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 8 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 8 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 8 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 8 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 8 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 8 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 13 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 13 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 13 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 13 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 13 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 13 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 13 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 13 | 2.97 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 13 | 2.97 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 10 | 2.97 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 10 | 2.97 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 10 | 2.97 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 5 | 2.97 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 1 | 2.97 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 1 | 2.97 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 4 | 2.97 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 4 | 2.97 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 18 | 2.97 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 11 | 2.97 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 2 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 2 | 2.97 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 18 | 2.97 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 18 | 2.97 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 18 | 2.97 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 6 | 2.97 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 6 | 2.97 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 6 | 2.97 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 20 | 2.97 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 20 | 2.97 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 20 | 2.97 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 4 | 2.97 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 5 | 2.97 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 19 | 2.97 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 19 | 2.97 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 19 | 2.97 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 1 | 2.97 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 8 | 2.97 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 8 | 2.97 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 8 | 2.97 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 8 | 2.97 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 8 | 2.97 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 8 | 2.97 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 8 | 2.97 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 8 | 2.97 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 8 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 7 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 7 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 7 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 7 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 7 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 7 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 10 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 10 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 10 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 10 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 10 | 2.97 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 10 | 2.97 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 4 | 2.97 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 7 | 2.97 |
| (1,5750) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 8 | 2.97 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 9 | 2.97 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 3 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 6 | 2.97 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 8 | 2.97 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 20 | 2.97 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 19 | 2.97 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 9 | 2.97 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 11 | 2.97 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 2 | 2.97 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 3 | 2.97 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 3 | 2.97 |
| (1,5454) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 3 | 2.97 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 14 | 2.97 |
| (1,5432) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 14 | 2.97 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 14 | 2.97 |
| (1,5432) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 14 | 2.97 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 14 | 2.97 |
| (1,5432) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 14 | 2.97 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 12 | 2.97 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 12 | 2.97 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 12 | 2.97 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 17 | 2.97 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 17 | 2.97 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 17 | 2.97 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 3 | 2.97 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 3 | 2.97 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 3 | 2.97 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 3 | 2.97 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 16 | 2.97 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 16 | 2.97 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 16 | 2.97 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 11 | 2.97 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 18 | 2.97 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 15 | 2.97 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 5 | 2.97 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 12 | 2.97 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 9 | 2.97 |
| (1,4946) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 9 | 2.97 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 7 | 2.97 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 12 | 2.97 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 12 | 2.97 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 12 | 2.97 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 13 | 2.97 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 13 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 13 | 2.97 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 17 | 2.97 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 10 | 2.97 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 10 | 2.97 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 10 | 2.97 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 18 | 2.97 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 18 | 2.97 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 5 | 2.97 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 5 | 2.97 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 13 | 2.97 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 13 | 2.97 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 8 | 2.97 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 8 | 2.97 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 15 | 2.97 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 15 | 2.97 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 8 | 2.97 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 8 | 2.97 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 1 | 2.97 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 1 | 2.97 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 11 | 2.97 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 11 | 2.97 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 6 | 2.97 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 7 | 2.97 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 10 | 2.97 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 10 | 2.97 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 11 | 2.97 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 2 | 2.97 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 13 | 2.97 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 18 | 2.97 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 19 | 2.97 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 19 | 2.97 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 11 | 2.97 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 11 | 2.97 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 11 | 2.97 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 11 | 2.97 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 8 | 2.97 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 8 | 2.97 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 8 | 2.97 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 8 | 2.97 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 8 | 2.97 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 8 | 2.97 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 17 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 8 | 2.97 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 8 | 2.97 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 19 | 2.97 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 19 | 2.97 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 3 | 2.97 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 2.97 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 14 | 2.97 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 4 | 2.97 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 4 | 2.97 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 11 | 2.97 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 2 | 2.97 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 2 | 2.97 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 2 | 2.97 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 3 | 2.97 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 3 | 2.97 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 9 | 2.97 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 9 | 2.97 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 9 | 2.97 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 9 | 2.97 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 9 | 2.97 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 9 | 2.97 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 11 | 2.97 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 11 | 2.97 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 1 | 2.97 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 1 | 2.97 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 15 | 2.97 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 15 | 2.97 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 15 | 2.97 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 15 | 2.97 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 15 | 2.97 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 15 | 2.97 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 11 | 2.97 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 11 | 2.97 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 11 | 2.97 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 3 | 2.97 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 3 | 2.97 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 3 | 2.97 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 6 | 2.97 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 6 | 2.97 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 2.97 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 7 | 2.97 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 18 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 18 | 2.97 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 13 | 2.97 |
| (1,3380) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 19 | 2.97 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 18 | 2.97 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 2 | 2.97 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 17 | 2.97 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 8 | 2.97 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 5 | 2.97 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 5 | 2.97 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 5 | 2.97 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 5 | 2.97 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 5 | 2.97 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 5 | 2.97 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 1 | 2.97 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 1 | 2.97 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 1 | 2.97 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 6 | 2.97 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 6 | 2.97 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 3 | 2.97 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 7 | 2.97 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 7 | 2.97 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 7 | 2.97 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 7 | 2.97 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 10 | 2.97 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 7 | 2.97 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 14 | 2.97 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 14 | 2.97 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 14 | 2.97 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 14 | 2.97 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 13 | 2.97 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 13 | 2.97 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 11 | 2.97 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 1 | 2.97 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 1 | 2.97 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 4 | 2.97 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 4 | 2.97 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 11 | 2.97 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 11 | 2.97 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 12 | 2.97 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 7 | 2.97 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 1 | 2.97 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 18 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 2 | 2.97 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 10 | 2.97 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 20 | 2.97 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 20 | 2.97 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 14 | 2.97 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 14 | 2.97 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 14 | 2.97 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 14 | 2.97 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 5 | 2.97 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 5 | 2.97 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 2 | 2.97 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 9 | 2.97 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 3 | 2.97 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 3 | 2.97 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 3 | 2.97 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 4 | 2.97 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 12 | 2.97 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 14 | 2.97 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 1 | 2.97 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 19 | 2.97 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 16 | 2.97 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 20 | 2.97 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 17 | 2.97 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 5 | 2.97 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 15 | 2.97 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 2 | 2.97 |
| (1,2432) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 5 | 2.97 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 9 | 2.97 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 18 | 2.97 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 7 | 2.97 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 7 | 2.97 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 7 | 2.97 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 11 | 2.97 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 4 | 2.97 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 17 | 2.97 |
| (1,2320) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 3 | 2.97 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 2 | 2.97 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 7 | 2.97 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 15 | 2.97 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 10 | 2.97 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 17 | 2.97 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 4 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 12 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 8 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 8 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 8 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 8 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 8 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 8 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 8 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 8 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 8 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 13 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 13 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 13 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 13 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 13 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 13 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 13 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 13 | 2.97 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 13 | 2.97 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 10 | 2.97 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 10 | 2.97 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 10 | 2.97 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 1 | 2.97 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 1 | 2.97 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 1 | 2.97 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 4 | 2.97 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 4 | 2.97 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 18 | 2.97 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 3 | 2.97 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 3 | 2.97 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 3 | 2.97 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 11 | 2.97 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 2 | 2.97 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 2 | 2.97 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 3 | 2.97 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 18 | 2.97 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 18 | 2.97 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 18 | 2.97 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 2 | 2.97 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 2 | 2.97 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 2 | 2.97 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 5 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 5 | 2.97 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 5 | 2.97 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 19 | 2.97 |
| (1,1714) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 13 | 2.97 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 19 | 2.97 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 19 | 2.97 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 19 | 2.97 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 6 | 2.97 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 6 | 2.97 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 6 | 2.97 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 20 | 2.97 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 20 | 2.97 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 20 | 2.97 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 3 | 2.97 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 9 | 2.97 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 9 | 2.97 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 9 | 2.97 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 4 | 2.97 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 6 | 2.97 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 7 | 2.97 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 5 | 2.97 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 3 | 2.97 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 5 | 2.97 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 3 | 2.97 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 5 | 2.97 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 6 | 2.97 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 19 | 2.97 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 5 | 2.97 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 4 | 2.97 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 14 | 2.97 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 5 | 2.97 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 13 | 2.97 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 13 | 2.97 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 19 | 2.97 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 19 | 2.97 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 19 | 2.97 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 1 | 2.97 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 8 | 2.97 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 8 | 2.97 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 8 | 2.97 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 8 | 2.97 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 8 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 8 | 2.97 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 8 | 2.97 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 8 | 2.97 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 8 | 2.97 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 4 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 7 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 7 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 7 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 7 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 7 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 7 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 10 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 10 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 10 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 10 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 10 | 2.97 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 10 | 2.97 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 4 | 2.97 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 7 | 2.97 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 9 | 2.97 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 9 | 2.97 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 20 | 2.97 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 8 | 2.97 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 8 | 2.97 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 8 | 2.97 |
| (1,1068) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 8 | 2.97 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 8 | 2.97 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 9 | 2.97 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 3 | 2.97 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 6 | 2.97 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 8 | 2.97 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 8 | 2.97 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 8 | 2.97 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 9 | 2.97 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 9 | 2.97 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 9 | 2.97 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 12 | 2.97 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 8 | 2.97 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 20 | 2.97 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 14 | 2.97 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 1 | 2.97 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 6 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 8 | 2.97 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 15 | 2.97 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 17 | 2.97 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 2.97 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 2.97 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 2.97 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 8 | 2.97 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 12 | 2.97 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 17 | 2.97 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 19 | 2.97 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 19 | 2.97 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 2 | 2.97 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 9 | 2.97 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 18 | 2.97 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 18 | 2.97 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 18 | 2.97 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 9 | 2.97 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 1 | 2.97 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 5 | 2.97 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 7 | 2.97 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 19 | 2.97 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 11 | 2.97 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 2.97 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 2.97 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 2.97 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 2.97 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 2.97 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 2.97 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 2.97 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 2.97 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 2.97 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 4 | 2.97 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 4 | 2.97 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 4 | 2.97 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 2 | 2.97 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 3 | 2.97 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 3 | 2.97 |
| (1,552) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 3 | 2.97 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 14 | 2.97 |
| (1,516) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 14 | 2.97 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 14 | 2.97 |
| (1,516) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 14 | 2.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 14 | 2.97 |
| (1,516) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 14 | 2.97 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 4 | 2.97 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 18 | 2.97 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 16 | 2.97 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 16 | 2.97 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 12 | 2.97 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 12 | 2.97 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 2 | 2.96 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 16 | 2.96 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 13 | 2.96 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 1 | 2.96 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 4 | 2.96 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 4 | 2.96 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 10 | 2.96 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 10 | 2.96 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 17 | 2.96 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 17 | 2.96 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 4 | 2.96 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 4 | 2.96 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 8 | 2.96 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 8 | 2.96 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 11 | 2.96 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 11 | 2.96 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 11 | 2.96 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 11 | 2.96 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 5 | 2.96 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 5 | 2.96 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA2 | 13 | 2.96 |
| (1,9421) | 1:127:A:ARG:HG2 | 1:128:A:GLY:HA3 | 13 | 2.96 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 7 | 2.96 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 7 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 1 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 1 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 4 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 4 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 5 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 5 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 7 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 7 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 9 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 9 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 14 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 14 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 18 | 2.96 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 18 | 2.96 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 6 | 2.96 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 6 | 2.96 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 6 | 2.96 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 6 | 2.96 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 13 | 2.96 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 13 | 2.96 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 13 | 2.96 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 13 | 2.96 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 14 | 2.96 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 14 | 2.96 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 14 | 2.96 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 14 | 2.96 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 14 | 2.96 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 14 | 2.96 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 9 | 2.96 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 9 | 2.96 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 9 | 2.96 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 9 | 2.96 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 15 | 2.96 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 15 | 2.96 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 9 | 2.96 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 9 | 2.96 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 18 | 2.96 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 18 | 2.96 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 13 | 2.96 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 13 | 2.96 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 6 | 2.96 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 6 | 2.96 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 1 | 2.96 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 1 | 2.96 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 17 | 2.96 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 17 | 2.96 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 17 | 2.96 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 17 | 2.96 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 17 | 2.96 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 17 | 2.96 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 1 | 2.96 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 1 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 7 | 2.96 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 7 | 2.96 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 16 | 2.96 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 16 | 2.96 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 5 | 2.96 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 5 | 2.96 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 5 | 2.96 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 5 | 2.96 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 18 | 2.96 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 18 | 2.96 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 3 | 2.96 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 3 | 2.96 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 20 | 2.96 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 20 | 2.96 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 19 | 2.96 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 19 | 2.96 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 13 | 2.96 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 13 | 2.96 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 13 | 2.96 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 13 | 2.96 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 16 | 2.96 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 16 | 2.96 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 16 | 2.96 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 16 | 2.96 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 16 | 2.96 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 16 | 2.96 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 5 | 2.96 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 5 | 2.96 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 9 | 2.96 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 9 | 2.96 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE2 | 5 | 2.96 |
| (1,8562) | 1:6:A:LYS:HA | 1:6:A:LYS:HE3 | 5 | 2.96 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 19 | 2.96 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 19 | 2.96 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 11 | 2.96 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 11 | 2.96 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 10 | 2.96 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 10 | 2.96 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 10 | 2.96 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 10 | 2.96 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 10 | 2.96 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 10 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 14 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 14 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 14 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 14 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 14 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 14 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 17 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 17 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 17 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 17 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 17 | 2.96 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 17 | 2.96 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 12 | 2.96 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 14 | 2.96 |
| (1,7864) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 14 | 2.96 |
| (1,7864) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 14 | 2.96 |
| (1,7864) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 14 | 2.96 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 16 | 2.96 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 16 | 2.96 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 16 | 2.96 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 16 | 2.96 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 16 | 2.96 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 16 | 2.96 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 16 | 2.96 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 16 | 2.96 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 16 | 2.96 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 15 | 2.96 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 15 | 2.96 |
| (1,7673) | 1:36:A:ARG:H | 1:36:A:ARG:HG2 | 6 | 2.96 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 14 | 2.96 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 14 | 2.96 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 10 | 2.96 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 10 | 2.96 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 10 | 2.96 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 11 | 2.96 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 3 | 2.96 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 13 | 2.96 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 14 | 2.96 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 14 | 2.96 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 18 | 2.96 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 18 | 2.96 |
| (1,7338) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 3 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 8 | 2.96 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 8 | 2.96 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE1 | 3 | 2.96 |
| (1,7283) | 1:13:A:LYS:HE2 | 1:24:A:TYR:HE2 | 3 | 2.96 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE1 | 3 | 2.96 |
| (1,7283) | 1:13:A:LYS:HE3 | 1:24:A:TYR:HE2 | 3 | 2.96 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 13 | 2.96 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 1 | 2.96 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 6 | 2.96 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 7 | 2.96 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 20 | 2.96 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 10 | 2.96 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 3 | 2.96 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 19 | 2.96 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 17 | 2.96 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 17 | 2.96 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 7 | 2.96 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 7 | 2.96 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 1 | 2.96 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 6 | 2.96 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 7 | 2.96 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 13 | 2.96 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 4 | 2.96 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 4 | 2.96 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 4 | 2.96 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 17 | 2.96 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 17 | 2.96 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 17 | 2.96 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 5 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 11 | 2.96 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 11 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 12 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 12 | 2.96 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 12 | 2.96 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 18 | 2.96 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 18 | 2.96 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 4 | 2.96 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 4 | 2.96 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 4 | 2.96 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 4 | 2.96 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 15 | 2.96 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 16 | 2.96 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 18 | 2.96 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 16 | 2.96 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 16 | 2.96 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 16 | 2.96 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 16 | 2.96 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 16 | 2.96 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 16 | 2.96 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 16 | 2.96 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 16 | 2.96 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 16 | 2.96 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 15 | 2.96 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 15 | 2.96 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 15 | 2.96 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 3 | 2.96 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 10 | 2.96 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 10 | 2.96 |
| (1,6175) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 16 | 2.96 |
| (1,6175) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 16 | 2.96 |
| (1,6175) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 16 | 2.96 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 12 | 2.96 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 4 | 2.96 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 4 | 2.96 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 4 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 15 | 2.96 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 4 | 2.96 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 20 | 2.96 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 3 | 2.96 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 3 | 2.96 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 11 | 2.96 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 11 | 2.96 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 5 | 2.96 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 10 | 2.96 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 3 | 2.96 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 6 | 2.96 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 19 | 2.96 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 2 | 2.96 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 13 | 2.96 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 3 | 2.96 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 12 | 2.96 |
| (1,5608) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 15 | 2.96 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 16 | 2.96 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 16 | 2.96 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 5 | 2.96 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 5 | 2.96 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 5 | 2.96 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 12 | 2.96 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 6 | 2.96 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 6 | 2.96 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 6 | 2.96 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 4 | 2.96 |
| (1,5164) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 8 | 2.96 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 8 | 2.96 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 1 | 2.96 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 20 | 2.96 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 8 | 2.96 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 20 | 2.96 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 2 | 2.96 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 9 | 2.96 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 4 | 2.96 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 4 | 2.96 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 4 | 2.96 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 18 | 2.96 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 15 | 2.96 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 15 | 2.96 |
| (1,4932) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 15 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 9 | 2.96 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 9 | 2.96 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 9 | 2.96 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 7 | 2.96 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 13 | 2.96 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 13 | 2.96 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 13 | 2.96 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 13 | 2.96 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 13 | 2.96 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 13 | 2.96 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 13 | 2.96 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 13 | 2.96 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 13 | 2.96 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 15 | 2.96 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 15 | 2.96 |
| (1,4792) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 15 | 2.96 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 19 | 2.96 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 9 | 2.96 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 15 | 2.96 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 15 | 2.96 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 16 | 2.96 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 16 | 2.96 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 16 | 2.96 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 4 | 2.96 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 4 | 2.96 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 8 | 2.96 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 8 | 2.96 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 6 | 2.96 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 6 | 2.96 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 18 | 2.96 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 18 | 2.96 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 18 | 2.96 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 8 | 2.96 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 18 | 2.96 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 18 | 2.96 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 18 | 2.96 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 18 | 2.96 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 18 | 2.96 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 18 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 1 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 1 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 4 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 4 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 5 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 5 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 7 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 7 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 9 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 9 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 14 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 14 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 18 | 2.96 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 18 | 2.96 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 1 | 2.96 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 1 | 2.96 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 1 | 2.96 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 1 | 2.96 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 6 | 2.96 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 6 | 2.96 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 15 | 2.96 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 15 | 2.96 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 15 | 2.96 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 14 | 2.96 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 14 | 2.96 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 14 | 2.96 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 14 | 2.96 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 14 | 2.96 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 14 | 2.96 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 9 | 2.96 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 9 | 2.96 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 9 | 2.96 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 9 | 2.96 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 16 | 2.96 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 16 | 2.96 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 9 | 2.96 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 9 | 2.96 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 9 | 2.96 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 9 | 2.96 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 6 | 2.96 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 20 | 2.96 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 20 | 2.96 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 7 | 2.96 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 7 | 2.96 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 18 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 18 | 2.96 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 18 | 2.96 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 10 | 2.96 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 19 | 2.96 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 19 | 2.96 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 19 | 2.96 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 3 | 2.96 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 11 | 2.96 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 11 | 2.96 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 11 | 2.96 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 11 | 2.96 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 11 | 2.96 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 11 | 2.96 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 11 | 2.96 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 11 | 2.96 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 11 | 2.96 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 16 | 2.96 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 16 | 2.96 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 7 | 2.96 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 7 | 2.96 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 17 | 2.96 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 17 | 2.96 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 6 | 2.96 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 6 | 2.96 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 6 | 2.96 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 20 | 2.96 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 20 | 2.96 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 20 | 2.96 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 20 | 2.96 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 2.96 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 20 | 2.96 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 13 | 2.96 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 19 | 2.96 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 5 | 2.96 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 1 | 2.96 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 1 | 2.96 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 9 | 2.96 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 9 | 2.96 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 1 | 2.96 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 1 | 2.96 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 14 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 9 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 9 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 9 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 9 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 9 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 9 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 14 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 14 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 14 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 14 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 14 | 2.96 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 14 | 2.96 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 7 | 2.96 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 7 | 2.96 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 16 | 2.96 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 16 | 2.96 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 16 | 2.96 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 16 | 2.96 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 16 | 2.96 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 16 | 2.96 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 16 | 2.96 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 16 | 2.96 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 2 | 2.96 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 2 | 2.96 |
| (1,3758) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 2 | 2.96 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 14 | 2.96 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 14 | 2.96 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 14 | 2.96 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 6 | 2.96 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 3 | 2.96 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 3 | 2.96 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 5 | 2.96 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 5 | 2.96 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 5 | 2.96 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 5 | 2.96 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 9 | 2.96 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 1 | 2.96 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 1 | 2.96 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 2.96 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 3 | 2.96 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 3 | 2.96 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 3 | 2.96 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 3 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 3 | 2.96 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 3 | 2.96 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 20 | 2.96 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 20 | 2.96 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 20 | 2.96 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 20 | 2.96 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 20 | 2.96 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 20 | 2.96 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 14 | 2.96 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 14 | 2.96 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 19 | 2.96 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 19 | 2.96 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 13 | 2.96 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 10 | 2.96 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 19 | 2.96 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 19 | 2.96 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 11 | 2.96 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 11 | 2.96 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 3 | 2.96 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 5 | 2.96 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 5 | 2.96 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 5 | 2.96 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 19 | 2.96 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 19 | 2.96 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 13 | 2.96 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 11 | 2.96 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 11 | 2.96 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 4 | 2.96 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 6 | 2.96 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 5 | 2.96 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 5 | 2.96 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 5 | 2.96 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 10 | 2.96 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 10 | 2.96 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 10 | 2.96 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 10 | 2.96 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 12 | 2.96 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 8 | 2.96 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 3 | 2.96 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 2 | 2.96 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 6 | 2.96 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 12 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 15 | 2.96 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 17 | 2.96 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 17 | 2.96 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 7 | 2.96 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 7 | 2.96 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 1 | 2.96 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 6 | 2.96 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 17 | 2.96 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 7 | 2.96 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 13 | 2.96 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 4 | 2.96 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 4 | 2.96 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 4 | 2.96 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 17 | 2.96 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 17 | 2.96 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 17 | 2.96 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 5 | 2.96 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 13 | 2.96 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 10 | 2.96 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 12 | 2.96 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 12 | 2.96 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 18 | 2.96 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 18 | 2.96 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 11 | 2.96 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 7 | 2.96 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 8 | 2.96 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 11 | 2.96 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 10 | 2.96 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 11 | 2.96 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 17 | 2.96 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 4 | 2.96 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 4 | 2.96 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 4 | 2.96 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 4 | 2.96 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 6 | 2.96 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 17 | 2.96 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 2 | 2.96 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 2 | 2.96 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 6 | 2.96 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 16 | 2.96 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 15 | 2.96 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 19 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 12 | 2.96 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 15 | 2.96 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 12 | 2.96 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 11 | 2.96 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 13 | 2.96 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 17 | 2.96 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 8 | 2.96 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 16 | 2.96 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 7 | 2.96 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 16 | 2.96 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 18 | 2.96 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 16 | 2.96 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 16 | 2.96 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 16 | 2.96 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 16 | 2.96 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 16 | 2.96 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 16 | 2.96 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 16 | 2.96 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 16 | 2.96 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 16 | 2.96 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 15 | 2.96 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 15 | 2.96 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 15 | 2.96 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 13 | 2.96 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 20 | 2.96 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 3 | 2.96 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 5 | 2.96 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 5 | 2.96 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 5 | 2.96 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 7 | 2.96 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 7 | 2.96 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 7 | 2.96 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 11 | 2.96 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 11 | 2.96 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 11 | 2.96 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 10 | 2.96 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 10 | 2.96 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 20 | 2.96 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 20 | 2.96 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 20 | 2.96 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 20 | 2.96 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 20 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 20 | 2.96 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 20 | 2.96 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 20 | 2.96 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 20 | 2.96 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 14 | 2.96 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 14 | 2.96 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 14 | 2.96 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 19 | 2.96 |
| (1,1878) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 16 | 2.96 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 12 | 2.96 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 20 | 2.96 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 1 | 2.96 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 3 | 2.96 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 6 | 2.96 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 7 | 2.96 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 11 | 2.96 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 17 | 2.96 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 19 | 2.96 |
| (1,1778) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 16 | 2.96 |
| (1,1778) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 16 | 2.96 |
| (1,1778) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 16 | 2.96 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 5 | 2.96 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 5 | 2.96 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 5 | 2.96 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 12 | 2.96 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 4 | 2.96 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 4 | 2.96 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 4 | 2.96 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 15 | 2.96 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 4 | 2.96 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 20 | 2.96 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 10 | 2.96 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 10 | 2.96 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 10 | 2.96 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 3 | 2.96 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 3 | 2.96 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 11 | 2.96 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 11 | 2.96 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 5 | 2.96 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 17 | 2.96 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 13 | 2.96 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 13 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 10 | 2.96 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 5 | 2.96 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 3 | 2.96 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 6 | 2.96 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 19 | 2.96 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 2 | 2.96 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 13 | 2.96 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 16 | 2.96 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 16 | 2.96 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 16 | 2.96 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 16 | 2.96 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 16 | 2.96 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 16 | 2.96 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 3 | 2.96 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 17 | 2.96 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 19 | 2.96 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 1 | 2.96 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 8 | 2.96 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 10 | 2.96 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 20 | 2.96 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 12 | 2.96 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 3 | 2.96 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 12 | 2.96 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 9 | 2.96 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 9 | 2.96 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 9 | 2.96 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 16 | 2.96 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 2.96 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 2.96 |
| (1,800) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 15 | 2.96 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 16 | 2.96 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 16 | 2.96 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 13 | 2.96 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 18 | 2.96 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 5 | 2.96 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 13 | 2.96 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 17 | 2.96 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 17 | 2.96 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 17 | 2.96 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 7 | 2.96 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 8 | 2.96 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 8 | 2.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 8 | 2.96 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 1 | 2.96 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 11 | 2.96 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 11 | 2.96 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 11 | 2.96 |
| (1,35) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 12 | 2.96 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 4 | 2.95 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 2 | 2.95 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 2 | 2.95 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 17 | 2.95 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 6 | 2.95 |
| (4,36) | 1:15:A:MET:CB | 1:87:A:GLU:H | 2 | 2.95 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 19 | 2.95 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 12 | 2.95 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 18 | 2.95 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 18 | 2.95 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 18 | 2.95 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 18 | 2.95 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 18 | 2.95 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 18 | 2.95 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 7 | 2.95 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 7 | 2.95 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 9 | 2.95 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 9 | 2.95 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 16 | 2.95 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 16 | 2.95 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 3 | 2.95 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 3 | 2.95 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 6 | 2.95 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 6 | 2.95 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 8 | 2.95 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 8 | 2.95 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 8 | 2.95 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 8 | 2.95 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 8 | 2.95 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 8 | 2.95 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 2.95 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 2.95 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 12 | 2.95 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 12 | 2.95 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 2.95 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 20 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 15 | 2.95 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 15 | 2.95 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 13 | 2.95 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 13 | 2.95 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 4 | 2.95 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 4 | 2.95 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 4 | 2.95 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 4 | 2.95 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 2 | 2.95 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 2 | 2.95 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 11 | 2.95 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 11 | 2.95 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 11 | 2.95 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 11 | 2.95 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 11 | 2.95 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 11 | 2.95 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 20 | 2.95 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 20 | 2.95 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 11 | 2.95 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 11 | 2.95 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 6 | 2.95 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 6 | 2.95 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 6 | 2.95 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 6 | 2.95 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 6 | 2.95 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 6 | 2.95 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 1 | 2.95 |
| (1,8864) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 1 | 2.95 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 1 | 2.95 |
| (1,8864) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 1 | 2.95 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 1 | 2.95 |
| (1,8864) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 1 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 1 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 1 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 2 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 2 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 12 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 12 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 14 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 14 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 15 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 15 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 19 | 2.95 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 19 | 2.95 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG12 | 9 | 2.95 |
| (1,8854) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HG13 | 9 | 2.95 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG12 | 9 | 2.95 |
| (1,8854) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HG13 | 9 | 2.95 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG12 | 9 | 2.95 |
| (1,8854) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HG13 | 9 | 2.95 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 16 | 2.95 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 16 | 2.95 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 19 | 2.95 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 19 | 2.95 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 19 | 2.95 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 19 | 2.95 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 12 | 2.95 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 12 | 2.95 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 10 | 2.95 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 10 | 2.95 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 10 | 2.95 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 10 | 2.95 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 18 | 2.95 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 18 | 2.95 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 3 | 2.95 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 3 | 2.95 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 1 | 2.95 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 1 | 2.95 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 7 | 2.95 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 7 | 2.95 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 11 | 2.95 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 11 | 2.95 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 3 | 2.95 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 3 | 2.95 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 3 | 2.95 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 3 | 2.95 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 3 | 2.95 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 3 | 2.95 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 6 | 2.95 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 12 | 2.95 |
| (1,7882) | 1:65:A:SER:H | 1:79:A:THR:HA | 17 | 2.95 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 15 | 2.95 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 15 | 2.95 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 15 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 15 | 2.95 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 15 | 2.95 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 15 | 2.95 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 15 | 2.95 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 15 | 2.95 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 15 | 2.95 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 7 | 2.95 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 7 | 2.95 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 7 | 2.95 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 9 | 2.95 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 7 | 2.95 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 8 | 2.95 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 18 | 2.95 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 16 | 2.95 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 16 | 2.95 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 16 | 2.95 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 16 | 2.95 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 20 | 2.95 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 4 | 2.95 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 4 | 2.95 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 4 | 2.95 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 4 | 2.95 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 4 | 2.95 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 4 | 2.95 |
| (1,7311) | 1:40:A:ASN:HA | 1:42:A:SER:H | 6 | 2.95 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 8 | 2.95 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 8 | 2.95 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 14 | 2.95 |
| (1,7277) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 14 | 2.95 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 15 | 2.95 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 15 | 2.95 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 15 | 2.95 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 8 | 2.95 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 3 | 2.95 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 11 | 2.95 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 6 | 2.95 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 6 | 2.95 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 6 | 2.95 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 5 | 2.95 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 5 | 2.95 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 16 | 2.95 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 4 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 3 | 2.95 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 14 | 2.95 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 7 | 2.95 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 7 | 2.95 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 17 | 2.95 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 2 | 2.95 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 11 | 2.95 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 11 | 2.95 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 11 | 2.95 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 11 | 2.95 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 2 | 2.95 |
| (1,6982) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 2 | 2.95 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 3 | 2.95 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 1 | 2.95 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 4 | 2.95 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 4 | 2.95 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 4 | 2.95 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 3 | 2.95 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 6 | 2.95 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 9 | 2.95 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 11 | 2.95 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 14 | 2.95 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 18 | 2.95 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 20 | 2.95 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 18 | 2.95 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 18 | 2.95 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 15 | 2.95 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 15 | 2.95 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 20 | 2.95 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 20 | 2.95 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 20 | 2.95 |
| (1,6723) | 1:21:A:ARG:H | 1:22:A:VAL:H | 20 | 2.95 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 14 | 2.95 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 6 | 2.95 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 6 | 2.95 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 6 | 2.95 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 13 | 2.95 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 12 | 2.95 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 6 | 2.95 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 12 | 2.95 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 14 | 2.95 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 8 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 17 | 2.95 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 10 | 2.95 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 17 | 2.95 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 17 | 2.95 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 17 | 2.95 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 10 | 2.95 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 10 | 2.95 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 10 | 2.95 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 12 | 2.95 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 14 | 2.95 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 14 | 2.95 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 17 | 2.95 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 17 | 2.95 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 20 | 2.95 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 20 | 2.95 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 13 | 2.95 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 15 | 2.95 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 9 | 2.95 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 10 | 2.95 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 10 | 2.95 |
| (1,6281) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 10 | 2.95 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 6 | 2.95 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 6 | 2.95 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 15 | 2.95 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 15 | 2.95 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 15 | 2.95 |
| (1,6217) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 4 | 2.95 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 13 | 2.95 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 13 | 2.95 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 13 | 2.95 |
| (1,6183) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 14 | 2.95 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 3 | 2.95 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 3 | 2.95 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 15 | 2.95 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 15 | 2.95 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 15 | 2.95 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 15 | 2.95 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 15 | 2.95 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 15 | 2.95 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 15 | 2.95 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 15 | 2.95 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 15 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6072) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 20 | 2.95 |
| (1,6072) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 20 | 2.95 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 7 | 2.95 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 7 | 2.95 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 13 | 2.95 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 18 | 2.95 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 11 | 2.95 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 11 | 2.95 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 11 | 2.95 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 13 | 2.95 |
| (1,5922) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 13 | 2.95 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 13 | 2.95 |
| (1,5922) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 13 | 2.95 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 13 | 2.95 |
| (1,5922) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 13 | 2.95 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 5 | 2.95 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 5 | 2.95 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 5 | 2.95 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 8 | 2.95 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 10 | 2.95 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 11 | 2.95 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 13 | 2.95 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 15 | 2.95 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 18 | 2.95 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 20 | 2.95 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 13 | 2.95 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 3 | 2.95 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 19 | 2.95 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 8 | 2.95 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 1 | 2.95 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 1 | 2.95 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 19 | 2.95 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 19 | 2.95 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 3 | 2.95 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 6 | 2.95 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 10 | 2.95 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 15 | 2.95 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 17 | 2.95 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 17 | 2.95 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 17 | 2.95 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 1 | 2.95 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 6 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 17 | 2.95 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 18 | 2.95 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 15 | 2.95 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 11 | 2.95 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 11 | 2.95 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 11 | 2.95 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 11 | 2.95 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 11 | 2.95 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 11 | 2.95 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 11 | 2.95 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 11 | 2.95 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 11 | 2.95 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 2 | 2.95 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 2 | 2.95 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 2 | 2.95 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 17 | 2.95 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 5 | 2.95 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 5 | 2.95 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 5 | 2.95 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 7 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 1 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 4 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 8 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 11 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 14 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 15 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 17 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 18 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 19 | 2.95 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 20 | 2.95 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 15 | 2.95 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 4 | 2.95 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 14 | 2.95 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 13 | 2.95 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 18 | 2.95 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 13 | 2.95 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 13 | 2.95 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 13 | 2.95 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 16 | 2.95 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 16 | 2.95 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 16 | 2.95 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 19 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 19 | 2.95 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 19 | 2.95 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 19 | 2.95 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 19 | 2.95 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 19 | 2.95 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 3 | 2.95 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 3 | 2.95 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 1 | 2.95 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 5 | 2.95 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 9 | 2.95 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 9 | 2.95 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 18 | 2.95 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 18 | 2.95 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 18 | 2.95 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 18 | 2.95 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 18 | 2.95 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 18 | 2.95 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 19 | 2.95 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 19 | 2.95 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 5 | 2.95 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 5 | 2.95 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 5 | 2.95 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 5 | 2.95 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 5 | 2.95 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 5 | 2.95 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 17 | 2.95 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 17 | 2.95 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 17 | 2.95 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 16 | 2.95 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 16 | 2.95 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 16 | 2.95 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 13 | 2.95 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 13 | 2.95 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 9 | 2.95 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 9 | 2.95 |
| (1,4407) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 18 | 2.95 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 16 | 2.95 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 16 | 2.95 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 3 | 2.95 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 3 | 2.95 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 6 | 2.95 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 6 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 8 | 2.95 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 8 | 2.95 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 8 | 2.95 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 8 | 2.95 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 8 | 2.95 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 8 | 2.95 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 2.95 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 2.95 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 12 | 2.95 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 12 | 2.95 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 2.95 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 20 | 2.95 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 15 | 2.95 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 15 | 2.95 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 13 | 2.95 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 13 | 2.95 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 2.95 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 2.95 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 2.95 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 4 | 2.95 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 4 | 2.95 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 4 | 2.95 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 4 | 2.95 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 7 | 2.95 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 7 | 2.95 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 8 | 2.95 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 8 | 2.95 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 1 | 2.95 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 1 | 2.95 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 1 | 2.95 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 1 | 2.95 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 1 | 2.95 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 1 | 2.95 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 4 | 2.95 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 4 | 2.95 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 4 | 2.95 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 18 | 2.95 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 18 | 2.95 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 18 | 2.95 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 3 | 2.95 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 3 | 2.95 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 3 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 15 | 2.95 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 15 | 2.95 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 15 | 2.95 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 15 | 2.95 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 15 | 2.95 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 15 | 2.95 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 6 | 2.95 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 6 | 2.95 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 13 | 2.95 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 13 | 2.95 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 3 | 2.95 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 13 | 2.95 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 13 | 2.95 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 11 | 2.95 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 11 | 2.95 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 11 | 2.95 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 6 | 2.95 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 6 | 2.95 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 6 | 2.95 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 6 | 2.95 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 6 | 2.95 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 6 | 2.95 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 1 | 2.95 |
| (1,3828) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 1 | 2.95 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 1 | 2.95 |
| (1,3828) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 1 | 2.95 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 1 | 2.95 |
| (1,3828) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 1 | 2.95 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 18 | 2.95 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 18 | 2.95 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 18 | 2.95 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 18 | 2.95 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 18 | 2.95 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 18 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 1 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 1 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 2 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 2 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 12 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 12 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 14 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 14 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 15 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 15 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 19 | 2.95 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 19 | 2.95 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 2.95 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 2.95 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 2.95 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 13 | 2.95 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 13 | 2.95 |
| (1,3782) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 4 | 2.95 |
| (1,3765) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 14 | 2.95 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 5 | 2.95 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 5 | 2.95 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 5 | 2.95 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 12 | 2.95 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 12 | 2.95 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 10 | 2.95 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 10 | 2.95 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 10 | 2.95 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 10 | 2.95 |
| (1,3705) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 13 | 2.95 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 18 | 2.95 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 18 | 2.95 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 5 | 2.95 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 5 | 2.95 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 8 | 2.95 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 8 | 2.95 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 8 | 2.95 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 6 | 2.95 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 6 | 2.95 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 11 | 2.95 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 15 | 2.95 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 15 | 2.95 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 15 | 2.95 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 14 | 2.95 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 8 | 2.95 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 17 | 2.95 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 9 | 2.95 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 4 | 2.95 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 9 | 2.95 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 8 | 2.95 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 8 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 8 | 2.95 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 6 | 2.95 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 6 | 2.95 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 6 | 2.95 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 12 | 2.95 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 12 | 2.95 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 12 | 2.95 |
| (1,3337) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 4 | 2.95 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 9 | 2.95 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 7 | 2.95 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 7 | 2.95 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 5 | 2.95 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 5 | 2.95 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 9 | 2.95 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 12 | 2.95 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 12 | 2.95 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 12 | 2.95 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 4 | 2.95 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 3 | 2.95 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 14 | 2.95 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 7 | 2.95 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 7 | 2.95 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 12 | 2.95 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 11 | 2.95 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 19 | 2.95 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 18 | 2.95 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 4 | 2.95 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 18 | 2.95 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 13 | 2.95 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 11 | 2.95 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 11 | 2.95 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 11 | 2.95 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 2 | 2.95 |
| (1,3016) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 2 | 2.95 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 3 | 2.95 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 3 | 2.95 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 3 | 2.95 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 1 | 2.95 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 15 | 2.95 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 4 | 2.95 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 4 | 2.95 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 4 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 2 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 3 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 4 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 5 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 6 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 9 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 10 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 11 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 17 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 19 | 2.95 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 20 | 2.95 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 15 | 2.95 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 1 | 2.95 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 12 | 2.95 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 3 | 2.95 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 6 | 2.95 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 9 | 2.95 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 11 | 2.95 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 14 | 2.95 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 18 | 2.95 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 20 | 2.95 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 2 | 2.95 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 2 | 2.95 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 2 | 2.95 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 18 | 2.95 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 18 | 2.95 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 12 | 2.95 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 12 | 2.95 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 15 | 2.95 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 15 | 2.95 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 20 | 2.95 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 20 | 2.95 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 20 | 2.95 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 17 | 2.95 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 17 | 2.95 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 17 | 2.95 |
| (1,2652) | 1:21:A:ARG:H | 1:22:A:VAL:H | 20 | 2.95 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 3 | 2.95 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 11 | 2.95 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 19 | 2.95 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 18 | 2.95 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 20 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 2 | 2.95 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 19 | 2.95 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 2.95 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 19 | 2.95 |
| (1,2554) | 1:14:A:ARG:HA | 1:14:A:ARG:HB2 | 9 | 2.95 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 3 | 2.95 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 5 | 2.95 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 6 | 2.95 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 16 | 2.95 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 20 | 2.95 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 20 | 2.95 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 20 | 2.95 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 20 | 2.95 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 20 | 2.95 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 20 | 2.95 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 5 | 2.95 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 13 | 2.95 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 15 | 2.95 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 12 | 2.95 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 6 | 2.95 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 12 | 2.95 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 14 | 2.95 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 7 | 2.95 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 3 | 2.95 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 4 | 2.95 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 7 | 2.95 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 16 | 2.95 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 1 | 2.95 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 12 | 2.95 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 13 | 2.95 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 8 | 2.95 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 13 | 2.95 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 17 | 2.95 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 4 | 2.95 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 7 | 2.95 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 10 | 2.95 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 1 | 2.95 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 5 | 2.95 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 2 | 2.95 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 11 | 2.95 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 10 | 2.95 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 17 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 17 | 2.95 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 17 | 2.95 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 3 | 2.95 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 10 | 2.95 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 10 | 2.95 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 10 | 2.95 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 1 | 2.95 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 12 | 2.95 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 4 | 2.95 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 5 | 2.95 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 20 | 2.95 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 15 | 2.95 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 18 | 2.95 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 3 | 2.95 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 10 | 2.95 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 16 | 2.95 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 17 | 2.95 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 14 | 2.95 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 14 | 2.95 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 17 | 2.95 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 17 | 2.95 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 20 | 2.95 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 20 | 2.95 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 13 | 2.95 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 15 | 2.95 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 5 | 2.95 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 5 | 2.95 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 5 | 2.95 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 5 | 2.95 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 5 | 2.95 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 5 | 2.95 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 5 | 2.95 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 5 | 2.95 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 5 | 2.95 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 9 | 2.95 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 10 | 2.95 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 10 | 2.95 |
| (1,1948) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 10 | 2.95 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 7 | 2.95 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 7 | 2.95 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 7 | 2.95 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 8 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 12 | 2.95 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 15 | 2.95 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 20 | 2.95 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 4 | 2.95 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 16 | 2.95 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 18 | 2.95 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 15 | 2.95 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 15 | 2.95 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 15 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 2 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 3 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 5 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 8 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 9 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 12 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 13 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 15 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 17 | 2.95 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 20 | 2.95 |
| (1,1846) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 4 | 2.95 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 4 | 2.95 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 8 | 2.95 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 9 | 2.95 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 10 | 2.95 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 14 | 2.95 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 16 | 2.95 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 13 | 2.95 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 13 | 2.95 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 13 | 2.95 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 13 | 2.95 |
| (1,1788) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 14 | 2.95 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 8 | 2.95 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 8 | 2.95 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 8 | 2.95 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 15 | 2.95 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 3 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 1 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 3 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 6 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 7 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 10 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 11 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 14 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 15 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 16 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 17 | 2.95 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 19 | 2.95 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 5 | 2.95 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 10 | 2.95 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 11 | 2.95 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 17 | 2.95 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 19 | 2.95 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 8 | 2.95 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 8 | 2.95 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 8 | 2.95 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 3 | 2.95 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 15 | 2.95 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 15 | 2.95 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 15 | 2.95 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 15 | 2.95 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 15 | 2.95 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 15 | 2.95 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 15 | 2.95 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 15 | 2.95 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 15 | 2.95 |
| (1,1636) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 20 | 2.95 |
| (1,1636) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 20 | 2.95 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 9 | 2.95 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 10 | 2.95 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 7 | 2.95 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 7 | 2.95 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 7 | 2.95 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 10 | 2.95 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 11 | 2.95 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 14 | 2.95 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 20 | 2.95 |
| (1,1448) | 1:129:A:GLN:HA | 1:130:A:MET:H | 12 | 2.95 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 2 | 2.95 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 15 | 2.95 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 13 | 2.95 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 17 | 2.95 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 9 | 2.95 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 11 | 2.95 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 12 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 13 | 2.95 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 1 | 2.95 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 12 | 2.95 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 14 | 2.95 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 18 | 2.95 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 19 | 2.95 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 20 | 2.95 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 1 | 2.95 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 12 | 2.95 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 14 | 2.95 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 18 | 2.95 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 19 | 2.95 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 20 | 2.95 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 18 | 2.95 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 7 | 2.95 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 7 | 2.95 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 15 | 2.95 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 11 | 2.95 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 11 | 2.95 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 11 | 2.95 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 2 | 2.95 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 2 | 2.95 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 2 | 2.95 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 13 | 2.95 |
| (1,1346) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 13 | 2.95 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 13 | 2.95 |
| (1,1346) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 13 | 2.95 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 13 | 2.95 |
| (1,1346) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 13 | 2.95 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 5 | 2.95 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 5 | 2.95 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 5 | 2.95 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 4 | 2.95 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 9 | 2.95 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 8 | 2.95 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 10 | 2.95 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 11 | 2.95 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 13 | 2.95 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 15 | 2.95 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 5 | 2.95 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 18 | 2.95 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 13 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 2 | 2.95 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 7 | 2.95 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 14 | 2.95 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 9 | 2.95 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 16 | 2.95 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 16 | 2.95 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 17 | 2.95 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 1 | 2.95 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 20 | 2.95 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 18 | 2.95 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 20 | 2.95 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 13 | 2.95 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 2.95 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 2.95 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 2.95 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 14 | 2.95 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 16 | 2.95 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 3 | 2.95 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 19 | 2.95 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 19 | 2.95 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 18 | 2.95 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 18 | 2.95 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 18 | 2.95 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 2 | 2.95 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 6 | 2.95 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 8 | 2.95 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 1 | 2.95 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 1 | 2.95 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 19 | 2.95 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 19 | 2.95 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 12 | 2.95 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 7 | 2.95 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 7 | 2.95 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 12 | 2.95 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 1 | 2.95 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 1 | 2.95 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 2 | 2.95 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 2 | 2.95 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 4 | 2.95 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 4 | 2.95 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 4 | 2.95 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 17 | 2.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 17 | 2.95 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 17 | 2.95 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 1 | 2.95 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 12 | 2.95 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 6 | 2.95 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 12 | 2.95 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 16 | 2.95 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 17 | 2.95 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 18 | 2.95 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 5 | 2.95 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 5 | 2.95 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 5 | 2.95 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 5 | 2.95 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 5 | 2.95 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 5 | 2.95 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 11 | 2.95 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 12 | 2.95 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 5 | 2.95 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 5 | 2.95 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 8 | 2.95 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 11 | 2.95 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 4 | 2.95 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 4 | 2.95 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 9 | 2.95 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 15 | 2.95 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 15 | 2.95 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 15 | 2.95 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 15 | 2.94 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 20 | 2.94 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 1 | 2.94 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 17 | 2.94 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 1 | 2.94 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 1 | 2.94 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 18 | 2.94 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 18 | 2.94 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 20 | 2.94 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 20 | 2.94 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 15 | 2.94 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 15 | 2.94 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 18 | 2.94 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 18 | 2.94 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 14 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 14 | 2.94 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 9 | 2.94 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 9 | 2.94 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 9 | 2.94 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 9 | 2.94 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG2 | 3 | 2.94 |
| (1,9189) | 1:94:A:GLN:HG2 | 1:95:A:LYS:HG3 | 3 | 2.94 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG2 | 3 | 2.94 |
| (1,9189) | 1:94:A:GLN:HG3 | 1:95:A:LYS:HG3 | 3 | 2.94 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 19 | 2.94 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 19 | 2.94 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 19 | 2.94 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 19 | 2.94 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 19 | 2.94 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 19 | 2.94 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 15 | 2.94 |
| (1,9050) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 15 | 2.94 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 15 | 2.94 |
| (1,9050) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 15 | 2.94 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 15 | 2.94 |
| (1,9050) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 15 | 2.94 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 7 | 2.94 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 7 | 2.94 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 7 | 2.94 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 7 | 2.94 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 7 | 2.94 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 7 | 2.94 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 11 | 2.94 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 11 | 2.94 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 9 | 2.94 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 9 | 2.94 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 18 | 2.94 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 18 | 2.94 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 2.94 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 20 | 2.94 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 17 | 2.94 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 17 | 2.94 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 14 | 2.94 |
| (1,8776) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 14 | 2.94 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 18 | 2.94 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 18 | 2.94 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 9 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 9 | 2.94 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 18 | 2.94 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 18 | 2.94 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 13 | 2.94 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 13 | 2.94 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 18 | 2.94 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 18 | 2.94 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 4 | 2.94 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 4 | 2.94 |
| (1,8439) | 1:146:A:MET:H | 1:161:A:ARG:H | 4 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 6 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 6 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 6 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 6 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 6 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 6 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 19 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 19 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 19 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 19 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 19 | 2.94 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 19 | 2.94 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 16 | 2.94 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 1 | 2.94 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 16 | 2.94 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 9 | 2.94 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 9 | 2.94 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 9 | 2.94 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 3 | 2.94 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 3 | 2.94 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 14 | 2.94 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 14 | 2.94 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 14 | 2.94 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 14 | 2.94 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB1 | 18 | 2.94 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB2 | 18 | 2.94 |
| (1,7856) | 1:62:A:VAL:HB | 1:85:A:ALA:HB3 | 18 | 2.94 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 12 | 2.94 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 1 | 2.94 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 1 | 2.94 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 17 | 2.94 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 17 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 17 | 2.94 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 5 | 2.94 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 2 | 2.94 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 9 | 2.94 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 9 | 2.94 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 3 | 2.94 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 3 | 2.94 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 13 | 2.94 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 16 | 2.94 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 16 | 2.94 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 18 | 2.94 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 12 | 2.94 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 3 | 2.94 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 3 | 2.94 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 3 | 2.94 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 12 | 2.94 |
| (1,7148) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 12 | 2.94 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 14 | 2.94 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 19 | 2.94 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 10 | 2.94 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 12 | 2.94 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 16 | 2.94 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 16 | 2.94 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 10 | 2.94 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 10 | 2.94 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 13 | 2.94 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 13 | 2.94 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 12 | 2.94 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 12 | 2.94 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 12 | 2.94 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 14 | 2.94 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 14 | 2.94 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 14 | 2.94 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 8 | 2.94 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 8 | 2.94 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 10 | 2.94 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 16 | 2.94 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 16 | 2.94 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 16 | 2.94 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 20 | 2.94 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 2 | 2.94 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 16 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 19 | 2.94 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 19 | 2.94 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 16 | 2.94 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 16 | 2.94 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 16 | 2.94 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 16 | 2.94 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 18 | 2.94 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 4 | 2.94 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 11 | 2.94 |
| (1,6687) | 1:15:A:MET:H | 1:23:A:TYR:H | 4 | 2.94 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 7 | 2.94 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 7 | 2.94 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 11 | 2.94 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 3 | 2.94 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 16 | 2.94 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 6 | 2.94 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 8 | 2.94 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 8 | 2.94 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 8 | 2.94 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 8 | 2.94 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 11 | 2.94 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 12 | 2.94 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 1 | 2.94 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 1 | 2.94 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 1 | 2.94 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 8 | 2.94 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 1 | 2.94 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 1 | 2.94 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 1 | 2.94 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 3 | 2.94 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 3 | 2.94 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 3 | 2.94 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 15 | 2.94 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 15 | 2.94 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 15 | 2.94 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 20 | 2.94 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 20 | 2.94 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 4 | 2.94 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 4 | 2.94 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 4 | 2.94 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 16 | 2.94 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 16 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 16 | 2.94 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 16 | 2.94 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 16 | 2.94 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 16 | 2.94 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 16 | 2.94 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 16 | 2.94 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 16 | 2.94 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 20 | 2.94 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 20 | 2.94 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 20 | 2.94 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 10 | 2.94 |
| (1,5943) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 14 | 2.94 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 20 | 2.94 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 20 | 2.94 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 7 | 2.94 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 15 | 2.94 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 20 | 2.94 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 20 | 2.94 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 5 | 2.94 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 5 | 2.94 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 6 | 2.94 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 20 | 2.94 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 19 | 2.94 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 17 | 2.94 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 2 | 2.94 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 2 | 2.94 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 2 | 2.94 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 14 | 2.94 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 3 | 2.94 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 3 | 2.94 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 18 | 2.94 |
| (1,5536) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 8 | 2.94 |
| (1,5536) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 8 | 2.94 |
| (1,5536) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 8 | 2.94 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 16 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 13 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 13 | 2.94 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 13 | 2.94 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 6 | 2.94 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 2 | 2.94 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 9 | 2.94 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 6 | 2.94 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 6 | 2.94 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 6 | 2.94 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 6 | 2.94 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 6 | 2.94 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 6 | 2.94 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 6 | 2.94 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 6 | 2.94 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 6 | 2.94 |
| (1,5260) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 16 | 2.94 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 14 | 2.94 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 14 | 2.94 |
| (1,5250) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 14 | 2.94 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 15 | 2.94 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 15 | 2.94 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 15 | 2.94 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 19 | 2.94 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 19 | 2.94 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 19 | 2.94 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 19 | 2.94 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 19 | 2.94 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 19 | 2.94 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 2 | 2.94 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 3 | 2.94 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 5 | 2.94 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 9 | 2.94 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 10 | 2.94 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 16 | 2.94 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 15 | 2.94 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 2 | 2.94 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 4 | 2.94 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 5 | 2.94 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 4 | 2.94 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 15 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 5 | 2.94 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 9 | 2.94 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 6 | 2.94 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 6 | 2.94 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 6 | 2.94 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 6 | 2.94 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 6 | 2.94 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 6 | 2.94 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 6 | 2.94 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 6 | 2.94 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 6 | 2.94 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 10 | 2.94 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 10 | 2.94 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 10 | 2.94 |
| (1,4776) | 1:58:A:SER:HA | 1:122:A:LEU:H | 2 | 2.94 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 2 | 2.94 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 2 | 2.94 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 2 | 2.94 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 3 | 2.94 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 3 | 2.94 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 3 | 2.94 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 15 | 2.94 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 15 | 2.94 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 15 | 2.94 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 17 | 2.94 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 17 | 2.94 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 18 | 2.94 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 18 | 2.94 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 16 | 2.94 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 16 | 2.94 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 16 | 2.94 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 12 | 2.94 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 12 | 2.94 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 12 | 2.94 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 12 | 2.94 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 7 | 2.94 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 7 | 2.94 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 7 | 2.94 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 10 | 2.94 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 10 | 2.94 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 10 | 2.94 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 17 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 13 | 2.94 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 13 | 2.94 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 9 | 2.94 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 9 | 2.94 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 9 | 2.94 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 9 | 2.94 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 18 | 2.94 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 18 | 2.94 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 1 | 2.94 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 7 | 2.94 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 19 | 2.94 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 19 | 2.94 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 19 | 2.94 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 19 | 2.94 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 19 | 2.94 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 14 | 2.94 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 14 | 2.94 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 14 | 2.94 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 14 | 2.94 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 14 | 2.94 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 14 | 2.94 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 3 | 2.94 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 3 | 2.94 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 3 | 2.94 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 3 | 2.94 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 3 | 2.94 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 3 | 2.94 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 5 | 2.94 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 5 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 1 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 1 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 1 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 1 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 1 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 1 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 11 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 11 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 11 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 11 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 11 | 2.94 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 11 | 2.94 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 19 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 19 | 2.94 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 19 | 2.94 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 19 | 2.94 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 19 | 2.94 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 19 | 2.94 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 11 | 2.94 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 11 | 2.94 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 11 | 2.94 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 11 | 2.94 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 11 | 2.94 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 11 | 2.94 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 1 | 2.94 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 1 | 2.94 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 1 | 2.94 |
| (1,4043) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 7 | 2.94 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 13 | 2.94 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 3 | 2.94 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 12 | 2.94 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 12 | 2.94 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 12 | 2.94 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 15 | 2.94 |
| (1,4024) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 15 | 2.94 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 15 | 2.94 |
| (1,4024) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 15 | 2.94 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 15 | 2.94 |
| (1,4024) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 15 | 2.94 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 1 | 2.94 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 7 | 2.94 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 7 | 2.94 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 7 | 2.94 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 7 | 2.94 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 7 | 2.94 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 7 | 2.94 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 12 | 2.94 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 12 | 2.94 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 11 | 2.94 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 11 | 2.94 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 20 | 2.94 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 20 | 2.94 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 20 | 2.94 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 20 | 2.94 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 20 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 20 | 2.94 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 17 | 2.94 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 17 | 2.94 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 17 | 2.94 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 9 | 2.94 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 9 | 2.94 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 18 | 2.94 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 18 | 2.94 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 2.94 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 20 | 2.94 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 2.94 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 2.94 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 2.94 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 14 | 2.94 |
| (1,3746) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 14 | 2.94 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 16 | 2.94 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 13 | 2.94 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 13 | 2.94 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 18 | 2.94 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 18 | 2.94 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 7 | 2.94 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 7 | 2.94 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 4 | 2.94 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 4 | 2.94 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 18 | 2.94 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 12 | 2.94 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 15 | 2.94 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 15 | 2.94 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 20 | 2.94 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 3 | 2.94 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 3 | 2.94 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 3 | 2.94 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 12 | 2.94 |
| (1,3256) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 12 | 2.94 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 17 | 2.94 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 12 | 2.94 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 12 | 2.94 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 20 | 2.94 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 8 | 2.94 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 9 | 2.94 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 7 | 2.94 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 12 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 1 | 2.94 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 5 | 2.94 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 12 | 2.94 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 16 | 2.94 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 16 | 2.94 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 10 | 2.94 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 10 | 2.94 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 13 | 2.94 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 13 | 2.94 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 17 | 2.94 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 20 | 2.94 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 10 | 2.94 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 12 | 2.94 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 12 | 2.94 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 12 | 2.94 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 14 | 2.94 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 14 | 2.94 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 14 | 2.94 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 4 | 2.94 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 14 | 2.94 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 20 | 2.94 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 8 | 2.94 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 13 | 2.94 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 15 | 2.94 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 16 | 2.94 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 8 | 2.94 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 7 | 2.94 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 11 | 2.94 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 4 | 2.94 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 8 | 2.94 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 10 | 2.94 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 4 | 2.94 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 16 | 2.94 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 16 | 2.94 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 16 | 2.94 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 20 | 2.94 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 2 | 2.94 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 16 | 2.94 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 9 | 2.94 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 20 | 2.94 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 19 | 2.94 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 19 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 4 | 2.94 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 4 | 2.94 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 3 | 2.94 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 3 | 2.94 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 9 | 2.94 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 9 | 2.94 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 15 | 2.94 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 15 | 2.94 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 4 | 2.94 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 4 | 2.94 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 4 | 2.94 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 18 | 2.94 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 8 | 2.94 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 15 | 2.94 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 11 | 2.94 |
| (1,2582) | 1:15:A:MET:H | 1:23:A:TYR:H | 4 | 2.94 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 7 | 2.94 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 8 | 2.94 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 10 | 2.94 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 13 | 2.94 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 18 | 2.94 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 19 | 2.94 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 20 | 2.94 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 7 | 2.94 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 7 | 2.94 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 9 | 2.94 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 13 | 2.94 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 19 | 2.94 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 11 | 2.94 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 3 | 2.94 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 16 | 2.94 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 6 | 2.94 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 3 | 2.94 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 6 | 2.94 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 14 | 2.94 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 16 | 2.94 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 10 | 2.94 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 2 | 2.94 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 15 | 2.94 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 8 | 2.94 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 8 | 2.94 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 8 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 19 | 2.94 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 10 | 2.94 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 15 | 2.94 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 2 | 2.94 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 14 | 2.94 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 15 | 2.94 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 19 | 2.94 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 20 | 2.94 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 15 | 2.94 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 2 | 2.94 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 4 | 2.94 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 11 | 2.94 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 14 | 2.94 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 6 | 2.94 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 17 | 2.94 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 8 | 2.94 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 11 | 2.94 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 12 | 2.94 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 4 | 2.94 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 8 | 2.94 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 12 | 2.94 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 16 | 2.94 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 17 | 2.94 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 19 | 2.94 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 14 | 2.94 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 18 | 2.94 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 13 | 2.94 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 20 | 2.94 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 1 | 2.94 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 1 | 2.94 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 1 | 2.94 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 8 | 2.94 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 7 | 2.94 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 11 | 2.94 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 1 | 2.94 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 1 | 2.94 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 1 | 2.94 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 9 | 2.94 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 9 | 2.94 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 9 | 2.94 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 9 | 2.94 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 9 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 9 | 2.94 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 9 | 2.94 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 9 | 2.94 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 9 | 2.94 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 3 | 2.94 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 3 | 2.94 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 3 | 2.94 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 19 | 2.94 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 19 | 2.94 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 19 | 2.94 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 15 | 2.94 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 15 | 2.94 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 15 | 2.94 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 11 | 2.94 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 11 | 2.94 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 11 | 2.94 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 19 | 2.94 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 19 | 2.94 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 19 | 2.94 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 16 | 2.94 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 15 | 2.94 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 18 | 2.94 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 12 | 2.94 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 13 | 2.94 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 2 | 2.94 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 20 | 2.94 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 20 | 2.94 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 3 | 2.94 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 6 | 2.94 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 15 | 2.94 |
| (1,1762) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 5 | 2.94 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 4 | 2.94 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 1 | 2.94 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 4 | 2.94 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 7 | 2.94 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 14 | 2.94 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 16 | 2.94 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 16 | 2.94 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 16 | 2.94 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 16 | 2.94 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 16 | 2.94 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 16 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 16 | 2.94 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 16 | 2.94 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 16 | 2.94 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 20 | 2.94 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 20 | 2.94 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 20 | 2.94 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 3 | 2.94 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 3 | 2.94 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 3 | 2.94 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 10 | 2.94 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 2 | 2.94 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 3 | 2.94 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 8 | 2.94 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 11 | 2.94 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 11 | 2.94 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 11 | 2.94 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 8 | 2.94 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 16 | 2.94 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 20 | 2.94 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 7 | 2.94 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 8 | 2.94 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 16 | 2.94 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 7 | 2.94 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 8 | 2.94 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 16 | 2.94 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 3 | 2.94 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 20 | 2.94 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 7 | 2.94 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 19 | 2.94 |
| (1,1370) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 14 | 2.94 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 1 | 2.94 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 10 | 2.94 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 20 | 2.94 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 20 | 2.94 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 20 | 2.94 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 20 | 2.94 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 17 | 2.94 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 7 | 2.94 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 18 | 2.94 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 12 | 2.94 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 1 | 2.94 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 9 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 15 | 2.94 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 1 | 2.94 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 19 | 2.94 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 4 | 2.94 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 20 | 2.94 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 20 | 2.94 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 7 | 2.94 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 5 | 2.94 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 5 | 2.94 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 18 | 2.94 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 6 | 2.94 |
| (1,1106) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 12 | 2.94 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 12 | 2.94 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 16 | 2.94 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 9 | 2.94 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 19 | 2.94 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 4 | 2.94 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 17 | 2.94 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 2 | 2.94 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 2 | 2.94 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 2 | 2.94 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 14 | 2.94 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 2 | 2.94 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 2 | 2.94 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 2 | 2.94 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 2 | 2.94 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 2 | 2.94 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 2 | 2.94 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 10 | 2.94 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 3 | 2.94 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 3 | 2.94 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 8 | 2.94 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 12 | 2.94 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 3 | 2.94 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 3 | 2.94 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 19 | 2.94 |
| (1,696) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 8 | 2.94 |
| (1,696) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 8 | 2.94 |
| (1,696) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 8 | 2.94 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 16 | 2.94 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 16 | 2.94 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 11 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 11 | 2.94 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 11 | 2.94 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 12 | 2.94 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 12 | 2.94 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 12 | 2.94 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 17 | 2.94 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 17 | 2.94 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 17 | 2.94 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 17 | 2.94 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 17 | 2.94 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 17 | 2.94 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 4 | 2.94 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 4 | 2.94 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 4 | 2.94 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 4 | 2.94 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 4 | 2.94 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 4 | 2.94 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 3 | 2.94 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 3 | 2.94 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 3 | 2.94 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 15 | 2.94 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 15 | 2.94 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 15 | 2.94 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 19 | 2.94 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 19 | 2.94 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 19 | 2.94 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 16 | 2.94 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 3 | 2.94 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 3 | 2.94 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 3 | 2.94 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 3 | 2.94 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 3 | 2.94 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 3 | 2.94 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 20 | 2.94 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 18 | 2.94 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 18 | 2.94 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 18 | 2.94 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 17 | 2.94 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 17 | 2.94 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 4 | 2.93 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 14 | 2.93 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 1 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 5 | 2.93 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 10 | 2.93 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 11 | 2.93 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 15 | 2.93 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 15 | 2.93 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 9 | 2.93 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 9 | 2.93 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 4 | 2.93 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 4 | 2.93 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 4 | 2.93 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 4 | 2.93 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 2 | 2.93 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 2 | 2.93 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 17 | 2.93 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 17 | 2.93 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 16 | 2.93 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 16 | 2.93 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 19 | 2.93 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 19 | 2.93 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 10 | 2.93 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 10 | 2.93 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 10 | 2.93 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 10 | 2.93 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 5 | 2.93 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 5 | 2.93 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 7 | 2.93 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 7 | 2.93 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 5 | 2.93 |
| (1,9006) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 5 | 2.93 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 19 | 2.93 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 19 | 2.93 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG21 | 18 | 2.93 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG22 | 18 | 2.93 |
| (1,8904) | 1:65:A:SER:HB2 | 1:79:A:THR:HG23 | 18 | 2.93 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG21 | 18 | 2.93 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG22 | 18 | 2.93 |
| (1,8904) | 1:65:A:SER:HB3 | 1:79:A:THR:HG23 | 18 | 2.93 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 1 | 2.93 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 1 | 2.93 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 10 | 2.93 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 10 | 2.93 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 6 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 6 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 17 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 17 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 17 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 17 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 17 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 17 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 19 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 19 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 19 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 19 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 19 | 2.93 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 19 | 2.93 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 9 | 2.93 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 9 | 2.93 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 9 | 2.93 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 9 | 2.93 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 9 | 2.93 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 9 | 2.93 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 1 | 2.93 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 1 | 2.93 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 2 | 2.93 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 2 | 2.93 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 2 | 2.93 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 4 | 2.93 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 4 | 2.93 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 4 | 2.93 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 7 | 2.93 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 7 | 2.93 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 7 | 2.93 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 7 | 2.93 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 7 | 2.93 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 7 | 2.93 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE2 | 4 | 2.93 |
| (1,8137) | 1:95:A:LYS:HA | 1:95:A:LYS:HE3 | 4 | 2.93 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 8 | 2.93 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 6 | 2.93 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 10 | 2.93 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 15 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 6 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 6 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 6 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 6 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 6 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 6 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 6 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 6 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 6 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 10 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 10 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 10 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 10 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 10 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 10 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 10 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 10 | 2.93 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 10 | 2.93 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 15 | 2.93 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 5 | 2.93 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 4 | 2.93 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 4 | 2.93 |
| (1,7625) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 4 | 2.93 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 17 | 2.93 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 17 | 2.93 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 2 | 2.93 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 2 | 2.93 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 2 | 2.93 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 2 | 2.93 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 2 | 2.93 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 2 | 2.93 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 10 | 2.93 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 10 | 2.93 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 2 | 2.93 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 2 | 2.93 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 2 | 2.93 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 17 | 2.93 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 17 | 2.93 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 18 | 2.93 |
| (1,7320) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 18 | 2.93 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 6 | 2.93 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 6 | 2.93 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 16 | 2.93 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 16 | 2.93 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 16 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 13 | 2.93 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 13 | 2.93 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 13 | 2.93 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 13 | 2.93 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 13 | 2.93 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 13 | 2.93 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 13 | 2.93 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 13 | 2.93 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 13 | 2.93 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 9 | 2.93 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 2 | 2.93 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 18 | 2.93 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 3 | 2.93 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 20 | 2.93 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 11 | 2.93 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 11 | 2.93 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 2 | 2.93 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 6 | 2.93 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 10 | 2.93 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 6 | 2.93 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 13 | 2.93 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 8 | 2.93 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 8 | 2.93 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 19 | 2.93 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 19 | 2.93 |
| (1,6932) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 1 | 2.93 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 12 | 2.93 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 19 | 2.93 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 19 | 2.93 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 19 | 2.93 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 2 | 2.93 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 13 | 2.93 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 11 | 2.93 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 17 | 2.93 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 12 | 2.93 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 16 | 2.93 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 7 | 2.93 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 5 | 2.93 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 5 | 2.93 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 5 | 2.93 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 9 | 2.93 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 9 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 9 | 2.93 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 9 | 2.93 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 9 | 2.93 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 9 | 2.93 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 9 | 2.93 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 5 | 2.93 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 20 | 2.93 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 20 | 2.93 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 5 | 2.93 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 19 | 2.93 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 14 | 2.93 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 15 | 2.93 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 12 | 2.93 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 17 | 2.93 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 17 | 2.93 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 17 | 2.93 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 5 | 2.93 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 16 | 2.93 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 2 | 2.93 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 6 | 2.93 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 14 | 2.93 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 14 | 2.93 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 14 | 2.93 |
| (1,6363) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 14 | 2.93 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 14 | 2.93 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 14 | 2.93 |
| (1,6363) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 14 | 2.93 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 14 | 2.93 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 14 | 2.93 |
| (1,6363) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 14 | 2.93 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 4 | 2.93 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 4 | 2.93 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 4 | 2.93 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 4 | 2.93 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 4 | 2.93 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 4 | 2.93 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 10 | 2.93 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 10 | 2.93 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 13 | 2.93 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 13 | 2.93 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 8 | 2.93 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 20 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 9 | 2.93 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 9 | 2.93 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 3 | 2.93 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 3 | 2.93 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 3 | 2.93 |
| (1,6199) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 20 | 2.93 |
| (1,6199) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 20 | 2.93 |
| (1,6199) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 20 | 2.93 |
| (1,6165) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 3 | 2.93 |
| (1,6165) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 3 | 2.93 |
| (1,6165) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 3 | 2.93 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 5 | 2.93 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 5 | 2.93 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 5 | 2.93 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 6 | 2.93 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 5 | 2.93 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 13 | 2.93 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 13 | 2.93 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 13 | 2.93 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 4 | 2.93 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 19 | 2.93 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 9 | 2.93 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 9 | 2.93 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 15 | 2.93 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 20 | 2.93 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 9 | 2.93 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 5 | 2.93 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 17 | 2.93 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 15 | 2.93 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 15 | 2.93 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 15 | 2.93 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 15 | 2.93 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 15 | 2.93 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 15 | 2.93 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 9 | 2.93 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 9 | 2.93 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 1 | 2.93 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 13 | 2.93 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 17 | 2.93 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 5 | 2.93 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 6 | 2.93 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 17 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 18 | 2.93 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 13 | 2.93 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 7 | 2.93 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 7 | 2.93 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 6 | 2.93 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 6 | 2.93 |
| (1,5549) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 6 | 2.93 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 6 | 2.93 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 6 | 2.93 |
| (1,5549) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 6 | 2.93 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 6 | 2.93 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 6 | 2.93 |
| (1,5549) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 6 | 2.93 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 16 | 2.93 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 5 | 2.93 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 18 | 2.93 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 18 | 2.93 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 18 | 2.93 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 16 | 2.93 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 16 | 2.93 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 16 | 2.93 |
| (1,5405) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 11 | 2.93 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 4 | 2.93 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 19 | 2.93 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 2 | 2.93 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 2 | 2.93 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 2 | 2.93 |
| (1,5371) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 16 | 2.93 |
| (1,5371) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 16 | 2.93 |
| (1,5371) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 16 | 2.93 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 18 | 2.93 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 20 | 2.93 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 13 | 2.93 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 20 | 2.93 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 6 | 2.93 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 14 | 2.93 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 5 | 2.93 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 15 | 2.93 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 20 | 2.93 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 1 | 2.93 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 3 | 2.93 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 4 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 19 | 2.93 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 3 | 2.93 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 14 | 2.93 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 8 | 2.93 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 8 | 2.93 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 8 | 2.93 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 8 | 2.93 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 8 | 2.93 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 8 | 2.93 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 5 | 2.93 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 5 | 2.93 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 5 | 2.93 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 11 | 2.93 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 11 | 2.93 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 7 | 2.93 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 7 | 2.93 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 7 | 2.93 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 13 | 2.93 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 13 | 2.93 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 2 | 2.93 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 2 | 2.93 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 16 | 2.93 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 6 | 2.93 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 9 | 2.93 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 9 | 2.93 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 4 | 2.93 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 4 | 2.93 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 4 | 2.93 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 8 | 2.93 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 8 | 2.93 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 8 | 2.93 |
| (1,4522) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 17 | 2.93 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 8 | 2.93 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 3 | 2.93 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 6 | 2.93 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 6 | 2.93 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 6 | 2.93 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 14 | 2.93 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 14 | 2.93 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 14 | 2.93 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 2 | 2.93 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 2 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 17 | 2.93 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 17 | 2.93 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 16 | 2.93 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 16 | 2.93 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 10 | 2.93 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 16 | 2.93 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 17 | 2.93 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 17 | 2.93 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 17 | 2.93 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 7 | 2.93 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 11 | 2.93 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 19 | 2.93 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 7 | 2.93 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 4 | 2.93 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 4 | 2.93 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 4 | 2.93 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 4 | 2.93 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 2 | 2.93 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 2 | 2.93 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 17 | 2.93 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 17 | 2.93 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 17 | 2.93 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 17 | 2.93 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 17 | 2.93 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 17 | 2.93 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 2 | 2.93 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 2.93 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 2.93 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 2.93 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 8 | 2.93 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 8 | 2.93 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 8 | 2.93 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 8 | 2.93 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 2 | 2.93 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 15 | 2.93 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 10 | 2.93 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 10 | 2.93 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 10 | 2.93 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 10 | 2.93 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 10 | 2.93 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 10 | 2.93 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 9 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 9 | 2.93 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 14 | 2.93 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 14 | 2.93 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 14 | 2.93 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 14 | 2.93 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 14 | 2.93 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 14 | 2.93 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 5 | 2.93 |
| (1,3972) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 5 | 2.93 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 19 | 2.93 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 19 | 2.93 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 19 | 2.93 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 19 | 2.93 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 19 | 2.93 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 19 | 2.93 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 10 | 2.93 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 10 | 2.93 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 10 | 2.93 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 6 | 2.93 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 6 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 17 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 17 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 17 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 17 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 17 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 17 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 19 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 19 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 19 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 19 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 19 | 2.93 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 19 | 2.93 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 9 | 2.93 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 9 | 2.93 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 9 | 2.93 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 9 | 2.93 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 9 | 2.93 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 9 | 2.93 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 13 | 2.93 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 2 | 2.93 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 6 | 2.93 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 6 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 3 | 2.93 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 3 | 2.93 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 5 | 2.93 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 8 | 2.93 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 3 | 2.93 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 3 | 2.93 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 4 | 2.93 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 4 | 2.93 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 4 | 2.93 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 4 | 2.93 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 15 | 2.93 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 15 | 2.93 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 17 | 2.93 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 17 | 2.93 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 13 | 2.93 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 13 | 2.93 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 15 | 2.93 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 2 | 2.93 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 19 | 2.93 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 19 | 2.93 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 16 | 2.93 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 16 | 2.93 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 16 | 2.93 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 13 | 2.93 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 13 | 2.93 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 13 | 2.93 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 13 | 2.93 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 13 | 2.93 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 13 | 2.93 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 13 | 2.93 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 13 | 2.93 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 13 | 2.93 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 18 | 2.93 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 18 | 2.93 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 9 | 2.93 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 20 | 2.93 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 20 | 2.93 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 20 | 2.93 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 15 | 2.93 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 12 | 2.93 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 8 | 2.93 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 13 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 13 | 2.93 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 13 | 2.93 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 13 | 2.93 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 13 | 2.93 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 13 | 2.93 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 18 | 2.93 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 3 | 2.93 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 20 | 2.93 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 2 | 2.93 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 16 | 2.93 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 1 | 2.93 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 11 | 2.93 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 11 | 2.93 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 11 | 2.93 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 10 | 2.93 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 14 | 2.93 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 19 | 2.93 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 2 | 2.93 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 2 | 2.93 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 6 | 2.93 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 20 | 2.93 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 15 | 2.93 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 2 | 2.93 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 12 | 2.93 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 13 | 2.93 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 16 | 2.93 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 19 | 2.93 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 8 | 2.93 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 8 | 2.93 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 19 | 2.93 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 19 | 2.93 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 8 | 2.93 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 14 | 2.93 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 9 | 2.93 |
| (1,2950) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 1 | 2.93 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 8 | 2.93 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 12 | 2.93 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 15 | 2.93 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 12 | 2.93 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 18 | 2.93 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 19 | 2.93 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 19 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 19 | 2.93 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 2 | 2.93 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 13 | 2.93 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 20 | 2.93 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 11 | 2.93 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 17 | 2.93 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 6 | 2.93 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 13 | 2.93 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 20 | 2.93 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 12 | 2.93 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 16 | 2.93 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 7 | 2.93 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 5 | 2.93 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 5 | 2.93 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 5 | 2.93 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 9 | 2.93 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 9 | 2.93 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 9 | 2.93 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 3 | 2.93 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 8 | 2.93 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 11 | 2.93 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 13 | 2.93 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 9 | 2.93 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 9 | 2.93 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 9 | 2.93 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 9 | 2.93 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 5 | 2.93 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 20 | 2.93 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 20 | 2.93 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 20 | 2.93 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 20 | 2.93 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 5 | 2.93 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 2 | 2.93 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 5 | 2.93 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 10 | 2.93 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 13 | 2.93 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 7 | 2.93 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 19 | 2.93 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 1 | 2.93 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 2 | 2.93 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 9 | 2.93 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 12 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 15 | 2.93 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 14 | 2.93 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 1 | 2.93 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 15 | 2.93 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 9 | 2.93 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 20 | 2.93 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 12 | 2.93 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 17 | 2.93 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 17 | 2.93 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 17 | 2.93 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 17 | 2.93 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 17 | 2.93 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 17 | 2.93 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 11 | 2.93 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 20 | 2.93 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 17 | 2.93 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 17 | 2.93 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 17 | 2.93 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 10 | 2.93 |
| (1,2318) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 13 | 2.93 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 5 | 2.93 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 9 | 2.93 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 1 | 2.93 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 18 | 2.93 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 11 | 2.93 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 15 | 2.93 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 5 | 2.93 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 16 | 2.93 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 6 | 2.93 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 14 | 2.93 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 2 | 2.93 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 6 | 2.93 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 2 | 2.93 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 10 | 2.93 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 16 | 2.93 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 16 | 2.93 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 16 | 2.93 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 16 | 2.93 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 16 | 2.93 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 16 | 2.93 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 15 | 2.93 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 14 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 1 | 2.93 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 6 | 2.93 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 10 | 2.93 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 14 | 2.93 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 15 | 2.93 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 14 | 2.93 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 14 | 2.93 |
| (1,2046) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 14 | 2.93 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 14 | 2.93 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 14 | 2.93 |
| (1,2046) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 14 | 2.93 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 14 | 2.93 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 14 | 2.93 |
| (1,2046) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 14 | 2.93 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 4 | 2.93 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 4 | 2.93 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 4 | 2.93 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 4 | 2.93 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 4 | 2.93 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 4 | 2.93 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 3 | 2.93 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 6 | 2.93 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 14 | 2.93 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 10 | 2.93 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 10 | 2.93 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 13 | 2.93 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 13 | 2.93 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 8 | 2.93 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 20 | 2.93 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 17 | 2.93 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 9 | 2.93 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 9 | 2.93 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 8 | 2.93 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 8 | 2.93 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 8 | 2.93 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 8 | 2.93 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 8 | 2.93 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 8 | 2.93 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 2.93 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 2.93 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 2.93 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 2.93 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 2.93 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 2.93 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 2.93 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 2.93 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 3 | 2.93 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 3 | 2.93 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 3 | 2.93 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 10 | 2.93 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 11 | 2.93 |
| (1,1812) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 20 | 2.93 |
| (1,1812) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 20 | 2.93 |
| (1,1812) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 20 | 2.93 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 1 | 2.93 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 11 | 2.93 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 13 | 2.93 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 14 | 2.93 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 16 | 2.93 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 17 | 2.93 |
| (1,1768) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 3 | 2.93 |
| (1,1768) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 3 | 2.93 |
| (1,1768) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 3 | 2.93 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 13 | 2.93 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 5 | 2.93 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 5 | 2.93 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 5 | 2.93 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 6 | 2.93 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 5 | 2.93 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 15 | 2.93 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 16 | 2.93 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 13 | 2.93 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 13 | 2.93 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 13 | 2.93 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 8 | 2.93 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 16 | 2.93 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 14 | 2.93 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 14 | 2.93 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 14 | 2.93 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 4 | 2.93 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 6 | 2.93 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 19 | 2.93 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 19 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 2 | 2.93 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 16 | 2.93 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 17 | 2.93 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 4 | 2.93 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 9 | 2.93 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 9 | 2.93 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 15 | 2.93 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 8 | 2.93 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 17 | 2.93 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 4 | 2.93 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 4 | 2.93 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 20 | 2.93 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 14 | 2.93 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 16 | 2.93 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 20 | 2.93 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 9 | 2.93 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 5 | 2.93 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 17 | 2.93 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 15 | 2.93 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 15 | 2.93 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 15 | 2.93 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 15 | 2.93 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 15 | 2.93 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 15 | 2.93 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 2 | 2.93 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 18 | 2.93 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 13 | 2.93 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 13 | 2.93 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 1 | 2.93 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 13 | 2.93 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 17 | 2.93 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 10 | 2.93 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 5 | 2.93 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 7 | 2.93 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 5 | 2.93 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 6 | 2.93 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 17 | 2.93 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 4 | 2.93 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 15 | 2.93 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 19 | 2.93 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 11 | 2.93 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 11 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 11 | 2.93 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 3 | 2.93 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 14 | 2.93 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 18 | 2.93 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 18 | 2.93 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 7 | 2.93 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 6 | 2.93 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 6 | 2.93 |
| (1,710) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 6 | 2.93 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 6 | 2.93 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 6 | 2.93 |
| (1,710) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 6 | 2.93 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 6 | 2.93 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 6 | 2.93 |
| (1,710) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 6 | 2.93 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 3 | 2.93 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 15 | 2.93 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 16 | 2.93 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 5 | 2.93 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 3 | 2.93 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 3 | 2.93 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 3 | 2.93 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 16 | 2.93 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 16 | 2.93 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 16 | 2.93 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 17 | 2.93 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 17 | 2.93 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 17 | 2.93 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 13 | 2.93 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 20 | 2.93 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 16 | 2.93 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 16 | 2.93 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 16 | 2.93 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 17 | 2.93 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 3 | 2.93 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 8 | 2.93 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 8 | 2.93 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 8 | 2.93 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 19 | 2.93 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 19 | 2.93 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 19 | 2.93 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 20 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 20 | 2.93 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 20 | 2.93 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 20 | 2.93 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 20 | 2.93 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 20 | 2.93 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 9 | 2.93 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 17 | 2.93 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 17 | 2.93 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 17 | 2.93 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 2 | 2.92 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 2 | 2.92 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 18 | 2.92 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 13 | 2.92 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 7 | 2.92 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 9 | 2.92 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 9 | 2.92 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 9 | 2.92 |
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 16 | 2.92 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 16 | 2.92 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 12 | 2.92 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 12 | 2.92 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 1 | 2.92 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 1 | 2.92 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 14 | 2.92 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 14 | 2.92 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 15 | 2.92 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 15 | 2.92 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 11 | 2.92 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 11 | 2.92 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 7 | 2.92 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 7 | 2.92 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 7 | 2.92 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 7 | 2.92 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 16 | 2.92 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 16 | 2.92 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 6 | 2.92 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 6 | 2.92 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 14 | 2.92 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 14 | 2.92 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 8 | 2.92 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 8 | 2.92 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 8 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 8 | 2.92 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 11 | 2.92 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 11 | 2.92 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 20 | 2.92 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 20 | 2.92 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 19 | 2.92 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 19 | 2.92 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 8 | 2.92 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 8 | 2.92 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 14 | 2.92 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 14 | 2.92 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 10 | 2.92 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 10 | 2.92 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 10 | 2.92 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 10 | 2.92 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 10 | 2.92 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 10 | 2.92 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 12 | 2.92 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 12 | 2.92 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 12 | 2.92 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 12 | 2.92 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 12 | 2.92 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 12 | 2.92 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 2 | 2.92 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 2 | 2.92 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 11 | 2.92 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 11 | 2.92 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 10 | 2.92 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 10 | 2.92 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 12 | 2.92 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 12 | 2.92 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 3 | 2.92 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 3 | 2.92 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 11 | 2.92 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 11 | 2.92 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 11 | 2.92 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 11 | 2.92 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 11 | 2.92 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 11 | 2.92 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 16 | 2.92 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 16 | 2.92 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 14 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 14 | 2.92 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 14 | 2.92 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 14 | 2.92 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 14 | 2.92 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 14 | 2.92 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 19 | 2.92 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 12 | 2.92 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 12 | 2.92 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 12 | 2.92 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 7 | 2.92 |
| (1,8073) | 1:90:A:ASN:H | 1:90:A:ASN:HD22 | 19 | 2.92 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 16 | 2.92 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 11 | 2.92 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 11 | 2.92 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 11 | 2.92 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 17 | 2.92 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 16 | 2.92 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 2 | 2.92 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 2 | 2.92 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 1 | 2.92 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 1 | 2.92 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 5 | 2.92 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 14 | 2.92 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 16 | 2.92 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 2 | 2.92 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 12 | 2.92 |
| (1,7415) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 12 | 2.92 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD11 | 10 | 2.92 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD12 | 10 | 2.92 |
| (1,7364) | 1:103:A:PHE:HA | 1:106:A:LEU:HD13 | 10 | 2.92 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 11 | 2.92 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 11 | 2.92 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 3 | 2.92 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 3 | 2.92 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 18 | 2.92 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 18 | 2.92 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 13 | 2.92 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 5 | 2.92 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 7 | 2.92 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 3 | 2.92 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 14 | 2.92 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 4 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 17 | 2.92 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 17 | 2.92 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 17 | 2.92 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 17 | 2.92 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 7 | 2.92 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 7 | 2.92 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 3 | 2.92 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 13 | 2.92 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 6 | 2.92 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 8 | 2.92 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 5 | 2.92 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 5 | 2.92 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 5 | 2.92 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 5 | 2.92 |
| (1,6759) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 1 | 2.92 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 4 | 2.92 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 4 | 2.92 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 2 | 2.92 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 18 | 2.92 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 2 | 2.92 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 9 | 2.92 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 9 | 2.92 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 13 | 2.92 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 15 | 2.92 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 18 | 2.92 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 4 | 2.92 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 4 | 2.92 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 4 | 2.92 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 12 | 2.92 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 12 | 2.92 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 12 | 2.92 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 16 | 2.92 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 16 | 2.92 |
| (1,6460) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 16 | 2.92 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 3 | 2.92 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 11 | 2.92 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 7 | 2.92 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 7 | 2.92 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 12 | 2.92 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 12 | 2.92 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 9 | 2.92 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 9 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 4 | 2.92 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 12 | 2.92 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 16 | 2.92 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 16 | 2.92 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 16 | 2.92 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 9 | 2.92 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 9 | 2.92 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 9 | 2.92 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 9 | 2.92 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 9 | 2.92 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 9 | 2.92 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 9 | 2.92 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 9 | 2.92 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 9 | 2.92 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 9 | 2.92 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 9 | 2.92 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 9 | 2.92 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 5 | 2.92 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 16 | 2.92 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 16 | 2.92 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 4 | 2.92 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 8 | 2.92 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 8 | 2.92 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 8 | 2.92 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 6 | 2.92 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 6 | 2.92 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 9 | 2.92 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 9 | 2.92 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 9 | 2.92 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 9 | 2.92 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 14 | 2.92 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 17 | 2.92 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 18 | 2.92 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 14 | 2.92 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 20 | 2.92 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 18 | 2.92 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 18 | 2.92 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 18 | 2.92 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 15 | 2.92 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 15 | 2.92 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 16 | 2.92 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 10 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 10 | 2.92 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 10 | 2.92 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 10 | 2.92 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 13 | 2.92 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 9 | 2.92 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 9 | 2.92 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 9 | 2.92 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 10 | 2.92 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 10 | 2.92 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 18 | 2.92 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 12 | 2.92 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 12 | 2.92 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 12 | 2.92 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 16 | 2.92 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 16 | 2.92 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 16 | 2.92 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 14 | 2.92 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 18 | 2.92 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 7 | 2.92 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 7 | 2.92 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 7 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 2 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 8 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 8 | 2.92 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 8 | 2.92 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 9 | 2.92 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 9 | 2.92 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 20 | 2.92 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 2 | 2.92 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 20 | 2.92 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 2 | 2.92 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 2 | 2.92 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 2 | 2.92 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 17 | 2.92 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 5 | 2.92 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 5 | 2.92 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 5 | 2.92 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 5 | 2.92 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 5 | 2.92 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 5 | 2.92 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 5 | 2.92 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 5 | 2.92 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 5 | 2.92 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 4 | 2.92 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 8 | 2.92 |
| (1,5256) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 6 | 2.92 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 6 | 2.92 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 6 | 2.92 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 6 | 2.92 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 17 | 2.92 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 1 | 2.92 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 16 | 2.92 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 16 | 2.92 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 16 | 2.92 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 11 | 2.92 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 19 | 2.92 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 11 | 2.92 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 3 | 2.92 |
| (1,4832) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 3 | 2.92 |
| (1,4832) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 3 | 2.92 |
| (1,4832) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 3 | 2.92 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 11 | 2.92 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 11 | 2.92 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 11 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 11 | 2.92 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 11 | 2.92 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 11 | 2.92 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 11 | 2.92 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 11 | 2.92 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 11 | 2.92 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 9 | 2.92 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 7 | 2.92 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 18 | 2.92 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 18 | 2.92 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 18 | 2.92 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 18 | 2.92 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 18 | 2.92 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 18 | 2.92 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 2 | 2.92 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 2 | 2.92 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 20 | 2.92 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 20 | 2.92 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 1 | 2.92 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 1 | 2.92 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 8 | 2.92 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 8 | 2.92 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 1 | 2.92 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 1 | 2.92 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 12 | 2.92 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 6 | 2.92 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 6 | 2.92 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 6 | 2.92 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 6 | 2.92 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 6 | 2.92 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 6 | 2.92 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 11 | 2.92 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 11 | 2.92 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 17 | 2.92 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 17 | 2.92 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 12 | 2.92 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 12 | 2.92 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 4 | 2.92 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 1 | 2.92 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 1 | 2.92 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 14 | 2.92 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 14 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 15 | 2.92 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 15 | 2.92 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 12 | 2.92 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 12 | 2.92 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 12 | 2.92 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 12 | 2.92 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 12 | 2.92 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 12 | 2.92 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 16 | 2.92 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 16 | 2.92 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 6 | 2.92 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 6 | 2.92 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 4 | 2.92 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 4 | 2.92 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 6 | 2.92 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 6 | 2.92 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 11 | 2.92 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 11 | 2.92 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 14 | 2.92 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 14 | 2.92 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 14 | 2.92 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 14 | 2.92 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 8 | 2.92 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 8 | 2.92 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 8 | 2.92 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 8 | 2.92 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 8 | 2.92 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 8 | 2.92 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 8 | 2.92 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 8 | 2.92 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 8 | 2.92 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 8 | 2.92 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 11 | 2.92 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 11 | 2.92 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 13 | 2.92 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 13 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 1 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 1 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 4 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 4 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 10 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 10 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 11 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 11 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 16 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 16 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 20 | 2.92 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 20 | 2.92 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 10 | 2.92 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 11 | 2.92 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 5 | 2.92 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 5 | 2.92 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 5 | 2.92 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 5 | 2.92 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 5 | 2.92 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 5 | 2.92 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 9 | 2.92 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 9 | 2.92 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 10 | 2.92 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 10 | 2.92 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 10 | 2.92 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 10 | 2.92 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 10 | 2.92 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 10 | 2.92 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 16 | 2.92 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 16 | 2.92 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 10 | 2.92 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 10 | 2.92 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 10 | 2.92 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 10 | 2.92 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 18 | 2.92 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 18 | 2.92 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 18 | 2.92 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 9 | 2.92 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 9 | 2.92 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 1 | 2.92 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 19 | 2.92 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 2.92 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 2.92 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 2.92 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 17 | 2.92 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 17 | 2.92 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 11 | 2.92 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 11 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 11 | 2.92 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 19 | 2.92 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 19 | 2.92 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 4 | 2.92 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 8 | 2.92 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 8 | 2.92 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 18 | 2.92 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 18 | 2.92 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 14 | 2.92 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 14 | 2.92 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 2 | 2.92 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 12 | 2.92 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 12 | 2.92 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 12 | 2.92 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 12 | 2.92 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 12 | 2.92 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 12 | 2.92 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 2.92 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 2.92 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 2.92 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 3 | 2.92 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 3 | 2.92 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 12 | 2.92 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 1 | 2.92 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 14 | 2.92 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 14 | 2.92 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 9 | 2.92 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 9 | 2.92 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 9 | 2.92 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 9 | 2.92 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 4 | 2.92 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 11 | 2.92 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 11 | 2.92 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 12 | 2.92 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 12 | 2.92 |
| (1,3620) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 5 | 2.92 |
| (1,3620) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 5 | 2.92 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 3 | 2.92 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 3 | 2.92 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 3 | 2.92 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 3 | 2.92 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 19 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 17 | 2.92 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 7 | 2.92 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 7 | 2.92 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 6 | 2.92 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 2 | 2.92 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 5 | 2.92 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 14 | 2.92 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 19 | 2.92 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 9 | 2.92 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 13 | 2.92 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 14 | 2.92 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 18 | 2.92 |
| (1,3171) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 14 | 2.92 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 12 | 2.92 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 12 | 2.92 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 12 | 2.92 |
| (1,3134) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 6 | 2.92 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 13 | 2.92 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 1 | 2.92 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 7 | 2.92 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 8 | 2.92 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 14 | 2.92 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 17 | 2.92 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 6 | 2.92 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 15 | 2.92 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 20 | 2.92 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 9 | 2.92 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 18 | 2.92 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 4 | 2.92 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 13 | 2.92 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 13 | 2.92 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 4 | 2.92 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 4 | 2.92 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 17 | 2.92 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 9 | 2.92 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 18 | 2.92 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 17 | 2.92 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 17 | 2.92 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 17 | 2.92 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 1 | 2.92 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 6 | 2.92 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 10 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2930) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 2 | 2.92 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 7 | 2.92 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 7 | 2.92 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 12 | 2.92 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 17 | 2.92 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 17 | 2.92 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 17 | 2.92 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 9 | 2.92 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 3 | 2.92 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 13 | 2.92 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 1 | 2.92 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 5 | 2.92 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 15 | 2.92 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 19 | 2.92 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 6 | 2.92 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 8 | 2.92 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 6 | 2.92 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 16 | 2.92 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 18 | 2.92 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 6 | 2.92 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 6 | 2.92 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 19 | 2.92 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 19 | 2.92 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 8 | 2.92 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 8 | 2.92 |
| (1,2700) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 1 | 2.92 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 4 | 2.92 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 4 | 2.92 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 17 | 2.92 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 2 | 2.92 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 1 | 2.92 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 13 | 2.92 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 2 | 2.92 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 6 | 2.92 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 18 | 2.92 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 2 | 2.92 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 14 | 2.92 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 17 | 2.92 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 9 | 2.92 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 10 | 2.92 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 11 | 2.92 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 5 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 1 | 2.92 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 5 | 2.92 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 7 | 2.92 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 8 | 2.92 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 10 | 2.92 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 3 | 2.92 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 18 | 2.92 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 10 | 2.92 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 18 | 2.92 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 4 | 2.92 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 16 | 2.92 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 18 | 2.92 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 18 | 2.92 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 18 | 2.92 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 9 | 2.92 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 13 | 2.92 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 15 | 2.92 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 18 | 2.92 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 4 | 2.92 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 4 | 2.92 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 4 | 2.92 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 12 | 2.92 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 12 | 2.92 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 12 | 2.92 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 9 | 2.92 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 16 | 2.92 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 16 | 2.92 |
| (1,2220) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 16 | 2.92 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 18 | 2.92 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 5 | 2.92 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 4 | 2.92 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 1 | 2.92 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 1 | 2.92 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 1 | 2.92 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 6 | 2.92 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 6 | 2.92 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 3 | 2.92 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 11 | 2.92 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 2 | 2.92 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 9 | 2.92 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 12 | 2.92 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 13 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 17 | 2.92 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 1 | 2.92 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 1 | 2.92 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 1 | 2.92 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 1 | 2.92 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 1 | 2.92 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 1 | 2.92 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 1 | 2.92 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 1 | 2.92 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 1 | 2.92 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 7 | 2.92 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 7 | 2.92 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 12 | 2.92 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 12 | 2.92 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 9 | 2.92 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 9 | 2.92 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 4 | 2.92 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 12 | 2.92 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 16 | 2.92 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 16 | 2.92 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 16 | 2.92 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 9 | 2.92 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 9 | 2.92 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 9 | 2.92 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 5 | 2.92 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 13 | 2.92 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 19 | 2.92 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 9 | 2.92 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 9 | 2.92 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 9 | 2.92 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 9 | 2.92 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 9 | 2.92 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 9 | 2.92 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 9 | 2.92 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 9 | 2.92 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 9 | 2.92 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 2 | 2.92 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 2 | 2.92 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 2 | 2.92 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 5 | 2.92 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 2 | 2.92 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 17 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 5 | 2.92 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 15 | 2.92 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 16 | 2.92 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 16 | 2.92 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 11 | 2.92 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 4 | 2.92 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 5 | 2.92 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 2 | 2.92 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 5 | 2.92 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 8 | 2.92 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 19 | 2.92 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 18 | 2.92 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 18 | 2.92 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 18 | 2.92 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 4 | 2.92 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 5 | 2.92 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 5 | 2.92 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 6 | 2.92 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 6 | 2.92 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 13 | 2.92 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 12 | 2.92 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 12 | 2.92 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 12 | 2.92 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 9 | 2.92 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 9 | 2.92 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 9 | 2.92 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 4 | 2.92 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 5 | 2.92 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 12 | 2.92 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 3 | 2.92 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 2 | 2.92 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 1 | 2.92 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 9 | 2.92 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 17 | 2.92 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 14 | 2.92 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 17 | 2.92 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 3 | 2.92 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 5 | 2.92 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 6 | 2.92 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 12 | 2.92 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 4 | 2.92 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 16 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 8 | 2.92 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 3 | 2.92 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 14 | 2.92 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 15 | 2.92 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 19 | 2.92 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 6 | 2.92 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 6 | 2.92 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 18 | 2.92 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 20 | 2.92 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 16 | 2.92 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 15 | 2.92 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 4 | 2.92 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 4 | 2.92 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 4 | 2.92 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 18 | 2.92 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 18 | 2.92 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 18 | 2.92 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 15 | 2.92 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 15 | 2.92 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 16 | 2.92 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 18 | 2.92 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 18 | 2.92 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 18 | 2.92 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 18 | 2.92 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 4 | 2.92 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 10 | 2.92 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 10 | 2.92 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 10 | 2.92 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 10 | 2.92 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 7 | 2.92 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 13 | 2.92 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 13 | 2.92 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 9 | 2.92 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 6 | 2.92 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 9 | 2.92 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 19 | 2.92 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 9 | 2.92 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 9 | 2.92 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 4 | 2.92 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 10 | 2.92 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 10 | 2.92 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 9 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 18 | 2.92 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 16 | 2.92 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 16 | 2.92 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 16 | 2.92 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 20 | 2.92 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 4 | 2.92 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 14 | 2.92 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 18 | 2.92 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 12 | 2.92 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 12 | 2.92 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 12 | 2.92 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 16 | 2.92 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 16 | 2.92 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 16 | 2.92 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 14 | 2.92 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 13 | 2.92 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 17 | 2.92 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 12 | 2.92 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 18 | 2.92 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 2 | 2.92 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 7 | 2.92 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 9 | 2.92 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 2 | 2.92 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 13 | 2.92 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 7 | 2.92 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 7 | 2.92 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 7 | 2.92 |
| (1,850) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 3 | 2.92 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 15 | 2.92 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 19 | 2.92 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 9 | 2.92 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 9 | 2.92 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 4 | 2.92 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 16 | 2.92 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 6 | 2.92 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 8 | 2.92 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 14 | 2.92 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 14 | 2.92 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 20 | 2.92 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 9 | 2.92 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 13 | 2.92 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 2 | 2.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 20 | 2.92 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 12 | 2.92 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 3 | 2.92 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 17 | 2.92 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 2 | 2.92 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 2 | 2.92 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 2 | 2.92 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 2 | 2.92 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 2 | 2.92 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 2 | 2.92 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 16 | 2.92 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 16 | 2.92 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 16 | 2.92 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 10 | 2.92 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 6 | 2.92 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 12 | 2.92 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 12 | 2.92 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 12 | 2.92 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 5 | 2.92 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 6 | 2.92 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 8 | 2.92 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 8 | 2.92 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 19 | 2.92 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 17 | 2.92 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 11 | 2.92 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 4 | 2.92 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 5 | 2.92 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 9 | 2.92 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 9 | 2.92 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 9 | 2.92 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 12 | 2.92 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 12 | 2.92 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 12 | 2.92 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 12 | 2.92 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 12 | 2.92 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 12 | 2.92 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 12 | 2.92 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 12 | 2.92 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 12 | 2.92 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 12 | 2.92 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 17 | 2.91 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 2 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 20 | 2.91 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 18 | 2.91 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 18 | 2.91 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 18 | 2.91 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 11 | 2.91 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 11 | 2.91 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 16 | 2.91 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 16 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 5 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 5 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 6 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 6 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 10 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 10 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 11 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 11 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 19 | 2.91 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 19 | 2.91 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 16 | 2.91 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 16 | 2.91 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 14 | 2.91 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 14 | 2.91 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 7 | 2.91 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 7 | 2.91 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 4 | 2.91 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 4 | 2.91 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 16 | 2.91 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 16 | 2.91 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 8 | 2.91 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 8 | 2.91 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 17 | 2.91 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 17 | 2.91 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 3 | 2.91 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 3 | 2.91 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 3 | 2.91 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 3 | 2.91 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 3 | 2.91 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 3 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 11 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 11 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 11 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 11 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 11 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 11 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 18 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 18 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 18 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 18 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 18 | 2.91 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 18 | 2.91 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 6 | 2.91 |
| (1,8956) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 6 | 2.91 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 12 | 2.91 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 12 | 2.91 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 12 | 2.91 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 12 | 2.91 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 5 | 2.91 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 5 | 2.91 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 6 | 2.91 |
| (1,8862) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 6 | 2.91 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 6 | 2.91 |
| (1,8862) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 6 | 2.91 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 6 | 2.91 |
| (1,8862) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 6 | 2.91 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 9 | 2.91 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 9 | 2.91 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 9 | 2.91 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 9 | 2.91 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 9 | 2.91 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 9 | 2.91 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 8 | 2.91 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 8 | 2.91 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 15 | 2.91 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 15 | 2.91 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 13 | 2.91 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 13 | 2.91 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 13 | 2.91 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 13 | 2.91 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 4 | 2.91 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 4 | 2.91 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 19 | 2.91 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 19 | 2.91 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 11 | 2.91 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 11 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 11 | 2.91 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 11 | 2.91 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 11 | 2.91 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 11 | 2.91 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 13 | 2.91 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 13 | 2.91 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 13 | 2.91 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 13 | 2.91 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 13 | 2.91 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 13 | 2.91 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 5 | 2.91 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 13 | 2.91 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 16 | 2.91 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 16 | 2.91 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 16 | 2.91 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 10 | 2.91 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 10 | 2.91 |
| (1,7935) | 1:71:A:SER:HA | 1:78:A:ILE:HG13 | 9 | 2.91 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 11 | 2.91 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 18 | 2.91 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 18 | 2.91 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 18 | 2.91 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 11 | 2.91 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 1 | 2.91 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 4 | 2.91 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 4 | 2.91 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 6 | 2.91 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 6 | 2.91 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 20 | 2.91 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 5 | 2.91 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 2 | 2.91 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 2 | 2.91 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 2 | 2.91 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 2 | 2.91 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 2 | 2.91 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 2 | 2.91 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 2 | 2.91 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 2 | 2.91 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 2 | 2.91 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 11 | 2.91 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 11 | 2.91 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 11 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 19 | 2.91 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 16 | 2.91 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 16 | 2.91 |
| (1,7056) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 9 | 2.91 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 6 | 2.91 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 13 | 2.91 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 9 | 2.91 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 9 | 2.91 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 20 | 2.91 |
| (1,6862) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 1 | 2.91 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 3 | 2.91 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 3 | 2.91 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 1 | 2.91 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 1 | 2.91 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 1 | 2.91 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 1 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 4 | 2.91 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 4 | 2.91 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 19 | 2.91 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 19 | 2.91 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 1 | 2.91 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 1 | 2.91 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 19 | 2.91 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 19 | 2.91 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 4 | 2.91 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 8 | 2.91 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 17 | 2.91 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 4 | 2.91 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 7 | 2.91 |
| (1,6545) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 13 | 2.91 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 5 | 2.91 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 17 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 19 | 2.91 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 10 | 2.91 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 10 | 2.91 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 10 | 2.91 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 17 | 2.91 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 17 | 2.91 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 17 | 2.91 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 17 | 2.91 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 17 | 2.91 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 17 | 2.91 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 17 | 2.91 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 17 | 2.91 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 17 | 2.91 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 18 | 2.91 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 18 | 2.91 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 18 | 2.91 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 18 | 2.91 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 18 | 2.91 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 18 | 2.91 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 18 | 2.91 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 18 | 2.91 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 18 | 2.91 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 5 | 2.91 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 5 | 2.91 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 5 | 2.91 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 3 | 2.91 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 3 | 2.91 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 2 | 2.91 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 2 | 2.91 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 2 | 2.91 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 4 | 2.91 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 18 | 2.91 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 17 | 2.91 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 17 | 2.91 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 17 | 2.91 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 13 | 2.91 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 13 | 2.91 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 13 | 2.91 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 12 | 2.91 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 11 | 2.91 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 17 | 2.91 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 12 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 3 | 2.91 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 5 | 2.91 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 19 | 2.91 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 5 | 2.91 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 13 | 2.91 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 13 | 2.91 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 2 | 2.91 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 14 | 2.91 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 14 | 2.91 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 2 | 2.91 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 15 | 2.91 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 15 | 2.91 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 15 | 2.91 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 2.91 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 17 | 2.91 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 17 | 2.91 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 17 | 2.91 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 16 | 2.91 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 13 | 2.91 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 3 | 2.91 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 20 | 2.91 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 11 | 2.91 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 18 | 2.91 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 1 | 2.91 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 10 | 2.91 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 10 | 2.91 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 10 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 11 | 2.91 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 11 | 2.91 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 9 | 2.91 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 9 | 2.91 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 9 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 17 | 2.91 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 13 | 2.91 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 13 | 2.91 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 13 | 2.91 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 11 | 2.91 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 7 | 2.91 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 17 | 2.91 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 17 | 2.91 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 17 | 2.91 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 3 | 2.91 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 10 | 2.91 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 10 | 2.91 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 10 | 2.91 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 8 | 2.91 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 1 | 2.91 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 5 | 2.91 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 18 | 2.91 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 7 | 2.91 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 19 | 2.91 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 18 | 2.91 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 2 | 2.91 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 11 | 2.91 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 12 | 2.91 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 5 | 2.91 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 7 | 2.91 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 9 | 2.91 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 10 | 2.91 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 11 | 2.91 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 14 | 2.91 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 15 | 2.91 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 15 | 2.91 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 15 | 2.91 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 15 | 2.91 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 16 | 2.91 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 7 | 2.91 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 7 | 2.91 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 7 | 2.91 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 7 | 2.91 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 7 | 2.91 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 7 | 2.91 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 20 | 2.91 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 16 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 16 | 2.91 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 16 | 2.91 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 16 | 2.91 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 16 | 2.91 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 16 | 2.91 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 16 | 2.91 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 16 | 2.91 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 16 | 2.91 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 17 | 2.91 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 17 | 2.91 |
| (1,4810) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 17 | 2.91 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 17 | 2.91 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 17 | 2.91 |
| (1,4810) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 17 | 2.91 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 17 | 2.91 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 17 | 2.91 |
| (1,4810) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 17 | 2.91 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 10 | 2.91 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 10 | 2.91 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 10 | 2.91 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 17 | 2.91 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 17 | 2.91 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 17 | 2.91 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 20 | 2.91 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 20 | 2.91 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 1 | 2.91 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 20 | 2.91 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 20 | 2.91 |
| (1,4586) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 5 | 2.91 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 14 | 2.91 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 16 | 2.91 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 16 | 2.91 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 15 | 2.91 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 15 | 2.91 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 15 | 2.91 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 15 | 2.91 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 15 | 2.91 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 6 | 2.91 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 14 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 5 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 5 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 6 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 6 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 10 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 10 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 11 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 11 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 19 | 2.91 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 19 | 2.91 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 16 | 2.91 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 16 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 15 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 15 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 15 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 15 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 15 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 15 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 16 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 16 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 16 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 16 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 16 | 2.91 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 16 | 2.91 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 16 | 2.91 |
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 14 | 2.91 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 14 | 2.91 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 5 | 2.91 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 5 | 2.91 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 7 | 2.91 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 7 | 2.91 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 4 | 2.91 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 4 | 2.91 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 16 | 2.91 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 16 | 2.91 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 13 | 2.91 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 13 | 2.91 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 13 | 2.91 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 13 | 2.91 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 17 | 2.91 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 17 | 2.91 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 17 | 2.91 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 17 | 2.91 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 17 | 2.91 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 17 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 17 | 2.91 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 1 | 2.91 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 1 | 2.91 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 1 | 2.91 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 1 | 2.91 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 1 | 2.91 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 1 | 2.91 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 1 | 2.91 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 1 | 2.91 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 1 | 2.91 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 14 | 2.91 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 19 | 2.91 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 19 | 2.91 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 2.91 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 2.91 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 11 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 11 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 11 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 11 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 11 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 11 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 18 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 18 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 18 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 18 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 18 | 2.91 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 18 | 2.91 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 16 | 2.91 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 16 | 2.91 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 16 | 2.91 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 13 | 2.91 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 19 | 2.91 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 8 | 2.91 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 9 | 2.91 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 18 | 2.91 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 10 | 2.91 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 1 | 2.91 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 5 | 2.91 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 5 | 2.91 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 2.91 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 2.91 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 15 | 2.91 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 15 | 2.91 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 15 | 2.91 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 15 | 2.91 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 15 | 2.91 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 15 | 2.91 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 6 | 2.91 |
| (1,3824) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 6 | 2.91 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 6 | 2.91 |
| (1,3824) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 6 | 2.91 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 6 | 2.91 |
| (1,3824) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 6 | 2.91 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 8 | 2.91 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 8 | 2.91 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 16 | 2.91 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 9 | 2.91 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 11 | 2.91 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 11 | 2.91 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 3 | 2.91 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 3 | 2.91 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 3 | 2.91 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 3 | 2.91 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 3 | 2.91 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 3 | 2.91 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 14 | 2.91 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 14 | 2.91 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 13 | 2.91 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 13 | 2.91 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 15 | 2.91 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 15 | 2.91 |
| (1,3568) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 15 | 2.91 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 11 | 2.91 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 11 | 2.91 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 11 | 2.91 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 6 | 2.91 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 6 | 2.91 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 6 | 2.91 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 6 | 2.91 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 6 | 2.91 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 6 | 2.91 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 16 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 16 | 2.91 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 16 | 2.91 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 16 | 2.91 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 16 | 2.91 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 16 | 2.91 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 16 | 2.91 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 16 | 2.91 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 16 | 2.91 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 2 | 2.91 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 2 | 2.91 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 2 | 2.91 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 2 | 2.91 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 2 | 2.91 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 2 | 2.91 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 2 | 2.91 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 2 | 2.91 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 2 | 2.91 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 11 | 2.91 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 11 | 2.91 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 11 | 2.91 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 10 | 2.91 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 5 | 2.91 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 1 | 2.91 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 7 | 2.91 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 18 | 2.91 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 3 | 2.91 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 18 | 2.91 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 18 | 2.91 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 9 | 2.91 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 18 | 2.91 |
| (1,3202) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 11 | 2.91 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 16 | 2.91 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 16 | 2.91 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 19 | 2.91 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 5 | 2.91 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 9 | 2.91 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 16 | 2.91 |
| (1,3102) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 9 | 2.91 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 5 | 2.91 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 5 | 2.91 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 8 | 2.91 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 11 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 11 | 2.91 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 11 | 2.91 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 7 | 2.91 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 4 | 2.91 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 1 | 2.91 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 6 | 2.91 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 7 | 2.91 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 14 | 2.91 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 5 | 2.91 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 11 | 2.91 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 6 | 2.91 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 11 | 2.91 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 9 | 2.91 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 9 | 2.91 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 20 | 2.91 |
| (1,2852) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 1 | 2.91 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 8 | 2.91 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 18 | 2.91 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 19 | 2.91 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 19 | 2.91 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 3 | 2.91 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 3 | 2.91 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 10 | 2.91 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 10 | 2.91 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 2 | 2.91 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 2 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 2 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 2 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 2 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 2 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 2 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 2 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 9 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 9 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 9 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 9 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 9 | 2.91 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 9 | 2.91 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 19 | 2.91 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 19 | 2.91 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 14 | 2.91 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 14 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 1 | 2.91 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 1 | 2.91 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 19 | 2.91 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 19 | 2.91 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 4 | 2.91 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 4 | 2.91 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 8 | 2.91 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 17 | 2.91 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 9 | 2.91 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 9 | 2.91 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 9 | 2.91 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 3 | 2.91 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 17 | 2.91 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 4 | 2.91 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 19 | 2.91 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 11 | 2.91 |
| (1,2392) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 13 | 2.91 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 4 | 2.91 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 6 | 2.91 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 12 | 2.91 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 8 | 2.91 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 7 | 2.91 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 19 | 2.91 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 20 | 2.91 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 5 | 2.91 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 17 | 2.91 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 19 | 2.91 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 10 | 2.91 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 10 | 2.91 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 10 | 2.91 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 12 | 2.91 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 17 | 2.91 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 17 | 2.91 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 17 | 2.91 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 17 | 2.91 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 17 | 2.91 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 17 | 2.91 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 17 | 2.91 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 17 | 2.91 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 17 | 2.91 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 9 | 2.91 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 13 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 20 | 2.91 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 15 | 2.91 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 16 | 2.91 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 18 | 2.91 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 18 | 2.91 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 18 | 2.91 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 18 | 2.91 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 18 | 2.91 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 18 | 2.91 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 18 | 2.91 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 18 | 2.91 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 18 | 2.91 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 3 | 2.91 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 18 | 2.91 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 13 | 2.91 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 13 | 2.91 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 13 | 2.91 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 13 | 2.91 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 13 | 2.91 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 13 | 2.91 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 13 | 2.91 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 13 | 2.91 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 13 | 2.91 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 5 | 2.91 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 5 | 2.91 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 5 | 2.91 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 1 | 2.91 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 7 | 2.91 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 11 | 2.91 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 2 | 2.91 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 2 | 2.91 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 2 | 2.91 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 3 | 2.91 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 13 | 2.91 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 15 | 2.91 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 12 | 2.91 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 15 | 2.91 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 20 | 2.91 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 8 | 2.91 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 17 | 2.91 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 17 | 2.91 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 17 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 2 | 2.91 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 8 | 2.91 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 9 | 2.91 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 20 | 2.91 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 13 | 2.91 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 13 | 2.91 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 13 | 2.91 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 12 | 2.91 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 11 | 2.91 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 17 | 2.91 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 12 | 2.91 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 3 | 2.91 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 12 | 2.91 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 5 | 2.91 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 11 | 2.91 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 2 | 2.91 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 14 | 2.91 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 15 | 2.91 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 5 | 2.91 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 13 | 2.91 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 18 | 2.91 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 3 | 2.91 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 13 | 2.91 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 1 | 2.91 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 10 | 2.91 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 10 | 2.91 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 8 | 2.91 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 16 | 2.91 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 2 | 2.91 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 14 | 2.91 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 19 | 2.91 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 19 | 2.91 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 14 | 2.91 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 14 | 2.91 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 2 | 2.91 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 15 | 2.91 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 15 | 2.91 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 15 | 2.91 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 5 | 2.91 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 2.91 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 17 | 2.91 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 9 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 1 | 2.91 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 18 | 2.91 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 3 | 2.91 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 18 | 2.91 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 16 | 2.91 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 4 | 2.91 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 5 | 2.91 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 10 | 2.91 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 9 | 2.91 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 4 | 2.91 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 5 | 2.91 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 12 | 2.91 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 16 | 2.91 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 20 | 2.91 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 2 | 2.91 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 10 | 2.91 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 5 | 2.91 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 13 | 2.91 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 18 | 2.91 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 3 | 2.91 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 7 | 2.91 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 16 | 2.91 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 20 | 2.91 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 3 | 2.91 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 16 | 2.91 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 16 | 2.91 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 16 | 2.91 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 14 | 2.91 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 14 | 2.91 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 14 | 2.91 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 19 | 2.91 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 19 | 2.91 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 1 | 2.91 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 4 | 2.91 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 6 | 2.91 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 10 | 2.91 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 11 | 2.91 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 12 | 2.91 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 16 | 2.91 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 17 | 2.91 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 2 | 2.91 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 5 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 14 | 2.91 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 20 | 2.91 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 13 | 2.91 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 17 | 2.91 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 19 | 2.91 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 3 | 2.91 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 6 | 2.91 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 13 | 2.91 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 16 | 2.91 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 18 | 2.91 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 3 | 2.91 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 19 | 2.91 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 13 | 2.91 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 1 | 2.91 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 3 | 2.91 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 17 | 2.91 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 17 | 2.91 |
| (1,601) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 11 | 2.91 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 10 | 2.91 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 10 | 2.91 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 10 | 2.91 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 14 | 2.91 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 14 | 2.91 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 14 | 2.91 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 7 | 2.91 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 7 | 2.91 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 7 | 2.91 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 16 | 2.91 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 12 | 2.91 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 12 | 2.91 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 12 | 2.91 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 18 | 2.91 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 18 | 2.91 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 18 | 2.91 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 6 | 2.91 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 6 | 2.91 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 6 | 2.91 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 6 | 2.91 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 6 | 2.91 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 6 | 2.91 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 6 | 2.91 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 6 | 2.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 6 | 2.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 10 | 2.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 10 | 2.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 10 | 2.91 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 2 | 2.91 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 16 | 2.91 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 18 | 2.91 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 18 | 2.91 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 4 | 2.9 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 4 | 2.9 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 4 | 2.9 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 17 | 2.9 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 12 | 2.9 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 12 | 2.9 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 12 | 2.9 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 16 | 2.9 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 16 | 2.9 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 15 | 2.9 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 15 | 2.9 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 6 | 2.9 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 6 | 2.9 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 5 | 2.9 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 5 | 2.9 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 5 | 2.9 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 5 | 2.9 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 5 | 2.9 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 5 | 2.9 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 3 | 2.9 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 3 | 2.9 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 14 | 2.9 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 14 | 2.9 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 14 | 2.9 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 14 | 2.9 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 12 | 2.9 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 12 | 2.9 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 13 | 2.9 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 13 | 2.9 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 13 | 2.9 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 13 | 2.9 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 13 | 2.9 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 13 | 2.9 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 10 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 10 | 2.9 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 2 | 2.9 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 2 | 2.9 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 4 | 2.9 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 4 | 2.9 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 4 | 2.9 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 4 | 2.9 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 4 | 2.9 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 4 | 2.9 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 13 | 2.9 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 13 | 2.9 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 1 | 2.9 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 1 | 2.9 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 1 | 2.9 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 1 | 2.9 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 1 | 2.9 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 1 | 2.9 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 4 | 2.9 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 4 | 2.9 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 19 | 2.9 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 19 | 2.9 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 19 | 2.9 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 19 | 2.9 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 19 | 2.9 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 19 | 2.9 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 13 | 2.9 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 13 | 2.9 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 13 | 2.9 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 13 | 2.9 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 13 | 2.9 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 13 | 2.9 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 7 | 2.9 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 7 | 2.9 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 3 | 2.9 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 3 | 2.9 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD2 | 8 | 2.9 |
| (1,8964) | 1:74:A:ARG:H | 1:74:A:ARG:HD3 | 8 | 2.9 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 7 | 2.9 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 7 | 2.9 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 18 | 2.9 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 18 | 2.9 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 8 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 8 | 2.9 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 8 | 2.9 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 8 | 2.9 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 8 | 2.9 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 8 | 2.9 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 8 | 2.9 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 8 | 2.9 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 16 | 2.9 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 16 | 2.9 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 2 | 2.9 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 2 | 2.9 |
| (1,8791) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 2 | 2.9 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 2 | 2.9 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 2 | 2.9 |
| (1,8791) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 2 | 2.9 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 14 | 2.9 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 14 | 2.9 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 4 | 2.9 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 4 | 2.9 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 4 | 2.9 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 4 | 2.9 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 14 | 2.9 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 14 | 2.9 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 5 | 2.9 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 5 | 2.9 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD21 | 13 | 2.9 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD22 | 13 | 2.9 |
| (1,8132) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD23 | 13 | 2.9 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 3 | 2.9 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 1 | 2.9 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 1 | 2.9 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 1 | 2.9 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 1 | 2.9 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 1 | 2.9 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 1 | 2.9 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 1 | 2.9 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 1 | 2.9 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 1 | 2.9 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 14 | 2.9 |
| (1,7794) | 1:59:A:HIS:HA | 1:158:A:ILE:H | 15 | 2.9 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 18 | 2.9 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 4 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 4 | 2.9 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 17 | 2.9 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 17 | 2.9 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 17 | 2.9 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 6 | 2.9 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 6 | 2.9 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 6 | 2.9 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 6 | 2.9 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 6 | 2.9 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 6 | 2.9 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 10 | 2.9 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 10 | 2.9 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 1 | 2.9 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 1 | 2.9 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 18 | 2.9 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 18 | 2.9 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 13 | 2.9 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 13 | 2.9 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 12 | 2.9 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 13 | 2.9 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 16 | 2.9 |
| (1,7106) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 16 | 2.9 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 17 | 2.9 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 10 | 2.9 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 1 | 2.9 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 1 | 2.9 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 9 | 2.9 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 19 | 2.9 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 9 | 2.9 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 1 | 2.9 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 2 | 2.9 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 16 | 2.9 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 15 | 2.9 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 15 | 2.9 |
| (1,6904) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 15 | 2.9 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 15 | 2.9 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 12 | 2.9 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 8 | 2.9 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 8 | 2.9 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 12 | 2.9 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 12 | 2.9 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 12 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 12 | 2.9 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 1 | 2.9 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 15 | 2.9 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 6 | 2.9 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 15 | 2.9 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 10 | 2.9 |
| (1,6593) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 3 | 2.9 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 3 | 2.9 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 4 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 7 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 7 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 7 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 11 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 11 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 11 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 13 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 13 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 13 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 19 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 19 | 2.9 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 19 | 2.9 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 12 | 2.9 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 12 | 2.9 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 12 | 2.9 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 14 | 2.9 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 14 | 2.9 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 14 | 2.9 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 5 | 2.9 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 15 | 2.9 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 15 | 2.9 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 15 | 2.9 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 9 | 2.9 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 9 | 2.9 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 9 | 2.9 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 17 | 2.9 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 17 | 2.9 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 17 | 2.9 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 1 | 2.9 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 1 | 2.9 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 4 | 2.9 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 13 | 2.9 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 8 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 8 | 2.9 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 8 | 2.9 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 8 | 2.9 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 8 | 2.9 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 8 | 2.9 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 8 | 2.9 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 8 | 2.9 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 8 | 2.9 |
| (1,6106) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 2.9 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 5 | 2.9 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 15 | 2.9 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 5 | 2.9 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 5 | 2.9 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 6 | 2.9 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 17 | 2.9 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 9 | 2.9 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 1 | 2.9 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 1 | 2.9 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 1 | 2.9 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 7 | 2.9 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 7 | 2.9 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 6 | 2.9 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 14 | 2.9 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 11 | 2.9 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 12 | 2.9 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 12 | 2.9 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 1 | 2.9 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 11 | 2.9 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 16 | 2.9 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 20 | 2.9 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 20 | 2.9 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 8 | 2.9 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 2 | 2.9 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 2 | 2.9 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 16 | 2.9 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 16 | 2.9 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 11 | 2.9 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 10 | 2.9 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 13 | 2.9 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 4 | 2.9 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 4 | 2.9 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 4 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 4 | 2.9 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 4 | 2.9 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 4 | 2.9 |
| (1,5632) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 13 | 2.9 |
| (1,5632) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 13 | 2.9 |
| (1,5632) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 13 | 2.9 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 5 | 2.9 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 5 | 2.9 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 5 | 2.9 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 7 | 2.9 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 7 | 2.9 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 3 | 2.9 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 8 | 2.9 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 5 | 2.9 |
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 19 | 2.9 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 1 | 2.9 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 1 | 2.9 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 1 | 2.9 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 18 | 2.9 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 18 | 2.9 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 18 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 2 | 2.9 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 2 | 2.9 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 10 | 2.9 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 2 | 2.9 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 2 | 2.9 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 2 | 2.9 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 8 | 2.9 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 8 | 2.9 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 8 | 2.9 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 5 | 2.9 |
| (1,5274) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 17 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5274) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 17 | 2.9 |
| (1,5274) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 17 | 2.9 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 5 | 2.9 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 5 | 2.9 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 5 | 2.9 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 2 | 2.9 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 12 | 2.9 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 16 | 2.9 |
| (1,5158) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 9 | 2.9 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 20 | 2.9 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 20 | 2.9 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 20 | 2.9 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 3 | 2.9 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 17 | 2.9 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 12 | 2.9 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 8 | 2.9 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 6 | 2.9 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 17 | 2.9 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 7 | 2.9 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 1 | 2.9 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 17 | 2.9 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 20 | 2.9 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 20 | 2.9 |
| (1,4896) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 20 | 2.9 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 20 | 2.9 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 20 | 2.9 |
| (1,4896) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 20 | 2.9 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 7 | 2.9 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 7 | 2.9 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 7 | 2.9 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 19 | 2.9 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 4 | 2.9 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 4 | 2.9 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 20 | 2.9 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 20 | 2.9 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 15 | 2.9 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 15 | 2.9 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 12 | 2.9 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 6 | 2.9 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 6 | 2.9 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 1 | 2.9 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 12 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 12 | 2.9 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 13 | 2.9 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 13 | 2.9 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 4 | 2.9 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 4 | 2.9 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 4 | 2.9 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 4 | 2.9 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 4 | 2.9 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 4 | 2.9 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 2 | 2.9 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 2 | 2.9 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 3 | 2.9 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 3 | 2.9 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 10 | 2.9 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 10 | 2.9 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 15 | 2.9 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 15 | 2.9 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 15 | 2.9 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 4 | 2.9 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 4 | 2.9 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 4 | 2.9 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 4 | 2.9 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 4 | 2.9 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 4 | 2.9 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 13 | 2.9 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 13 | 2.9 |
| (1,4244) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 5 | 2.9 |
| (1,4244) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 5 | 2.9 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 6 | 2.9 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 6 | 2.9 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 14 | 2.9 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 14 | 2.9 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 19 | 2.9 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 19 | 2.9 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 1 | 2.9 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 3 | 2.9 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 19 | 2.9 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 1 | 2.9 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 1 | 2.9 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 1 | 2.9 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 1 | 2.9 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 1 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 1 | 2.9 |
| (1,4115) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 3 | 2.9 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 1 | 2.9 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 1 | 2.9 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 1 | 2.9 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 1 | 2.9 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 1 | 2.9 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 1 | 2.9 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 15 | 2.9 |
| (1,4038) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 15 | 2.9 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 7 | 2.9 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 7 | 2.9 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 1 | 2.9 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 1 | 2.9 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 17 | 2.9 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 17 | 2.9 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 2 | 2.9 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 19 | 2.9 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 19 | 2.9 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 7 | 2.9 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 7 | 2.9 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 5 | 2.9 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 5 | 2.9 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 18 | 2.9 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 18 | 2.9 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 3 | 2.9 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 12 | 2.9 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 12 | 2.9 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 12 | 2.9 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 12 | 2.9 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 12 | 2.9 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 12 | 2.9 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 2 | 2.9 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 2 | 2.9 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 2 | 2.9 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 2 | 2.9 |
| (1,3756) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 2 | 2.9 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 2 | 2.9 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 2 | 2.9 |
| (1,3756) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 2 | 2.9 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 18 | 2.9 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 14 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 14 | 2.9 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 11 | 2.9 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 11 | 2.9 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 5 | 2.9 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 5 | 2.9 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 5 | 2.9 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 1 | 2.9 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 1 | 2.9 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 12 | 2.9 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 13 | 2.9 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 16 | 2.9 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 16 | 2.9 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 17 | 2.9 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 6 | 2.9 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 12 | 2.9 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 16 | 2.9 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 17 | 2.9 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 6 | 2.9 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 6 | 2.9 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 16 | 2.9 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 4 | 2.9 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 16 | 2.9 |
| (1,3192) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 16 | 2.9 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 5 | 2.9 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 16 | 2.9 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 16 | 2.9 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 17 | 2.9 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 17 | 2.9 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 3 | 2.9 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 6 | 2.9 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 8 | 2.9 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 17 | 2.9 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 10 | 2.9 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 4 | 2.9 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 11 | 2.9 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 7 | 2.9 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 8 | 2.9 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 1 | 2.9 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 5 | 2.9 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 12 | 2.9 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 20 | 2.9 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 2 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 18 | 2.9 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 18 | 2.9 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 16 | 2.9 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 2 | 2.9 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 16 | 2.9 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 15 | 2.9 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 15 | 2.9 |
| (1,2906) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 15 | 2.9 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 15 | 2.9 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 3 | 2.9 |
| (1,2860) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 6 | 2.9 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 15 | 2.9 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 13 | 2.9 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 14 | 2.9 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 16 | 2.9 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 12 | 2.9 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 15 | 2.9 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 8 | 2.9 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 8 | 2.9 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 20 | 2.9 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 20 | 2.9 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 16 | 2.9 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 16 | 2.9 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 1 | 2.9 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 15 | 2.9 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 1 | 2.9 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 15 | 2.9 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 4 | 2.9 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 20 | 2.9 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 10 | 2.9 |
| (1,2450) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 3 | 2.9 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 18 | 2.9 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 1 | 2.9 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 18 | 2.9 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 19 | 2.9 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 13 | 2.9 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 17 | 2.9 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 4 | 2.9 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 9 | 2.9 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 14 | 2.9 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 7 | 2.9 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 12 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 16 | 2.9 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 17 | 2.9 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 9 | 2.9 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 3 | 2.9 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 8 | 2.9 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 9 | 2.9 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 10 | 2.9 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 15 | 2.9 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 3 | 2.9 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 4 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 7 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 7 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 7 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 11 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 11 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 11 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 13 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 13 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 13 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 19 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 19 | 2.9 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 19 | 2.9 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 1 | 2.9 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 7 | 2.9 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 11 | 2.9 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 18 | 2.9 |
| (1,2181) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 17 | 2.9 |
| (1,2181) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 17 | 2.9 |
| (1,2181) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 17 | 2.9 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 1 | 2.9 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 18 | 2.9 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 12 | 2.9 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 12 | 2.9 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 12 | 2.9 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 10 | 2.9 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 10 | 2.9 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 10 | 2.9 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 8 | 2.9 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 16 | 2.9 |
| (1,2086) | 1:158:A:ILE:H | 1:158:A:ILE:HA | 19 | 2.9 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 12 | 2.9 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 20 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 1 | 2.9 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 7 | 2.9 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 11 | 2.9 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 14 | 2.9 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 14 | 2.9 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 14 | 2.9 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 3 | 2.9 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 5 | 2.9 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 15 | 2.9 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 15 | 2.9 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 15 | 2.9 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 9 | 2.9 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 9 | 2.9 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 9 | 2.9 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 17 | 2.9 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 17 | 2.9 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 17 | 2.9 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 2 | 2.9 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 2 | 2.9 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 2 | 2.9 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 9 | 2.9 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 14 | 2.9 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 18 | 2.9 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 18 | 2.9 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 18 | 2.9 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 8 | 2.9 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 8 | 2.9 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 4 | 2.9 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 5 | 2.9 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 20 | 2.9 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 15 | 2.9 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 13 | 2.9 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 15 | 2.9 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 11 | 2.9 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 7 | 2.9 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 10 | 2.9 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 12 | 2.9 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 12 | 2.9 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 12 | 2.9 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 13 | 2.9 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 18 | 2.9 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 8 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 8 | 2.9 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 8 | 2.9 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 8 | 2.9 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 8 | 2.9 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 8 | 2.9 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 8 | 2.9 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 8 | 2.9 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 8 | 2.9 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 3 | 2.9 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 6 | 2.9 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 18 | 2.9 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 20 | 2.9 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 16 | 2.9 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 16 | 2.9 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 16 | 2.9 |
| (1,1678) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 2.9 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 19 | 2.9 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 14 | 2.9 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 9 | 2.9 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 18 | 2.9 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 5 | 2.9 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 10 | 2.9 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 16 | 2.9 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 15 | 2.9 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 5 | 2.9 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 5 | 2.9 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 5 | 2.9 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 1 | 2.9 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 13 | 2.9 |
| (1,1462) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 14 | 2.9 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 7 | 2.9 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 6 | 2.9 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 7 | 2.9 |
| (1,1410) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 9 | 2.9 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 18 | 2.9 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 9 | 2.9 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 1 | 2.9 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 19 | 2.9 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 12 | 2.9 |
| (1,1344) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 12 | 2.9 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 12 | 2.9 |
| (1,1344) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 12 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 12 | 2.9 |
| (1,1344) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 12 | 2.9 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 1 | 2.9 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 6 | 2.9 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 16 | 2.9 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 9 | 2.9 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 14 | 2.9 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 11 | 2.9 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 12 | 2.9 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 12 | 2.9 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 1 | 2.9 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 11 | 2.9 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 16 | 2.9 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 7 | 2.9 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 14 | 2.9 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 18 | 2.9 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 20 | 2.9 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 20 | 2.9 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 8 | 2.9 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 2 | 2.9 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 2 | 2.9 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 16 | 2.9 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 16 | 2.9 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 3 | 2.9 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 5 | 2.9 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 13 | 2.9 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 15 | 2.9 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 11 | 2.9 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 13 | 2.9 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 15 | 2.9 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 19 | 2.9 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 10 | 2.9 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 4 | 2.9 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 8 | 2.9 |
| (1,954) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 4 | 2.9 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 10 | 2.9 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 20 | 2.9 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 14 | 2.9 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 13 | 2.9 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 6 | 2.9 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 9 | 2.9 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 18 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 3 | 2.9 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 4 | 2.9 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 4 | 2.9 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 4 | 2.9 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 4 | 2.9 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 4 | 2.9 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 4 | 2.9 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 15 | 2.9 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 15 | 2.9 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 15 | 2.9 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 15 | 2.9 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 15 | 2.9 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 15 | 2.9 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 4 | 2.9 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 4 | 2.9 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 4 | 2.9 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 4 | 2.9 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 4 | 2.9 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 4 | 2.9 |
| (1,846) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 13 | 2.9 |
| (1,846) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 13 | 2.9 |
| (1,846) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 13 | 2.9 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 1 | 2.9 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 1 | 2.9 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 1 | 2.9 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 11 | 2.9 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 11 | 2.9 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 5 | 2.9 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 5 | 2.9 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 5 | 2.9 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 18 | 2.9 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 7 | 2.9 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 7 | 2.9 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 10 | 2.9 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 3 | 2.9 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 3 | 2.9 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 1 | 2.9 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 14 | 2.9 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 15 | 2.9 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 1 | 2.9 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 2 | 2.9 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 4 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 7 | 2.9 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 8 | 2.9 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 9 | 2.9 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 14 | 2.9 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 17 | 2.9 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 18 | 2.9 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 20 | 2.9 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 3 | 2.9 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 8 | 2.9 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 4 | 2.9 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 5 | 2.9 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 19 | 2.9 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 16 | 2.9 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 1 | 2.9 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 1 | 2.9 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 1 | 2.9 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 18 | 2.9 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 18 | 2.9 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 18 | 2.9 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 3 | 2.9 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 3 | 2.9 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 3 | 2.9 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 19 | 2.9 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 11 | 2.9 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 12 | 2.9 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 12 | 2.9 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 12 | 2.9 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 12 | 2.9 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 12 | 2.9 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 12 | 2.9 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 14 | 2.9 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 14 | 2.9 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 14 | 2.9 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 2 | 2.9 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 2 | 2.9 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 2 | 2.9 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 8 | 2.9 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 8 | 2.9 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 8 | 2.9 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 9 | 2.9 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 5 | 2.9 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 5 | 2.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 5 | 2.9 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 20 | 2.9 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 4 | 2.9 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 4 | 2.9 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 12 | 2.9 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 12 | 2.9 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 12 | 2.9 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 12 | 2.9 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 12 | 2.9 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 12 | 2.9 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 12 | 2.89 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 17 | 2.89 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 15 | 2.89 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 15 | 2.89 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 15 | 2.89 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 1 | 2.89 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 1 | 2.89 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 5 | 2.89 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 5 | 2.89 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 16 | 2.89 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 16 | 2.89 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 6 | 2.89 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 6 | 2.89 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 6 | 2.89 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 6 | 2.89 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 6 | 2.89 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 6 | 2.89 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 7 | 2.89 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 7 | 2.89 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 16 | 2.89 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 16 | 2.89 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 5 | 2.89 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 5 | 2.89 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 5 | 2.89 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 5 | 2.89 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 16 | 2.89 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 16 | 2.89 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 16 | 2.89 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 16 | 2.89 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 12 | 2.89 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 12 | 2.89 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 12 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 12 | 2.89 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 14 | 2.89 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 14 | 2.89 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 3 | 2.89 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 3 | 2.89 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 12 | 2.89 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 12 | 2.89 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 12 | 2.89 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 12 | 2.89 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD21 | 12 | 2.89 |
| (1,9125) | 1:89:A:ILE:HB | 1:90:A:ASN:HD22 | 12 | 2.89 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 4 | 2.89 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 4 | 2.89 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 14 | 2.89 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 14 | 2.89 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 14 | 2.89 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 14 | 2.89 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 14 | 2.89 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 14 | 2.89 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 9 | 2.89 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 9 | 2.89 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 12 | 2.89 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 12 | 2.89 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 9 | 2.89 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 9 | 2.89 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 3 | 2.89 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 3 | 2.89 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 9 | 2.89 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 9 | 2.89 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 6 | 2.89 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 6 | 2.89 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 6 | 2.89 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 6 | 2.89 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 11 | 2.89 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 11 | 2.89 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 11 | 2.89 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 11 | 2.89 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 13 | 2.89 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 13 | 2.89 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 16 | 2.89 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 16 | 2.89 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 2 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 2 | 2.89 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 1 | 2.89 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 1 | 2.89 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 18 | 2.89 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 18 | 2.89 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 18 | 2.89 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 18 | 2.89 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 18 | 2.89 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 18 | 2.89 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 18 | 2.89 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 18 | 2.89 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 18 | 2.89 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 4 | 2.89 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 4 | 2.89 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 7 | 2.89 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 7 | 2.89 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 14 | 2.89 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 14 | 2.89 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 19 | 2.89 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 8 | 2.89 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 10 | 2.89 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 10 | 2.89 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 1 | 2.89 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 1 | 2.89 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 1 | 2.89 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 13 | 2.89 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 13 | 2.89 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 13 | 2.89 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 14 | 2.89 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 14 | 2.89 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 14 | 2.89 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 14 | 2.89 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 7 | 2.89 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 7 | 2.89 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 9 | 2.89 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 9 | 2.89 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 8 | 2.89 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 2 | 2.89 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 16 | 2.89 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 2.89 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 15 | 2.89 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 6 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 7 | 2.89 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 15 | 2.89 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 11 | 2.89 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 9 | 2.89 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 9 | 2.89 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 19 | 2.89 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 15 | 2.89 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 17 | 2.89 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 19 | 2.89 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 2 | 2.89 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 6 | 2.89 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 6 | 2.89 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 2 | 2.89 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 2 | 2.89 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 2 | 2.89 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 2 | 2.89 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 3 | 2.89 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 3 | 2.89 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 3 | 2.89 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 3 | 2.89 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 6 | 2.89 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 7 | 2.89 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 7 | 2.89 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 7 | 2.89 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 7 | 2.89 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 6 | 2.89 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 7 | 2.89 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 12 | 2.89 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 20 | 2.89 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 5 | 2.89 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 18 | 2.89 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 3 | 2.89 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 3 | 2.89 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 3 | 2.89 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 3 | 2.89 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 3 | 2.89 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 3 | 2.89 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 3 | 2.89 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 3 | 2.89 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 3 | 2.89 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 19 | 2.89 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 19 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 19 | 2.89 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 8 | 2.89 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 8 | 2.89 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 8 | 2.89 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 20 | 2.89 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 1 | 2.89 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 2 | 2.89 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 2 | 2.89 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 2 | 2.89 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 5 | 2.89 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 5 | 2.89 |
| (1,6249) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 5 | 2.89 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 2 | 2.89 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 2 | 2.89 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 2 | 2.89 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 3 | 2.89 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 5 | 2.89 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 10 | 2.89 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 10 | 2.89 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 17 | 2.89 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 19 | 2.89 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 11 | 2.89 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 17 | 2.89 |
| (1,5948) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 15 | 2.89 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 3 | 2.89 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 3 | 2.89 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 3 | 2.89 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 19 | 2.89 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 12 | 2.89 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 7 | 2.89 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 19 | 2.89 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 5 | 2.89 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 4 | 2.89 |
| (1,5735) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 8 | 2.89 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 4 | 2.89 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 4 | 2.89 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 4 | 2.89 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 3 | 2.89 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 6 | 2.89 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 12 | 2.89 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 6 | 2.89 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 13 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 18 | 2.89 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 18 | 2.89 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 4 | 2.89 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 15 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 18 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 18 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 18 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 18 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 18 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 18 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 18 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 18 | 2.89 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 18 | 2.89 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 19 | 2.89 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 19 | 2.89 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 19 | 2.89 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 19 | 2.89 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 7 | 2.89 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 10 | 2.89 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 10 | 2.89 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 10 | 2.89 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 18 | 2.89 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 18 | 2.89 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 18 | 2.89 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 9 | 2.89 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 19 | 2.89 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 8 | 2.89 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 7 | 2.89 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 20 | 2.89 |
| (1,5148) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 3 | 2.89 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 3 | 2.89 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 3 | 2.89 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 3 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 18 | 2.89 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 2 | 2.89 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 17 | 2.89 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 16 | 2.89 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 10 | 2.89 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 12 | 2.89 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 1 | 2.89 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 19 | 2.89 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 2 | 2.89 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 2 | 2.89 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 2 | 2.89 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 2 | 2.89 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 2 | 2.89 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 2 | 2.89 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 2 | 2.89 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 2 | 2.89 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 2 | 2.89 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 11 | 2.89 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 11 | 2.89 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 11 | 2.89 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 11 | 2.89 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 11 | 2.89 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 11 | 2.89 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 11 | 2.89 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 11 | 2.89 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 11 | 2.89 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 6 | 2.89 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 6 | 2.89 |
| (1,4798) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 6 | 2.89 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 4 | 2.89 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 4 | 2.89 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 4 | 2.89 |
| (1,4718) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 1 | 2.89 |
| (1,4718) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 1 | 2.89 |
| (1,4718) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 1 | 2.89 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 13 | 2.89 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 13 | 2.89 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 13 | 2.89 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 11 | 2.89 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 11 | 2.89 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 7 | 2.89 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 7 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 12 | 2.89 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 12 | 2.89 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 19 | 2.89 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 19 | 2.89 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 2 | 2.89 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 2 | 2.89 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 15 | 2.89 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 15 | 2.89 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 18 | 2.89 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 10 | 2.89 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 10 | 2.89 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 1 | 2.89 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 1 | 2.89 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 16 | 2.89 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 16 | 2.89 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 8 | 2.89 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 4 | 2.89 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 4 | 2.89 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 4 | 2.89 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 11 | 2.89 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 11 | 2.89 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 11 | 2.89 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 6 | 2.89 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 6 | 2.89 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 6 | 2.89 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 6 | 2.89 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 6 | 2.89 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 6 | 2.89 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 7 | 2.89 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 7 | 2.89 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 16 | 2.89 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 16 | 2.89 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 16 | 2.89 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 20 | 2.89 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 12 | 2.89 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 12 | 2.89 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 14 | 2.89 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 14 | 2.89 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 3 | 2.89 |
| (1,4284) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 16 | 2.89 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 3 | 2.89 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 3 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 9 | 2.89 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 11 | 2.89 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 20 | 2.89 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 20 | 2.89 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 5 | 2.89 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 5 | 2.89 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 17 | 2.89 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 17 | 2.89 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 14 | 2.89 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 14 | 2.89 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 14 | 2.89 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 14 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 3 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 3 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 3 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 4 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 4 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 4 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 6 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 6 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 6 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 17 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 17 | 2.89 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 17 | 2.89 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 16 | 2.89 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 16 | 2.89 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 19 | 2.89 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 18 | 2.89 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 18 | 2.89 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 18 | 2.89 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 18 | 2.89 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 18 | 2.89 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 18 | 2.89 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 7 | 2.89 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 7 | 2.89 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 7 | 2.89 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 13 | 2.89 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 16 | 2.89 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 16 | 2.89 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 3 | 2.89 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 3 | 2.89 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 3 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 9 | 2.89 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 9 | 2.89 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 11 | 2.89 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 9 | 2.89 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 9 | 2.89 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 17 | 2.89 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 15 | 2.89 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 16 | 2.89 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 16 | 2.89 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 15 | 2.89 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 15 | 2.89 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 15 | 2.89 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 15 | 2.89 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 15 | 2.89 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 15 | 2.89 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 2.89 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 2.89 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 2.89 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 6 | 2.89 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 6 | 2.89 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 6 | 2.89 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 6 | 2.89 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 11 | 2.89 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 11 | 2.89 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 11 | 2.89 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 11 | 2.89 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 16 | 2.89 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 16 | 2.89 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 2 | 2.89 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 2 | 2.89 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 4 | 2.89 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 4 | 2.89 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 2 | 2.89 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 8 | 2.89 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 7 | 2.89 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 10 | 2.89 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 11 | 2.89 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 20 | 2.89 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 14 | 2.89 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 11 | 2.89 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 3 | 2.89 |
| (1,3176) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 7 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 20 | 2.89 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 20 | 2.89 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 20 | 2.89 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 8 | 2.89 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 2 | 2.89 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 15 | 2.89 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 15 | 2.89 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 2.89 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 3 | 2.89 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 9 | 2.89 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 10 | 2.89 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 6 | 2.89 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 17 | 2.89 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 19 | 2.89 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 19 | 2.89 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 13 | 2.89 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 4 | 2.89 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 9 | 2.89 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 6 | 2.89 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 14 | 2.89 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 7 | 2.89 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 15 | 2.89 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 15 | 2.89 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 15 | 2.89 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 15 | 2.89 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 11 | 2.89 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 9 | 2.89 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 9 | 2.89 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 6 | 2.89 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 9 | 2.89 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 10 | 2.89 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 19 | 2.89 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 15 | 2.89 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 17 | 2.89 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 19 | 2.89 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 2 | 2.89 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 6 | 2.89 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 6 | 2.89 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 2 | 2.89 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 2 | 2.89 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 2 | 2.89 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 2 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 3 | 2.89 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 3 | 2.89 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 3 | 2.89 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 3 | 2.89 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 3 | 2.89 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 3 | 2.89 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 18 | 2.89 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 7 | 2.89 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 6 | 2.89 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 17 | 2.89 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 17 | 2.89 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 17 | 2.89 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 17 | 2.89 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 17 | 2.89 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 17 | 2.89 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 2 | 2.89 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 12 | 2.89 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 13 | 2.89 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 3 | 2.89 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 9 | 2.89 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 18 | 2.89 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 7 | 2.89 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 7 | 2.89 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 7 | 2.89 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 7 | 2.89 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 17 | 2.89 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 9 | 2.89 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 20 | 2.89 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 6 | 2.89 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 20 | 2.89 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 6 | 2.89 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 5 | 2.89 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 9 | 2.89 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 9 | 2.89 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 9 | 2.89 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 7 | 2.89 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 12 | 2.89 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 20 | 2.89 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 5 | 2.89 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 18 | 2.89 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 2 | 2.89 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 2 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 2 | 2.89 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 14 | 2.89 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 15 | 2.89 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 20 | 2.89 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 12 | 2.89 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 3 | 2.89 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 3 | 2.89 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 3 | 2.89 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 3 | 2.89 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 3 | 2.89 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 3 | 2.89 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 3 | 2.89 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 3 | 2.89 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 3 | 2.89 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 19 | 2.89 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 19 | 2.89 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 19 | 2.89 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 18 | 2.89 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 18 | 2.89 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 18 | 2.89 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 8 | 2.89 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 8 | 2.89 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 8 | 2.89 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 20 | 2.89 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 2 | 2.89 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 2 | 2.89 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 2 | 2.89 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 1 | 2.89 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 2 | 2.89 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 2 | 2.89 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 2 | 2.89 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 14 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 5 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 5 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 5 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 5 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 5 | 2.89 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 5 | 2.89 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 10 | 2.89 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 5 | 2.89 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 5 | 2.89 |
| (1,1902) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 5 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 17 | 2.89 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 17 | 2.89 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 17 | 2.89 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 11 | 2.89 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 14 | 2.89 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 5 | 2.89 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 18 | 2.89 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 5 | 2.89 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 9 | 2.89 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 20 | 2.89 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 2 | 2.89 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 2 | 2.89 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 2 | 2.89 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 11 | 2.89 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 11 | 2.89 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 11 | 2.89 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 9 | 2.89 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 12 | 2.89 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 2 | 2.89 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 2 | 2.89 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 2 | 2.89 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 12 | 2.89 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 14 | 2.89 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 19 | 2.89 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 16 | 2.89 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 5 | 2.89 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 16 | 2.89 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 10 | 2.89 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 10 | 2.89 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 8 | 2.89 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 12 | 2.89 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 19 | 2.89 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 14 | 2.89 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 17 | 2.89 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 19 | 2.89 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 10 | 2.89 |
| (1,1416) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 9 | 2.89 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 11 | 2.89 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 17 | 2.89 |
| (1,1382) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 15 | 2.89 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 10 | 2.89 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 8 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 8 | 2.89 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 8 | 2.89 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 5 | 2.89 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 11 | 2.89 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 17 | 2.89 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 7 | 2.89 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 11 | 2.89 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 12 | 2.89 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 20 | 2.89 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 3 | 2.89 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 3 | 2.89 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 3 | 2.89 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 19 | 2.89 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 12 | 2.89 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 20 | 2.89 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 7 | 2.89 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 19 | 2.89 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 11 | 2.89 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 16 | 2.89 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 2 | 2.89 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 5 | 2.89 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 4 | 2.89 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 1 | 2.89 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 4 | 2.89 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 5 | 2.89 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 20 | 2.89 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 11 | 2.89 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 1 | 2.89 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 5 | 2.89 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 7 | 2.89 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 9 | 2.89 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 14 | 2.89 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 18 | 2.89 |
| (1,1020) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 8 | 2.89 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 4 | 2.89 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 4 | 2.89 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 4 | 2.89 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 2 | 2.89 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 3 | 2.89 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 8 | 2.89 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 9 | 2.89 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 18 | 2.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 6 | 2.89 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 12 | 2.89 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 1 | 2.89 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 10 | 2.89 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 6 | 2.89 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 4 | 2.89 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 18 | 2.89 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 13 | 2.89 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 18 | 2.89 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 18 | 2.89 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 5 | 2.89 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 9 | 2.89 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 9 | 2.89 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 18 | 2.89 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 18 | 2.89 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 18 | 2.89 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 18 | 2.89 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 18 | 2.89 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 18 | 2.89 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 5 | 2.89 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 15 | 2.89 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 19 | 2.89 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 4 | 2.89 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 17 | 2.89 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 9 | 2.89 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 7 | 2.89 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 15 | 2.89 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 2 | 2.89 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 4 | 2.89 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 20 | 2.89 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 1 | 2.89 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 1 | 2.89 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 1 | 2.89 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 1 | 2.89 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 1 | 2.89 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 1 | 2.89 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 19 | 2.89 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 6 | 2.89 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 12 | 2.89 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 12 | 2.89 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 12 | 2.89 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 4 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 7 | 2.88 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 19 | 2.88 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 19 | 2.88 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 6 | 2.88 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 6 | 2.88 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 17 | 2.88 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 17 | 2.88 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 17 | 2.88 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 17 | 2.88 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 4 | 2.88 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 4 | 2.88 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 5 | 2.88 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 5 | 2.88 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 14 | 2.88 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 14 | 2.88 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 11 | 2.88 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 11 | 2.88 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 11 | 2.88 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 11 | 2.88 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 11 | 2.88 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 11 | 2.88 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 19 | 2.88 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 19 | 2.88 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 10 | 2.88 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 10 | 2.88 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 6 | 2.88 |
| (1,9110) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 6 | 2.88 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 12 | 2.88 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 12 | 2.88 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 12 | 2.88 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 12 | 2.88 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 12 | 2.88 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 12 | 2.88 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 9 | 2.88 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 9 | 2.88 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 9 | 2.88 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 9 | 2.88 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 9 | 2.88 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 9 | 2.88 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 6 | 2.88 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 6 | 2.88 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 10 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 10 | 2.88 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 10 | 2.88 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 10 | 2.88 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 11 | 2.88 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 11 | 2.88 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 17 | 2.88 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 17 | 2.88 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 9 | 2.88 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 9 | 2.88 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 3 | 2.88 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 3 | 2.88 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 8 | 2.88 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 8 | 2.88 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 5 | 2.88 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 5 | 2.88 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 13 | 2.88 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 13 | 2.88 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 19 | 2.88 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 19 | 2.88 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 8 | 2.88 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 8 | 2.88 |
| (1,8485) | 1:155:A:GLY:H | 1:156:A:ILE:H | 13 | 2.88 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 14 | 2.88 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 6 | 2.88 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 13 | 2.88 |
| (1,8216) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 11 | 2.88 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 3 | 2.88 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 16 | 2.88 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 7 | 2.88 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 19 | 2.88 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 19 | 2.88 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 19 | 2.88 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 20 | 2.88 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 20 | 2.88 |
| (1,7603) | 1:26:A:ASN:H | 1:26:A:ASN:HD21 | 20 | 2.88 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 15 | 2.88 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 17 | 2.88 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 17 | 2.88 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 19 | 2.88 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 15 | 2.88 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 15 | 2.88 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 20 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 16 | 2.88 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 16 | 2.88 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 6 | 2.88 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 15 | 2.88 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 15 | 2.88 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 10 | 2.88 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 4 | 2.88 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 7 | 2.88 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 12 | 2.88 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 2 | 2.88 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 17 | 2.88 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 2 | 2.88 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 4 | 2.88 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 8 | 2.88 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 15 | 2.88 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 17 | 2.88 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 17 | 2.88 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 17 | 2.88 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 17 | 2.88 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 12 | 2.88 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 1 | 2.88 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 1 | 2.88 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 1 | 2.88 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 13 | 2.88 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 3 | 2.88 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 11 | 2.88 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 4 | 2.88 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 12 | 2.88 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 13 | 2.88 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 20 | 2.88 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 10 | 2.88 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 13 | 2.88 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 12 | 2.88 |
| (1,6577) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 1 | 2.88 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 20 | 2.88 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 20 | 2.88 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 20 | 2.88 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 1 | 2.88 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 20 | 2.88 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 6 | 2.88 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 17 | 2.88 |
| (1,6454) | 1:144:A:GLY:H | 1:162:A:THR:HA | 15 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 15 | 2.88 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 15 | 2.88 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 15 | 2.88 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 12 | 2.88 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 18 | 2.88 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 17 | 2.88 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 17 | 2.88 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 17 | 2.88 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 17 | 2.88 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 17 | 2.88 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 17 | 2.88 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 17 | 2.88 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 17 | 2.88 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 17 | 2.88 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 6 | 2.88 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 6 | 2.88 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 1 | 2.88 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 1 | 2.88 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 1 | 2.88 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 17 | 2.88 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 17 | 2.88 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 9 | 2.88 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 17 | 2.88 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 18 | 2.88 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 19 | 2.88 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 19 | 2.88 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 7 | 2.88 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 12 | 2.88 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 12 | 2.88 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 12 | 2.88 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 12 | 2.88 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 12 | 2.88 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 12 | 2.88 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 7 | 2.88 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 4 | 2.88 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 4 | 2.88 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 4 | 2.88 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 15 | 2.88 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 15 | 2.88 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 15 | 2.88 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 3 | 2.88 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 13 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 18 | 2.88 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 18 | 2.88 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 16 | 2.88 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 15 | 2.88 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 15 | 2.88 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 18 | 2.88 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 1 | 2.88 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 2 | 2.88 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 11 | 2.88 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 11 | 2.88 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 11 | 2.88 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 11 | 2.88 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 11 | 2.88 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 11 | 2.88 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 11 | 2.88 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 11 | 2.88 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 11 | 2.88 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 19 | 2.88 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 8 | 2.88 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 8 | 2.88 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 8 | 2.88 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 5 | 2.88 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 8 | 2.88 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 2.88 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 12 | 2.88 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 15 | 2.88 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 6 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 15 | 2.88 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 15 | 2.88 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 7 | 2.88 |
| (1,5616) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 7 | 2.88 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 11 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 11 | 2.88 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 11 | 2.88 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 1 | 2.88 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 8 | 2.88 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 16 | 2.88 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 5 | 2.88 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 5 | 2.88 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 5 | 2.88 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 2.88 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 5 | 2.88 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 2 | 2.88 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 2 | 2.88 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 2 | 2.88 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 4 | 2.88 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 4 | 2.88 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 4 | 2.88 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 14 | 2.88 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 14 | 2.88 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 14 | 2.88 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 17 | 2.88 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 17 | 2.88 |
| (1,5110) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 17 | 2.88 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 10 | 2.88 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 10 | 2.88 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 10 | 2.88 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 3 | 2.88 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 6 | 2.88 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 8 | 2.88 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 13 | 2.88 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 12 | 2.88 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 13 | 2.88 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 5 | 2.88 |
| (1,4830) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 12 | 2.88 |
| (1,4830) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 12 | 2.88 |
| (1,4830) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 12 | 2.88 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 18 | 2.88 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 18 | 2.88 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 18 | 2.88 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 18 | 2.88 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 18 | 2.88 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 18 | 2.88 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 18 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 18 | 2.88 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 18 | 2.88 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 6 | 2.88 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 6 | 2.88 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 6 | 2.88 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 9 | 2.88 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 9 | 2.88 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 9 | 2.88 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 7 | 2.88 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 19 | 2.88 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 19 | 2.88 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 15 | 2.88 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 15 | 2.88 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 15 | 2.88 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 9 | 2.88 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 9 | 2.88 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 6 | 2.88 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 6 | 2.88 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 4 | 2.88 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 4 | 2.88 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 4 | 2.88 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 4 | 2.88 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 4 | 2.88 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 4 | 2.88 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 14 | 2.88 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 8 | 2.88 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 8 | 2.88 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 8 | 2.88 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 8 | 2.88 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 17 | 2.88 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 17 | 2.88 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 5 | 2.88 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 5 | 2.88 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 17 | 2.88 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 4 | 2.88 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 4 | 2.88 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 14 | 2.88 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 14 | 2.88 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 13 | 2.88 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 13 | 2.88 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 19 | 2.88 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 19 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 2.88 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 2.88 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 2.88 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 2.88 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 7 | 2.88 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 7 | 2.88 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 9 | 2.88 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 9 | 2.88 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 8 | 2.88 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 4 | 2.88 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 4 | 2.88 |
| (1,4220) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 4 | 2.88 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 8 | 2.88 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 8 | 2.88 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 8 | 2.88 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 11 | 2.88 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 12 | 2.88 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 12 | 2.88 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 17 | 2.88 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 17 | 2.88 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 17 | 2.88 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 17 | 2.88 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 17 | 2.88 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 17 | 2.88 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 11 | 2.88 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 11 | 2.88 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 11 | 2.88 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 11 | 2.88 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 2.88 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 2.88 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 2.88 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 6 | 2.88 |
| (1,4078) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 6 | 2.88 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 11 | 2.88 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 16 | 2.88 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 16 | 2.88 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 18 | 2.88 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 18 | 2.88 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 15 | 2.88 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 15 | 2.88 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 15 | 2.88 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 18 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 10 | 2.88 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 10 | 2.88 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 10 | 2.88 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 10 | 2.88 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 19 | 2.88 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 19 | 2.88 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 19 | 2.88 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 19 | 2.88 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 19 | 2.88 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 19 | 2.88 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 8 | 2.88 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 8 | 2.88 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 8 | 2.88 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 8 | 2.88 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 8 | 2.88 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 8 | 2.88 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 20 | 2.88 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 20 | 2.88 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 20 | 2.88 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 20 | 2.88 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 20 | 2.88 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 20 | 2.88 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 15 | 2.88 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 15 | 2.88 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 17 | 2.88 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 17 | 2.88 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 13 | 2.88 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 9 | 2.88 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 9 | 2.88 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 15 | 2.88 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 2.88 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 2.88 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 2.88 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 20 | 2.88 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 20 | 2.88 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 20 | 2.88 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 8 | 2.88 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 8 | 2.88 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 10 | 2.88 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 11 | 2.88 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 13 | 2.88 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 12 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 12 | 2.88 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 12 | 2.88 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 12 | 2.88 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 7 | 2.88 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 2 | 2.88 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 16 | 2.88 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 16 | 2.88 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 16 | 2.88 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 10 | 2.88 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 10 | 2.88 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 13 | 2.88 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 13 | 2.88 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 19 | 2.88 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 19 | 2.88 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 8 | 2.88 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 8 | 2.88 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 5 | 2.88 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 3 | 2.88 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 3 | 2.88 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 13 | 2.88 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 13 | 2.88 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 13 | 2.88 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 13 | 2.88 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 3 | 2.88 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 8 | 2.88 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 15 | 2.88 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 18 | 2.88 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 14 | 2.88 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 13 | 2.88 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 20 | 2.88 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 5 | 2.88 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 19 | 2.88 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 18 | 2.88 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 18 | 2.88 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 15 | 2.88 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 16 | 2.88 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 4 | 2.88 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 19 | 2.88 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 17 | 2.88 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 17 | 2.88 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 17 | 2.88 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 1 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 14 | 2.88 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 17 | 2.88 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 2 | 2.88 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 17 | 2.88 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 20 | 2.88 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 17 | 2.88 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 1 | 2.88 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 1 | 2.88 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 1 | 2.88 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 12 | 2.88 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 13 | 2.88 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 3 | 2.88 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 11 | 2.88 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 12 | 2.88 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 14 | 2.88 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 19 | 2.88 |
| (1,2760) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 19 | 2.88 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 14 | 2.88 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 14 | 2.88 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 5 | 2.88 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 5 | 2.88 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 5 | 2.88 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 5 | 2.88 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 5 | 2.88 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 5 | 2.88 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 4 | 2.88 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 2 | 2.88 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 1 | 2.88 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 6 | 2.88 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 9 | 2.88 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 14 | 2.88 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 13 | 2.88 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 12 | 2.88 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 13 | 2.88 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 13 | 2.88 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 13 | 2.88 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 14 | 2.88 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 14 | 2.88 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 14 | 2.88 |
| (1,2438) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 1 | 2.88 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 12 | 2.88 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 9 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 18 | 2.88 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 20 | 2.88 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 20 | 2.88 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 20 | 2.88 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 2 | 2.88 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 6 | 2.88 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 11 | 2.88 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 1 | 2.88 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 18 | 2.88 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 13 | 2.88 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 18 | 2.88 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 19 | 2.88 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 10 | 2.88 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 17 | 2.88 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 6 | 2.88 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 17 | 2.88 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 20 | 2.88 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 14 | 2.88 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 6 | 2.88 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 17 | 2.88 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 13 | 2.88 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 13 | 2.88 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 13 | 2.88 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 2 | 2.88 |
| (1,2208) | 1:144:A:GLY:H | 1:162:A:THR:HA | 15 | 2.88 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 19 | 2.88 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 9 | 2.88 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 8 | 2.88 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 9 | 2.88 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 15 | 2.88 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 15 | 2.88 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 15 | 2.88 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 2.88 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 2.88 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 2.88 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 12 | 2.88 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 18 | 2.88 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 17 | 2.88 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 17 | 2.88 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 17 | 2.88 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 17 | 2.88 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 17 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 17 | 2.88 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 17 | 2.88 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 17 | 2.88 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 17 | 2.88 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 6 | 2.88 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 6 | 2.88 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 1 | 2.88 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 1 | 2.88 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 1 | 2.88 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 4 | 2.88 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 4 | 2.88 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 4 | 2.88 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 17 | 2.88 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 17 | 2.88 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 9 | 2.88 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 17 | 2.88 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 18 | 2.88 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 1 | 2.88 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 1 | 2.88 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 1 | 2.88 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 19 | 2.88 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 19 | 2.88 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 7 | 2.88 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 6 | 2.88 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 15 | 2.88 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 15 | 2.88 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 15 | 2.88 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 7 | 2.88 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 7 | 2.88 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 7 | 2.88 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 9 | 2.88 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 20 | 2.88 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 12 | 2.88 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 1 | 2.88 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 13 | 2.88 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 7 | 2.88 |
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 2 | 2.88 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 4 | 2.88 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 4 | 2.88 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 4 | 2.88 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 15 | 2.88 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 15 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 15 | 2.88 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 3 | 2.88 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 13 | 2.88 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 16 | 2.88 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 13 | 2.88 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 18 | 2.88 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 18 | 2.88 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 14 | 2.88 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 15 | 2.88 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 15 | 2.88 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 2 | 2.88 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 18 | 2.88 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 20 | 2.88 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 4 | 2.88 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 9 | 2.88 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 18 | 2.88 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 8 | 2.88 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 8 | 2.88 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 8 | 2.88 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 8 | 2.88 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 8 | 2.88 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 8 | 2.88 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 8 | 2.88 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 8 | 2.88 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 1 | 2.88 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 2 | 2.88 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 11 | 2.88 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 11 | 2.88 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 11 | 2.88 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 11 | 2.88 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 11 | 2.88 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 11 | 2.88 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 11 | 2.88 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 11 | 2.88 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 11 | 2.88 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 18 | 2.88 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 15 | 2.88 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 15 | 2.88 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 19 | 2.88 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 8 | 2.88 |
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 8 | 2.88 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 8 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 19 | 2.88 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 5 | 2.88 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 8 | 2.88 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 2.88 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 15 | 2.88 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 12 | 2.88 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 6 | 2.88 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 1 | 2.88 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 6 | 2.88 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 12 | 2.88 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 20 | 2.88 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 1 | 2.88 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 18 | 2.88 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 12 | 2.88 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 15 | 2.88 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 6 | 2.88 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 11 | 2.88 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 7 | 2.88 |
| (1,816) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 7 | 2.88 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 11 | 2.88 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 11 | 2.88 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 11 | 2.88 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 2 | 2.88 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 8 | 2.88 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 7 | 2.88 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 7 | 2.88 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 4 | 2.88 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 5 | 2.88 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 11 | 2.88 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 10 | 2.88 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 6 | 2.88 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 20 | 2.88 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 10 | 2.88 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 15 | 2.88 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 15 | 2.88 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 15 | 2.88 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 15 | 2.88 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 15 | 2.88 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 15 | 2.88 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 4 | 2.88 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 18 | 2.88 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 18 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 3 | 2.88 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 3 | 2.88 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 3 | 2.88 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 3 | 2.88 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 3 | 2.88 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 3 | 2.88 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 5 | 2.88 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 13 | 2.87 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 13 | 2.87 |
| (3,409) | 1:61:A:LEU:H | 1:157:A:HIS:H | 13 | 2.87 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 9 | 2.87 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 9 | 2.87 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 13 | 2.87 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 13 | 2.87 |
| (1,9591) | 1:153:A:ASP:HB2 | 1:155:A:GLY:H | 14 | 2.87 |
| (1,9591) | 1:153:A:ASP:HB3 | 1:155:A:GLY:H | 14 | 2.87 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 15 | 2.87 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 15 | 2.87 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 14 | 2.87 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 14 | 2.87 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 14 | 2.87 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 14 | 2.87 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 14 | 2.87 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 14 | 2.87 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 18 | 2.87 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 18 | 2.87 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 6 | 2.87 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 6 | 2.87 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 9 | 2.87 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 9 | 2.87 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 5 | 2.87 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 5 | 2.87 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 2.87 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 2.87 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 2.87 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 2.87 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 2.87 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 2.87 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 7 | 2.87 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 7 | 2.87 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 3 | 2.87 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 3 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 3 | 2.87 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 3 | 2.87 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 6 | 2.87 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 6 | 2.87 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 6 | 2.87 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 6 | 2.87 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 15 | 2.87 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 15 | 2.87 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 15 | 2.87 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 15 | 2.87 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 15 | 2.87 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 15 | 2.87 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 3 | 2.87 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 3 | 2.87 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 2 | 2.87 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 2 | 2.87 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 5 | 2.87 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 5 | 2.87 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 7 | 2.87 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 7 | 2.87 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 11 | 2.87 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 11 | 2.87 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 11 | 2.87 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 11 | 2.87 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 2 | 2.87 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 2 | 2.87 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 13 | 2.87 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 13 | 2.87 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 3 | 2.87 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 3 | 2.87 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 14 | 2.87 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 14 | 2.87 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 13 | 2.87 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 13 | 2.87 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 13 | 2.87 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 13 | 2.87 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 13 | 2.87 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 13 | 2.87 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 17 | 2.87 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 17 | 2.87 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 1 | 2.87 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 1 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 1 | 2.87 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 1 | 2.87 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 18 | 2.87 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 18 | 2.87 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 19 | 2.87 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 19 | 2.87 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 10 | 2.87 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 10 | 2.87 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 20 | 2.87 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 20 | 2.87 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 18 | 2.87 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 18 | 2.87 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 20 | 2.87 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 3 | 2.87 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 3 | 2.87 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 20 | 2.87 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 11 | 2.87 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 11 | 2.87 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 11 | 2.87 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 11 | 2.87 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 11 | 2.87 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 11 | 2.87 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 2 | 2.87 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 2 | 2.87 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 17 | 2.87 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 17 | 2.87 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 3 | 2.87 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 3 | 2.87 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 16 | 2.87 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 16 | 2.87 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 16 | 2.87 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 16 | 2.87 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 16 | 2.87 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 16 | 2.87 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 16 | 2.87 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 16 | 2.87 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 16 | 2.87 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 6 | 2.87 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 6 | 2.87 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 19 | 2.87 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 8 | 2.87 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 8 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 12 | 2.87 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 12 | 2.87 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 12 | 2.87 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 2 | 2.87 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 2 | 2.87 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 1 | 2.87 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 1 | 2.87 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 16 | 2.87 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 6 | 2.87 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 18 | 2.87 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 18 | 2.87 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 18 | 2.87 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 18 | 2.87 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 18 | 2.87 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 18 | 2.87 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 18 | 2.87 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 18 | 2.87 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 18 | 2.87 |
| (1,7220) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 13 | 2.87 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 5 | 2.87 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 9 | 2.87 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 17 | 2.87 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 17 | 2.87 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 17 | 2.87 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 5 | 2.87 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 5 | 2.87 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 5 | 2.87 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 16 | 2.87 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 16 | 2.87 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 8 | 2.87 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 9 | 2.87 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 11 | 2.87 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 8 | 2.87 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 8 | 2.87 |
| (1,6958) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 11 | 2.87 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 15 | 2.87 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 1 | 2.87 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 5 | 2.87 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 17 | 2.87 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 20 | 2.87 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 13 | 2.87 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 13 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 13 | 2.87 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 13 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 9 | 2.87 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 9 | 2.87 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 6 | 2.87 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 3 | 2.87 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 13 | 2.87 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 11 | 2.87 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 11 | 2.87 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 6 | 2.87 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 6 | 2.87 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 6 | 2.87 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 15 | 2.87 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 14 | 2.87 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 5 | 2.87 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 5 | 2.87 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 5 | 2.87 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 9 | 2.87 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 19 | 2.87 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 10 | 2.87 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 14 | 2.87 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 2 | 2.87 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 16 | 2.87 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 18 | 2.87 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 12 | 2.87 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 12 | 2.87 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 12 | 2.87 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 10 | 2.87 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 6 | 2.87 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 19 | 2.87 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 19 | 2.87 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 8 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 8 | 2.87 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 15 | 2.87 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 2 | 2.87 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 2 | 2.87 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 2 | 2.87 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 16 | 2.87 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 16 | 2.87 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 18 | 2.87 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 18 | 2.87 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 18 | 2.87 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 18 | 2.87 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 20 | 2.87 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 20 | 2.87 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 18 | 2.87 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 5 | 2.87 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 5 | 2.87 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 20 | 2.87 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 20 | 2.87 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 12 | 2.87 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 2 | 2.87 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 2 | 2.87 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 2 | 2.87 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 10 | 2.87 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 8 | 2.87 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 12 | 2.87 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 8 | 2.87 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 8 | 2.87 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 12 | 2.87 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 14 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 4 | 2.87 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 4 | 2.87 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 4 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 4 | 2.87 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 14 | 2.87 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 17 | 2.87 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 17 | 2.87 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 17 | 2.87 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 4 | 2.87 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 14 | 2.87 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 2 | 2.87 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 8 | 2.87 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 8 | 2.87 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 3 | 2.87 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 6 | 2.87 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 10 | 2.87 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 9 | 2.87 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 9 | 2.87 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 9 | 2.87 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 6 | 2.87 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 6 | 2.87 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 6 | 2.87 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 10 | 2.87 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 20 | 2.87 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 8 | 2.87 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 1 | 2.87 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 20 | 2.87 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 6 | 2.87 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 10 | 2.87 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 2 | 2.87 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 12 | 2.87 |
| (1,4852) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 16 | 2.87 |
| (1,4852) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 16 | 2.87 |
| (1,4852) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 16 | 2.87 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 18 | 2.87 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 18 | 2.87 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 18 | 2.87 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 10 | 2.87 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 13 | 2.87 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 20 | 2.87 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 20 | 2.87 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 20 | 2.87 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 12 | 2.87 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 12 | 2.87 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 12 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 1 | 2.87 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 1 | 2.87 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 10 | 2.87 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 10 | 2.87 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 11 | 2.87 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 11 | 2.87 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 9 | 2.87 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 9 | 2.87 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 15 | 2.87 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 17 | 2.87 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 17 | 2.87 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 2 | 2.87 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 2 | 2.87 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 2 | 2.87 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 10 | 2.87 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 10 | 2.87 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 10 | 2.87 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 18 | 2.87 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 18 | 2.87 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 18 | 2.87 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 16 | 2.87 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 16 | 2.87 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 17 | 2.87 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 17 | 2.87 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 15 | 2.87 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 15 | 2.87 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 14 | 2.87 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 14 | 2.87 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 14 | 2.87 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 14 | 2.87 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 14 | 2.87 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 14 | 2.87 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 18 | 2.87 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 18 | 2.87 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 13 | 2.87 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 13 | 2.87 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 15 | 2.87 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 15 | 2.87 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 15 | 2.87 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 15 | 2.87 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 9 | 2.87 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 9 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 2.87 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 2.87 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 2.87 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 2.87 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 2.87 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 2.87 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 17 | 2.87 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 2 | 2.87 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 2 | 2.87 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 3 | 2.87 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 3 | 2.87 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 3 | 2.87 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 3 | 2.87 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 3 | 2.87 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 1 | 2.87 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 1 | 2.87 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 1 | 2.87 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 1 | 2.87 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 1 | 2.87 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 1 | 2.87 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 15 | 2.87 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 15 | 2.87 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 15 | 2.87 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 15 | 2.87 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 15 | 2.87 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 15 | 2.87 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 3 | 2.87 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 3 | 2.87 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 3 | 2.87 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 3 | 2.87 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 3 | 2.87 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 3 | 2.87 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 6 | 2.87 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 6 | 2.87 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 18 | 2.87 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 10 | 2.87 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 15 | 2.87 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 11 | 2.87 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 11 | 2.87 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 11 | 2.87 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 11 | 2.87 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 11 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 11 | 2.87 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 1 | 2.87 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 1 | 2.87 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 1 | 2.87 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 1 | 2.87 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 1 | 2.87 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 1 | 2.87 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 3 | 2.87 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 3 | 2.87 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 7 | 2.87 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 7 | 2.87 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 12 | 2.87 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 12 | 2.87 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 13 | 2.87 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 13 | 2.87 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 18 | 2.87 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 18 | 2.87 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 2 | 2.87 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 2 | 2.87 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 5 | 2.87 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 5 | 2.87 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 17 | 2.87 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 17 | 2.87 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 13 | 2.87 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 13 | 2.87 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 8 | 2.87 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 8 | 2.87 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 8 | 2.87 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 17 | 2.87 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 17 | 2.87 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 17 | 2.87 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 6 | 2.87 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 6 | 2.87 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 6 | 2.87 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 12 | 2.87 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 12 | 2.87 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 12 | 2.87 |
| (1,3712) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 18 | 2.87 |
| (1,3712) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 18 | 2.87 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 18 | 2.87 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 18 | 2.87 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 18 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 18 | 2.87 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 18 | 2.87 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 18 | 2.87 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 8 | 2.87 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 8 | 2.87 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 19 | 2.87 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 19 | 2.87 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 10 | 2.87 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 10 | 2.87 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 9 | 2.87 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 9 | 2.87 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 20 | 2.87 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 20 | 2.87 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 5 | 2.87 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 19 | 2.87 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 19 | 2.87 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 18 | 2.87 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 18 | 2.87 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 18 | 2.87 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 18 | 2.87 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 18 | 2.87 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 18 | 2.87 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 18 | 2.87 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 18 | 2.87 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 18 | 2.87 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 18 | 2.87 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 18 | 2.87 |
| (1,3461) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 9 | 2.87 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 1 | 2.87 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 17 | 2.87 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 19 | 2.87 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 19 | 2.87 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 19 | 2.87 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 19 | 2.87 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 12 | 2.87 |
| (1,3394) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 13 | 2.87 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 4 | 2.87 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 17 | 2.87 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 17 | 2.87 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 17 | 2.87 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 19 | 2.87 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 19 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 19 | 2.87 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 18 | 2.87 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 18 | 2.87 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 18 | 2.87 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 18 | 2.87 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 18 | 2.87 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 18 | 2.87 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 13 | 2.87 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 13 | 2.87 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 3 | 2.87 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 4 | 2.87 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 4 | 2.87 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 4 | 2.87 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 13 | 2.87 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 20 | 2.87 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 14 | 2.87 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 3 | 2.87 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 8 | 2.87 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 8 | 2.87 |
| (1,2986) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 11 | 2.87 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 15 | 2.87 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 1 | 2.87 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 10 | 2.87 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 10 | 2.87 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 10 | 2.87 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 7 | 2.87 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 7 | 2.87 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 7 | 2.87 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 1 | 2.87 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 5 | 2.87 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 5 | 2.87 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 19 | 2.87 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 17 | 2.87 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 20 | 2.87 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 11 | 2.87 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 11 | 2.87 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 7 | 2.87 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 7 | 2.87 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 18 | 2.87 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 18 | 2.87 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 18 | 2.87 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 18 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 6 | 2.87 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 8 | 2.87 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 19 | 2.87 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 6 | 2.87 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 13 | 2.87 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 11 | 2.87 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 11 | 2.87 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 6 | 2.87 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 6 | 2.87 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 6 | 2.87 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 1 | 2.87 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 15 | 2.87 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 5 | 2.87 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 16 | 2.87 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 9 | 2.87 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 17 | 2.87 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 3 | 2.87 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 5 | 2.87 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 15 | 2.87 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 12 | 2.87 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 14 | 2.87 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 14 | 2.87 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 5 | 2.87 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 5 | 2.87 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 5 | 2.87 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 8 | 2.87 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 13 | 2.87 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 9 | 2.87 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 19 | 2.87 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 3 | 2.87 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 8 | 2.87 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 8 | 2.87 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 8 | 2.87 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 19 | 2.87 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 15 | 2.87 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 15 | 2.87 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 15 | 2.87 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 10 | 2.87 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 14 | 2.87 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 19 | 2.87 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 12 | 2.87 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 17 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 19 | 2.87 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 2 | 2.87 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 16 | 2.87 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 4 | 2.87 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 18 | 2.87 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 3 | 2.87 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 17 | 2.87 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 12 | 2.87 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 12 | 2.87 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 12 | 2.87 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 9 | 2.87 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 7 | 2.87 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 10 | 2.87 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 8 | 2.87 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 9 | 2.87 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 1 | 2.87 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 15 | 2.87 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 17 | 2.87 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 19 | 2.87 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 19 | 2.87 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 8 | 2.87 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 8 | 2.87 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 13 | 2.87 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 5 | 2.87 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 20 | 2.87 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 11 | 2.87 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 16 | 2.87 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 16 | 2.87 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 9 | 2.87 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 9 | 2.87 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 18 | 2.87 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 18 | 2.87 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 18 | 2.87 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 2 | 2.87 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 18 | 2.87 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 16 | 2.87 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 18 | 2.87 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 7 | 2.87 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 12 | 2.87 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 11 | 2.87 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 5 | 2.87 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 5 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 20 | 2.87 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 20 | 2.87 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 17 | 2.87 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 12 | 2.87 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 3 | 2.87 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 19 | 2.87 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 2 | 2.87 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 2 | 2.87 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 2 | 2.87 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 16 | 2.87 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 10 | 2.87 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 5 | 2.87 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 5 | 2.87 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 5 | 2.87 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 16 | 2.87 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 3 | 2.87 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 6 | 2.87 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 8 | 2.87 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 12 | 2.87 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 8 | 2.87 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 8 | 2.87 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 12 | 2.87 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 14 | 2.87 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 17 | 2.87 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 20 | 2.87 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 4 | 2.87 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 4 | 2.87 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 18 | 2.87 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 6 | 2.87 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 6 | 2.87 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 14 | 2.87 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 11 | 2.87 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 11 | 2.87 |
| (1,618) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 1 | 2.87 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 10 | 2.87 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 12 | 2.87 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 14 | 2.87 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 17 | 2.87 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 17 | 2.87 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 17 | 2.87 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 4 | 2.87 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 20 | 2.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 16 | 2.87 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 16 | 2.87 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 16 | 2.87 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 16 | 2.87 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 16 | 2.87 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 16 | 2.87 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 8 | 2.87 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 8 | 2.87 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 8 | 2.87 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 11 | 2.87 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 11 | 2.87 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 11 | 2.87 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 19 | 2.87 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 19 | 2.87 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 19 | 2.87 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 1 | 2.87 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 17 | 2.87 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 17 | 2.87 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 17 | 2.87 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 1 | 2.87 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 16 | 2.87 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 9 | 2.87 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 17 | 2.87 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 3 | 2.87 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 3 | 2.87 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 8 | 2.86 |
| (4,177) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 3 | 2.86 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 10 | 2.86 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 1 | 2.86 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 3 | 2.86 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 8 | 2.86 |
| (1,9630) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 8 | 2.86 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 19 | 2.86 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 19 | 2.86 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 20 | 2.86 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 20 | 2.86 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 6 | 2.86 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 6 | 2.86 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 16 | 2.86 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 16 | 2.86 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 4 | 2.86 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 4 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 4 | 2.86 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 4 | 2.86 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 4 | 2.86 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 4 | 2.86 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 17 | 2.86 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 17 | 2.86 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 1 | 2.86 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 1 | 2.86 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 1 | 2.86 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 1 | 2.86 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 9 | 2.86 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 9 | 2.86 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 13 | 2.86 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 13 | 2.86 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 11 | 2.86 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 11 | 2.86 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 11 | 2.86 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 11 | 2.86 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 9 | 2.86 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 9 | 2.86 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 18 | 2.86 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 18 | 2.86 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 6 | 2.86 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 6 | 2.86 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 2.86 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 2.86 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 2.86 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 2.86 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 2.86 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 2.86 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 19 | 2.86 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 19 | 2.86 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 9 | 2.86 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 9 | 2.86 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 9 | 2.86 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 9 | 2.86 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 8 | 2.86 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 8 | 2.86 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 5 | 2.86 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 5 | 2.86 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 19 | 2.86 |
| (1,8761) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 19 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 19 | 2.86 |
| (1,8761) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 19 | 2.86 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 19 | 2.86 |
| (1,8761) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 19 | 2.86 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 14 | 2.86 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 14 | 2.86 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 2.86 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 2.86 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 8 | 2.86 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 8 | 2.86 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 16 | 2.86 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 16 | 2.86 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 5 | 2.86 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 5 | 2.86 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 11 | 2.86 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 11 | 2.86 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 16 | 2.86 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 16 | 2.86 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 16 | 2.86 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 16 | 2.86 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 5 | 2.86 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 5 | 2.86 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 5 | 2.86 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 6 | 2.86 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 6 | 2.86 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 6 | 2.86 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 1 | 2.86 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 1 | 2.86 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 3 | 2.86 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 3 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 13 | 2.86 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 13 | 2.86 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 15 | 2.86 |
| (1,8051) | 1:89:A:ILE:HA | 1:92:A:TYR:HB3 | 15 | 2.86 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 6 | 2.86 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 6 | 2.86 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 6 | 2.86 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 6 | 2.86 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 6 | 2.86 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 6 | 2.86 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 1 | 2.86 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 1 | 2.86 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 3 | 2.86 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 3 | 2.86 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 10 | 2.86 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG21 | 7 | 2.86 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG22 | 7 | 2.86 |
| (1,7560) | 1:21:A:ARG:HA | 1:22:A:VAL:HG23 | 7 | 2.86 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 17 | 2.86 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 17 | 2.86 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 12 | 2.86 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 12 | 2.86 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 12 | 2.86 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 12 | 2.86 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 12 | 2.86 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 12 | 2.86 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 20 | 2.86 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 20 | 2.86 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 20 | 2.86 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 20 | 2.86 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 20 | 2.86 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 20 | 2.86 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 20 | 2.86 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 20 | 2.86 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 20 | 2.86 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 8 | 2.86 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 17 | 2.86 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 17 | 2.86 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 20 | 2.86 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 3 | 2.86 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 3 | 2.86 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 18 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 20 | 2.86 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 10 | 2.86 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 10 | 2.86 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 6 | 2.86 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 6 | 2.86 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 6 | 2.86 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 20 | 2.86 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 20 | 2.86 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 20 | 2.86 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 2 | 2.86 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 4 | 2.86 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 12 | 2.86 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 2 | 2.86 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 2 | 2.86 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 12 | 2.86 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 12 | 2.86 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 12 | 2.86 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 12 | 2.86 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 12 | 2.86 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 12 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 2 | 2.86 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 2 | 2.86 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 1 | 2.86 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 1 | 2.86 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 1 | 2.86 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 1 | 2.86 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 1 | 2.86 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 1 | 2.86 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 1 | 2.86 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 3 | 2.86 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 3 | 2.86 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 17 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 17 | 2.86 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 2 | 2.86 |
| (1,6484) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 1 | 2.86 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 18 | 2.86 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 18 | 2.86 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 18 | 2.86 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 7 | 2.86 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 7 | 2.86 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 7 | 2.86 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 13 | 2.86 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 1 | 2.86 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 14 | 2.86 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 19 | 2.86 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 19 | 2.86 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 8 | 2.86 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 8 | 2.86 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 15 | 2.86 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 15 | 2.86 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 18 | 2.86 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 18 | 2.86 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 18 | 2.86 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 13 | 2.86 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 4 | 2.86 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 10 | 2.86 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 19 | 2.86 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 8 | 2.86 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 2 | 2.86 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 17 | 2.86 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 3 | 2.86 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 3 | 2.86 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 3 | 2.86 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 19 | 2.86 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 19 | 2.86 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 1 | 2.86 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 12 | 2.86 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 11 | 2.86 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 9 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 13 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 13 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 13 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 13 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 13 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 13 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 13 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 13 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 13 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 20 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 20 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 20 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 20 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 20 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 20 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 20 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 20 | 2.86 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 20 | 2.86 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 12 | 2.86 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 12 | 2.86 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 12 | 2.86 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 17 | 2.86 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 17 | 2.86 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 18 | 2.86 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 14 | 2.86 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 14 | 2.86 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 10 | 2.86 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 4 | 2.86 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 11 | 2.86 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 14 | 2.86 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 10 | 2.86 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 11 | 2.86 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 1 | 2.86 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 12 | 2.86 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 12 | 2.86 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 12 | 2.86 |
| (1,5532) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 10 | 2.86 |
| (1,5532) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 10 | 2.86 |
| (1,5532) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 10 | 2.86 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 1 | 2.86 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 1 | 2.86 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 1 | 2.86 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 4 | 2.86 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 8 | 2.86 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 19 | 2.86 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 4 | 2.86 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 4 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 4 | 2.86 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 20 | 2.86 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 6 | 2.86 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 8 | 2.86 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 8 | 2.86 |
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 8 | 2.86 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 5 | 2.86 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 5 | 2.86 |
| (1,5051) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 5 | 2.86 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 5 | 2.86 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 5 | 2.86 |
| (1,5051) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 5 | 2.86 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 16 | 2.86 |
| (1,5032) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 19 | 2.86 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 2 | 2.86 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 17 | 2.86 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 18 | 2.86 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 13 | 2.86 |
| (1,4902) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 12 | 2.86 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 18 | 2.86 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 17 | 2.86 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 17 | 2.86 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 17 | 2.86 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 17 | 2.86 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 17 | 2.86 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 17 | 2.86 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 17 | 2.86 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 17 | 2.86 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 17 | 2.86 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 3 | 2.86 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 1 | 2.86 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 7 | 2.86 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 17 | 2.86 |
| (1,4685) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 17 | 2.86 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 7 | 2.86 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 7 | 2.86 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 18 | 2.86 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 18 | 2.86 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 8 | 2.86 |
| (1,4616) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 8 | 2.86 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 16 | 2.86 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 16 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 17 | 2.86 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 17 | 2.86 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 19 | 2.86 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 19 | 2.86 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 7 | 2.86 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 16 | 2.86 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 16 | 2.86 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 2 | 2.86 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 2 | 2.86 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 2 | 2.86 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 2 | 2.86 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 2 | 2.86 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 2 | 2.86 |
| (1,4569) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 18 | 2.86 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 1 | 2.86 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 1 | 2.86 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 6 | 2.86 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 6 | 2.86 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 19 | 2.86 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 19 | 2.86 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 2.86 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 12 | 2.86 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 12 | 2.86 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 12 | 2.86 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 12 | 2.86 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 13 | 2.86 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 13 | 2.86 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 13 | 2.86 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 13 | 2.86 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 9 | 2.86 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 9 | 2.86 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 7 | 2.86 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 7 | 2.86 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 13 | 2.86 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 13 | 2.86 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 3 | 2.86 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 9 | 2.86 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 9 | 2.86 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 18 | 2.86 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 18 | 2.86 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 4 | 2.86 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 5 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 7 | 2.86 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 7 | 2.86 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 2.86 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 2.86 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 2.86 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 2.86 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 2.86 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 2.86 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 6 | 2.86 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 5 | 2.86 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 8 | 2.86 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 8 | 2.86 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 20 | 2.86 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 20 | 2.86 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 15 | 2.86 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 9 | 2.86 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 9 | 2.86 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 5 | 2.86 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 5 | 2.86 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 13 | 2.86 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 19 | 2.86 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 2.86 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 2.86 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 2.86 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 4 | 2.86 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 4 | 2.86 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 4 | 2.86 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 4 | 2.86 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 4 | 2.86 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 4 | 2.86 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 1 | 2.86 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 1 | 2.86 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 17 | 2.86 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 19 | 2.86 |
| (1,3726) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 19 | 2.86 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 19 | 2.86 |
| (1,3726) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 19 | 2.86 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 19 | 2.86 |
| (1,3726) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 19 | 2.86 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 2 | 2.86 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 11 | 2.86 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 11 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 8 | 2.86 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 8 | 2.86 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 13 | 2.86 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 13 | 2.86 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 9 | 2.86 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 9 | 2.86 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 9 | 2.86 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 9 | 2.86 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 9 | 2.86 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 9 | 2.86 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 9 | 2.86 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 9 | 2.86 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 4 | 2.86 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 4 | 2.86 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 12 | 2.86 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 12 | 2.86 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 14 | 2.86 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 14 | 2.86 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 2.86 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 2.86 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 4 | 2.86 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 4 | 2.86 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 4 | 2.86 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 4 | 2.86 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 4 | 2.86 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 4 | 2.86 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 7 | 2.86 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 7 | 2.86 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 5 | 2.86 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 5 | 2.86 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 11 | 2.86 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 11 | 2.86 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 16 | 2.86 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 16 | 2.86 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 20 | 2.86 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 20 | 2.86 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 20 | 2.86 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 20 | 2.86 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 20 | 2.86 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 20 | 2.86 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 20 | 2.86 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 20 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 20 | 2.86 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 19 | 2.86 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 19 | 2.86 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 19 | 2.86 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 3 | 2.86 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 7 | 2.86 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 7 | 2.86 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 2 | 2.86 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 19 | 2.86 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 20 | 2.86 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 9 | 2.86 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 14 | 2.86 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 14 | 2.86 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 14 | 2.86 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 3 | 2.86 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 3 | 2.86 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 11 | 2.86 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 18 | 2.86 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 12 | 2.86 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 10 | 2.86 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 10 | 2.86 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 6 | 2.86 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 6 | 2.86 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 6 | 2.86 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 20 | 2.86 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 20 | 2.86 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 20 | 2.86 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 7 | 2.86 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 2 | 2.86 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 9 | 2.86 |
| (1,2880) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 9 | 2.86 |
| (1,2880) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 9 | 2.86 |
| (1,2880) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 9 | 2.86 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 3 | 2.86 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 11 | 2.86 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 4 | 2.86 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 12 | 2.86 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 2 | 2.86 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 2 | 2.86 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 12 | 2.86 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 12 | 2.86 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 12 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 12 | 2.86 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 12 | 2.86 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 12 | 2.86 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 7 | 2.86 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 7 | 2.86 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 3 | 2.86 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 3 | 2.86 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 9 | 2.86 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 9 | 2.86 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 9 | 2.86 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 19 | 2.86 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 1 | 2.86 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 1 | 2.86 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 1 | 2.86 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 1 | 2.86 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 1 | 2.86 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 1 | 2.86 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 20 | 2.86 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 20 | 2.86 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 20 | 2.86 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 3 | 2.86 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 3 | 2.86 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 17 | 2.86 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 17 | 2.86 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 12 | 2.86 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 2 | 2.86 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 2 | 2.86 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 8 | 2.86 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 16 | 2.86 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 8 | 2.86 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 19 | 2.86 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 6 | 2.86 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 1 | 2.86 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 10 | 2.86 |
| (1,2280) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 17 | 2.86 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 16 | 2.86 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 18 | 2.86 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 10 | 2.86 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 10 | 2.86 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 10 | 2.86 |
| (1,2270) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 1 | 2.86 |
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 3 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2212) | 1:162:A:THR:H | 1:162:A:THR:HA | 6 | 2.86 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 18 | 2.86 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 18 | 2.86 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 18 | 2.86 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 13 | 2.86 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 13 | 2.86 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 13 | 2.86 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 7 | 2.86 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 7 | 2.86 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 7 | 2.86 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 13 | 2.86 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 1 | 2.86 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 5 | 2.86 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 5 | 2.86 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 5 | 2.86 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 2.86 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 2.86 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 2.86 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 14 | 2.86 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 11 | 2.86 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 8 | 2.86 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 8 | 2.86 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 15 | 2.86 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 15 | 2.86 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 18 | 2.86 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 18 | 2.86 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 18 | 2.86 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 10 | 2.86 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 6 | 2.86 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 6 | 2.86 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 6 | 2.86 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 9 | 2.86 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 16 | 2.86 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 17 | 2.86 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 6 | 2.86 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 6 | 2.86 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 6 | 2.86 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 2 | 2.86 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 12 | 2.86 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 3 | 2.86 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 1 | 2.86 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 6 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 14 | 2.86 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 13 | 2.86 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 10 | 2.86 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 4 | 2.86 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 10 | 2.86 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 19 | 2.86 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 8 | 2.86 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 1 | 2.86 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 4 | 2.86 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 12 | 2.86 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 18 | 2.86 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 2 | 2.86 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 4 | 2.86 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 17 | 2.86 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 4 | 2.86 |
| (1,1618) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 20 | 2.86 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 7 | 2.86 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 3 | 2.86 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 3 | 2.86 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 3 | 2.86 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 7 | 2.86 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 6 | 2.86 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 6 | 2.86 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 6 | 2.86 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 19 | 2.86 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 19 | 2.86 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 17 | 2.86 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 1 | 2.86 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 4 | 2.86 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 12 | 2.86 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 18 | 2.86 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 8 | 2.86 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 20 | 2.86 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 2 | 2.86 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 19 | 2.86 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 19 | 2.86 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 19 | 2.86 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 19 | 2.86 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 19 | 2.86 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 19 | 2.86 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 19 | 2.86 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 9 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 13 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 13 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 13 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 13 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 13 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 13 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 13 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 13 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 13 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 20 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 20 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 20 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 20 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 20 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 20 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 20 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 20 | 2.86 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 20 | 2.86 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 14 | 2.86 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 17 | 2.86 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 2 | 2.86 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 15 | 2.86 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 1 | 2.86 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 1 | 2.86 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 1 | 2.86 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 1 | 2.86 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 1 | 2.86 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 1 | 2.86 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 6 | 2.86 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 12 | 2.86 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 17 | 2.86 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 17 | 2.86 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 18 | 2.86 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 14 | 2.86 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 14 | 2.86 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 15 | 2.86 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 10 | 2.86 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 19 | 2.86 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 3 | 2.86 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 17 | 2.86 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 4 | 2.86 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 11 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 9 | 2.86 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 3 | 2.86 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 10 | 2.86 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 14 | 2.86 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 5 | 2.86 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 10 | 2.86 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 11 | 2.86 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 1 | 2.86 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 19 | 2.86 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 19 | 2.86 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 19 | 2.86 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 8 | 2.86 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 14 | 2.86 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 15 | 2.86 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 12 | 2.86 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 12 | 2.86 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 1 | 2.86 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 11 | 2.86 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 19 | 2.86 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 10 | 2.86 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 12 | 2.86 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 12 | 2.86 |
| (1,690) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 10 | 2.86 |
| (1,690) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 10 | 2.86 |
| (1,690) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 10 | 2.86 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 1 | 2.86 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 1 | 2.86 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 1 | 2.86 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 16 | 2.86 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 4 | 2.86 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 8 | 2.86 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 18 | 2.86 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 1 | 2.86 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 1 | 2.86 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 1 | 2.86 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 16 | 2.86 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 17 | 2.86 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 20 | 2.86 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 20 | 2.86 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 20 | 2.86 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 11 | 2.86 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 11 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 11 | 2.86 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 11 | 2.86 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 11 | 2.86 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 11 | 2.86 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 11 | 2.86 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 11 | 2.86 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 11 | 2.86 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 13 | 2.86 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 15 | 2.86 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 15 | 2.86 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 17 | 2.86 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 10 | 2.86 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 9 | 2.86 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 9 | 2.86 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 9 | 2.86 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 2 | 2.86 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 2 | 2.86 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 4 | 2.85 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 2 | 2.85 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 10 | 2.85 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 12 | 2.85 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 12 | 2.85 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 14 | 2.85 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 14 | 2.85 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 13 | 2.85 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 13 | 2.85 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 13 | 2.85 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 13 | 2.85 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 13 | 2.85 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 13 | 2.85 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 4 | 2.85 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 4 | 2.85 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 4 | 2.85 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 4 | 2.85 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 4 | 2.85 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 4 | 2.85 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 11 | 2.85 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 11 | 2.85 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 11 | 2.85 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 11 | 2.85 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 7 | 2.85 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 7 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 13 | 2.85 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 13 | 2.85 |
| (1,9354) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 12 | 2.85 |
| (1,9354) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 12 | 2.85 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 10 | 2.85 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 10 | 2.85 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 10 | 2.85 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 10 | 2.85 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 16 | 2.85 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 16 | 2.85 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 11 | 2.85 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 11 | 2.85 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 11 | 2.85 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 11 | 2.85 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 11 | 2.85 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 11 | 2.85 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 7 | 2.85 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 7 | 2.85 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 1 | 2.85 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 1 | 2.85 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 1 | 2.85 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 1 | 2.85 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 1 | 2.85 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 1 | 2.85 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 14 | 2.85 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 14 | 2.85 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 5 | 2.85 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 5 | 2.85 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 4 | 2.85 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 4 | 2.85 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 1 | 2.85 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 1 | 2.85 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 6 | 2.85 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 6 | 2.85 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 3 | 2.85 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 3 | 2.85 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 12 | 2.85 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 12 | 2.85 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 12 | 2.85 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 12 | 2.85 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 7 | 2.85 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 7 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 5 | 2.85 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 5 | 2.85 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 5 | 2.85 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 5 | 2.85 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 5 | 2.85 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 5 | 2.85 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 6 | 2.85 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 3 | 2.85 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 3 | 2.85 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 3 | 2.85 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 13 | 2.85 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 13 | 2.85 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 13 | 2.85 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 12 | 2.85 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 17 | 2.85 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 11 | 2.85 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 12 | 2.85 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 17 | 2.85 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 17 | 2.85 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 17 | 2.85 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 15 | 2.85 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 19 | 2.85 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 5 | 2.85 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 19 | 2.85 |
| (1,7412) | 1:7:A:LEU:HD21 | 1:13:A:LYS:H | 3 | 2.85 |
| (1,7412) | 1:7:A:LEU:HD22 | 1:13:A:LYS:H | 3 | 2.85 |
| (1,7412) | 1:7:A:LEU:HD23 | 1:13:A:LYS:H | 3 | 2.85 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 1 | 2.85 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 2 | 2.85 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 2 | 2.85 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 3 | 2.85 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 3 | 2.85 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 3 | 2.85 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 3 | 2.85 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 2 | 2.85 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 2 | 2.85 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 17 | 2.85 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 7 | 2.85 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 7 | 2.85 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 7 | 2.85 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 2 | 2.85 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 11 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 6 | 2.85 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 10 | 2.85 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 9 | 2.85 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 11 | 2.85 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 11 | 2.85 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 17 | 2.85 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 16 | 2.85 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 16 | 2.85 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 16 | 2.85 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 6 | 2.85 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 18 | 2.85 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 13 | 2.85 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 3 | 2.85 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 5 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 10 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 10 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 10 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 10 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 14 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 14 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 14 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 14 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 20 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 20 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 20 | 2.85 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 20 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 1 | 2.85 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 1 | 2.85 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 14 | 2.85 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 14 | 2.85 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 2 | 2.85 |
| (1,6762) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 2 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 14 | 2.85 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 14 | 2.85 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 14 | 2.85 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 1 | 2.85 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 9 | 2.85 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 1 | 2.85 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 1 | 2.85 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 1 | 2.85 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 12 | 2.85 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 12 | 2.85 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 12 | 2.85 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 13 | 2.85 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 11 | 2.85 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 11 | 2.85 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 5 | 2.85 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 5 | 2.85 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 5 | 2.85 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 20 | 2.85 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 6 | 2.85 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 6 | 2.85 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 6 | 2.85 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 9 | 2.85 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 9 | 2.85 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 9 | 2.85 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 5 | 2.85 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 16 | 2.85 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 16 | 2.85 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 16 | 2.85 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 1 | 2.85 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 1 | 2.85 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 19 | 2.85 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 19 | 2.85 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 6 | 2.85 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 19 | 2.85 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 19 | 2.85 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 19 | 2.85 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 6 | 2.85 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 16 | 2.85 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 16 | 2.85 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 16 | 2.85 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 16 | 2.85 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 16 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 16 | 2.85 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 16 | 2.85 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 16 | 2.85 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 16 | 2.85 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 11 | 2.85 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 11 | 2.85 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 11 | 2.85 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 11 | 2.85 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 16 | 2.85 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 16 | 2.85 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 8 | 2.85 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 4 | 2.85 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 4 | 2.85 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 18 | 2.85 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 18 | 2.85 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 13 | 2.85 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 6 | 2.85 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 8 | 2.85 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 3 | 2.85 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 8 | 2.85 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 18 | 2.85 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 17 | 2.85 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 1 | 2.85 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 14 | 2.85 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 3 | 2.85 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 14 | 2.85 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 14 | 2.85 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 14 | 2.85 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 9 | 2.85 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 13 | 2.85 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 7 | 2.85 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 19 | 2.85 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 17 | 2.85 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 16 | 2.85 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 16 | 2.85 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 16 | 2.85 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 4 | 2.85 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 7 | 2.85 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 16 | 2.85 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 2 | 2.85 |
| (1,5142) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 15 | 2.85 |
| (1,5142) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 15 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5142) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 15 | 2.85 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 2 | 2.85 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 9 | 2.85 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 9 | 2.85 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 9 | 2.85 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 13 | 2.85 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 11 | 2.85 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 7 | 2.85 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 4 | 2.85 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 11 | 2.85 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 11 | 2.85 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 11 | 2.85 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 11 | 2.85 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 11 | 2.85 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 11 | 2.85 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 11 | 2.85 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 11 | 2.85 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 11 | 2.85 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 16 | 2.85 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 1 | 2.85 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 6 | 2.85 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 5 | 2.85 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 19 | 2.85 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 19 | 2.85 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 19 | 2.85 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 19 | 2.85 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 12 | 2.85 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 12 | 2.85 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 14 | 2.85 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 14 | 2.85 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 7 | 2.85 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 4 | 2.85 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 4 | 2.85 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 4 | 2.85 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 4 | 2.85 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 4 | 2.85 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 4 | 2.85 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 7 | 2.85 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 7 | 2.85 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 13 | 2.85 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 13 | 2.85 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 13 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4358) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 12 | 2.85 |
| (1,4358) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 12 | 2.85 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 16 | 2.85 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 16 | 2.85 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 1 | 2.85 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 16 | 2.85 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 15 | 2.85 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 15 | 2.85 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 3 | 2.85 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 12 | 2.85 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 2.85 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 12 | 2.85 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 11 | 2.85 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 11 | 2.85 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 11 | 2.85 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 11 | 2.85 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 11 | 2.85 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 11 | 2.85 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 4 | 2.85 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 4 | 2.85 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 4 | 2.85 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 4 | 2.85 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 4 | 2.85 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 4 | 2.85 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 14 | 2.85 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 14 | 2.85 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 12 | 2.85 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 12 | 2.85 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 12 | 2.85 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 7 | 2.85 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 7 | 2.85 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 12 | 2.85 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 12 | 2.85 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 8 | 2.85 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 8 | 2.85 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 8 | 2.85 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 8 | 2.85 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 20 | 2.85 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 20 | 2.85 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 4 | 2.85 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 4 | 2.85 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 1 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 1 | 2.85 |
| (1,3834) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 12 | 2.85 |
| (1,3834) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 12 | 2.85 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 2.85 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 2.85 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 2.85 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 17 | 2.85 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 17 | 2.85 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 6 | 2.85 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 6 | 2.85 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 18 | 2.85 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 18 | 2.85 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 3 | 2.85 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 3 | 2.85 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 16 | 2.85 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 16 | 2.85 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 7 | 2.85 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 7 | 2.85 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 7 | 2.85 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 12 | 2.85 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 15 | 2.85 |
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 12 | 2.85 |
| (1,3372) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 13 | 2.85 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 19 | 2.85 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 19 | 2.85 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 19 | 2.85 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 2 | 2.85 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 9 | 2.85 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 9 | 2.85 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 9 | 2.85 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 6 | 2.85 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 10 | 2.85 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 11 | 2.85 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 1 | 2.85 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 18 | 2.85 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 1 | 2.85 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 18 | 2.85 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 16 | 2.85 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 16 | 2.85 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 16 | 2.85 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 4 | 2.85 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 4 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 4 | 2.85 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 16 | 2.85 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 9 | 2.85 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 5 | 2.85 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 5 | 2.85 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 5 | 2.85 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 6 | 2.85 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 18 | 2.85 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 14 | 2.85 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 14 | 2.85 |
| (1,2834) | 1:27:A:HIS:H | 1:27:A:HIS:HA | 7 | 2.85 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 13 | 2.85 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 3 | 2.85 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 5 | 2.85 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 7 | 2.85 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 7 | 2.85 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 4 | 2.85 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 2.85 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 2.85 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 6 | 2.85 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 6 | 2.85 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 14 | 2.85 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 14 | 2.85 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 2 | 2.85 |
| (1,2706) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 2 | 2.85 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 14 | 2.85 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 14 | 2.85 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 14 | 2.85 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 11 | 2.85 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 11 | 2.85 |
| (1,2680) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 11 | 2.85 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 4 | 2.85 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 3 | 2.85 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 6 | 2.85 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 9 | 2.85 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 15 | 2.85 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 13 | 2.85 |
| (1,2536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 12 | 2.85 |
| (1,2536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 12 | 2.85 |
| (1,2536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 12 | 2.85 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 11 | 2.85 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 11 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 5 | 2.85 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 5 | 2.85 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 5 | 2.85 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 14 | 2.85 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 8 | 2.85 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 6 | 2.85 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 6 | 2.85 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 20 | 2.85 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 13 | 2.85 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 11 | 2.85 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 2 | 2.85 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 3 | 2.85 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 6 | 2.85 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 17 | 2.85 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 6 | 2.85 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 17 | 2.85 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 20 | 2.85 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 3 | 2.85 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 15 | 2.85 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 16 | 2.85 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 6 | 2.85 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 6 | 2.85 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 6 | 2.85 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 17 | 2.85 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 15 | 2.85 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 17 | 2.85 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 6 | 2.85 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 5 | 2.85 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 16 | 2.85 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 16 | 2.85 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 16 | 2.85 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 17 | 2.85 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 1 | 2.85 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 1 | 2.85 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 19 | 2.85 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 19 | 2.85 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 6 | 2.85 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 19 | 2.85 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 19 | 2.85 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 19 | 2.85 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 12 | 2.85 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 12 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 12 | 2.85 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 13 | 2.85 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 13 | 2.85 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 13 | 2.85 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 11 | 2.85 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 20 | 2.85 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 20 | 2.85 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 20 | 2.85 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 20 | 2.85 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 20 | 2.85 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 20 | 2.85 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 17 | 2.85 |
| (1,1912) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 18 | 2.85 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 9 | 2.85 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 1 | 2.85 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 2 | 2.85 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 6 | 2.85 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 19 | 2.85 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 4 | 2.85 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 4 | 2.85 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 1 | 2.85 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 11 | 2.85 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 14 | 2.85 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 19 | 2.85 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 15 | 2.85 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 15 | 2.85 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 15 | 2.85 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 6 | 2.85 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 16 | 2.85 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 16 | 2.85 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 16 | 2.85 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 16 | 2.85 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 16 | 2.85 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 16 | 2.85 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 16 | 2.85 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 16 | 2.85 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 16 | 2.85 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 16 | 2.85 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 19 | 2.85 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 11 | 2.85 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 12 | 2.85 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 18 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 18 | 2.85 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 19 | 2.85 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 19 | 2.85 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 16 | 2.85 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 8 | 2.85 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 15 | 2.85 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 8 | 2.85 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 2 | 2.85 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 4 | 2.85 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 4 | 2.85 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 13 | 2.85 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 13 | 2.85 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 6 | 2.85 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 5 | 2.85 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 17 | 2.85 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 16 | 2.85 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 7 | 2.85 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 13 | 2.85 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 7 | 2.85 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 6 | 2.85 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 8 | 2.85 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 1 | 2.85 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 3 | 2.85 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 20 | 2.85 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 12 | 2.85 |
| (1,1054) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 13 | 2.85 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 13 | 2.85 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 1 | 2.85 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 8 | 2.85 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 18 | 2.85 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 13 | 2.85 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 13 | 2.85 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 13 | 2.85 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 17 | 2.85 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 4 | 2.85 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 10 | 2.85 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 12 | 2.85 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 15 | 2.85 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 1 | 2.85 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 14 | 2.85 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 6 | 2.85 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 2.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 18 | 2.85 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 13 | 2.85 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 1 | 2.85 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 3 | 2.85 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 11 | 2.85 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 11 | 2.85 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 16 | 2.85 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 18 | 2.85 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 14 | 2.85 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 14 | 2.85 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 14 | 2.85 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 14 | 2.85 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 18 | 2.85 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 13 | 2.85 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 13 | 2.85 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 13 | 2.85 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 9 | 2.85 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 13 | 2.85 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 7 | 2.85 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 19 | 2.85 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 2 | 2.85 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 3 | 2.85 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 13 | 2.85 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 20 | 2.85 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 20 | 2.85 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 15 | 2.85 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 4 | 2.85 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 4 | 2.85 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 4 | 2.85 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 14 | 2.85 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 9 | 2.85 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 9 | 2.85 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 2 | 2.85 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 10 | 2.85 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 10 | 2.85 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 10 | 2.85 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 15 | 2.85 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 15 | 2.85 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 15 | 2.85 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 18 | 2.84 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 12 | 2.84 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 5 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 3 | 2.84 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 3 | 2.84 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 11 | 2.84 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 11 | 2.84 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 1 | 2.84 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 1 | 2.84 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 1 | 2.84 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 1 | 2.84 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 12 | 2.84 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 12 | 2.84 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 13 | 2.84 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 13 | 2.84 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 19 | 2.84 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 19 | 2.84 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 19 | 2.84 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 19 | 2.84 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 18 | 2.84 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 18 | 2.84 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 9 | 2.84 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 9 | 2.84 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 17 | 2.84 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 17 | 2.84 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 17 | 2.84 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 17 | 2.84 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 17 | 2.84 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 17 | 2.84 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 17 | 2.84 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 17 | 2.84 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 5 | 2.84 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 5 | 2.84 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 12 | 2.84 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 12 | 2.84 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 15 | 2.84 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 15 | 2.84 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 4 | 2.84 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 4 | 2.84 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 4 | 2.84 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 4 | 2.84 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 4 | 2.84 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 4 | 2.84 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 7 | 2.84 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 7 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 7 | 2.84 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 7 | 2.84 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 7 | 2.84 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 7 | 2.84 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 8 | 2.84 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 8 | 2.84 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 9 | 2.84 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 9 | 2.84 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 6 | 2.84 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 6 | 2.84 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 6 | 2.84 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 6 | 2.84 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 6 | 2.84 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 6 | 2.84 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 8 | 2.84 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 8 | 2.84 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 8 | 2.84 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 8 | 2.84 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 8 | 2.84 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 8 | 2.84 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 13 | 2.84 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 13 | 2.84 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 16 | 2.84 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 16 | 2.84 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 16 | 2.84 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 16 | 2.84 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 16 | 2.84 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 16 | 2.84 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 8 | 2.84 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 8 | 2.84 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 8 | 2.84 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 8 | 2.84 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 8 | 2.84 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 8 | 2.84 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 2.84 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 2.84 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 2.84 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 2.84 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 2.84 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 2.84 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 11 | 2.84 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 11 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 1 | 2.84 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 1 | 2.84 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 9 | 2.84 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 9 | 2.84 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 2 | 2.84 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 2 | 2.84 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 14 | 2.84 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 14 | 2.84 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 2 | 2.84 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 2 | 2.84 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 3 | 2.84 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 3 | 2.84 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 7 | 2.84 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 7 | 2.84 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 7 | 2.84 |
| (1,8465) | 1:150:A:VAL:HG11 | 1:157:A:HIS:H | 13 | 2.84 |
| (1,8465) | 1:150:A:VAL:HG12 | 1:157:A:HIS:H | 13 | 2.84 |
| (1,8465) | 1:150:A:VAL:HG13 | 1:157:A:HIS:H | 13 | 2.84 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 5 | 2.84 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 5 | 2.84 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 5 | 2.84 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 17 | 2.84 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 17 | 2.84 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 17 | 2.84 |
| (1,8214) | 1:108:A:SER:H | 1:119:A:ARG:HA | 12 | 2.84 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 8 | 2.84 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 9 | 2.84 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 6 | 2.84 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 6 | 2.84 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 6 | 2.84 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 6 | 2.84 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 6 | 2.84 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 6 | 2.84 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 6 | 2.84 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 6 | 2.84 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 6 | 2.84 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 8 | 2.84 |
| (1,7933) | 1:71:A:SER:HA | 1:78:A:ILE:H | 19 | 2.84 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 18 | 2.84 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 15 | 2.84 |
| (1,7770) | 1:57:A:CYS:HB2 | 1:58:A:SER:H | 12 | 2.84 |
| (1,7739) | 1:54:A:ARG:HD2 | 1:126:A:SER:HA | 9 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7739) | 1:54:A:ARG:HD3 | 1:126:A:SER:HA | 9 | 2.84 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 9 | 2.84 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 9 | 2.84 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 9 | 2.84 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 10 | 2.84 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 13 | 2.84 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 8 | 2.84 |
| (1,7440) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 10 | 2.84 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 20 | 2.84 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 9 | 2.84 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 9 | 2.84 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 9 | 2.84 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 11 | 2.84 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 11 | 2.84 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 18 | 2.84 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 11 | 2.84 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 20 | 2.84 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 20 | 2.84 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 20 | 2.84 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 18 | 2.84 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 19 | 2.84 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 8 | 2.84 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 10 | 2.84 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 2 | 2.84 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 2 | 2.84 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 2 | 2.84 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 2 | 2.84 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 13 | 2.84 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 10 | 2.84 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 12 | 2.84 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 19 | 2.84 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 19 | 2.84 |
| (1,6846) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 19 | 2.84 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 19 | 2.84 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 1 | 2.84 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 14 | 2.84 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 8 | 2.84 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 14 | 2.84 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 17 | 2.84 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 12 | 2.84 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 12 | 2.84 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 12 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 12 | 2.84 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 12 | 2.84 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 12 | 2.84 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 6 | 2.84 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 13 | 2.84 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 13 | 2.84 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 13 | 2.84 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 6 | 2.84 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 20 | 2.84 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 19 | 2.84 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 19 | 2.84 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 19 | 2.84 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 10 | 2.84 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 10 | 2.84 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 10 | 2.84 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 5 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 3 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 3 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 3 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 16 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 16 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 16 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 18 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 18 | 2.84 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 18 | 2.84 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 15 | 2.84 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 17 | 2.84 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 17 | 2.84 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 17 | 2.84 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 5 | 2.84 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 5 | 2.84 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 3 | 2.84 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 16 | 2.84 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 2 | 2.84 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 2 | 2.84 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 2 | 2.84 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 12 | 2.84 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 2 | 2.84 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 2 | 2.84 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 2 | 2.84 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 14 | 2.84 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 3 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 3 | 2.84 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 3 | 2.84 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 11 | 2.84 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 15 | 2.84 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 7 | 2.84 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 2 | 2.84 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 15 | 2.84 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 1 | 2.84 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 1 | 2.84 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 14 | 2.84 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 14 | 2.84 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 14 | 2.84 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 2 | 2.84 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 6 | 2.84 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 6 | 2.84 |
| (1,5833) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 11 | 2.84 |
| (1,5833) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 11 | 2.84 |
| (1,5833) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 11 | 2.84 |
| (1,5794) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 8 | 2.84 |
| (1,5794) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 8 | 2.84 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 7 | 2.84 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 9 | 2.84 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 4 | 2.84 |
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 15 | 2.84 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 4 | 2.84 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 17 | 2.84 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 15 | 2.84 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 1 | 2.84 |
| (1,5640) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 1 | 2.84 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 1 | 2.84 |
| (1,5640) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 1 | 2.84 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 1 | 2.84 |
| (1,5640) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 1 | 2.84 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 12 | 2.84 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 2 | 2.84 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 10 | 2.84 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 10 | 2.84 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 10 | 2.84 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 10 | 2.84 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 10 | 2.84 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 10 | 2.84 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 13 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 13 | 2.84 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 13 | 2.84 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 16 | 2.84 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 10 | 2.84 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 18 | 2.84 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 3 | 2.84 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 5 | 2.84 |
| (1,5328) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 2 | 2.84 |
| (1,5328) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 2 | 2.84 |
| (1,5328) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 2 | 2.84 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 14 | 2.84 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 14 | 2.84 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 14 | 2.84 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 10 | 2.84 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 10 | 2.84 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 12 | 2.84 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 12 | 2.84 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 12 | 2.84 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 16 | 2.84 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 16 | 2.84 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 16 | 2.84 |
| (1,5079) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 16 | 2.84 |
| (1,5079) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 16 | 2.84 |
| (1,5079) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 16 | 2.84 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 5 | 2.84 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 5 | 2.84 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 5 | 2.84 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 3 | 2.84 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 7 | 2.84 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 19 | 2.84 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 19 | 2.84 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 19 | 2.84 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 13 | 2.84 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 4 | 2.84 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 18 | 2.84 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 18 | 2.84 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 18 | 2.84 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 18 | 2.84 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 3 | 2.84 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 19 | 2.84 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 19 | 2.84 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 19 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 20 | 2.84 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 20 | 2.84 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 20 | 2.84 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 3 | 2.84 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 3 | 2.84 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 7 | 2.84 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 7 | 2.84 |
| (1,4578) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 16 | 2.84 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 6 | 2.84 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 6 | 2.84 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 6 | 2.84 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 8 | 2.84 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 8 | 2.84 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 8 | 2.84 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 3 | 2.84 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 3 | 2.84 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 10 | 2.84 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 10 | 2.84 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 13 | 2.84 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 13 | 2.84 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 13 | 2.84 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 13 | 2.84 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 13 | 2.84 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 12 | 2.84 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 12 | 2.84 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 6 | 2.84 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 6 | 2.84 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 6 | 2.84 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 9 | 2.84 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 9 | 2.84 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 17 | 2.84 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 17 | 2.84 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 17 | 2.84 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 17 | 2.84 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 17 | 2.84 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 17 | 2.84 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 20 | 2.84 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 20 | 2.84 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 17 | 2.84 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 17 | 2.84 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 5 | 2.84 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 5 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 12 | 2.84 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 12 | 2.84 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 15 | 2.84 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 15 | 2.84 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 12 | 2.84 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 12 | 2.84 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 12 | 2.84 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 12 | 2.84 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 14 | 2.84 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 19 | 2.84 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 19 | 2.84 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 19 | 2.84 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 19 | 2.84 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 16 | 2.84 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 14 | 2.84 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 4 | 2.84 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 4 | 2.84 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 4 | 2.84 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 4 | 2.84 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 4 | 2.84 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 4 | 2.84 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 3 | 2.84 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 3 | 2.84 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 15 | 2.84 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 15 | 2.84 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 15 | 2.84 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 4 | 2.84 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 4 | 2.84 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 4 | 2.84 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 6 | 2.84 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 6 | 2.84 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 6 | 2.84 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 7 | 2.84 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 7 | 2.84 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 7 | 2.84 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 7 | 2.84 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 7 | 2.84 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 7 | 2.84 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 2.84 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 3 | 2.84 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 2 | 2.84 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 2 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 2 | 2.84 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 16 | 2.84 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 16 | 2.84 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 16 | 2.84 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 16 | 2.84 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 16 | 2.84 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 16 | 2.84 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 8 | 2.84 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 8 | 2.84 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 8 | 2.84 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 8 | 2.84 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 8 | 2.84 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 8 | 2.84 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 14 | 2.84 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 8 | 2.84 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 8 | 2.84 |
| (1,3960) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 8 | 2.84 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 13 | 2.84 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 13 | 2.84 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 16 | 2.84 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 16 | 2.84 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 16 | 2.84 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 16 | 2.84 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 16 | 2.84 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 16 | 2.84 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 12 | 2.84 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 12 | 2.84 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 12 | 2.84 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 2.84 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 2.84 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 2.84 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 2.84 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 2.84 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 2.84 |
| (1,3750) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 3 | 2.84 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 17 | 2.84 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 17 | 2.84 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 1 | 2.84 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 1 | 2.84 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 9 | 2.84 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 9 | 2.84 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 6 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 1 | 2.84 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 1 | 2.84 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 1 | 2.84 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 1 | 2.84 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 2 | 2.84 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 2 | 2.84 |
| (1,3595) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 2 | 2.84 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 2.84 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 2.84 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 2.84 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 2.84 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 16 | 2.84 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 16 | 2.84 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 16 | 2.84 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 16 | 2.84 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 16 | 2.84 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 16 | 2.84 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 2 | 2.84 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 2 | 2.84 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 7 | 2.84 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 7 | 2.84 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 7 | 2.84 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 10 | 2.84 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 10 | 2.84 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 17 | 2.84 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 14 | 2.84 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 16 | 2.84 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 6 | 2.84 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 20 | 2.84 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 20 | 2.84 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 20 | 2.84 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 7 | 2.84 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 15 | 2.84 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 15 | 2.84 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 15 | 2.84 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 12 | 2.84 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 6 | 2.84 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 2 | 2.84 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 4 | 2.84 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 5 | 2.84 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 13 | 2.84 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 13 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 13 | 2.84 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 2 | 2.84 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 9 | 2.84 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 9 | 2.84 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 9 | 2.84 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 7 | 2.84 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 12 | 2.84 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 18 | 2.84 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 18 | 2.84 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 18 | 2.84 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 13 | 2.84 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 6 | 2.84 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 9 | 2.84 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 7 | 2.84 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 7 | 2.84 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 7 | 2.84 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 3 | 2.84 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 2 | 2.84 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 2 | 2.84 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 2 | 2.84 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 13 | 2.84 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 10 | 2.84 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 12 | 2.84 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 19 | 2.84 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 19 | 2.84 |
| (1,2830) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 19 | 2.84 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 19 | 2.84 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 14 | 2.84 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 1 | 2.84 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 16 | 2.84 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 16 | 2.84 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 14 | 2.84 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 17 | 2.84 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 17 | 2.84 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 17 | 2.84 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 17 | 2.84 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 17 | 2.84 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 17 | 2.84 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 17 | 2.84 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 17 | 2.84 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 17 | 2.84 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 13 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 14 | 2.84 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 17 | 2.84 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 6 | 2.84 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 11 | 2.84 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 13 | 2.84 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 13 | 2.84 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 13 | 2.84 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 6 | 2.84 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 20 | 2.84 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 3 | 2.84 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 19 | 2.84 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 19 | 2.84 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 19 | 2.84 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 19 | 2.84 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 8 | 2.84 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 10 | 2.84 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 10 | 2.84 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 10 | 2.84 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 17 | 2.84 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 10 | 2.84 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 1 | 2.84 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 5 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 3 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 3 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 3 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 16 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 16 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 16 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 18 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 18 | 2.84 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 18 | 2.84 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 4 | 2.84 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 4 | 2.84 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 4 | 2.84 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 2 | 2.84 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 2 | 2.84 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 7 | 2.84 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 18 | 2.84 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 2.84 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 2.84 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 2.84 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 3 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 3 | 2.84 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 3 | 2.84 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 10 | 2.84 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 15 | 2.84 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 6 | 2.84 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 6 | 2.84 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 6 | 2.84 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 6 | 2.84 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 6 | 2.84 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 6 | 2.84 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 17 | 2.84 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 17 | 2.84 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 17 | 2.84 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 1 | 2.84 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 7 | 2.84 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 19 | 2.84 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 5 | 2.84 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 5 | 2.84 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 3 | 2.84 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 16 | 2.84 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 2 | 2.84 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 2 | 2.84 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 2 | 2.84 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 2 | 2.84 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 2 | 2.84 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 2 | 2.84 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 7 | 2.84 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 9 | 2.84 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 13 | 2.84 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 13 | 2.84 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 13 | 2.84 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 6 | 2.84 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 10 | 2.84 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 1 | 2.84 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 14 | 2.84 |
| (1,1820) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 18 | 2.84 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 1 | 2.84 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 6 | 2.84 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 14 | 2.84 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 3 | 2.84 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 6 | 2.84 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 7 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 10 | 2.84 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 14 | 2.84 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 11 | 2.84 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 3 | 2.84 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 3 | 2.84 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 3 | 2.84 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 2 | 2.84 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 2 | 2.84 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 2 | 2.84 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 11 | 2.84 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 7 | 2.84 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 14 | 2.84 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 15 | 2.84 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 7 | 2.84 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 14 | 2.84 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 20 | 2.84 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 15 | 2.84 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 11 | 2.84 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 1 | 2.84 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 1 | 2.84 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 4 | 2.84 |
| (1,1468) | 1:130:A:MET:H | 1:130:A:MET:HA | 9 | 2.84 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 10 | 2.84 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 12 | 2.84 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 4 | 2.84 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 4 | 2.84 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 4 | 2.84 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 4 | 2.84 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 4 | 2.84 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 4 | 2.84 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 14 | 2.84 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 14 | 2.84 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 14 | 2.84 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 13 | 2.84 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 2 | 2.84 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 4 | 2.84 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 4 | 2.84 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 4 | 2.84 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 14 | 2.84 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 6 | 2.84 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 6 | 2.84 |
| (1,1208) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 11 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1208) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 11 | 2.84 |
| (1,1208) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 11 | 2.84 |
| (1,1150) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 8 | 2.84 |
| (1,1150) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 8 | 2.84 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 9 | 2.84 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 16 | 2.84 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 19 | 2.84 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 7 | 2.84 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 3 | 2.84 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 17 | 2.84 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 17 | 2.84 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 17 | 2.84 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 17 | 2.84 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 17 | 2.84 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 17 | 2.84 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 18 | 2.84 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 11 | 2.84 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 2 | 2.84 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 15 | 2.84 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 13 | 2.84 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 13 | 2.84 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 13 | 2.84 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 7 | 2.84 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 9 | 2.84 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 4 | 2.84 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 15 | 2.84 |
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 4 | 2.84 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 14 | 2.84 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 19 | 2.84 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 17 | 2.84 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 15 | 2.84 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 1 | 2.84 |
| (1,866) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 1 | 2.84 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 1 | 2.84 |
| (1,866) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 1 | 2.84 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 1 | 2.84 |
| (1,866) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 1 | 2.84 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 13 | 2.84 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 13 | 2.84 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 13 | 2.84 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 3 | 2.84 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 11 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 5 | 2.84 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 17 | 2.84 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 17 | 2.84 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 12 | 2.84 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 7 | 2.84 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 2 | 2.84 |
| (1,664) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 11 | 2.84 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 17 | 2.84 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 16 | 2.84 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 8 | 2.84 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 17 | 2.84 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 10 | 2.84 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 10 | 2.84 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 10 | 2.84 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 10 | 2.84 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 10 | 2.84 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 10 | 2.84 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 17 | 2.84 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 17 | 2.84 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 17 | 2.84 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 11 | 2.84 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 15 | 2.84 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 14 | 2.84 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 14 | 2.84 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 14 | 2.84 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 14 | 2.84 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 14 | 2.84 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 14 | 2.84 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 12 | 2.84 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 12 | 2.84 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 12 | 2.84 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 12 | 2.84 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 12 | 2.84 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 12 | 2.84 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 16 | 2.84 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 16 | 2.84 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 16 | 2.84 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 1 | 2.84 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 9 | 2.84 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 9 | 2.84 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 9 | 2.84 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 9 | 2.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 9 | 2.84 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 9 | 2.84 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 9 | 2.84 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 9 | 2.84 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 9 | 2.84 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 9 | 2.84 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 9 | 2.84 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 9 | 2.84 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 6 | 2.84 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 1 | 2.84 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 6 | 2.84 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 5 | 2.84 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 5 | 2.84 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 5 | 2.84 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 14 | 2.84 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 4 | 2.83 |
| (4,138) | 1:90:A:ASN:CB | 1:47:A:ASN:H | 16 | 2.83 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 18 | 2.83 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 20 | 2.83 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 11 | 2.83 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 11 | 2.83 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 11 | 2.83 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 11 | 2.83 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 11 | 2.83 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 11 | 2.83 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 17 | 2.83 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 17 | 2.83 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 17 | 2.83 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 17 | 2.83 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 13 | 2.83 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 13 | 2.83 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 1 | 2.83 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 1 | 2.83 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 16 | 2.83 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 16 | 2.83 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 2 | 2.83 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 2 | 2.83 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 10 | 2.83 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 10 | 2.83 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 19 | 2.83 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 19 | 2.83 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 8 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 8 | 2.83 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 6 | 2.83 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 6 | 2.83 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 6 | 2.83 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 6 | 2.83 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 4 | 2.83 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 4 | 2.83 |
| (1,9237) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 4 | 2.83 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 4 | 2.83 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 4 | 2.83 |
| (1,9237) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 4 | 2.83 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 2 | 2.83 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 2 | 2.83 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 1 | 2.83 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 1 | 2.83 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 1 | 2.83 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 1 | 2.83 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 1 | 2.83 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 1 | 2.83 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 8 | 2.83 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 8 | 2.83 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 7 | 2.83 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 7 | 2.83 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 10 | 2.83 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 10 | 2.83 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 18 | 2.83 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 18 | 2.83 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 10 | 2.83 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 10 | 2.83 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 10 | 2.83 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 10 | 2.83 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 13 | 2.83 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 13 | 2.83 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 4 | 2.83 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 4 | 2.83 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 11 | 2.83 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 11 | 2.83 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 19 | 2.83 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 19 | 2.83 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 11 | 2.83 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 11 | 2.83 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 3 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 3 | 2.83 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 12 | 2.83 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 12 | 2.83 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 2 | 2.83 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 2 | 2.83 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 2 | 2.83 |
| (1,8041) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 4 | 2.83 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 6 | 2.83 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 14 | 2.83 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 12 | 2.83 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 12 | 2.83 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 12 | 2.83 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 12 | 2.83 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 12 | 2.83 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 12 | 2.83 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 8 | 2.83 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 7 | 2.83 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 7 | 2.83 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG21 | 13 | 2.83 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG22 | 13 | 2.83 |
| (1,7715) | 1:54:A:ARG:H | 1:55:A:VAL:HG23 | 13 | 2.83 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 5 | 2.83 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 7 | 2.83 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 7 | 2.83 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 8 | 2.83 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 15 | 2.83 |
| (1,7383) | 1:154:A:SER:HB2 | 1:155:A:GLY:H | 12 | 2.83 |
| (1,7383) | 1:154:A:SER:HB3 | 1:155:A:GLY:H | 12 | 2.83 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 6 | 2.83 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 7 | 2.83 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 11 | 2.83 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 11 | 2.83 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 14 | 2.83 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 14 | 2.83 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 12 | 2.83 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 9 | 2.83 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 18 | 2.83 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 16 | 2.83 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 16 | 2.83 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 9 | 2.83 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 9 | 2.83 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 9 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 19 | 2.83 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 18 | 2.83 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 5 | 2.83 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 3 | 2.83 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 10 | 2.83 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 13 | 2.83 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 13 | 2.83 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 7 | 2.83 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 2 | 2.83 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 2 | 2.83 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 2 | 2.83 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 2 | 2.83 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 2 | 2.83 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 2 | 2.83 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 2 | 2.83 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 2 | 2.83 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 2 | 2.83 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 12 | 2.83 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 3 | 2.83 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 12 | 2.83 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 17 | 2.83 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 9 | 2.83 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 1 | 2.83 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 19 | 2.83 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 19 | 2.83 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 19 | 2.83 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 8 | 2.83 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 5 | 2.83 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 5 | 2.83 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 5 | 2.83 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 17 | 2.83 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 17 | 2.83 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 17 | 2.83 |
| (1,6452) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 16 | 2.83 |
| (1,6452) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 16 | 2.83 |
| (1,6452) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 16 | 2.83 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 13 | 2.83 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 13 | 2.83 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 13 | 2.83 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 17 | 2.83 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 17 | 2.83 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 17 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 17 | 2.83 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 17 | 2.83 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 17 | 2.83 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 17 | 2.83 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 17 | 2.83 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 17 | 2.83 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 7 | 2.83 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 7 | 2.83 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 7 | 2.83 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 8 | 2.83 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 8 | 2.83 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 8 | 2.83 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 20 | 2.83 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 7 | 2.83 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 7 | 2.83 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 5 | 2.83 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 20 | 2.83 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 10 | 2.83 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 16 | 2.83 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 10 | 2.83 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 19 | 2.83 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 2 | 2.83 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 11 | 2.83 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 14 | 2.83 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 15 | 2.83 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 6 | 2.83 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 6 | 2.83 |
| (1,5827) | 1:118:A:ALA:H | 1:120:A:GLY:H | 2 | 2.83 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 6 | 2.83 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 5 | 2.83 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 12 | 2.83 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 12 | 2.83 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 12 | 2.83 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 12 | 2.83 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 12 | 2.83 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 9 | 2.83 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 14 | 2.83 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 4 | 2.83 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 7 | 2.83 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 10 | 2.83 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 10 | 2.83 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 10 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 16 | 2.83 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 16 | 2.83 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 16 | 2.83 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 12 | 2.83 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 15 | 2.83 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 3 | 2.83 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 3 | 2.83 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 3 | 2.83 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 20 | 2.83 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 20 | 2.83 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 20 | 2.83 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 20 | 2.83 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 19 | 2.83 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 19 | 2.83 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 19 | 2.83 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 19 | 2.83 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 2 | 2.83 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 2 | 2.83 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 2 | 2.83 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 6 | 2.83 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 6 | 2.83 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 6 | 2.83 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 12 | 2.83 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 6 | 2.83 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 10 | 2.83 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 10 | 2.83 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 10 | 2.83 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 1 | 2.83 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 20 | 2.83 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 15 | 2.83 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 16 | 2.83 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 2 | 2.83 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 17 | 2.83 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 17 | 2.83 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 17 | 2.83 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 16 | 2.83 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 14 | 2.83 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 14 | 2.83 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 17 | 2.83 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 17 | 2.83 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 5 | 2.83 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 5 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 5 | 2.83 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 5 | 2.83 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 5 | 2.83 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 5 | 2.83 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 17 | 2.83 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 17 | 2.83 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 17 | 2.83 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 4 | 2.83 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 4 | 2.83 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 8 | 2.83 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 11 | 2.83 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 11 | 2.83 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 11 | 2.83 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 11 | 2.83 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 11 | 2.83 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 11 | 2.83 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 11 | 2.83 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 11 | 2.83 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 6 | 2.83 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 13 | 2.83 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 13 | 2.83 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 1 | 2.83 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 1 | 2.83 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 16 | 2.83 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 16 | 2.83 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 2 | 2.83 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 2 | 2.83 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 10 | 2.83 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 10 | 2.83 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 19 | 2.83 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 19 | 2.83 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 6 | 2.83 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 17 | 2.83 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 5 | 2.83 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 5 | 2.83 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 5 | 2.83 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 3 | 2.83 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 10 | 2.83 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 6 | 2.83 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 6 | 2.83 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 6 | 2.83 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 6 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 4 | 2.83 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 4 | 2.83 |
| (1,4218) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 4 | 2.83 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 4 | 2.83 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 4 | 2.83 |
| (1,4218) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 4 | 2.83 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 1 | 2.83 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 1 | 2.83 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 1 | 2.83 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 15 | 2.83 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 15 | 2.83 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 2 | 2.83 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 20 | 2.83 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 13 | 2.83 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 13 | 2.83 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 1 | 2.83 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 1 | 2.83 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 1 | 2.83 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 1 | 2.83 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 1 | 2.83 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 1 | 2.83 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 8 | 2.83 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 7 | 2.83 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 7 | 2.83 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 1 | 2.83 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 1 | 2.83 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 16 | 2.83 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 16 | 2.83 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 18 | 2.83 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 18 | 2.83 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 7 | 2.83 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 9 | 2.83 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 1 | 2.83 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 20 | 2.83 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 20 | 2.83 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 20 | 2.83 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 20 | 2.83 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 20 | 2.83 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 20 | 2.83 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 8 | 2.83 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 8 | 2.83 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 8 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 17 | 2.83 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 17 | 2.83 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 8 | 2.83 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 8 | 2.83 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 19 | 2.83 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 19 | 2.83 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 10 | 2.83 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 9 | 2.83 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 9 | 2.83 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 12 | 2.83 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 12 | 2.83 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 3 | 2.83 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 3 | 2.83 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 12 | 2.83 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 12 | 2.83 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 15 | 2.83 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 15 | 2.83 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 16 | 2.83 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 16 | 2.83 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 11 | 2.83 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 11 | 2.83 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 11 | 2.83 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 7 | 2.83 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 11 | 2.83 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 11 | 2.83 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 14 | 2.83 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 14 | 2.83 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 16 | 2.83 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 4 | 2.83 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 4 | 2.83 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 2.83 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 6 | 2.83 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 10 | 2.83 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 7 | 2.83 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 14 | 2.83 |
| (1,3166) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 13 | 2.83 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 9 | 2.83 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 9 | 2.83 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 9 | 2.83 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 11 | 2.83 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 11 | 2.83 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 11 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 16 | 2.83 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 16 | 2.83 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 19 | 2.83 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 2 | 2.83 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 2 | 2.83 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 3 | 2.83 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 15 | 2.83 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 9 | 2.83 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 9 | 2.83 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 2 | 2.83 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 2 | 2.83 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 19 | 2.83 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 1 | 2.83 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 19 | 2.83 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 18 | 2.83 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 3 | 2.83 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 3 | 2.83 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 3 | 2.83 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 6 | 2.83 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 6 | 2.83 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 6 | 2.83 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 5 | 2.83 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 19 | 2.83 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 5 | 2.83 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 3 | 2.83 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 10 | 2.83 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 13 | 2.83 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 13 | 2.83 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 20 | 2.83 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 20 | 2.83 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 7 | 2.83 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 2 | 2.83 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 2 | 2.83 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 2 | 2.83 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 2 | 2.83 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 2 | 2.83 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 2 | 2.83 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 2 | 2.83 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 2 | 2.83 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 2 | 2.83 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 7 | 2.83 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 1 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 12 | 2.83 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 5 | 2.83 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 17 | 2.83 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 15 | 2.83 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 14 | 2.83 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 10 | 2.83 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 9 | 2.83 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 1 | 2.83 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 17 | 2.83 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 1 | 2.83 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 14 | 2.83 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 20 | 2.83 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 19 | 2.83 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 19 | 2.83 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 19 | 2.83 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 9 | 2.83 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 5 | 2.83 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 1 | 2.83 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 8 | 2.83 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 1 | 2.83 |
| (1,2276) | 1:3:A:ASP:H | 1:3:A:ASP:HA | 13 | 2.83 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 5 | 2.83 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 5 | 2.83 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 5 | 2.83 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 17 | 2.83 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 17 | 2.83 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 17 | 2.83 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 9 | 2.83 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 9 | 2.83 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 9 | 2.83 |
| (1,2206) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 16 | 2.83 |
| (1,2206) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 16 | 2.83 |
| (1,2206) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 16 | 2.83 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 13 | 2.83 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 13 | 2.83 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 13 | 2.83 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 6 | 2.83 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 6 | 2.83 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 6 | 2.83 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 3 | 2.83 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 17 | 2.83 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 17 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 17 | 2.83 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 17 | 2.83 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 17 | 2.83 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 17 | 2.83 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 17 | 2.83 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 17 | 2.83 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 17 | 2.83 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 12 | 2.83 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 16 | 2.83 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 8 | 2.83 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 8 | 2.83 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 8 | 2.83 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 10 | 2.83 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 10 | 2.83 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 6 | 2.83 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 10 | 2.83 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 7 | 2.83 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 7 | 2.83 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 7 | 2.83 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 8 | 2.83 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 8 | 2.83 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 8 | 2.83 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 1 | 2.83 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 6 | 2.83 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 18 | 2.83 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 19 | 2.83 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 14 | 2.83 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 14 | 2.83 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 14 | 2.83 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 7 | 2.83 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 20 | 2.83 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 20 | 2.83 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 10 | 2.83 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 7 | 2.83 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 7 | 2.83 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 17 | 2.83 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 19 | 2.83 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 12 | 2.83 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 12 | 2.83 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 12 | 2.83 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 5 | 2.83 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 20 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 2 | 2.83 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 8 | 2.83 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 10 | 2.83 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 8 | 2.83 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 16 | 2.83 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 10 | 2.83 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 10 | 2.83 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 10 | 2.83 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 10 | 2.83 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 16 | 2.83 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 16 | 2.83 |
| (1,1571) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 16 | 2.83 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 8 | 2.83 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 8 | 2.83 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 8 | 2.83 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 10 | 2.83 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 12 | 2.83 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 12 | 2.83 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 12 | 2.83 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 19 | 2.83 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 2 | 2.83 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 13 | 2.83 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 2 | 2.83 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 11 | 2.83 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 14 | 2.83 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 15 | 2.83 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 11 | 2.83 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 15 | 2.83 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 15 | 2.83 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 6 | 2.83 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 6 | 2.83 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 8 | 2.83 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 16 | 2.83 |
| (1,1202) | 1:118:A:ALA:H | 1:120:A:GLY:H | 2 | 2.83 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 20 | 2.83 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 6 | 2.83 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 5 | 2.83 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 12 | 2.83 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 12 | 2.83 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 12 | 2.83 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 12 | 2.83 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 12 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 1 | 2.83 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 6 | 2.83 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 2 | 2.83 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 6 | 2.83 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 9 | 2.83 |
| (1,1066) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 2 | 2.83 |
| (1,1040) | 1:109:A:GLN:H | 1:109:A:GLN:HA | 8 | 2.83 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 9 | 2.83 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 17 | 2.83 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 17 | 2.83 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 17 | 2.83 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 1 | 2.83 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 1 | 2.83 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 1 | 2.83 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 1 | 2.83 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 1 | 2.83 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 17 | 2.83 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 14 | 2.83 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 19 | 2.83 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 4 | 2.83 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 6 | 2.83 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 13 | 2.83 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 19 | 2.83 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 7 | 2.83 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 5 | 2.83 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 5 | 2.83 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 18 | 2.83 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 19 | 2.83 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 13 | 2.83 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 10 | 2.83 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 10 | 2.83 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 10 | 2.83 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 16 | 2.83 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 16 | 2.83 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 16 | 2.83 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 12 | 2.83 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 15 | 2.83 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 10 | 2.83 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 8 | 2.83 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 20 | 2.83 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 1 | 2.83 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 5 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 7 | 2.83 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 15 | 2.83 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 19 | 2.83 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 2 | 2.83 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 2 | 2.83 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 2 | 2.83 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 2 | 2.83 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 2 | 2.83 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 2 | 2.83 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 3 | 2.83 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 3 | 2.83 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 3 | 2.83 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 5 | 2.83 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 9 | 2.83 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 9 | 2.83 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 9 | 2.83 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 9 | 2.83 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 9 | 2.83 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 9 | 2.83 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 6 | 2.83 |
| (1,512) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 6 | 2.83 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 6 | 2.83 |
| (1,512) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 6 | 2.83 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 6 | 2.83 |
| (1,512) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 6 | 2.83 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 9 | 2.83 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 9 | 2.83 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 9 | 2.83 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 12 | 2.83 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 12 | 2.83 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 12 | 2.83 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 5 | 2.83 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 5 | 2.83 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 5 | 2.83 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 18 | 2.83 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 18 | 2.83 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 18 | 2.83 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 4 | 2.83 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 4 | 2.83 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 4 | 2.83 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 13 | 2.83 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 13 | 2.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 13 | 2.83 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 15 | 2.83 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 13 | 2.83 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 2 | 2.83 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 1 | 2.83 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 13 | 2.82 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 14 | 2.82 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 14 | 2.82 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 12 | 2.82 |
| (3,202) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 18 | 2.82 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 12 | 2.82 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 12 | 2.82 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 10 | 2.82 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 10 | 2.82 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 11 | 2.82 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 11 | 2.82 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 11 | 2.82 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 11 | 2.82 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 3 | 2.82 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 3 | 2.82 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 9 | 2.82 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 9 | 2.82 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 16 | 2.82 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 16 | 2.82 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 11 | 2.82 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 11 | 2.82 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 15 | 2.82 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 15 | 2.82 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 1 | 2.82 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 1 | 2.82 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 3 | 2.82 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 3 | 2.82 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 11 | 2.82 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 11 | 2.82 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 2 | 2.82 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 2 | 2.82 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 12 | 2.82 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 12 | 2.82 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 13 | 2.82 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 13 | 2.82 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 4 | 2.82 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 4 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 11 | 2.82 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 11 | 2.82 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 20 | 2.82 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 20 | 2.82 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 4 | 2.82 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 4 | 2.82 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 10 | 2.82 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 10 | 2.82 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 2 | 2.82 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 2 | 2.82 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 17 | 2.82 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 17 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 13 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 13 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 13 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 13 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 13 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 13 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 15 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 15 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 15 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 15 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 15 | 2.82 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 15 | 2.82 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 15 | 2.82 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 15 | 2.82 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 18 | 2.82 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 18 | 2.82 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 18 | 2.82 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 18 | 2.82 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 18 | 2.82 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 18 | 2.82 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 2 | 2.82 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 2 | 2.82 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 11 | 2.82 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 11 | 2.82 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 14 | 2.82 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 14 | 2.82 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 14 | 2.82 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 14 | 2.82 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 14 | 2.82 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 14 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 18 | 2.82 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 18 | 2.82 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 15 | 2.82 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 15 | 2.82 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 15 | 2.82 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 15 | 2.82 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 20 | 2.82 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 20 | 2.82 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 5 | 2.82 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 5 | 2.82 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 2.82 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 2.82 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 14 | 2.82 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 14 | 2.82 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 15 | 2.82 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 15 | 2.82 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 5 | 2.82 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 5 | 2.82 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 17 | 2.82 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 17 | 2.82 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 17 | 2.82 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 17 | 2.82 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 17 | 2.82 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 17 | 2.82 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 5 | 2.82 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 5 | 2.82 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 11 | 2.82 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 11 | 2.82 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 5 | 2.82 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 5 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 17 | 2.82 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 1 | 2.82 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 13 | 2.82 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 5 | 2.82 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 6 | 2.82 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 12 | 2.82 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 12 | 2.82 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 12 | 2.82 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 14 | 2.82 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 19 | 2.82 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 9 | 2.82 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 15 | 2.82 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 15 | 2.82 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 16 | 2.82 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 16 | 2.82 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 17 | 2.82 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 3 | 2.82 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 3 | 2.82 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 4 | 2.82 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 20 | 2.82 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 8 | 2.82 |
| (1,7072) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 8 | 2.82 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 12 | 2.82 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 12 | 2.82 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 1 | 2.82 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 4 | 2.82 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 4 | 2.82 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 5 | 2.82 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 17 | 2.82 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 17 | 2.82 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 19 | 2.82 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 8 | 2.82 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 5 | 2.82 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 5 | 2.82 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 5 | 2.82 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 5 | 2.82 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 5 | 2.82 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 5 | 2.82 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 20 | 2.82 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 13 | 2.82 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 8 | 2.82 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 13 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 2 | 2.82 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 7 | 2.82 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 1 | 2.82 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 8 | 2.82 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 2 | 2.82 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 2 | 2.82 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 2 | 2.82 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 5 | 2.82 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 5 | 2.82 |
| (1,6419) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 5 | 2.82 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 20 | 2.82 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 6 | 2.82 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 6 | 2.82 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 6 | 2.82 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 7 | 2.82 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 7 | 2.82 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 7 | 2.82 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 15 | 2.82 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 15 | 2.82 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 11 | 2.82 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 3 | 2.82 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 3 | 2.82 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 3 | 2.82 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 3 | 2.82 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 3 | 2.82 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 9 | 2.82 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 9 | 2.82 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 7 | 2.82 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 7 | 2.82 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 7 | 2.82 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 7 | 2.82 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 7 | 2.82 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 7 | 2.82 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 7 | 2.82 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 7 | 2.82 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 7 | 2.82 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 8 | 2.82 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 8 | 2.82 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 8 | 2.82 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 7 | 2.82 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 7 | 2.82 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 7 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 17 | 2.82 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 4 | 2.82 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 4 | 2.82 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 4 | 2.82 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 4 | 2.82 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 4 | 2.82 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 4 | 2.82 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 12 | 2.82 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 12 | 2.82 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 12 | 2.82 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 17 | 2.82 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 5 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 12 | 2.82 |
| (1,5921) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 12 | 2.82 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 3 | 2.82 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 3 | 2.82 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 3 | 2.82 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 3 | 2.82 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 3 | 2.82 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 3 | 2.82 |
| (1,5907) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 7 | 2.82 |
| (1,5907) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 7 | 2.82 |
| (1,5907) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 7 | 2.82 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 20 | 2.82 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 20 | 2.82 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 20 | 2.82 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 20 | 2.82 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 20 | 2.82 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 20 | 2.82 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 14 | 2.82 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 2 | 2.82 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 2 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 17 | 2.82 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 17 | 2.82 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 5 | 2.82 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 8 | 2.82 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 7 | 2.82 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 14 | 2.82 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 8 | 2.82 |
| (1,5754) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 9 | 2.82 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 12 | 2.82 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 3 | 2.82 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 20 | 2.82 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 18 | 2.82 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 18 | 2.82 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 1 | 2.82 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 18 | 2.82 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 18 | 2.82 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 1 | 2.82 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 18 | 2.82 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 12 | 2.82 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 15 | 2.82 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 15 | 2.82 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 15 | 2.82 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 11 | 2.82 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 15 | 2.82 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 15 | 2.82 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 3 | 2.82 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 17 | 2.82 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 14 | 2.82 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 14 | 2.82 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 14 | 2.82 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 14 | 2.82 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 14 | 2.82 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 14 | 2.82 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 14 | 2.82 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 14 | 2.82 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 14 | 2.82 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 7 | 2.82 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 20 | 2.82 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 10 | 2.82 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 12 | 2.82 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 11 | 2.82 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 11 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 11 | 2.82 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 10 | 2.82 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 17 | 2.82 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 17 | 2.82 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 17 | 2.82 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 19 | 2.82 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 18 | 2.82 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 20 | 2.82 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 20 | 2.82 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 20 | 2.82 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 3 | 2.82 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 8 | 2.82 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 2 | 2.82 |
| (1,4847) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 19 | 2.82 |
| (1,4847) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 19 | 2.82 |
| (1,4847) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 19 | 2.82 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 11 | 2.82 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 11 | 2.82 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 11 | 2.82 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 4 | 2.82 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 10 | 2.82 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 10 | 2.82 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 12 | 2.82 |
| (1,4729) | 1:56:A:ARG:H | 1:163:A:GLU:H | 2 | 2.82 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 14 | 2.82 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 12 | 2.82 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 12 | 2.82 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 12 | 2.82 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 12 | 2.82 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 12 | 2.82 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 12 | 2.82 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 18 | 2.82 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 18 | 2.82 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 14 | 2.82 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 16 | 2.82 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 16 | 2.82 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 16 | 2.82 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 6 | 2.82 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 7 | 2.82 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 9 | 2.82 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 9 | 2.82 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 6 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 12 | 2.82 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 12 | 2.82 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 16 | 2.82 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 16 | 2.82 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 16 | 2.82 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 16 | 2.82 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 16 | 2.82 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 16 | 2.82 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 12 | 2.82 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 12 | 2.82 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 20 | 2.82 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 20 | 2.82 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 20 | 2.82 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 20 | 2.82 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 20 | 2.82 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 20 | 2.82 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 7 | 2.82 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 7 | 2.82 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 3 | 2.82 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 7 | 2.82 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 7 | 2.82 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 8 | 2.82 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 8 | 2.82 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 14 | 2.82 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 14 | 2.82 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 14 | 2.82 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 8 | 2.82 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 8 | 2.82 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 8 | 2.82 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 8 | 2.82 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 8 | 2.82 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 8 | 2.82 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 5 | 2.82 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 8 | 2.82 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 8 | 2.82 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 8 | 2.82 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 8 | 2.82 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 10 | 2.82 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 10 | 2.82 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 16 | 2.82 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 16 | 2.82 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 5 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 5 | 2.82 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 5 | 2.82 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 1 | 2.82 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 1 | 2.82 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 1 | 2.82 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 16 | 2.82 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 16 | 2.82 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 11 | 2.82 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 11 | 2.82 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 15 | 2.82 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 15 | 2.82 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 1 | 2.82 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 1 | 2.82 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 3 | 2.82 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 3 | 2.82 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 11 | 2.82 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 11 | 2.82 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 2 | 2.82 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 2 | 2.82 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 16 | 2.82 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 16 | 2.82 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 16 | 2.82 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 16 | 2.82 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 12 | 2.82 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 12 | 2.82 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 18 | 2.82 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 18 | 2.82 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 18 | 2.82 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 18 | 2.82 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 18 | 2.82 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 18 | 2.82 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 4 | 2.82 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 4 | 2.82 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 3 | 2.82 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 3 | 2.82 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 16 | 2.82 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 16 | 2.82 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 16 | 2.82 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 19 | 2.82 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 19 | 2.82 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 5 | 2.82 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 5 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 8 | 2.82 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 13 | 2.82 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 13 | 2.82 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 13 | 2.82 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 13 | 2.82 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 13 | 2.82 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 13 | 2.82 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 11 | 2.82 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 11 | 2.82 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 20 | 2.82 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 20 | 2.82 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 4 | 2.82 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 4 | 2.82 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 5 | 2.82 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 5 | 2.82 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 15 | 2.82 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 15 | 2.82 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 5 | 2.82 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 6 | 2.82 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 6 | 2.82 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 16 | 2.82 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 2 | 2.82 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 2 | 2.82 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 13 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 13 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 13 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 13 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 13 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 13 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 15 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 15 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 15 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 15 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 15 | 2.82 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 15 | 2.82 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 9 | 2.82 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 9 | 2.82 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 2 | 2.82 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 2 | 2.82 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 11 | 2.82 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 11 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 4 | 2.82 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 18 | 2.82 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 18 | 2.82 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 1 | 2.82 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 1 | 2.82 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 6 | 2.82 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 6 | 2.82 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 6 | 2.82 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 6 | 2.82 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 14 | 2.82 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 14 | 2.82 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 14 | 2.82 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 14 | 2.82 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 14 | 2.82 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 14 | 2.82 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 6 | 2.82 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 6 | 2.82 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 20 | 2.82 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 20 | 2.82 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 4 | 2.82 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 4 | 2.82 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 7 | 2.82 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 7 | 2.82 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 15 | 2.82 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 15 | 2.82 |
| (1,3566) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 15 | 2.82 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 15 | 2.82 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 15 | 2.82 |
| (1,3566) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 15 | 2.82 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 14 | 2.82 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 14 | 2.82 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 19 | 2.82 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 15 | 2.82 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 15 | 2.82 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 11 | 2.82 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 13 | 2.82 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 5 | 2.82 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 5 | 2.82 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 15 | 2.82 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 19 | 2.82 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 17 | 2.82 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 3 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 3 | 2.82 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 13 | 2.82 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 4 | 2.82 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 8 | 2.82 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 12 | 2.82 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 12 | 2.82 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 13 | 2.82 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 17 | 2.82 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 12 | 2.82 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 12 | 2.82 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 12 | 2.82 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 8 | 2.82 |
| (1,3126) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 8 | 2.82 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 5 | 2.82 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 3 | 2.82 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 13 | 2.82 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 4 | 2.82 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 4 | 2.82 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 5 | 2.82 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 6 | 2.82 |
| (1,2952) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 9 | 2.82 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 17 | 2.82 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 4 | 2.82 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 13 | 2.82 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 13 | 2.82 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 13 | 2.82 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 17 | 2.82 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 19 | 2.82 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 8 | 2.82 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 5 | 2.82 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 5 | 2.82 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 5 | 2.82 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 5 | 2.82 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 5 | 2.82 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 5 | 2.82 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 17 | 2.82 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 17 | 2.82 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 20 | 2.82 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 20 | 2.82 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 20 | 2.82 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 20 | 2.82 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 20 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 20 | 2.82 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 18 | 2.82 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 18 | 2.82 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 18 | 2.82 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 18 | 2.82 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 18 | 2.82 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 18 | 2.82 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 18 | 2.82 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 8 | 2.82 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 9 | 2.82 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 10 | 2.82 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 16 | 2.82 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 8 | 2.82 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 15 | 2.82 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 19 | 2.82 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 13 | 2.82 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 7 | 2.82 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 7 | 2.82 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 8 | 2.82 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 9 | 2.82 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 19 | 2.82 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 8 | 2.82 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 16 | 2.82 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 3 | 2.82 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 17 | 2.82 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 18 | 2.82 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 19 | 2.82 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 9 | 2.82 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 14 | 2.82 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 17 | 2.82 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 17 | 2.82 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 17 | 2.82 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 19 | 2.82 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 2 | 2.82 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 2 | 2.82 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 2 | 2.82 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 10 | 2.82 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 10 | 2.82 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 10 | 2.82 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 10 | 2.82 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 19 | 2.82 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 11 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 5 | 2.82 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 5 | 2.82 |
| (1,2134) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 5 | 2.82 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 20 | 2.82 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 19 | 2.82 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 19 | 2.82 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 19 | 2.82 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 14 | 2.82 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 14 | 2.82 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 14 | 2.82 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 6 | 2.82 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 6 | 2.82 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 6 | 2.82 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 1 | 2.82 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 1 | 2.82 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 1 | 2.82 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 1 | 2.82 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 1 | 2.82 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 1 | 2.82 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 15 | 2.82 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 15 | 2.82 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 11 | 2.82 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 3 | 2.82 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 3 | 2.82 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 3 | 2.82 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 2.82 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 2.82 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 2.82 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 4 | 2.82 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 2 | 2.82 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 8 | 2.82 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 9 | 2.82 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 7 | 2.82 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 6 | 2.82 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 6 | 2.82 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 6 | 2.82 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 3 | 2.82 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 3 | 2.82 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 9 | 2.82 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 9 | 2.82 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 7 | 2.82 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 7 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 7 | 2.82 |
| (1,1748) | 1:141:A:LEU:H | 1:141:A:LEU:HA | 16 | 2.82 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 11 | 2.82 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 19 | 2.82 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 9 | 2.82 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 7 | 2.82 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 7 | 2.82 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 7 | 2.82 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 7 | 2.82 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 7 | 2.82 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 7 | 2.82 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 7 | 2.82 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 7 | 2.82 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 7 | 2.82 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 8 | 2.82 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 8 | 2.82 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 8 | 2.82 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 5 | 2.82 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 17 | 2.82 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 3 | 2.82 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 6 | 2.82 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 9 | 2.82 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 9 | 2.82 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 7 | 2.82 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 7 | 2.82 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 7 | 2.82 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 17 | 2.82 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 9 | 2.82 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 15 | 2.82 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 4 | 2.82 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 4 | 2.82 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 4 | 2.82 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 4 | 2.82 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 4 | 2.82 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 4 | 2.82 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 12 | 2.82 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 12 | 2.82 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 14 | 2.82 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 9 | 2.82 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 2 | 2.82 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 12 | 2.82 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 17 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 12 | 2.82 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 13 | 2.82 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 5 | 2.82 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 19 | 2.82 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 10 | 2.82 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 3 | 2.82 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 3 | 2.82 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 3 | 2.82 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 3 | 2.82 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 3 | 2.82 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 3 | 2.82 |
| (1,1324) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 7 | 2.82 |
| (1,1324) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 7 | 2.82 |
| (1,1324) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 7 | 2.82 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 20 | 2.82 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 20 | 2.82 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 20 | 2.82 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 20 | 2.82 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 20 | 2.82 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 20 | 2.82 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 14 | 2.82 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 17 | 2.82 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 17 | 2.82 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 5 | 2.82 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 8 | 2.82 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 7 | 2.82 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 14 | 2.82 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 14 | 2.82 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 8 | 2.82 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 19 | 2.82 |
| (1,1086) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 9 | 2.82 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 3 | 2.82 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 7 | 2.82 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 14 | 2.82 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 15 | 2.82 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 19 | 2.82 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 12 | 2.82 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 11 | 2.82 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 15 | 2.82 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 19 | 2.82 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 2 | 2.82 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 20 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 20 | 2.82 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 20 | 2.82 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 12 | 2.82 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 4 | 2.82 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 16 | 2.82 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 9 | 2.82 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 13 | 2.82 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 10 | 2.82 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 10 | 2.82 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 10 | 2.82 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 10 | 2.82 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 10 | 2.82 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 10 | 2.82 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 2.82 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 2.82 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 2.82 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 9 | 2.82 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 9 | 2.82 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 9 | 2.82 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 5 | 2.82 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 12 | 2.82 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 20 | 2.82 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 3 | 2.82 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 20 | 2.82 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 2 | 2.82 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 16 | 2.82 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 18 | 2.82 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 18 | 2.82 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 1 | 2.82 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 18 | 2.82 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 18 | 2.82 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 17 | 2.82 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 1 | 2.82 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 11 | 2.82 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 18 | 2.82 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 10 | 2.82 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 20 | 2.82 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 6 | 2.82 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 7 | 2.82 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 7 | 2.82 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 7 | 2.82 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 9 | 2.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 17 | 2.82 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 17 | 2.82 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 17 | 2.82 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 17 | 2.82 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 17 | 2.82 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 17 | 2.82 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 17 | 2.82 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 17 | 2.82 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 17 | 2.82 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 17 | 2.82 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 17 | 2.82 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 17 | 2.82 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 14 | 2.82 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 2 | 2.82 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 20 | 2.82 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 4 | 2.82 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 2 | 2.82 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 2 | 2.82 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 2 | 2.82 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 3 | 2.82 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 3 | 2.82 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 3 | 2.82 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 16 | 2.82 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 16 | 2.82 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 13 | 2.81 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 8 | 2.81 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 16 | 2.81 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 16 | 2.81 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 19 | 2.81 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 5 | 2.81 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 5 | 2.81 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 16 | 2.81 |
| (1,9583) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 16 | 2.81 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 16 | 2.81 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 16 | 2.81 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 16 | 2.81 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 16 | 2.81 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 16 | 2.81 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 16 | 2.81 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 10 | 2.81 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 10 | 2.81 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 14 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 14 | 2.81 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 14 | 2.81 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 14 | 2.81 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 14 | 2.81 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 14 | 2.81 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 2.81 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 2.81 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 1 | 2.81 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 1 | 2.81 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 1 | 2.81 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 1 | 2.81 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 1 | 2.81 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 1 | 2.81 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 14 | 2.81 |
| (1,9423) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 14 | 2.81 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 16 | 2.81 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 16 | 2.81 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 4 | 2.81 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 4 | 2.81 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 5 | 2.81 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 5 | 2.81 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 8 | 2.81 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 8 | 2.81 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 2.81 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 2.81 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 19 | 2.81 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 19 | 2.81 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 16 | 2.81 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 16 | 2.81 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 16 | 2.81 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 16 | 2.81 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 14 | 2.81 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 14 | 2.81 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 8 | 2.81 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 8 | 2.81 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 8 | 2.81 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 8 | 2.81 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 8 | 2.81 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 8 | 2.81 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 13 | 2.81 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 13 | 2.81 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 10 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 10 | 2.81 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 15 | 2.81 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 15 | 2.81 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 15 | 2.81 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 15 | 2.81 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 19 | 2.81 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 19 | 2.81 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 19 | 2.81 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 19 | 2.81 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 19 | 2.81 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 19 | 2.81 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 5 | 2.81 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 5 | 2.81 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 20 | 2.81 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 20 | 2.81 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 2 | 2.81 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 2 | 2.81 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 2 | 2.81 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 2 | 2.81 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 2 | 2.81 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 2 | 2.81 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 19 | 2.81 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 19 | 2.81 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 19 | 2.81 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 19 | 2.81 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 19 | 2.81 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 19 | 2.81 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 3 | 2.81 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 3 | 2.81 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 5 | 2.81 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 5 | 2.81 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 1 | 2.81 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 1 | 2.81 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB2 | 12 | 2.81 |
| (1,8901) | 1:65:A:SER:H | 1:80:A:ARG:HB3 | 12 | 2.81 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 7 | 2.81 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 7 | 2.81 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 18 | 2.81 |
| (1,8745) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 18 | 2.81 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 18 | 2.81 |
| (1,8745) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 18 | 2.81 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 2 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 2 | 2.81 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 17 | 2.81 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 17 | 2.81 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 2.81 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 2.81 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 3 | 2.81 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 3 | 2.81 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 17 | 2.81 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 17 | 2.81 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 19 | 2.81 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 19 | 2.81 |
| (1,8430) | 1:144:A:GLY:H | 1:146:A:MET:H | 16 | 2.81 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 1 | 2.81 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 1 | 2.81 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 6 | 2.81 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 2 | 2.81 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 12 | 2.81 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 13 | 2.81 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 20 | 2.81 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 9 | 2.81 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG21 | 16 | 2.81 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG22 | 16 | 2.81 |
| (1,7627) | 1:26:A:ASN:HD22 | 1:29:A:THR:HG23 | 16 | 2.81 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 2 | 2.81 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 9 | 2.81 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 12 | 2.81 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 12 | 2.81 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 5 | 2.81 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 5 | 2.81 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 5 | 2.81 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 5 | 2.81 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 5 | 2.81 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 5 | 2.81 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 5 | 2.81 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 5 | 2.81 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 5 | 2.81 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 6 | 2.81 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 6 | 2.81 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 6 | 2.81 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 18 | 2.81 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 18 | 2.81 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 2 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 1 | 2.81 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 6 | 2.81 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 6 | 2.81 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 7 | 2.81 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 19 | 2.81 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 3 | 2.81 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 14 | 2.81 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 4 | 2.81 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 20 | 2.81 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 7 | 2.81 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 15 | 2.81 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 15 | 2.81 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 18 | 2.81 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 18 | 2.81 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 18 | 2.81 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 18 | 2.81 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 9 | 2.81 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 9 | 2.81 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 12 | 2.81 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 12 | 2.81 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 12 | 2.81 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 8 | 2.81 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 9 | 2.81 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 19 | 2.81 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 19 | 2.81 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 19 | 2.81 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 19 | 2.81 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 19 | 2.81 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 19 | 2.81 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 1 | 2.81 |
| (1,6599) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 1 | 2.81 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 9 | 2.81 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 9 | 2.81 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 9 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 1 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 1 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 1 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 8 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 8 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 8 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 9 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 9 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 9 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 15 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 15 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 15 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 20 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 20 | 2.81 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 20 | 2.81 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 5 | 2.81 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 5 | 2.81 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 5 | 2.81 |
| (1,6437) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 17 | 2.81 |
| (1,6437) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 17 | 2.81 |
| (1,6437) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 17 | 2.81 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 4 | 2.81 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 11 | 2.81 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 7 | 2.81 |
| (1,6306) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,6306) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,6306) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 15 | 2.81 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 15 | 2.81 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 15 | 2.81 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 15 | 2.81 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 15 | 2.81 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 15 | 2.81 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 15 | 2.81 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 15 | 2.81 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 15 | 2.81 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 10 | 2.81 |
| (1,6261) | 1:147:A:SER:H | 1:159:A:ILE:H | 4 | 2.81 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 7 | 2.81 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 10 | 2.81 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 10 | 2.81 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 18 | 2.81 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 18 | 2.81 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 18 | 2.81 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 18 | 2.81 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 18 | 2.81 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 18 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 2 | 2.81 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 9 | 2.81 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 1 | 2.81 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 16 | 2.81 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 16 | 2.81 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 16 | 2.81 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 3 | 2.81 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 14 | 2.81 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 14 | 2.81 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 11 | 2.81 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 18 | 2.81 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 17 | 2.81 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 17 | 2.81 |
| (1,5890) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 4 | 2.81 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 4 | 2.81 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 10 | 2.81 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 10 | 2.81 |
| (1,5870) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 10 | 2.81 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 16 | 2.81 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 17 | 2.81 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 2 | 2.81 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 2 | 2.81 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 2 | 2.81 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 16 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 10 | 2.81 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 10 | 2.81 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 7 | 2.81 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 14 | 2.81 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 15 | 2.81 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 1 | 2.81 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 2 | 2.81 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 2 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 14 | 2.81 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 20 | 2.81 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 4 | 2.81 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 4 | 2.81 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 4 | 2.81 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 10 | 2.81 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 10 | 2.81 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 10 | 2.81 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 2 | 2.81 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 16 | 2.81 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 5 | 2.81 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 7 | 2.81 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 12 | 2.81 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 12 | 2.81 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 3 | 2.81 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 16 | 2.81 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 17 | 2.81 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 17 | 2.81 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 2 | 2.81 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 2 | 2.81 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 2 | 2.81 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 2 | 2.81 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 10 | 2.81 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 19 | 2.81 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 10 | 2.81 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 11 | 2.81 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 3 | 2.81 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 3 | 2.81 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 11 | 2.81 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 11 | 2.81 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 11 | 2.81 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 12 | 2.81 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 8 | 2.81 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 10 | 2.81 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 10 | 2.81 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 5 | 2.81 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 5 | 2.81 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 3 | 2.81 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 16 | 2.81 |
| (1,4576) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 16 | 2.81 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 16 | 2.81 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 16 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 16 | 2.81 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 16 | 2.81 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 16 | 2.81 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 16 | 2.81 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 2 | 2.81 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 2 | 2.81 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 2 | 2.81 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 10 | 2.81 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 10 | 2.81 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 10 | 2.81 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 2.81 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 2.81 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 11 | 2.81 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 11 | 2.81 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 11 | 2.81 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 11 | 2.81 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 13 | 2.81 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 13 | 2.81 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 13 | 2.81 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 13 | 2.81 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 14 | 2.81 |
| (1,4402) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 14 | 2.81 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 18 | 2.81 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 18 | 2.81 |
| (1,4384) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 18 | 2.81 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 8 | 2.81 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 2 | 2.81 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 15 | 2.81 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 15 | 2.81 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 15 | 2.81 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 9 | 2.81 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 9 | 2.81 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 4 | 2.81 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 4 | 2.81 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 5 | 2.81 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 5 | 2.81 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 8 | 2.81 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 8 | 2.81 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 2.81 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 2.81 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 19 | 2.81 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 19 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 4 | 2.81 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 8 | 2.81 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 16 | 2.81 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 16 | 2.81 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 16 | 2.81 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 16 | 2.81 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 14 | 2.81 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 14 | 2.81 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 8 | 2.81 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 8 | 2.81 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 8 | 2.81 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 8 | 2.81 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 8 | 2.81 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 8 | 2.81 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 13 | 2.81 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 13 | 2.81 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 15 | 2.81 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 17 | 2.81 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 17 | 2.81 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 5 | 2.81 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 5 | 2.81 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 15 | 2.81 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 15 | 2.81 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 15 | 2.81 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 15 | 2.81 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 15 | 2.81 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 19 | 2.81 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 19 | 2.81 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 19 | 2.81 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 19 | 2.81 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 19 | 2.81 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 19 | 2.81 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 7 | 2.81 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 2 | 2.81 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 5 | 2.81 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 5 | 2.81 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 20 | 2.81 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 20 | 2.81 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 17 | 2.81 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 17 | 2.81 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 8 | 2.81 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 2 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 2 | 2.81 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 2 | 2.81 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 2 | 2.81 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 2 | 2.81 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 2 | 2.81 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 1 | 2.81 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 1 | 2.81 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 5 | 2.81 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 5 | 2.81 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 5 | 2.81 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 1 | 2.81 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 1 | 2.81 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 2 | 2.81 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 8 | 2.81 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 7 | 2.81 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 7 | 2.81 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 7 | 2.81 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 5 | 2.81 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 5 | 2.81 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 5 | 2.81 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 18 | 2.81 |
| (1,3710) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 18 | 2.81 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 18 | 2.81 |
| (1,3710) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 18 | 2.81 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 17 | 2.81 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 17 | 2.81 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 17 | 2.81 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 20 | 2.81 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 20 | 2.81 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 2.81 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 2.81 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 7 | 2.81 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 1 | 2.81 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 1 | 2.81 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 12 | 2.81 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 12 | 2.81 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 6 | 2.81 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 5 | 2.81 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 5 | 2.81 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 5 | 2.81 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 5 | 2.81 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 5 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 5 | 2.81 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 5 | 2.81 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 5 | 2.81 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 5 | 2.81 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 6 | 2.81 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 6 | 2.81 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 6 | 2.81 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 20 | 2.81 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 18 | 2.81 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 18 | 2.81 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 12 | 2.81 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 12 | 2.81 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 19 | 2.81 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 15 | 2.81 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 5 | 2.81 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 7 | 2.81 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 11 | 2.81 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 1 | 2.81 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 17 | 2.81 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 17 | 2.81 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 17 | 2.81 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 19 | 2.81 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 19 | 2.81 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 16 | 2.81 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 9 | 2.81 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 10 | 2.81 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 10 | 2.81 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 17 | 2.81 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 7 | 2.81 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 6 | 2.81 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 7 | 2.81 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 19 | 2.81 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 3 | 2.81 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 14 | 2.81 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 14 | 2.81 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 4 | 2.81 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 20 | 2.81 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 20 | 2.81 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 20 | 2.81 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 20 | 2.81 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 11 | 2.81 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 15 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 15 | 2.81 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 7 | 2.81 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 7 | 2.81 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 20 | 2.81 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 20 | 2.81 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 9 | 2.81 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 9 | 2.81 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 1 | 2.81 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 1 | 2.81 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 12 | 2.81 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 12 | 2.81 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 12 | 2.81 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 7 | 2.81 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 16 | 2.81 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 14 | 2.81 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 18 | 2.81 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 18 | 2.81 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 18 | 2.81 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 8 | 2.81 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 9 | 2.81 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 6 | 2.81 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 6 | 2.81 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 6 | 2.81 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 6 | 2.81 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 6 | 2.81 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 6 | 2.81 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 1 | 2.81 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 12 | 2.81 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 19 | 2.81 |
| (1,2456) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 1 | 2.81 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 10 | 2.81 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 10 | 2.81 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 3 | 2.81 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 9 | 2.81 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 9 | 2.81 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 9 | 2.81 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 14 | 2.81 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 19 | 2.81 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 13 | 2.81 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 18 | 2.81 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 9 | 2.81 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 7 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 19 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 1 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 1 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 1 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 8 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 8 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 8 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 9 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 9 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 9 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 15 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 15 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 15 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 20 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 20 | 2.81 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 20 | 2.81 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 6 | 2.81 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 5 | 2.81 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 5 | 2.81 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 5 | 2.81 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 4 | 2.81 |
| (1,2168) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 17 | 2.81 |
| (1,2168) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 17 | 2.81 |
| (1,2168) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 17 | 2.81 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 9 | 2.81 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 12 | 2.81 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 10 | 2.81 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 4 | 2.81 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 11 | 2.81 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 14 | 2.81 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 7 | 2.81 |
| (1,1978) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,1978) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,1978) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 5 | 2.81 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 5 | 2.81 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 5 | 2.81 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 5 | 2.81 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 5 | 2.81 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 5 | 2.81 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 5 | 2.81 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 5 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 5 | 2.81 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 13 | 2.81 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 8 | 2.81 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 8 | 2.81 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 8 | 2.81 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 2 | 2.81 |
| (1,1928) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 3 | 2.81 |
| (1,1918) | 1:147:A:SER:H | 1:159:A:ILE:H | 4 | 2.81 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 18 | 2.81 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 18 | 2.81 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 18 | 2.81 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 18 | 2.81 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 18 | 2.81 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 18 | 2.81 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 18 | 2.81 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 18 | 2.81 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 18 | 2.81 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 9 | 2.81 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 3 | 2.81 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 3 | 2.81 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 3 | 2.81 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 3 | 2.81 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 2 | 2.81 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 20 | 2.81 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 7 | 2.81 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 10 | 2.81 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 10 | 2.81 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 18 | 2.81 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 18 | 2.81 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 18 | 2.81 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 18 | 2.81 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 18 | 2.81 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 18 | 2.81 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 18 | 2.81 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 2 | 2.81 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 9 | 2.81 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 7 | 2.81 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 17 | 2.81 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 20 | 2.81 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 1 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1708) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 8 | 2.81 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 16 | 2.81 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 16 | 2.81 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 16 | 2.81 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 1 | 2.81 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 2 | 2.81 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 17 | 2.81 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 3 | 2.81 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 2 | 2.81 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 5 | 2.81 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 6 | 2.81 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 14 | 2.81 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 14 | 2.81 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 18 | 2.81 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 11 | 2.81 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 11 | 2.81 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 11 | 2.81 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 11 | 2.81 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 4 | 2.81 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 11 | 2.81 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 20 | 2.81 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 20 | 2.81 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 18 | 2.81 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 8 | 2.81 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 17 | 2.81 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 17 | 2.81 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 15 | 2.81 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 18 | 2.81 |
| (1,1304) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 4 | 2.81 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 4 | 2.81 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 10 | 2.81 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 10 | 2.81 |
| (1,1274) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 10 | 2.81 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 1 | 2.81 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 15 | 2.81 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 15 | 2.81 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 16 | 2.81 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 5 | 2.81 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 12 | 2.81 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 4 | 2.81 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 4 | 2.81 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 2 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 17 | 2.81 |
| (1,1130) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 13 | 2.81 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 8 | 2.81 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 16 | 2.81 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 2 | 2.81 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 2 | 2.81 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 3 | 2.81 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 10 | 2.81 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 1 | 2.81 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 5 | 2.81 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 4 | 2.81 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 7 | 2.81 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 9 | 2.81 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 9 | 2.81 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 3 | 2.81 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 3 | 2.81 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 15 | 2.81 |
| (1,754) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 15 | 2.81 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 13 | 2.81 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 16 | 2.81 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 8 | 2.81 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 14 | 2.81 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 7 | 2.81 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 15 | 2.81 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 15 | 2.81 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 11 | 2.81 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 9 | 2.81 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 9 | 2.81 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 9 | 2.81 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 1 | 2.81 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 20 | 2.81 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 20 | 2.81 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 20 | 2.81 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 14 | 2.81 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 14 | 2.81 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 14 | 2.81 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 7 | 2.81 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 7 | 2.81 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 7 | 2.81 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 16 | 2.81 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 15 | 2.81 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 17 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 8 | 2.81 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 1 | 2.81 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 1 | 2.81 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 1 | 2.81 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 10 | 2.81 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 11 | 2.81 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 11 | 2.81 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 11 | 2.81 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 13 | 2.81 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 13 | 2.81 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 13 | 2.81 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 12 | 2.81 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 12 | 2.81 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 12 | 2.81 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 14 | 2.81 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 13 | 2.81 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 12 | 2.8 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 19 | 2.8 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 16 | 2.8 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 20 | 2.8 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 20 | 2.8 |
| (1,9571) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 18 | 2.8 |
| (1,9571) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 18 | 2.8 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 3 | 2.8 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 3 | 2.8 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 14 | 2.8 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 14 | 2.8 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 6 | 2.8 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 6 | 2.8 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 6 | 2.8 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 6 | 2.8 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 8 | 2.8 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 8 | 2.8 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 3 | 2.8 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 3 | 2.8 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 2 | 2.8 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 2 | 2.8 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 15 | 2.8 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 15 | 2.8 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 17 | 2.8 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 17 | 2.8 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 10 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 10 | 2.8 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 12 | 2.8 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 12 | 2.8 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 13 | 2.8 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 13 | 2.8 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 12 | 2.8 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 12 | 2.8 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 12 | 2.8 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 12 | 2.8 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 12 | 2.8 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 12 | 2.8 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 18 | 2.8 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 18 | 2.8 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 2 | 2.8 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 2 | 2.8 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 6 | 2.8 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 6 | 2.8 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 6 | 2.8 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 6 | 2.8 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 6 | 2.8 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 6 | 2.8 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 9 | 2.8 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 9 | 2.8 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 9 | 2.8 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 9 | 2.8 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 9 | 2.8 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 9 | 2.8 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 10 | 2.8 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 10 | 2.8 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 4 | 2.8 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 4 | 2.8 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 3 | 2.8 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 3 | 2.8 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 17 | 2.8 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 17 | 2.8 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 9 | 2.8 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 9 | 2.8 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 6 | 2.8 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 6 | 2.8 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 13 | 2.8 |
| (1,8447) | 1:146:A:MET:H | 1:146:A:MET:HG2 | 7 | 2.8 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 13 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 13 | 2.8 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 13 | 2.8 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 13 | 2.8 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 13 | 2.8 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 13 | 2.8 |
| (1,8298) | 1:127:A:ARG:HG2 | 1:128:A:GLY:H | 13 | 2.8 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 3 | 2.8 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 18 | 2.8 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 2.8 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 2.8 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 2.8 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 15 | 2.8 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 2 | 2.8 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 8 | 2.8 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 4 | 2.8 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 4 | 2.8 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 4 | 2.8 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 4 | 2.8 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 4 | 2.8 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 4 | 2.8 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 4 | 2.8 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 4 | 2.8 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 4 | 2.8 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 4 | 2.8 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 18 | 2.8 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 12 | 2.8 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 3 | 2.8 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 3 | 2.8 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 3 | 2.8 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 5 | 2.8 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 9 | 2.8 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 8 | 2.8 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 8 | 2.8 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 12 | 2.8 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 4 | 2.8 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 4 | 2.8 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 4 | 2.8 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 4 | 2.8 |
| (1,7024) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 4 | 2.8 |
| (1,7024) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 4 | 2.8 |
| (1,7024) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 4 | 2.8 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 5 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 5 | 2.8 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 18 | 2.8 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 15 | 2.8 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 1 | 2.8 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 1 | 2.8 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 1 | 2.8 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 13 | 2.8 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 13 | 2.8 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 4 | 2.8 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 15 | 2.8 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 1 | 2.8 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 5 | 2.8 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 16 | 2.8 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 12 | 2.8 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 9 | 2.8 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 9 | 2.8 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 13 | 2.8 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 13 | 2.8 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 16 | 2.8 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 16 | 2.8 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 16 | 2.8 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 16 | 2.8 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 16 | 2.8 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 16 | 2.8 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 16 | 2.8 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 16 | 2.8 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 16 | 2.8 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 13 | 2.8 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 4 | 2.8 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 4 | 2.8 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 4 | 2.8 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 5 | 2.8 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 12 | 2.8 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 12 | 2.8 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 12 | 2.8 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 12 | 2.8 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 12 | 2.8 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 12 | 2.8 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 3 | 2.8 |
| (1,6335) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 3 | 2.8 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 10 | 2.8 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 10 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 10 | 2.8 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 19 | 2.8 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 4 | 2.8 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 4 | 2.8 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 4 | 2.8 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 15 | 2.8 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 15 | 2.8 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 12 | 2.8 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 15 | 2.8 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 15 | 2.8 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 15 | 2.8 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 2 | 2.8 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 8 | 2.8 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 8 | 2.8 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 8 | 2.8 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 18 | 2.8 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 18 | 2.8 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 18 | 2.8 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 4 | 2.8 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 4 | 2.8 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 14 | 2.8 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 4 | 2.8 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 4 | 2.8 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 19 | 2.8 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 12 | 2.8 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 10 | 2.8 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 8 | 2.8 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 8 | 2.8 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 8 | 2.8 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 2 | 2.8 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 8 | 2.8 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 14 | 2.8 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 15 | 2.8 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 10 | 2.8 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 3 | 2.8 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 3 | 2.8 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 3 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 15 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 15 | 2.8 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 15 | 2.8 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 4 | 2.8 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 3 | 2.8 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 3 | 2.8 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 3 | 2.8 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 1 | 2.8 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 4 | 2.8 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 12 | 2.8 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 6 | 2.8 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 3 | 2.8 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 14 | 2.8 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 2 | 2.8 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 7 | 2.8 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 7 | 2.8 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 7 | 2.8 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 17 | 2.8 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 3 | 2.8 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 14 | 2.8 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 3 | 2.8 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 17 | 2.8 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 8 | 2.8 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 4 | 2.8 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 10 | 2.8 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 11 | 2.8 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 11 | 2.8 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 11 | 2.8 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 19 | 2.8 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 1 | 2.8 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 3 | 2.8 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 15 | 2.8 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 15 | 2.8 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 1 | 2.8 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 14 | 2.8 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 14 | 2.8 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 8 | 2.8 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 8 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 1 | 2.8 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 2 | 2.8 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 2 | 2.8 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 20 | 2.8 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 20 | 2.8 |
| (1,4566) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 18 | 2.8 |
| (1,4566) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 18 | 2.8 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 4 | 2.8 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 4 | 2.8 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 4 | 2.8 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 3 | 2.8 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 6 | 2.8 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 6 | 2.8 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 8 | 2.8 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 8 | 2.8 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 3 | 2.8 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 3 | 2.8 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 9 | 2.8 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 9 | 2.8 |
| (1,4479) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 9 | 2.8 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 7 | 2.8 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 7 | 2.8 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 7 | 2.8 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 7 | 2.8 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 7 | 2.8 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 7 | 2.8 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 3 | 2.8 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 3 | 2.8 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 3 | 2.8 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 3 | 2.8 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 10 | 2.8 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 15 | 2.8 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 15 | 2.8 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 17 | 2.8 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 17 | 2.8 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 10 | 2.8 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 10 | 2.8 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 12 | 2.8 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 12 | 2.8 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 13 | 2.8 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 13 | 2.8 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 18 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 18 | 2.8 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 7 | 2.8 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 7 | 2.8 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 7 | 2.8 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 7 | 2.8 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 3 | 2.8 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 3 | 2.8 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 8 | 2.8 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 8 | 2.8 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 8 | 2.8 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 8 | 2.8 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 8 | 2.8 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 8 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 18 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 18 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 18 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 18 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 18 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 18 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 20 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 20 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 20 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 20 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 20 | 2.8 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 20 | 2.8 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 6 | 2.8 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 6 | 2.8 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 6 | 2.8 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 6 | 2.8 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 6 | 2.8 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 6 | 2.8 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 9 | 2.8 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 9 | 2.8 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 9 | 2.8 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 9 | 2.8 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 9 | 2.8 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 9 | 2.8 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 14 | 2.8 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 10 | 2.8 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 10 | 2.8 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 4 | 2.8 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 4 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 4 | 2.8 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 2.8 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 2.8 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 2.8 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 10 | 2.8 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 10 | 2.8 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 16 | 2.8 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 4 | 2.8 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 4 | 2.8 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 8 | 2.8 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 3 | 2.8 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 17 | 2.8 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 8 | 2.8 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 5 | 2.8 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 13 | 2.8 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 3 | 2.8 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 3 | 2.8 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 1 | 2.8 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 1 | 2.8 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 17 | 2.8 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 17 | 2.8 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 4 | 2.8 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 4 | 2.8 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 9 | 2.8 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 9 | 2.8 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 12 | 2.8 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 12 | 2.8 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 9 | 2.8 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 9 | 2.8 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 7 | 2.8 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 7 | 2.8 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 18 | 2.8 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 5 | 2.8 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 5 | 2.8 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 6 | 2.8 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 6 | 2.8 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 16 | 2.8 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 16 | 2.8 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 16 | 2.8 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 16 | 2.8 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 16 | 2.8 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 16 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 7 | 2.8 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 7 | 2.8 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 7 | 2.8 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 1 | 2.8 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 17 | 2.8 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 19 | 2.8 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 14 | 2.8 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 8 | 2.8 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 8 | 2.8 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 5 | 2.8 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 11 | 2.8 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 18 | 2.8 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 19 | 2.8 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 12 | 2.8 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 1 | 2.8 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 9 | 2.8 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 14 | 2.8 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 1 | 2.8 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 1 | 2.8 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 1 | 2.8 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 1 | 2.8 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 1 | 2.8 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 1 | 2.8 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 5 | 2.8 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 5 | 2.8 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 5 | 2.8 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 12 | 2.8 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 17 | 2.8 |
| (1,3090) | 1:38:A:SER:HA | 1:38:A:SER:HB3 | 7 | 2.8 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 4 | 2.8 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 11 | 2.8 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 16 | 2.8 |
| (1,3074) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 4 | 2.8 |
| (1,3074) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 4 | 2.8 |
| (1,3074) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 4 | 2.8 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 5 | 2.8 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 5 | 2.8 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 6 | 2.8 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 6 | 2.8 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 12 | 2.8 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 12 | 2.8 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 18 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 15 | 2.8 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 1 | 2.8 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 1 | 2.8 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 1 | 2.8 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 17 | 2.8 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 13 | 2.8 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 16 | 2.8 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 18 | 2.8 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 13 | 2.8 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 4 | 2.8 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 9 | 2.8 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 15 | 2.8 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 1 | 2.8 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 5 | 2.8 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 16 | 2.8 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 12 | 2.8 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 9 | 2.8 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 9 | 2.8 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 13 | 2.8 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 13 | 2.8 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 12 | 2.8 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 12 | 2.8 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 18 | 2.8 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 18 | 2.8 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 20 | 2.8 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 5 | 2.8 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 5 | 2.8 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 5 | 2.8 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 15 | 2.8 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 16 | 2.8 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 16 | 2.8 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 16 | 2.8 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 13 | 2.8 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 4 | 2.8 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 4 | 2.8 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 4 | 2.8 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 14 | 2.8 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 13 | 2.8 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 7 | 2.8 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 9 | 2.8 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 12 | 2.8 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 20 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 4 | 2.8 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 12 | 2.8 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 1 | 2.8 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 8 | 2.8 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 1 | 2.8 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 20 | 2.8 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 20 | 2.8 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 20 | 2.8 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 5 | 2.8 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 12 | 2.8 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 12 | 2.8 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 12 | 2.8 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 12 | 2.8 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 12 | 2.8 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 12 | 2.8 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 3 | 2.8 |
| (1,2012) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 3 | 2.8 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 10 | 2.8 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 10 | 2.8 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 10 | 2.8 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 16 | 2.8 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 19 | 2.8 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 4 | 2.8 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 4 | 2.8 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 4 | 2.8 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 18 | 2.8 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 18 | 2.8 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 18 | 2.8 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 18 | 2.8 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 18 | 2.8 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 18 | 2.8 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 18 | 2.8 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 18 | 2.8 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 18 | 2.8 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 9 | 2.8 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 11 | 2.8 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 12 | 2.8 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 3 | 2.8 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 15 | 2.8 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 15 | 2.8 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 12 | 2.8 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 15 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 15 | 2.8 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 15 | 2.8 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 2 | 2.8 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 8 | 2.8 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 8 | 2.8 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 8 | 2.8 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 18 | 2.8 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 18 | 2.8 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 18 | 2.8 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 11 | 2.8 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 13 | 2.8 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 20 | 2.8 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 18 | 2.8 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 16 | 2.8 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 16 | 2.8 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 4 | 2.8 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 4 | 2.8 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 11 | 2.8 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 5 | 2.8 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 14 | 2.8 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 12 | 2.8 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 20 | 2.8 |
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 2 | 2.8 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 1 | 2.8 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 16 | 2.8 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 16 | 2.8 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 16 | 2.8 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 14 | 2.8 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 19 | 2.8 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 9 | 2.8 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 20 | 2.8 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 3 | 2.8 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 12 | 2.8 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 10 | 2.8 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 10 | 2.8 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 12 | 2.8 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 16 | 2.8 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 1 | 2.8 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 13 | 2.8 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 6 | 2.8 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 10 | 2.8 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 13 | 2.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 8 | 2.8 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 8 | 2.8 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 8 | 2.8 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 6 | 2.8 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 2 | 2.8 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 2 | 2.8 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 4 | 2.8 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 18 | 2.8 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 7 | 2.8 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 13 | 2.8 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 14 | 2.8 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 15 | 2.8 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 9 | 2.8 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 20 | 2.8 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 10 | 2.8 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 3 | 2.8 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 9 | 2.8 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 13 | 2.8 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 8 | 2.8 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 8 | 2.8 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 8 | 2.8 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 12 | 2.8 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 14 | 2.8 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 8 | 2.8 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 8 | 2.8 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 8 | 2.8 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 10 | 2.8 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 14 | 2.8 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 9 | 2.8 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 20 | 2.8 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 20 | 2.8 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 16 | 2.8 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 16 | 2.8 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 16 | 2.8 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 1 | 2.8 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 20 | 2.8 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 16 | 2.8 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 16 | 2.8 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 16 | 2.8 |
| (4,102) | 1:15:A:MET:CB | 1:163:A:GLU:H | 14 | 2.79 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 2 | 2.79 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 1 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9620) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 1 | 2.79 |
| (1,9620) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 1 | 2.79 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 8 | 2.79 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 8 | 2.79 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 6 | 2.79 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 6 | 2.79 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 6 | 2.79 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 6 | 2.79 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 6 | 2.79 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 6 | 2.79 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 12 | 2.79 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 12 | 2.79 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 3 | 2.79 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 3 | 2.79 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 3 | 2.79 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 3 | 2.79 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 3 | 2.79 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 3 | 2.79 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 10 | 2.79 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 10 | 2.79 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE21 | 4 | 2.79 |
| (1,9437) | 1:129:A:GLN:HA | 1:129:A:GLN:HE22 | 4 | 2.79 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 10 | 2.79 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 10 | 2.79 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 19 | 2.79 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 19 | 2.79 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 19 | 2.79 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 19 | 2.79 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 2 | 2.79 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 2 | 2.79 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 6 | 2.79 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 6 | 2.79 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 17 | 2.79 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 17 | 2.79 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 4 | 2.79 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 4 | 2.79 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 4 | 2.79 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 4 | 2.79 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 4 | 2.79 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 4 | 2.79 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 12 | 2.79 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 12 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 2 | 2.79 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 2 | 2.79 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 4 | 2.79 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 4 | 2.79 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 2.79 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 2.79 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 3 | 2.79 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 3 | 2.79 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 1 | 2.79 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 1 | 2.79 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 1 | 2.79 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 1 | 2.79 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 17 | 2.79 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 17 | 2.79 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 17 | 2.79 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 17 | 2.79 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 17 | 2.79 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 17 | 2.79 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 15 | 2.79 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 15 | 2.79 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 19 | 2.79 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 19 | 2.79 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 19 | 2.79 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 19 | 2.79 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 19 | 2.79 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 19 | 2.79 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 16 | 2.79 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 16 | 2.79 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 2.79 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 2.79 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 2.79 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 2.79 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 2.79 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 2.79 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 14 | 2.79 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 14 | 2.79 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 7 | 2.79 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 7 | 2.79 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 1 | 2.79 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 1 | 2.79 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 1 | 2.79 |
| (1,8718) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 1 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 1 | 2.79 |
| (1,8718) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 1 | 2.79 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 14 | 2.79 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 14 | 2.79 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 20 | 2.79 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 20 | 2.79 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 20 | 2.79 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 20 | 2.79 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 20 | 2.79 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 20 | 2.79 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 11 | 2.79 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 11 | 2.79 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 16 | 2.79 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 16 | 2.79 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG21 | 14 | 2.79 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG22 | 14 | 2.79 |
| (1,8453) | 1:147:A:SER:H | 1:159:A:ILE:HG23 | 14 | 2.79 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 9 | 2.79 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 9 | 2.79 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 9 | 2.79 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 2 | 2.79 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 2 | 2.79 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 2 | 2.79 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 13 | 2.79 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 2 | 2.79 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 14 | 2.79 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 14 | 2.79 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 14 | 2.79 |
| (1,7883) | 1:65:A:SER:H | 1:81:A:THR:H | 16 | 2.79 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 11 | 2.79 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 11 | 2.79 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 11 | 2.79 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 11 | 2.79 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 11 | 2.79 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 11 | 2.79 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 11 | 2.79 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 11 | 2.79 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 11 | 2.79 |
| (1,7785) | 1:57:A:CYS:H | 1:125:A:PHE:H | 1 | 2.79 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 13 | 2.79 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 13 | 2.79 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 13 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 13 | 2.79 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 13 | 2.79 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 13 | 2.79 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 1 | 2.79 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 1 | 2.79 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 11 | 2.79 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 13 | 2.79 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 9 | 2.79 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 6 | 2.79 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 6 | 2.79 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 6 | 2.79 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 17 | 2.79 |
| (1,7240) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 3 | 2.79 |
| (1,7240) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 3 | 2.79 |
| (1,7240) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 3 | 2.79 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 19 | 2.79 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 14 | 2.79 |
| (1,7209) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 15 | 2.79 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 1 | 2.79 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 8 | 2.79 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 8 | 2.79 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 14 | 2.79 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 14 | 2.79 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 14 | 2.79 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 20 | 2.79 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 2 | 2.79 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 2 | 2.79 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 15 | 2.79 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 13 | 2.79 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 16 | 2.79 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 16 | 2.79 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 16 | 2.79 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 10 | 2.79 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 15 | 2.79 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 13 | 2.79 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 13 | 2.79 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 13 | 2.79 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 6 | 2.79 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 19 | 2.79 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 19 | 2.79 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 19 | 2.79 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 18 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 13 | 2.79 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 15 | 2.79 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 7 | 2.79 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 1 | 2.79 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 1 | 2.79 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 1 | 2.79 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 1 | 2.79 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 19 | 2.79 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 19 | 2.79 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 19 | 2.79 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 3 | 2.79 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 3 | 2.79 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 3 | 2.79 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 12 | 2.79 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 12 | 2.79 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 12 | 2.79 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 12 | 2.79 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 12 | 2.79 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 12 | 2.79 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 18 | 2.79 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 18 | 2.79 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 13 | 2.79 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 2 | 2.79 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 18 | 2.79 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 5 | 2.79 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 1 | 2.79 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 1 | 2.79 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 1 | 2.79 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 13 | 2.79 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 1 | 2.79 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 13 | 2.79 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 13 | 2.79 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 11 | 2.79 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 6 | 2.79 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 13 | 2.79 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 13 | 2.79 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 13 | 2.79 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 4 | 2.79 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 10 | 2.79 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 20 | 2.79 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 10 | 2.79 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 16 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 8 | 2.79 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 20 | 2.79 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 12 | 2.79 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 12 | 2.79 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 12 | 2.79 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 12 | 2.79 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 12 | 2.79 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 12 | 2.79 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 12 | 2.79 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 12 | 2.79 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 12 | 2.79 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 16 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 3 | 2.79 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 3 | 2.79 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 19 | 2.79 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 19 | 2.79 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 19 | 2.79 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 5 | 2.79 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 3 | 2.79 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 3 | 2.79 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 3 | 2.79 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 3 | 2.79 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 3 | 2.79 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 3 | 2.79 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 3 | 2.79 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 3 | 2.79 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 3 | 2.79 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 13 | 2.79 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 6 | 2.79 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 6 | 2.79 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 17 | 2.79 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 12 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 12 | 2.79 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 12 | 2.79 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 7 | 2.79 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 8 | 2.79 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 14 | 2.79 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 9 | 2.79 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 9 | 2.79 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 9 | 2.79 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 20 | 2.79 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 20 | 2.79 |
| (1,5073) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 20 | 2.79 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 9 | 2.79 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 6 | 2.79 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 12 | 2.79 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 13 | 2.79 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 20 | 2.79 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 3 | 2.79 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 16 | 2.79 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 16 | 2.79 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 16 | 2.79 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 16 | 2.79 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 16 | 2.79 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 16 | 2.79 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 16 | 2.79 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 16 | 2.79 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 16 | 2.79 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 6 | 2.79 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 6 | 2.79 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 6 | 2.79 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 6 | 2.79 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 6 | 2.79 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 6 | 2.79 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 6 | 2.79 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 6 | 2.79 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 6 | 2.79 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 3 | 2.79 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 3 | 2.79 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 3 | 2.79 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 11 | 2.79 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 11 | 2.79 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 11 | 2.79 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 17 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 17 | 2.79 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 17 | 2.79 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 2 | 2.79 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 4 | 2.79 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 4 | 2.79 |
| (1,4727) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 4 | 2.79 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 20 | 2.79 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 15 | 2.79 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 15 | 2.79 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 15 | 2.79 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 14 | 2.79 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 6 | 2.79 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 6 | 2.79 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 6 | 2.79 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 6 | 2.79 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 6 | 2.79 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 6 | 2.79 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 16 | 2.79 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 16 | 2.79 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 16 | 2.79 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 16 | 2.79 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 16 | 2.79 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 16 | 2.79 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 3 | 2.79 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 3 | 2.79 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 3 | 2.79 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 3 | 2.79 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 3 | 2.79 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 3 | 2.79 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 10 | 2.79 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 10 | 2.79 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 10 | 2.79 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 10 | 2.79 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 10 | 2.79 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 10 | 2.79 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 10 | 2.79 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 10 | 2.79 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 10 | 2.79 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 10 | 2.79 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 10 | 2.79 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 10 | 2.79 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 4 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 4 | 2.79 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 4 | 2.79 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 4 | 2.79 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 4 | 2.79 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 4 | 2.79 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 10 | 2.79 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 10 | 2.79 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 19 | 2.79 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 19 | 2.79 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 19 | 2.79 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 19 | 2.79 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 2 | 2.79 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 2 | 2.79 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 5 | 2.79 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 6 | 2.79 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 6 | 2.79 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 17 | 2.79 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 17 | 2.79 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 7 | 2.79 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 12 | 2.79 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 12 | 2.79 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 2 | 2.79 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 2 | 2.79 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 4 | 2.79 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 4 | 2.79 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 2.79 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 2.79 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 6 | 2.79 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 7 | 2.79 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 7 | 2.79 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 7 | 2.79 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 7 | 2.79 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 17 | 2.79 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 17 | 2.79 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 17 | 2.79 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 17 | 2.79 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 17 | 2.79 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 17 | 2.79 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 13 | 2.79 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 13 | 2.79 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 14 | 2.79 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 14 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 14 | 2.79 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 14 | 2.79 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 14 | 2.79 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 14 | 2.79 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 4 | 2.79 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 9 | 2.79 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 9 | 2.79 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 9 | 2.79 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 13 | 2.79 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 13 | 2.79 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 13 | 2.79 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 13 | 2.79 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 13 | 2.79 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 13 | 2.79 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 3 | 2.79 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 3 | 2.79 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 3 | 2.79 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 14 | 2.79 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 14 | 2.79 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 14 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 3 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 3 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 3 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 3 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 3 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 3 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 9 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 9 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 9 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 9 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 9 | 2.79 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 9 | 2.79 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 15 | 2.79 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 15 | 2.79 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 11 | 2.79 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 4 | 2.79 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 4 | 2.79 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 19 | 2.79 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 19 | 2.79 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 19 | 2.79 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 19 | 2.79 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 19 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 19 | 2.79 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 19 | 2.79 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 16 | 2.79 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 2 | 2.79 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 2 | 2.79 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 2 | 2.79 |
| (1,3814) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 9 | 2.79 |
| (1,3814) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 9 | 2.79 |
| (1,3814) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 9 | 2.79 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 2.79 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 2.79 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 2.79 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 2.79 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 2.79 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 2.79 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 15 | 2.79 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 15 | 2.79 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 7 | 2.79 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 7 | 2.79 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 12 | 2.79 |
| (1,3695) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 12 | 2.79 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 5 | 2.79 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 5 | 2.79 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 5 | 2.79 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 7 | 2.79 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 7 | 2.79 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 5 | 2.79 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 5 | 2.79 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 20 | 2.79 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 20 | 2.79 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 20 | 2.79 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 20 | 2.79 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 20 | 2.79 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 20 | 2.79 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 11 | 2.79 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 11 | 2.79 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 8 | 2.79 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 8 | 2.79 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 8 | 2.79 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 6 | 2.79 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 6 | 2.79 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 16 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 16 | 2.79 |
| (1,3438) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 3 | 2.79 |
| (1,3438) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 3 | 2.79 |
| (1,3438) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 3 | 2.79 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 19 | 2.79 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 13 | 2.79 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 13 | 2.79 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 1 | 2.79 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 1 | 2.79 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 1 | 2.79 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 2 | 2.79 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 2.79 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 2.79 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 2.79 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 15 | 2.79 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 15 | 2.79 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 20 | 2.79 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 1 | 2.79 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 19 | 2.79 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 19 | 2.79 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 19 | 2.79 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 19 | 2.79 |
| (1,3156) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 7 | 2.79 |
| (1,3156) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 7 | 2.79 |
| (1,3156) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 7 | 2.79 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 16 | 2.79 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 8 | 2.79 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 8 | 2.79 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 14 | 2.79 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 14 | 2.79 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 14 | 2.79 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 3 | 2.79 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 15 | 2.79 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 13 | 2.79 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 16 | 2.79 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 16 | 2.79 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 16 | 2.79 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 3 | 2.79 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 11 | 2.79 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 9 | 2.79 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 9 | 2.79 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 9 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 10 | 2.79 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 15 | 2.79 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 13 | 2.79 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 13 | 2.79 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 16 | 2.79 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 16 | 2.79 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 16 | 2.79 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 16 | 2.79 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 16 | 2.79 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 16 | 2.79 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 8 | 2.79 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 12 | 2.79 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 10 | 2.79 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 13 | 2.79 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 19 | 2.79 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 19 | 2.79 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 19 | 2.79 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 18 | 2.79 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 4 | 2.79 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 20 | 2.79 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 3 | 2.79 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 13 | 2.79 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 15 | 2.79 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 16 | 2.79 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 7 | 2.79 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 1 | 2.79 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 1 | 2.79 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 1 | 2.79 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 7 | 2.79 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 15 | 2.79 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 5 | 2.79 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 11 | 2.79 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 6 | 2.79 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 6 | 2.79 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 6 | 2.79 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 1 | 2.79 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 19 | 2.79 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 19 | 2.79 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 19 | 2.79 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 3 | 2.79 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 3 | 2.79 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 3 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 12 | 2.79 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 12 | 2.79 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 12 | 2.79 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 12 | 2.79 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 12 | 2.79 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 12 | 2.79 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 15 | 2.79 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 15 | 2.79 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 15 | 2.79 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 15 | 2.79 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 20 | 2.79 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 13 | 2.79 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 7 | 2.79 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 18 | 2.79 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 14 | 2.79 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 18 | 2.79 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 13 | 2.79 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 2 | 2.79 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 18 | 2.79 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 10 | 2.79 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 16 | 2.79 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 14 | 2.79 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 20 | 2.79 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 5 | 2.79 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 6 | 2.79 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 1 | 2.79 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 1 | 2.79 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 1 | 2.79 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 9 | 2.79 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 8 | 2.79 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 2 | 2.79 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 2 | 2.79 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 2 | 2.79 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 17 | 2.79 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 17 | 2.79 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 17 | 2.79 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 2 | 2.79 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 2 | 2.79 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 13 | 2.79 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 13 | 2.79 |
| (1,1406) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 3 | 2.79 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 4 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1394) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 5 | 2.79 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 18 | 2.79 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 18 | 2.79 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 18 | 2.79 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 13 | 2.79 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 13 | 2.79 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 11 | 2.79 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 11 | 2.79 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 11 | 2.79 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 11 | 2.79 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 11 | 2.79 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 11 | 2.79 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 14 | 2.79 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 11 | 2.79 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 6 | 2.79 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 11 | 2.79 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 13 | 2.79 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 13 | 2.79 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 13 | 2.79 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 13 | 2.79 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 4 | 2.79 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 10 | 2.79 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 20 | 2.79 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 10 | 2.79 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 13 | 2.79 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 17 | 2.79 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 4 | 2.79 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 4 | 2.79 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 4 | 2.79 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 3 | 2.79 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 8 | 2.79 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 15 | 2.79 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 20 | 2.79 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 16 | 2.79 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 18 | 2.79 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 16 | 2.79 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 20 | 2.79 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 8 | 2.79 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 2 | 2.79 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 17 | 2.79 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 18 | 2.79 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 11 | 2.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 16 | 2.79 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 1 | 2.79 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 1 | 2.79 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 1 | 2.79 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 7 | 2.79 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 7 | 2.79 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 7 | 2.79 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 4 | 2.79 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 4 | 2.79 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 4 | 2.79 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 2 | 2.79 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 18 | 2.79 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 18 | 2.79 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 3 | 2.79 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 12 | 2.79 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 18 | 2.79 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 3 | 2.79 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 3 | 2.79 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 3 | 2.79 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 11 | 2.79 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 4 | 2.78 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 8 | 2.78 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 14 | 2.78 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 14 | 2.78 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 8 | 2.78 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 8 | 2.78 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 8 | 2.78 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 8 | 2.78 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 8 | 2.78 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 8 | 2.78 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 2.78 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 2.78 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 7 | 2.78 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 7 | 2.78 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 7 | 2.78 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 7 | 2.78 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 7 | 2.78 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 7 | 2.78 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 6 | 2.78 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 6 | 2.78 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 2 | 2.78 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 2 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 18 | 2.78 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 18 | 2.78 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 5 | 2.78 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 5 | 2.78 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 20 | 2.78 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 20 | 2.78 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 2 | 2.78 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 2 | 2.78 |
| (1,9348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 4 | 2.78 |
| (1,9348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 4 | 2.78 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 5 | 2.78 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 5 | 2.78 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 5 | 2.78 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 5 | 2.78 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 3 | 2.78 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 3 | 2.78 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 15 | 2.78 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 15 | 2.78 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 15 | 2.78 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 15 | 2.78 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 15 | 2.78 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 15 | 2.78 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 4 | 2.78 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 4 | 2.78 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 5 | 2.78 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 5 | 2.78 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 18 | 2.78 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 18 | 2.78 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 5 | 2.78 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 5 | 2.78 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 11 | 2.78 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 11 | 2.78 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 11 | 2.78 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 11 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 18 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 18 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 18 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 18 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 18 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 18 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 20 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 20 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 20 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 20 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 20 | 2.78 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 20 | 2.78 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 6 | 2.78 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 6 | 2.78 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 14 | 2.78 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 14 | 2.78 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 2 | 2.78 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 2 | 2.78 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 2 | 2.78 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 2 | 2.78 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 2 | 2.78 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 2 | 2.78 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG2 | 18 | 2.78 |
| (1,8966) | 1:74:A:ARG:H | 1:75:A:GLN:HG3 | 18 | 2.78 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 6 | 2.78 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 6 | 2.78 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 3 | 2.78 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 3 | 2.78 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 1 | 2.78 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 1 | 2.78 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 5 | 2.78 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 5 | 2.78 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 11 | 2.78 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 11 | 2.78 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 9 | 2.78 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 9 | 2.78 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 15 | 2.78 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 15 | 2.78 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 1 | 2.78 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 15 | 2.78 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 16 | 2.78 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 19 | 2.78 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 16 | 2.78 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 5 | 2.78 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 5 | 2.78 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 5 | 2.78 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 5 | 2.78 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 5 | 2.78 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 5 | 2.78 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 5 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 5 | 2.78 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 5 | 2.78 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 13 | 2.78 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 13 | 2.78 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 13 | 2.78 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 13 | 2.78 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 13 | 2.78 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 13 | 2.78 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 3 | 2.78 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 18 | 2.78 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 1 | 2.78 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 1 | 2.78 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 8 | 2.78 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 11 | 2.78 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 11 | 2.78 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 3 | 2.78 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 13 | 2.78 |
| (1,7062) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 15 | 2.78 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 2 | 2.78 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 9 | 2.78 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 9 | 2.78 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 11 | 2.78 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 10 | 2.78 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 2 | 2.78 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 13 | 2.78 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 13 | 2.78 |
| (1,6836) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 13 | 2.78 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 16 | 2.78 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 6 | 2.78 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 4 | 2.78 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 17 | 2.78 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 17 | 2.78 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 17 | 2.78 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 17 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 18 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 18 | 2.78 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 18 | 2.78 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 5 | 2.78 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 1 | 2.78 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 17 | 2.78 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 5 | 2.78 |
| (1,6619) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 3 | 2.78 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 7 | 2.78 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 4 | 2.78 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 20 | 2.78 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 7 | 2.78 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 14 | 2.78 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 14 | 2.78 |
| (1,6482) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 14 | 2.78 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 15 | 2.78 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 15 | 2.78 |
| (1,6421) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 15 | 2.78 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 7 | 2.78 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 14 | 2.78 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 1 | 2.78 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 1 | 2.78 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 1 | 2.78 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 6 | 2.78 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 19 | 2.78 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 8 | 2.78 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 1 | 2.78 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 12 | 2.78 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 12 | 2.78 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 12 | 2.78 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 18 | 2.78 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 12 | 2.78 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 12 | 2.78 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 12 | 2.78 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 8 | 2.78 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 4 | 2.78 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 5 | 2.78 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 14 | 2.78 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 11 | 2.78 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 3 | 2.78 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 3 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 3 | 2.78 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 17 | 2.78 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 17 | 2.78 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 17 | 2.78 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 7 | 2.78 |
| (1,5664) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 5 | 2.78 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 10 | 2.78 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 2 | 2.78 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 11 | 2.78 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 17 | 2.78 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 11 | 2.78 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 6 | 2.78 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 3 | 2.78 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 13 | 2.78 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 17 | 2.78 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 3 | 2.78 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 3 | 2.78 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 3 | 2.78 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 14 | 2.78 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 14 | 2.78 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 14 | 2.78 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 5 | 2.78 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 5 | 2.78 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 5 | 2.78 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 3 | 2.78 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 14 | 2.78 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 14 | 2.78 |
| (1,5210) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 14 | 2.78 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 5 | 2.78 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 10 | 2.78 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 18 | 2.78 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 18 | 2.78 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 18 | 2.78 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 7 | 2.78 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 8 | 2.78 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 9 | 2.78 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 14 | 2.78 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 4 | 2.78 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 17 | 2.78 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 11 | 2.78 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 11 | 2.78 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 2 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4849) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 10 | 2.78 |
| (1,4849) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 10 | 2.78 |
| (1,4849) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 10 | 2.78 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 8 | 2.78 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 8 | 2.78 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 8 | 2.78 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 8 | 2.78 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 8 | 2.78 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 8 | 2.78 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 8 | 2.78 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 8 | 2.78 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 8 | 2.78 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 4 | 2.78 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 4 | 2.78 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 4 | 2.78 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 4 | 2.78 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 4 | 2.78 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 4 | 2.78 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 4 | 2.78 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 4 | 2.78 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 4 | 2.78 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 11 | 2.78 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 15 | 2.78 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 5 | 2.78 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 1 | 2.78 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 1 | 2.78 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 15 | 2.78 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 14 | 2.78 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 14 | 2.78 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 8 | 2.78 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 8 | 2.78 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 8 | 2.78 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 8 | 2.78 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 8 | 2.78 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 8 | 2.78 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 6 | 2.78 |
| (1,4579) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 6 | 2.78 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 2 | 2.78 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 15 | 2.78 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 15 | 2.78 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 2.78 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 7 | 2.78 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 7 | 2.78 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 7 | 2.78 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 7 | 2.78 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 7 | 2.78 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 7 | 2.78 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 2 | 2.78 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 2 | 2.78 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 20 | 2.78 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 20 | 2.78 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 18 | 2.78 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 18 | 2.78 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 2 | 2.78 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 2 | 2.78 |
| (1,4348) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 4 | 2.78 |
| (1,4348) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 4 | 2.78 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 17 | 2.78 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 17 | 2.78 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 3 | 2.78 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 3 | 2.78 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 15 | 2.78 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 15 | 2.78 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 15 | 2.78 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 15 | 2.78 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 15 | 2.78 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 15 | 2.78 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 5 | 2.78 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 5 | 2.78 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 19 | 2.78 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 11 | 2.78 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 11 | 2.78 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 6 | 2.78 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 6 | 2.78 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 6 | 2.78 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 6 | 2.78 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 6 | 2.78 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 6 | 2.78 |
| (1,4121) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 2.78 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 14 | 2.78 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 14 | 2.78 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 14 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 18 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 18 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 18 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 18 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 18 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 18 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 20 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 20 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 20 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 20 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 20 | 2.78 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 20 | 2.78 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 6 | 2.78 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 6 | 2.78 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 14 | 2.78 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 14 | 2.78 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 2 | 2.78 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 2 | 2.78 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 2 | 2.78 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 2 | 2.78 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 2 | 2.78 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 2 | 2.78 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 5 | 2.78 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 5 | 2.78 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 20 | 2.78 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 20 | 2.78 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 20 | 2.78 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 20 | 2.78 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 20 | 2.78 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 20 | 2.78 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 3 | 2.78 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 3 | 2.78 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 3 | 2.78 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 10 | 2.78 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 17 | 2.78 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 17 | 2.78 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 17 | 2.78 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 17 | 2.78 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 1 | 2.78 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 1 | 2.78 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 15 | 2.78 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 15 | 2.78 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 15 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 2 | 2.78 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 2 | 2.78 |
| (1,3716) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 13 | 2.78 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 11 | 2.78 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 11 | 2.78 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 17 | 2.78 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 17 | 2.78 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 16 | 2.78 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 16 | 2.78 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 20 | 2.78 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 20 | 2.78 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 4 | 2.78 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 4 | 2.78 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 18 | 2.78 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 18 | 2.78 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 8 | 2.78 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 8 | 2.78 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 15 | 2.78 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 15 | 2.78 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 7 | 2.78 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 9 | 2.78 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 9 | 2.78 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 3 | 2.78 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 12 | 2.78 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 12 | 2.78 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 19 | 2.78 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 14 | 2.78 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 11 | 2.78 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 5 | 2.78 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 12 | 2.78 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 8 | 2.78 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 8 | 2.78 |
| (1,3153) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 8 | 2.78 |
| (1,3110) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 15 | 2.78 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 2 | 2.78 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 13 | 2.78 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 13 | 2.78 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 13 | 2.78 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 19 | 2.78 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 10 | 2.78 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 18 | 2.78 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 18 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 10 | 2.78 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 10 | 2.78 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 11 | 2.78 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 6 | 2.78 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 10 | 2.78 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 20 | 2.78 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 20 | 2.78 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 20 | 2.78 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 20 | 2.78 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 2 | 2.78 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 10 | 2.78 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 16 | 2.78 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 13 | 2.78 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 13 | 2.78 |
| (1,2820) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 13 | 2.78 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 16 | 2.78 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 6 | 2.78 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 4 | 2.78 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 7 | 2.78 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 9 | 2.78 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 9 | 2.78 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 5 | 2.78 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 18 | 2.78 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 18 | 2.78 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 18 | 2.78 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 3 | 2.78 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 7 | 2.78 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 17 | 2.78 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 7 | 2.78 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 17 | 2.78 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 2.78 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 17 | 2.78 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 5 | 2.78 |
| (1,2476) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 3 | 2.78 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 7 | 2.78 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 4 | 2.78 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 1 | 2.78 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 14 | 2.78 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 20 | 2.78 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 6 | 2.78 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 7 | 2.78 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 12 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB1 | 14 | 2.78 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB2 | 14 | 2.78 |
| (1,2266) | 1:2:A:ALA:H | 1:2:A:ALA:HB3 | 14 | 2.78 |
| (1,2230) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 14 | 2.78 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 3 | 2.78 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 3 | 2.78 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 3 | 2.78 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 15 | 2.78 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 15 | 2.78 |
| (1,2136) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 15 | 2.78 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 14 | 2.78 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 14 | 2.78 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 14 | 2.78 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 13 | 2.78 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 13 | 2.78 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 2 | 2.78 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 12 | 2.78 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 7 | 2.78 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 14 | 2.78 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 1 | 2.78 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 1 | 2.78 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 1 | 2.78 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 3 | 2.78 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 9 | 2.78 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 15 | 2.78 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 16 | 2.78 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 6 | 2.78 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 4 | 2.78 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 4 | 2.78 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 14 | 2.78 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 19 | 2.78 |
| (1,1780) | 1:142:A:ARG:H | 1:142:A:ARG:HA | 12 | 2.78 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 16 | 2.78 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 18 | 2.78 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 6 | 2.78 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 9 | 2.78 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 15 | 2.78 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 20 | 2.78 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 11 | 2.78 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 8 | 2.78 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 1 | 2.78 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 13 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 5 | 2.78 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 12 | 2.78 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 12 | 2.78 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 12 | 2.78 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 16 | 2.78 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 2 | 2.78 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 9 | 2.78 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 9 | 2.78 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 8 | 2.78 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 16 | 2.78 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 2 | 2.78 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 4 | 2.78 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 4 | 2.78 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 16 | 2.78 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 16 | 2.78 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 4 | 2.78 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 5 | 2.78 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 14 | 2.78 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 3 | 2.78 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 11 | 2.78 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 3 | 2.78 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 3 | 2.78 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 9 | 2.78 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 1 | 2.78 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 10 | 2.78 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 3 | 2.78 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 2 | 2.78 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 20 | 2.78 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 17 | 2.78 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 17 | 2.78 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 17 | 2.78 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 4 | 2.78 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 14 | 2.78 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 7 | 2.78 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 12 | 2.78 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 4 | 2.78 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 5 | 2.78 |
| (1,1024) | 1:108:A:SER:H | 1:108:A:SER:HA | 8 | 2.78 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 15 | 2.78 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 17 | 2.78 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 7 | 2.78 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 15 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,916) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 5 | 2.78 |
| (1,914) | 1:105:A:SER:H | 1:105:A:SER:HA | 11 | 2.78 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 19 | 2.78 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 14 | 2.78 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 16 | 2.78 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 13 | 2.78 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 10 | 2.78 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 2 | 2.78 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 11 | 2.78 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 16 | 2.78 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 16 | 2.78 |
| (1,794) | 1:101:A:GLU:H | 1:101:A:GLU:HA | 8 | 2.78 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 17 | 2.78 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 5 | 2.78 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 7 | 2.78 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 6 | 2.78 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 8 | 2.78 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 12 | 2.78 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 19 | 2.78 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 10 | 2.78 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 19 | 2.78 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 19 | 2.78 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 19 | 2.78 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 6 | 2.78 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 6 | 2.78 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 8 | 2.78 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 8 | 2.78 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 8 | 2.78 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 8 | 2.78 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 8 | 2.78 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 8 | 2.78 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 8 | 2.78 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 8 | 2.78 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 8 | 2.78 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 10 | 2.78 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 7 | 2.78 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 5 | 2.78 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 19 | 2.78 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 4 | 2.78 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 2 | 2.78 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 2 | 2.78 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 2 | 2.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 2 | 2.78 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 2 | 2.78 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 2 | 2.78 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 14 | 2.78 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 14 | 2.78 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 14 | 2.78 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 16 | 2.77 |
| (4,155) | 1:98:A:SER:CB | 1:15:A:MET:H | 20 | 2.77 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 16 | 2.77 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 9 | 2.77 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 9 | 2.77 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 6 | 2.77 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 6 | 2.77 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 9 | 2.77 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 9 | 2.77 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 10 | 2.77 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 10 | 2.77 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 1 | 2.77 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 1 | 2.77 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 10 | 2.77 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 10 | 2.77 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 10 | 2.77 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 10 | 2.77 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 7 | 2.77 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 7 | 2.77 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 7 | 2.77 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 7 | 2.77 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 7 | 2.77 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 7 | 2.77 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 8 | 2.77 |
| (1,9329) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 8 | 2.77 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 6 | 2.77 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 6 | 2.77 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 5 | 2.77 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 5 | 2.77 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 9 | 2.77 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 9 | 2.77 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 9 | 2.77 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 9 | 2.77 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 9 | 2.77 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 9 | 2.77 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 12 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 12 | 2.77 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 3 | 2.77 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 3 | 2.77 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 3 | 2.77 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 3 | 2.77 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 8 | 2.77 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 8 | 2.77 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 8 | 2.77 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 8 | 2.77 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 8 | 2.77 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 8 | 2.77 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 3 | 2.77 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 3 | 2.77 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 10 | 2.77 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 10 | 2.77 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 10 | 2.77 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 10 | 2.77 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 10 | 2.77 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 10 | 2.77 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 8 | 2.77 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 8 | 2.77 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 8 | 2.77 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 8 | 2.77 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 8 | 2.77 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 8 | 2.77 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 12 | 2.77 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 12 | 2.77 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 18 | 2.77 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 18 | 2.77 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 18 | 2.77 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 18 | 2.77 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 16 | 2.77 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 16 | 2.77 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 15 | 2.77 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 15 | 2.77 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 9 | 2.77 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 9 | 2.77 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 7 | 2.77 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 7 | 2.77 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 7 | 2.77 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 7 | 2.77 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 9 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 9 | 2.77 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 8 | 2.77 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 8 | 2.77 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 8 | 2.77 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 7 | 2.77 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 7 | 2.77 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 5 | 2.77 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 5 | 2.77 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 10 | 2.77 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 10 | 2.77 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 15 | 2.77 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 15 | 2.77 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 15 | 2.77 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 15 | 2.77 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 12 | 2.77 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 18 | 2.77 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 18 | 2.77 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 18 | 2.77 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 18 | 2.77 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 18 | 2.77 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 18 | 2.77 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 18 | 2.77 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 18 | 2.77 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 18 | 2.77 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 5 | 2.77 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 5 | 2.77 |
| (1,7456) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 15 | 2.77 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 16 | 2.77 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 14 | 2.77 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 14 | 2.77 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 1 | 2.77 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 4 | 2.77 |
| (1,7193) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 4 | 2.77 |
| (1,7135) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 15 | 2.77 |
| (1,7058) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 6 | 2.77 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 14 | 2.77 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 14 | 2.77 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 9 | 2.77 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 9 | 2.77 |
| (1,6934) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 18 | 2.77 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 6 | 2.77 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 6 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 6 | 2.77 |
| (1,6876) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 9 | 2.77 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 2 | 2.77 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 3 | 2.77 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 1 | 2.77 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 13 | 2.77 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 9 | 2.77 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 19 | 2.77 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 19 | 2.77 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 8 | 2.77 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 8 | 2.77 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 8 | 2.77 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 8 | 2.77 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 8 | 2.77 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 8 | 2.77 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 17 | 2.77 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 12 | 2.77 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 12 | 2.77 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 12 | 2.77 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 12 | 2.77 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 2 | 2.77 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 9 | 2.77 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 6 | 2.77 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 6 | 2.77 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 6 | 2.77 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 19 | 2.77 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 5 | 2.77 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 5 | 2.77 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 16 | 2.77 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 3 | 2.77 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 10 | 2.77 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 13 | 2.77 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 13 | 2.77 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 13 | 2.77 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 16 | 2.77 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 5 | 2.77 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 5 | 2.77 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 5 | 2.77 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 5 | 2.77 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 5 | 2.77 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 5 | 2.77 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 13 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 13 | 2.77 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 13 | 2.77 |
| (1,6507) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 8 | 2.77 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 4 | 2.77 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 18 | 2.77 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 18 | 2.77 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 18 | 2.77 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 18 | 2.77 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 18 | 2.77 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 18 | 2.77 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 18 | 2.77 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 18 | 2.77 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 18 | 2.77 |
| (1,6385) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 4 | 2.77 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 12 | 2.77 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 4 | 2.77 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 4 | 2.77 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 4 | 2.77 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 4 | 2.77 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 4 | 2.77 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 4 | 2.77 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 4 | 2.77 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 4 | 2.77 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 4 | 2.77 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 20 | 2.77 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 20 | 2.77 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 20 | 2.77 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 1 | 2.77 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 18 | 2.77 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 18 | 2.77 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 16 | 2.77 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 14 | 2.77 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 8 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 12 | 2.77 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 9 | 2.77 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 10 | 2.77 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 10 | 2.77 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 7 | 2.77 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 4 | 2.77 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 4 | 2.77 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 4 | 2.77 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 4 | 2.77 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 4 | 2.77 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 4 | 2.77 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 4 | 2.77 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 4 | 2.77 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 4 | 2.77 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 20 | 2.77 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 17 | 2.77 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 17 | 2.77 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 17 | 2.77 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 13 | 2.77 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 15 | 2.77 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 1 | 2.77 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 14 | 2.77 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 6 | 2.77 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 15 | 2.77 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 15 | 2.77 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 15 | 2.77 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 2 | 2.77 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 11 | 2.77 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 16 | 2.77 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 13 | 2.77 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 5 | 2.77 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 9 | 2.77 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 7 | 2.77 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 6 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 4 | 2.77 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 10 | 2.77 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 17 | 2.77 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 17 | 2.77 |
| (1,5425) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 17 | 2.77 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 12 | 2.77 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 12 | 2.77 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 12 | 2.77 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 18 | 2.77 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 18 | 2.77 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 18 | 2.77 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 4 | 2.77 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 9 | 2.77 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 3 | 2.77 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 3 | 2.77 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 3 | 2.77 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 12 | 2.77 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 2 | 2.77 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 3 | 2.77 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 4 | 2.77 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 19 | 2.77 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 20 | 2.77 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 20 | 2.77 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 20 | 2.77 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 5 | 2.77 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 1 | 2.77 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 19 | 2.77 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 9 | 2.77 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 4 | 2.77 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 15 | 2.77 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 8 | 2.77 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 8 | 2.77 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 8 | 2.77 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 11 | 2.77 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 11 | 2.77 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 11 | 2.77 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 6 | 2.77 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 6 | 2.77 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 6 | 2.77 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 6 | 2.77 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 6 | 2.77 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 6 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 5 | 2.77 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 5 | 2.77 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 19 | 2.77 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 19 | 2.77 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 5 | 2.77 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 5 | 2.77 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 1 | 2.77 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 1 | 2.77 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 9 | 2.77 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 9 | 2.77 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 19 | 2.77 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 19 | 2.77 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 19 | 2.77 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 9 | 2.77 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 9 | 2.77 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 15 | 2.77 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 15 | 2.77 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 15 | 2.77 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 10 | 2.77 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 10 | 2.77 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 7 | 2.77 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 7 | 2.77 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 4 | 2.77 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 4 | 2.77 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 8 | 2.77 |
| (1,4318) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 8 | 2.77 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 6 | 2.77 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 6 | 2.77 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 5 | 2.77 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 5 | 2.77 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 18 | 2.77 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 9 | 2.77 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 9 | 2.77 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 9 | 2.77 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 9 | 2.77 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 1 | 2.77 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 11 | 2.77 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 11 | 2.77 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 11 | 2.77 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 11 | 2.77 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 11 | 2.77 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 11 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 3 | 2.77 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 3 | 2.77 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 3 | 2.77 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 3 | 2.77 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 8 | 2.77 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 8 | 2.77 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 8 | 2.77 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 8 | 2.77 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 8 | 2.77 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 8 | 2.77 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 2 | 2.77 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 2 | 2.77 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 2 | 2.77 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 3 | 2.77 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 3 | 2.77 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 13 | 2.77 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 13 | 2.77 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 18 | 2.77 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 18 | 2.77 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 19 | 2.77 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 19 | 2.77 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 20 | 2.77 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 20 | 2.77 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 8 | 2.77 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 8 | 2.77 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 8 | 2.77 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 8 | 2.77 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 8 | 2.77 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 8 | 2.77 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 12 | 2.77 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 12 | 2.77 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 12 | 2.77 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 7 | 2.77 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 10 | 2.77 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 7 | 2.77 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 7 | 2.77 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 7 | 2.77 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 7 | 2.77 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 9 | 2.77 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 9 | 2.77 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 18 | 2.77 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 18 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 14 | 2.77 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 14 | 2.77 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 14 | 2.77 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 2.77 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 2.77 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 2.77 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 15 | 2.77 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 15 | 2.77 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 12 | 2.77 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 12 | 2.77 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 14 | 2.77 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 16 | 2.77 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 16 | 2.77 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 8 | 2.77 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 9 | 2.77 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 9 | 2.77 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 11 | 2.77 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 11 | 2.77 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 11 | 2.77 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 11 | 2.77 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 11 | 2.77 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 11 | 2.77 |
| (1,3522) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 9 | 2.77 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 19 | 2.77 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 17 | 2.77 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 17 | 2.77 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 9 | 2.77 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 9 | 2.77 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 16 | 2.77 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 7 | 2.77 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 16 | 2.77 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 16 | 2.77 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 16 | 2.77 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 10 | 2.77 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 2 | 2.77 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 11 | 2.77 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 15 | 2.77 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 15 | 2.77 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 15 | 2.77 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 4 | 2.77 |
| (1,3350) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 4 | 2.77 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 16 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 17 | 2.77 |
| (1,3104) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 6 | 2.77 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 8 | 2.77 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 14 | 2.77 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 17 | 2.77 |
| (1,3086) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 19 | 2.77 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 5 | 2.77 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 8 | 2.77 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 13 | 2.77 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 9 | 2.77 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 9 | 2.77 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 8 | 2.77 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 14 | 2.77 |
| (1,2954) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 18 | 2.77 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 6 | 2.77 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 6 | 2.77 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 6 | 2.77 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 9 | 2.77 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 7 | 2.77 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 3 | 2.77 |
| (1,2870) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 9 | 2.77 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 2 | 2.77 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 3 | 2.77 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 17 | 2.77 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 1 | 2.77 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 13 | 2.77 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 9 | 2.77 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 19 | 2.77 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 19 | 2.77 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 8 | 2.77 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 8 | 2.77 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 8 | 2.77 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 8 | 2.77 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 8 | 2.77 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 8 | 2.77 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 6 | 2.77 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 6 | 2.77 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 18 | 2.77 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 18 | 2.77 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 17 | 2.77 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 2 | 2.77 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 9 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 9 | 2.77 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 9 | 2.77 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 9 | 2.77 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 6 | 2.77 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 6 | 2.77 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 6 | 2.77 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 19 | 2.77 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 20 | 2.77 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 5 | 2.77 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 5 | 2.77 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 16 | 2.77 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 3 | 2.77 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 10 | 2.77 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 20 | 2.77 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 13 | 2.77 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 13 | 2.77 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 13 | 2.77 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 16 | 2.77 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 16 | 2.77 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 11 | 2.77 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 17 | 2.77 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 5 | 2.77 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 5 | 2.77 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 5 | 2.77 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 5 | 2.77 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 5 | 2.77 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 5 | 2.77 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 13 | 2.77 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 13 | 2.77 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 13 | 2.77 |
| (1,2346) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 8 | 2.77 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 8 | 2.77 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 4 | 2.77 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 8 | 2.77 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 12 | 2.77 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 18 | 2.77 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 18 | 2.77 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 18 | 2.77 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 18 | 2.77 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 18 | 2.77 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 18 | 2.77 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 18 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 18 | 2.77 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 18 | 2.77 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 17 | 2.77 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 7 | 2.77 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 12 | 2.77 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 12 | 2.77 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 12 | 2.77 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 8 | 2.77 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 8 | 2.77 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 8 | 2.77 |
| (1,2088) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 4 | 2.77 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 14 | 2.77 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 14 | 2.77 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 14 | 2.77 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 12 | 2.77 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 8 | 2.77 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 6 | 2.77 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 4 | 2.77 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 4 | 2.77 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 4 | 2.77 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 4 | 2.77 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 4 | 2.77 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 4 | 2.77 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 4 | 2.77 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 4 | 2.77 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 4 | 2.77 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 3 | 2.77 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 3 | 2.77 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 3 | 2.77 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 3 | 2.77 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 1 | 2.77 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 18 | 2.77 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 18 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 3 | 2.77 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 3 | 2.77 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 11 | 2.77 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 14 | 2.77 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 8 | 2.77 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 8 | 2.77 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 8 | 2.77 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 6 | 2.77 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 16 | 2.77 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 14 | 2.77 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 5 | 2.77 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 5 | 2.77 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 5 | 2.77 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 5 | 2.77 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 5 | 2.77 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 5 | 2.77 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 5 | 2.77 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 5 | 2.77 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 5 | 2.77 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 8 | 2.77 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 12 | 2.77 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 13 | 2.77 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 7 | 2.77 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 9 | 2.77 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 10 | 2.77 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 5 | 2.77 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 12 | 2.77 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 4 | 2.77 |
| (1,1586) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 20 | 2.77 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 14 | 2.77 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 10 | 2.77 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 10 | 2.77 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 13 | 2.77 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 11 | 2.77 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 17 | 2.77 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 18 | 2.77 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 19 | 2.77 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 19 | 2.77 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 19 | 2.77 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 15 | 2.77 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 10 | 2.77 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 18 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 5 | 2.77 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 7 | 2.77 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 15 | 2.77 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 4 | 2.77 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 4 | 2.77 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 4 | 2.77 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 4 | 2.77 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 4 | 2.77 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 4 | 2.77 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 4 | 2.77 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 4 | 2.77 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 4 | 2.77 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 4 | 2.77 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 20 | 2.77 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 17 | 2.77 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 17 | 2.77 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 17 | 2.77 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 7 | 2.77 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 13 | 2.77 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 3 | 2.77 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 15 | 2.77 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 3 | 2.77 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 3 | 2.77 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 3 | 2.77 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 3 | 2.77 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 3 | 2.77 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 3 | 2.77 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 1 | 2.77 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 1 | 2.77 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 4 | 2.77 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 8 | 2.77 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 10 | 2.77 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 11 | 2.77 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 16 | 2.77 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 20 | 2.77 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 8 | 2.77 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 12 | 2.77 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 14 | 2.77 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 6 | 2.77 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 11 | 2.77 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 14 | 2.77 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 19 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 6 | 2.77 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 15 | 2.77 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 15 | 2.77 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 15 | 2.77 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 2 | 2.77 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 3 | 2.77 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 7 | 2.77 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 17 | 2.77 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 19 | 2.77 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 10 | 2.77 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 10 | 2.77 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 10 | 2.77 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 9 | 2.77 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 7 | 2.77 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 7 | 2.77 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 16 | 2.77 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 16 | 2.77 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 16 | 2.77 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 11 | 2.77 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 16 | 2.77 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 8 | 2.77 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 4 | 2.77 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 12 | 2.77 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 15 | 2.77 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 1 | 2.77 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 13 | 2.77 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 5 | 2.77 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 9 | 2.77 |
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 6 | 2.77 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 15 | 2.77 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 16 | 2.77 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 9 | 2.77 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 7 | 2.77 |
| (1,594) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 3 | 2.77 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 13 | 2.77 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 6 | 2.77 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 6 | 2.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 6 | 2.77 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 6 | 2.77 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 4 | 2.77 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 10 | 2.77 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 16 | 2.77 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 18 | 2.77 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 6 | 2.77 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 6 | 2.77 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 16 | 2.77 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 16 | 2.77 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 16 | 2.77 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 15 | 2.77 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 15 | 2.77 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 15 | 2.77 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 19 | 2.77 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 12 | 2.76 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 8 | 2.76 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 2 | 2.76 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 18 | 2.76 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 18 | 2.76 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 16 | 2.76 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 16 | 2.76 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 9 | 2.76 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 9 | 2.76 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 4 | 2.76 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 4 | 2.76 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 14 | 2.76 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 14 | 2.76 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 19 | 2.76 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 19 | 2.76 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 19 | 2.76 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 19 | 2.76 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 2 | 2.76 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 2 | 2.76 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 18 | 2.76 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 18 | 2.76 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 18 | 2.76 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 18 | 2.76 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 18 | 2.76 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 18 | 2.76 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 7 | 2.76 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 7 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 11 | 2.76 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 11 | 2.76 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 15 | 2.76 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 15 | 2.76 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 7 | 2.76 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 7 | 2.76 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 7 | 2.76 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 7 | 2.76 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 10 | 2.76 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 10 | 2.76 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 20 | 2.76 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 20 | 2.76 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 15 | 2.76 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 15 | 2.76 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 15 | 2.76 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 15 | 2.76 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 19 | 2.76 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 19 | 2.76 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 13 | 2.76 |
| (1,9191) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 13 | 2.76 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 13 | 2.76 |
| (1,9191) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 13 | 2.76 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 10 | 2.76 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 10 | 2.76 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 16 | 2.76 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 16 | 2.76 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 1 | 2.76 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 1 | 2.76 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 1 | 2.76 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 1 | 2.76 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 1 | 2.76 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 1 | 2.76 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 4 | 2.76 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 4 | 2.76 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 9 | 2.76 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 9 | 2.76 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 20 | 2.76 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 20 | 2.76 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 10 | 2.76 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 10 | 2.76 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 10 | 2.76 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 10 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 17 | 2.76 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 17 | 2.76 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 10 | 2.76 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 10 | 2.76 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 4 | 2.76 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 4 | 2.76 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 4 | 2.76 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 4 | 2.76 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 4 | 2.76 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 4 | 2.76 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 14 | 2.76 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 14 | 2.76 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 14 | 2.76 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 14 | 2.76 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 14 | 2.76 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 14 | 2.76 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 7 | 2.76 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG21 | 10 | 2.76 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG22 | 10 | 2.76 |
| (1,8189) | 1:103:A:PHE:HE1 | 1:162:A:THR:HG23 | 10 | 2.76 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG21 | 10 | 2.76 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG22 | 10 | 2.76 |
| (1,8189) | 1:103:A:PHE:HE2 | 1:162:A:THR:HG23 | 10 | 2.76 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 3 | 2.76 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 20 | 2.76 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 4 | 2.76 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 12 | 2.76 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 5 | 2.76 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 5 | 2.76 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 11 | 2.76 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 8 | 2.76 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 20 | 2.76 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 12 | 2.76 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 8 | 2.76 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 6 | 2.76 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 8 | 2.76 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 8 | 2.76 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 8 | 2.76 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 8 | 2.76 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 8 | 2.76 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 8 | 2.76 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 13 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 13 | 2.76 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 9 | 2.76 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 9 | 2.76 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 16 | 2.76 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 16 | 2.76 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 16 | 2.76 |
| (1,7268) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 4 | 2.76 |
| (1,7268) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 4 | 2.76 |
| (1,7268) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 4 | 2.76 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 7 | 2.76 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 17 | 2.76 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 11 | 2.76 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 18 | 2.76 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 18 | 2.76 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 8 | 2.76 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 20 | 2.76 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 7 | 2.76 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 7 | 2.76 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 7 | 2.76 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 7 | 2.76 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 12 | 2.76 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 12 | 2.76 |
| (1,6746) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 5 | 2.76 |
| (1,6746) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 5 | 2.76 |
| (1,6746) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 5 | 2.76 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 20 | 2.76 |
| (1,6708) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 15 | 2.76 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 7 | 2.76 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 14 | 2.76 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 8 | 2.76 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 8 | 2.76 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 8 | 2.76 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 3 | 2.76 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 19 | 2.76 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 4 | 2.76 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 4 | 2.76 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 4 | 2.76 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 7 | 2.76 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 8 | 2.76 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 7 | 2.76 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 7 | 2.76 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 15 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 15 | 2.76 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 12 | 2.76 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 12 | 2.76 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 15 | 2.76 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 15 | 2.76 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 3 | 2.76 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 10 | 2.76 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 3 | 2.76 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 2 | 2.76 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 2 | 2.76 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 2 | 2.76 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 2 | 2.76 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 2 | 2.76 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 2 | 2.76 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 2 | 2.76 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 2 | 2.76 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 2 | 2.76 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 17 | 2.76 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 14 | 2.76 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 19 | 2.76 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 6 | 2.76 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 6 | 2.76 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 6 | 2.76 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 4 | 2.76 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 4 | 2.76 |
| (1,6054) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 4 | 2.76 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 6 | 2.76 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 6 | 2.76 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 6 | 2.76 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 9 | 2.76 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 1 | 2.76 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 7 | 2.76 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 7 | 2.76 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 9 | 2.76 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 20 | 2.76 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 9 | 2.76 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 16 | 2.76 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 16 | 2.76 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 16 | 2.76 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 16 | 2.76 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 16 | 2.76 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 16 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 16 | 2.76 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 16 | 2.76 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 16 | 2.76 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 18 | 2.76 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 18 | 2.76 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 18 | 2.76 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 18 | 2.76 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 18 | 2.76 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 18 | 2.76 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 1 | 2.76 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 1 | 2.76 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 15 | 2.76 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 17 | 2.76 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 12 | 2.76 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 4 | 2.76 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 4 | 2.76 |
| (1,5776) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 18 | 2.76 |
| (1,5776) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 18 | 2.76 |
| (1,5776) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 18 | 2.76 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 8 | 2.76 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 4 | 2.76 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 6 | 2.76 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 8 | 2.76 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 8 | 2.76 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 8 | 2.76 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 7 | 2.76 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 13 | 2.76 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 18 | 2.76 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 4 | 2.76 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 4 | 2.76 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 4 | 2.76 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 16 | 2.76 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 16 | 2.76 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 2 | 2.76 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 4 | 2.76 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 9 | 2.76 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 9 | 2.76 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 9 | 2.76 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 1 | 2.76 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 17 | 2.76 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 1 | 2.76 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 20 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 13 | 2.76 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 9 | 2.76 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 5 | 2.76 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 2 | 2.76 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 2 | 2.76 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 2 | 2.76 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 6 | 2.76 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 6 | 2.76 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 6 | 2.76 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 11 | 2.76 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 16 | 2.76 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 13 | 2.76 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 6 | 2.76 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 7 | 2.76 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 9 | 2.76 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 8 | 2.76 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 18 | 2.76 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 9 | 2.76 |
| (1,4930) | 1:65:A:SER:H | 1:66:A:GLN:H | 15 | 2.76 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 15 | 2.76 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 6 | 2.76 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 16 | 2.76 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 16 | 2.76 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 16 | 2.76 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 16 | 2.76 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 16 | 2.76 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 16 | 2.76 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 16 | 2.76 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 16 | 2.76 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 16 | 2.76 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 19 | 2.76 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 19 | 2.76 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 19 | 2.76 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 4 | 2.76 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 4 | 2.76 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 18 | 2.76 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 18 | 2.76 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 6 | 2.76 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 6 | 2.76 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 6 | 2.76 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 6 | 2.76 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 6 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 6 | 2.76 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 1 | 2.76 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 1 | 2.76 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 5 | 2.76 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 14 | 2.76 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 14 | 2.76 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 15 | 2.76 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 15 | 2.76 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 15 | 2.76 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 2 | 2.76 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 2 | 2.76 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 18 | 2.76 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 18 | 2.76 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 18 | 2.76 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 18 | 2.76 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 18 | 2.76 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 18 | 2.76 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 2.76 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 18 | 2.76 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 18 | 2.76 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 7 | 2.76 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 7 | 2.76 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 6 | 2.76 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 19 | 2.76 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 11 | 2.76 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 11 | 2.76 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 15 | 2.76 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 15 | 2.76 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 7 | 2.76 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 7 | 2.76 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 8 | 2.76 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 8 | 2.76 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 15 | 2.76 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 15 | 2.76 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 15 | 2.76 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 15 | 2.76 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 4 | 2.76 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 4 | 2.76 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 1 | 2.76 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 13 | 2.76 |
| (1,4178) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 13 | 2.76 |
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 13 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4178) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 13 | 2.76 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 12 | 2.76 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 12 | 2.76 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 14 | 2.76 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 14 | 2.76 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 14 | 2.76 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 10 | 2.76 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 10 | 2.76 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 10 | 2.76 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 12 | 2.76 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 18 | 2.76 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 18 | 2.76 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 2.76 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 1 | 2.76 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 1 | 2.76 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 14 | 2.76 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 14 | 2.76 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 14 | 2.76 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 16 | 2.76 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 16 | 2.76 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 16 | 2.76 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 6 | 2.76 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 6 | 2.76 |
| (1,3983) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 6 | 2.76 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 17 | 2.76 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 17 | 2.76 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 15 | 2.76 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 15 | 2.76 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 16 | 2.76 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 16 | 2.76 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 2 | 2.76 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 16 | 2.76 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 13 | 2.76 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 14 | 2.76 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 20 | 2.76 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 1 | 2.76 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 1 | 2.76 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 1 | 2.76 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 1 | 2.76 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 1 | 2.76 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 1 | 2.76 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 12 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 4 | 2.76 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 4 | 2.76 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 7 | 2.76 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 18 | 2.76 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 13 | 2.76 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 13 | 2.76 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 20 | 2.76 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 20 | 2.76 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 15 | 2.76 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 15 | 2.76 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 15 | 2.76 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 15 | 2.76 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 9 | 2.76 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 9 | 2.76 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 4 | 2.76 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 7 | 2.76 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 6 | 2.76 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 6 | 2.76 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 10 | 2.76 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 10 | 2.76 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 16 | 2.76 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 16 | 2.76 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 16 | 2.76 |
| (1,3480) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 4 | 2.76 |
| (1,3480) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 4 | 2.76 |
| (1,3480) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 4 | 2.76 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 7 | 2.76 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 17 | 2.76 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 17 | 2.76 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 17 | 2.76 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 17 | 2.76 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 10 | 2.76 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 16 | 2.76 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 1 | 2.76 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 13 | 2.76 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 12 | 2.76 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 18 | 2.76 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 18 | 2.76 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 14 | 2.76 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 14 | 2.76 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 14 | 2.76 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 11 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 14 | 2.76 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 19 | 2.76 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 19 | 2.76 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 19 | 2.76 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 20 | 2.76 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 20 | 2.76 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 8 | 2.76 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 6 | 2.76 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 20 | 2.76 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 20 | 2.76 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 3 | 2.76 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 3 | 2.76 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 11 | 2.76 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 12 | 2.76 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 12 | 2.76 |
| (1,2684) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 5 | 2.76 |
| (1,2684) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 5 | 2.76 |
| (1,2684) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 5 | 2.76 |
| (1,2644) | 1:21:A:ARG:H | 1:21:A:ARG:HA | 20 | 2.76 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 15 | 2.76 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 20 | 2.76 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 15 | 2.76 |
| (1,2616) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 15 | 2.76 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 8 | 2.76 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 2.76 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 8 | 2.76 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 1 | 2.76 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 15 | 2.76 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 7 | 2.76 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 15 | 2.76 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 14 | 2.76 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 8 | 2.76 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 8 | 2.76 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 8 | 2.76 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 15 | 2.76 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 15 | 2.76 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 15 | 2.76 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 14 | 2.76 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 14 | 2.76 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 14 | 2.76 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 18 | 2.76 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 2 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 3 | 2.76 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 10 | 2.76 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 19 | 2.76 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 3 | 2.76 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 10 | 2.76 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 4 | 2.76 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 4 | 2.76 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 4 | 2.76 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 13 | 2.76 |
| (1,2178) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 5 | 2.76 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 19 | 2.76 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 7 | 2.76 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 2.76 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 2.76 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 2.76 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 8 | 2.76 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 4 | 2.76 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 9 | 2.76 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 10 | 2.76 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 10 | 2.76 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 10 | 2.76 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 2.76 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 2.76 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 2.76 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 16 | 2.76 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 16 | 2.76 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 16 | 2.76 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 16 | 2.76 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 16 | 2.76 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 16 | 2.76 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 16 | 2.76 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 16 | 2.76 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 16 | 2.76 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 8 | 2.76 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 15 | 2.76 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 15 | 2.76 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 6 | 2.76 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 6 | 2.76 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 10 | 2.76 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 12 | 2.76 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 12 | 2.76 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 15 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 15 | 2.76 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 20 | 2.76 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 20 | 2.76 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 20 | 2.76 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 3 | 2.76 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 13 | 2.76 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 7 | 2.76 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 7 | 2.76 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 7 | 2.76 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 3 | 2.76 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 2 | 2.76 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 2 | 2.76 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 2 | 2.76 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 2 | 2.76 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 2 | 2.76 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 2 | 2.76 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 2 | 2.76 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 2 | 2.76 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 2 | 2.76 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 4 | 2.76 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 17 | 2.76 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 17 | 2.76 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 14 | 2.76 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 19 | 2.76 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 1 | 2.76 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 14 | 2.76 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 19 | 2.76 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 6 | 2.76 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 6 | 2.76 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 6 | 2.76 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 4 | 2.76 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 16 | 2.76 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 2 | 2.76 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 4 | 2.76 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 4 | 2.76 |
| (1,1606) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 4 | 2.76 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 6 | 2.76 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 6 | 2.76 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 6 | 2.76 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 9 | 2.76 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 11 | 2.76 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 11 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 11 | 2.76 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 2 | 2.76 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 7 | 2.76 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 7 | 2.76 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 3 | 2.76 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 4 | 2.76 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 4 | 2.76 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 9 | 2.76 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 20 | 2.76 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 8 | 2.76 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 17 | 2.76 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 14 | 2.76 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 14 | 2.76 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 14 | 2.76 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 14 | 2.76 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 14 | 2.76 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 14 | 2.76 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 9 | 2.76 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 16 | 2.76 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 16 | 2.76 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 16 | 2.76 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 16 | 2.76 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 16 | 2.76 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 16 | 2.76 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 16 | 2.76 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 16 | 2.76 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 16 | 2.76 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 18 | 2.76 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 18 | 2.76 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 18 | 2.76 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 18 | 2.76 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 18 | 2.76 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 18 | 2.76 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 10 | 2.76 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 1 | 2.76 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 1 | 2.76 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 15 | 2.76 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 17 | 2.76 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 13 | 2.76 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 15 | 2.76 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 17 | 2.76 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 7 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 15 | 2.76 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 12 | 2.76 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 4 | 2.76 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 4 | 2.76 |
| (1,1126) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 18 | 2.76 |
| (1,1126) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 18 | 2.76 |
| (1,1126) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 18 | 2.76 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 5 | 2.76 |
| (1,1076) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 17 | 2.76 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 20 | 2.76 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 7 | 2.76 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 4 | 2.76 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 4 | 2.76 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 4 | 2.76 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 9 | 2.76 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 9 | 2.76 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 9 | 2.76 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 4 | 2.76 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 7 | 2.76 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 6 | 2.76 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 8 | 2.76 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 8 | 2.76 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 8 | 2.76 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 2 | 2.76 |
| (1,840) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 2 | 2.76 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 9 | 2.76 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 4 | 2.76 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 4 | 2.76 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 4 | 2.76 |
| (1,766) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 12 | 2.76 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 15 | 2.76 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 18 | 2.76 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 4 | 2.76 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 20 | 2.76 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 4 | 2.76 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 4 | 2.76 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 4 | 2.76 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 10 | 2.76 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 5 | 2.76 |
| (1,620) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 2 | 2.76 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 14 | 2.76 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 17 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 10 | 2.76 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 10 | 2.76 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 10 | 2.76 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 16 | 2.76 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 7 | 2.76 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 19 | 2.76 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 8 | 2.76 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 8 | 2.76 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 8 | 2.76 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 8 | 2.76 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 8 | 2.76 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 8 | 2.76 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 9 | 2.76 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 9 | 2.76 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 9 | 2.76 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 9 | 2.76 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 9 | 2.76 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 9 | 2.76 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 6 | 2.76 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 19 | 2.76 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 19 | 2.76 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 19 | 2.76 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 12 | 2.76 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 12 | 2.76 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 14 | 2.76 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 14 | 2.76 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 14 | 2.76 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 10 | 2.76 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 10 | 2.76 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 10 | 2.76 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 15 | 2.76 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 15 | 2.76 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 15 | 2.76 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 15 | 2.76 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 16 | 2.76 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 5 | 2.76 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 6 | 2.76 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 6 | 2.76 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 6 | 2.76 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 6 | 2.76 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 6 | 2.76 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 6 | 2.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 12 | 2.75 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 16 | 2.75 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 12 | 2.75 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 12 | 2.75 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 3 | 2.75 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 3 | 2.75 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 1 | 2.75 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 1 | 2.75 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 1 | 2.75 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 1 | 2.75 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 1 | 2.75 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 1 | 2.75 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 17 | 2.75 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 17 | 2.75 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 11 | 2.75 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 11 | 2.75 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 8 | 2.75 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 8 | 2.75 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 14 | 2.75 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 14 | 2.75 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 2.75 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 2.75 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 11 | 2.75 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 11 | 2.75 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 11 | 2.75 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 11 | 2.75 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 17 | 2.75 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 17 | 2.75 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 17 | 2.75 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 17 | 2.75 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 17 | 2.75 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 17 | 2.75 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 2 | 2.75 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 2 | 2.75 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 10 | 2.75 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 10 | 2.75 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 10 | 2.75 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 10 | 2.75 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 10 | 2.75 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 10 | 2.75 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 17 | 2.75 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 17 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 17 | 2.75 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 17 | 2.75 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 17 | 2.75 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 17 | 2.75 |
| (1,8983) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 5 | 2.75 |
| (1,8983) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 5 | 2.75 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 19 | 2.75 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 19 | 2.75 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 8 | 2.75 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 8 | 2.75 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 9 | 2.75 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 9 | 2.75 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 11 | 2.75 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 11 | 2.75 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 12 | 2.75 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 12 | 2.75 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 1 | 2.75 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 1 | 2.75 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 5 | 2.75 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 5 | 2.75 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 5 | 2.75 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 5 | 2.75 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 7 | 2.75 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 7 | 2.75 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 17 | 2.75 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 17 | 2.75 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 3 | 2.75 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 3 | 2.75 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 13 | 2.75 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 13 | 2.75 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 8 | 2.75 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 8 | 2.75 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 8 | 2.75 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 8 | 2.75 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 8 | 2.75 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 8 | 2.75 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 18 | 2.75 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 5 | 2.75 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 17 | 2.75 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 17 | 2.75 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 2 | 2.75 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 2 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 2 | 2.75 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 2 | 2.75 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 2 | 2.75 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 2 | 2.75 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 2 | 2.75 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 2 | 2.75 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 2 | 2.75 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 2 | 2.75 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 11 | 2.75 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 11 | 2.75 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 11 | 2.75 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 11 | 2.75 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 11 | 2.75 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 11 | 2.75 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 11 | 2.75 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 1 | 2.75 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 1 | 2.75 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 1 | 2.75 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 1 | 2.75 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 1 | 2.75 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 1 | 2.75 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD21 | 18 | 2.75 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD22 | 18 | 2.75 |
| (1,7325) | 1:83:A:GLU:HA | 1:86:A:LEU:HD23 | 18 | 2.75 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 1 | 2.75 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 20 | 2.75 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 20 | 2.75 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 9 | 2.75 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 11 | 2.75 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 10 | 2.75 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 10 | 2.75 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 9 | 2.75 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 9 | 2.75 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 9 | 2.75 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 5 | 2.75 |
| (1,6848) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 18 | 2.75 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 7 | 2.75 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 15 | 2.75 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 3 | 2.75 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 4 | 2.75 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 6 | 2.75 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 6 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 13 | 2.75 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 4 | 2.75 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 8 | 2.75 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 11 | 2.75 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 11 | 2.75 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 11 | 2.75 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 11 | 2.75 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 1 | 2.75 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 1 | 2.75 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 1 | 2.75 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 13 | 2.75 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 1 | 2.75 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 1 | 2.75 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 1 | 2.75 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 15 | 2.75 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 15 | 2.75 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 1 | 2.75 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 1 | 2.75 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 2 | 2.75 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 2 | 2.75 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 1 | 2.75 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 1 | 2.75 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 1 | 2.75 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 3 | 2.75 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 3 | 2.75 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 3 | 2.75 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 7 | 2.75 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 7 | 2.75 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 7 | 2.75 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 10 | 2.75 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 10 | 2.75 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 10 | 2.75 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 14 | 2.75 |
| (1,6324) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 14 | 2.75 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 1 | 2.75 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 1 | 2.75 |
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 1 | 2.75 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 6 | 2.75 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 6 | 2.75 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 6 | 2.75 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 4 | 2.75 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 4 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 7 | 2.75 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 7 | 2.75 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 7 | 2.75 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 7 | 2.75 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 7 | 2.75 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 7 | 2.75 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 7 | 2.75 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 7 | 2.75 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 7 | 2.75 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 20 | 2.75 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 2 | 2.75 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 2 | 2.75 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 2 | 2.75 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 15 | 2.75 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 15 | 2.75 |
| (1,6108) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 9 | 2.75 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 2 | 2.75 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 2 | 2.75 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 2 | 2.75 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 4 | 2.75 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 18 | 2.75 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 2 | 2.75 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 2 | 2.75 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 2 | 2.75 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 14 | 2.75 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 12 | 2.75 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 14 | 2.75 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 18 | 2.75 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 20 | 2.75 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 2 | 2.75 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 11 | 2.75 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 11 | 2.75 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 15 | 2.75 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 15 | 2.75 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 15 | 2.75 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 20 | 2.75 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 16 | 2.75 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 1 | 2.75 |
| (1,5731) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 13 | 2.75 |
| (1,5731) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 13 | 2.75 |
| (1,5731) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 13 | 2.75 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 18 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 2 | 2.75 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 3 | 2.75 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 17 | 2.75 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 12 | 2.75 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 18 | 2.75 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 19 | 2.75 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 7 | 2.75 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 7 | 2.75 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 7 | 2.75 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 11 | 2.75 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 12 | 2.75 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 3 | 2.75 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 5 | 2.75 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 20 | 2.75 |
| (1,5292) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 11 | 2.75 |
| (1,5276) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 3 | 2.75 |
| (1,5276) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 3 | 2.75 |
| (1,5276) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 3 | 2.75 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 11 | 2.75 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 11 | 2.75 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 11 | 2.75 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 10 | 2.75 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 20 | 2.75 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 19 | 2.75 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 8 | 2.75 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 9 | 2.75 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 3 | 2.75 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 3 | 2.75 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 3 | 2.75 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 3 | 2.75 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 3 | 2.75 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 3 | 2.75 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 11 | 2.75 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 15 | 2.75 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 3 | 2.75 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 8 | 2.75 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 16 | 2.75 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 6 | 2.75 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 14 | 2.75 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 20 | 2.75 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 4 | 2.75 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 5 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 5 | 2.75 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 5 | 2.75 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 7 | 2.75 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 20 | 2.75 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 16 | 2.75 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 16 | 2.75 |
| (1,4768) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 16 | 2.75 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 1 | 2.75 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 10 | 2.75 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 6 | 2.75 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 8 | 2.75 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 13 | 2.75 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 3 | 2.75 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 3 | 2.75 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 6 | 2.75 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 6 | 2.75 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 6 | 2.75 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 6 | 2.75 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 6 | 2.75 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 6 | 2.75 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 3 | 2.75 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 3 | 2.75 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 14 | 2.75 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 10 | 2.75 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 10 | 2.75 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 17 | 2.75 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 17 | 2.75 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 17 | 2.75 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 19 | 2.75 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 19 | 2.75 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 19 | 2.75 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 6 | 2.75 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 6 | 2.75 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 9 | 2.75 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 9 | 2.75 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 1 | 2.75 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 8 | 2.75 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 8 | 2.75 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 14 | 2.75 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 14 | 2.75 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 2.75 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 16 | 2.75 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 16 | 2.75 |
| (1,4249) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 18 | 2.75 |
| (1,4249) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 18 | 2.75 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 14 | 2.75 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 17 | 2.75 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 17 | 2.75 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 17 | 2.75 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 17 | 2.75 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 17 | 2.75 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 17 | 2.75 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 3 | 2.75 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 3 | 2.75 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 3 | 2.75 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 3 | 2.75 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 3 | 2.75 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 3 | 2.75 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 2 | 2.75 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 2 | 2.75 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 20 | 2.75 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 20 | 2.75 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 20 | 2.75 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 20 | 2.75 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 20 | 2.75 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 20 | 2.75 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 12 | 2.75 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 12 | 2.75 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 3 | 2.75 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 3 | 2.75 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 2 | 2.75 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 2 | 2.75 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 17 | 2.75 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 17 | 2.75 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 17 | 2.75 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 17 | 2.75 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 17 | 2.75 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 17 | 2.75 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 19 | 2.75 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 19 | 2.75 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 3 | 2.75 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 3 | 2.75 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 2 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 2 | 2.75 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 8 | 2.75 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 8 | 2.75 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 4 | 2.75 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 4 | 2.75 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 20 | 2.75 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 20 | 2.75 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 12 | 2.75 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 12 | 2.75 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 8 | 2.75 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 8 | 2.75 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 8 | 2.75 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 8 | 2.75 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 8 | 2.75 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 8 | 2.75 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 8 | 2.75 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 8 | 2.75 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 11 | 2.75 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 11 | 2.75 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 7 | 2.75 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 17 | 2.75 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 17 | 2.75 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 8 | 2.75 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 8 | 2.75 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 8 | 2.75 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 8 | 2.75 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 8 | 2.75 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 8 | 2.75 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 13 | 2.75 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 13 | 2.75 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 19 | 2.75 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 19 | 2.75 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 20 | 2.75 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 20 | 2.75 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 18 | 2.75 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 1 | 2.75 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 1 | 2.75 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 3 | 2.75 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 16 | 2.75 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 16 | 2.75 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 20 | 2.75 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 20 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 20 | 2.75 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 6 | 2.75 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 9 | 2.75 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 11 | 2.75 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 11 | 2.75 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 16 | 2.75 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 11 | 2.75 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 12 | 2.75 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 8 | 2.75 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 9 | 2.75 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 9 | 2.75 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 9 | 2.75 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 16 | 2.75 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 19 | 2.75 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 4 | 2.75 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 13 | 2.75 |
| (1,2934) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 19 | 2.75 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 5 | 2.75 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 3 | 2.75 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 3 | 2.75 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 3 | 2.75 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 13 | 2.75 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 7 | 2.75 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 7 | 2.75 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 7 | 2.75 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 11 | 2.75 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 11 | 2.75 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 11 | 2.75 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 13 | 2.75 |
| (1,2832) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 18 | 2.75 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 7 | 2.75 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 15 | 2.75 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 3 | 2.75 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 4 | 2.75 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 6 | 2.75 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 6 | 2.75 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 13 | 2.75 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 2 | 2.75 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 2 | 2.75 |
| (1,2702) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 2 | 2.75 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 12 | 2.75 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 12 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 12 | 2.75 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 12 | 2.75 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 8 | 2.75 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 12 | 2.75 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 12 | 2.75 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 12 | 2.75 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 16 | 2.75 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 16 | 2.75 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 16 | 2.75 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 3 | 2.75 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 11 | 2.75 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 11 | 2.75 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 11 | 2.75 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 11 | 2.75 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 11 | 2.75 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 1 | 2.75 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 1 | 2.75 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 1 | 2.75 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 9 | 2.75 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 13 | 2.75 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 1 | 2.75 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 1 | 2.75 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 1 | 2.75 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 15 | 2.75 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 15 | 2.75 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 8 | 2.75 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 8 | 2.75 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 8 | 2.75 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 8 | 2.75 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 8 | 2.75 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 8 | 2.75 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 8 | 2.75 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 8 | 2.75 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 8 | 2.75 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 10 | 2.75 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 16 | 2.75 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 16 | 2.75 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 16 | 2.75 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 16 | 2.75 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 16 | 2.75 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 16 | 2.75 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 15 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 2 | 2.75 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 2 | 2.75 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 1 | 2.75 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 1 | 2.75 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 1 | 2.75 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 3 | 2.75 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 3 | 2.75 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 3 | 2.75 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 7 | 2.75 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 7 | 2.75 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 7 | 2.75 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 10 | 2.75 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 10 | 2.75 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 10 | 2.75 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 14 | 2.75 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 14 | 2.75 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 14 | 2.75 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 14 | 2.75 |
| (1,1994) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 14 | 2.75 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 1 | 2.75 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 1 | 2.75 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 1 | 2.75 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 10 | 2.75 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 10 | 2.75 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 10 | 2.75 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 10 | 2.75 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 10 | 2.75 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 10 | 2.75 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 10 | 2.75 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 10 | 2.75 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 10 | 2.75 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 6 | 2.75 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 6 | 2.75 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 6 | 2.75 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 2.75 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 2.75 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 2.75 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 13 | 2.75 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 13 | 2.75 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 13 | 2.75 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 18 | 2.75 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 18 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 18 | 2.75 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 7 | 2.75 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 7 | 2.75 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 7 | 2.75 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 7 | 2.75 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 7 | 2.75 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 7 | 2.75 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 7 | 2.75 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 7 | 2.75 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 7 | 2.75 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 18 | 2.75 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 20 | 2.75 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 2 | 2.75 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 2 | 2.75 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 2 | 2.75 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 15 | 2.75 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 15 | 2.75 |
| (1,1680) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 9 | 2.75 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 2 | 2.75 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 2 | 2.75 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 2 | 2.75 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 2 | 2.75 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 8 | 2.75 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 12 | 2.75 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 18 | 2.75 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 10 | 2.75 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 4 | 2.75 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 18 | 2.75 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 8 | 2.75 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 2 | 2.75 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 2 | 2.75 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 2 | 2.75 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 14 | 2.75 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 3 | 2.75 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 20 | 2.75 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 20 | 2.75 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 18 | 2.75 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 20 | 2.75 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 10 | 2.75 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 4 | 2.75 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 2 | 2.75 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 4 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 6 | 2.75 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 8 | 2.75 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 8 | 2.75 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 8 | 2.75 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 19 | 2.75 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 12 | 2.75 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 11 | 2.75 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 11 | 2.75 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 2 | 2.75 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 5 | 2.75 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 15 | 2.75 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 15 | 2.75 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 15 | 2.75 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 20 | 2.75 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 10 | 2.75 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 5 | 2.75 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 5 | 2.75 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 5 | 2.75 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 16 | 2.75 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 9 | 2.75 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 9 | 2.75 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 9 | 2.75 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 10 | 2.75 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 1 | 2.75 |
| (1,1016) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 13 | 2.75 |
| (1,1016) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 13 | 2.75 |
| (1,1016) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 13 | 2.75 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 18 | 2.75 |
| (1,994) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 7 | 2.75 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 4 | 2.75 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 10 | 2.75 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 17 | 2.75 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 2 | 2.75 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 3 | 2.75 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 13 | 2.75 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 13 | 2.75 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 13 | 2.75 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 13 | 2.75 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 13 | 2.75 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 13 | 2.75 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 15 | 2.75 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 15 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 15 | 2.75 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 17 | 2.75 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 12 | 2.75 |
| (1,750) | 1:98:A:SER:HA | 1:99:A:GLY:H | 9 | 2.75 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 10 | 2.75 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 16 | 2.75 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 7 | 2.75 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 7 | 2.75 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 7 | 2.75 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 11 | 2.75 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 10 | 2.75 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 4 | 2.75 |
| (1,603) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 15 | 2.75 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 4 | 2.75 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 4 | 2.75 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 4 | 2.75 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 11 | 2.75 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 11 | 2.75 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 11 | 2.75 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 7 | 2.75 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 7 | 2.75 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 13 | 2.75 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 13 | 2.75 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 13 | 2.75 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 13 | 2.75 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 13 | 2.75 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 13 | 2.75 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 16 | 2.75 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 12 | 2.75 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 12 | 2.75 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 12 | 2.75 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 16 | 2.75 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 16 | 2.75 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 16 | 2.75 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 16 | 2.75 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 16 | 2.75 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 16 | 2.75 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 8 | 2.74 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 9 | 2.74 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 18 | 2.74 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 17 | 2.74 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 17 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 9 | 2.74 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 10 | 2.74 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 11 | 2.74 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 15 | 2.74 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 8 | 2.74 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 8 | 2.74 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 8 | 2.74 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 8 | 2.74 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 8 | 2.74 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 8 | 2.74 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 19 | 2.74 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 19 | 2.74 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 2 | 2.74 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 2 | 2.74 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 3 | 2.74 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 3 | 2.74 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 9 | 2.74 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 9 | 2.74 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 9 | 2.74 |
| (1,9352) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 9 | 2.74 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 18 | 2.74 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 18 | 2.74 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 1 | 2.74 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 1 | 2.74 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 1 | 2.74 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 1 | 2.74 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 1 | 2.74 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 1 | 2.74 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 10 | 2.74 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 10 | 2.74 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 17 | 2.74 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 17 | 2.74 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 16 | 2.74 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 16 | 2.74 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 1 | 2.74 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 1 | 2.74 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 13 | 2.74 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 13 | 2.74 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 13 | 2.74 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 13 | 2.74 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 13 | 2.74 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 13 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 1 | 2.74 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 1 | 2.74 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 1 | 2.74 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 1 | 2.74 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 1 | 2.74 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 1 | 2.74 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 13 | 2.74 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 13 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 1 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 1 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 1 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 1 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 1 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 1 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 17 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 17 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 17 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 17 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 17 | 2.74 |
| (1,9040) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 17 | 2.74 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 3 | 2.74 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 3 | 2.74 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 3 | 2.74 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 3 | 2.74 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 3 | 2.74 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 3 | 2.74 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 19 | 2.74 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 19 | 2.74 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 7 | 2.74 |
| (1,8848) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 7 | 2.74 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 7 | 2.74 |
| (1,8848) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 7 | 2.74 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 7 | 2.74 |
| (1,8848) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 7 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 2.74 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 2.74 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 18 | 2.74 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 18 | 2.74 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 18 | 2.74 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 18 | 2.74 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 18 | 2.74 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 18 | 2.74 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 10 | 2.74 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 10 | 2.74 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 19 | 2.74 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 19 | 2.74 |
| (1,8751) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 4 | 2.74 |
| (1,8751) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 4 | 2.74 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 10 | 2.74 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 10 | 2.74 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 5 | 2.74 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 5 | 2.74 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 15 | 2.74 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 15 | 2.74 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 12 | 2.74 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 12 | 2.74 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 12 | 2.74 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 12 | 2.74 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 13 | 2.74 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 13 | 2.74 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 13 | 2.74 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 13 | 2.74 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 13 | 2.74 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 13 | 2.74 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 20 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 2.74 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 2.74 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 6 | 2.74 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 6 | 2.74 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 19 | 2.74 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 19 | 2.74 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 13 | 2.74 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 13 | 2.74 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 13 | 2.74 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 17 | 2.74 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 17 | 2.74 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 15 | 2.74 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 18 | 2.74 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 18 | 2.74 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 18 | 2.74 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 18 | 2.74 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 18 | 2.74 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 18 | 2.74 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 18 | 2.74 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 18 | 2.74 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 18 | 2.74 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 10 | 2.74 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 10 | 2.74 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 8 | 2.74 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 8 | 2.74 |
| (1,7679) | 1:36:A:ARG:H | 1:37:A:PRO:HD3 | 16 | 2.74 |
| (1,7591) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 16 | 2.74 |
| (1,7591) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 16 | 2.74 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 11 | 2.74 |
| (1,7522) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 5 | 2.74 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 3 | 2.74 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 4 | 2.74 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 4 | 2.74 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 4 | 2.74 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 4 | 2.74 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 4 | 2.74 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 4 | 2.74 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 4 | 2.74 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 4 | 2.74 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 4 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 13 | 2.74 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 7 | 2.74 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 7 | 2.74 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 7 | 2.74 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 10 | 2.74 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 10 | 2.74 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 7 | 2.74 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 20 | 2.74 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 20 | 2.74 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 19 | 2.74 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 19 | 2.74 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 19 | 2.74 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 15 | 2.74 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 5 | 2.74 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 4 | 2.74 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 11 | 2.74 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 5 | 2.74 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 5 | 2.74 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 5 | 2.74 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 11 | 2.74 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 5 | 2.74 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 20 | 2.74 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 7 | 2.74 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 19 | 2.74 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 19 | 2.74 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 19 | 2.74 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 19 | 2.74 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 9 | 2.74 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 9 | 2.74 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 9 | 2.74 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 11 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 11 | 2.74 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 11 | 2.74 |
| (1,6241) | 1:146:A:MET:HA | 1:161:A:ARG:H | 17 | 2.74 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 8 | 2.74 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 17 | 2.74 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 6 | 2.74 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 11 | 2.74 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 11 | 2.74 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 3 | 2.74 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 12 | 2.74 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 17 | 2.74 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 10 | 2.74 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 16 | 2.74 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 1 | 2.74 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 4 | 2.74 |
| (1,5849) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 16 | 2.74 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 16 | 2.74 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 7 | 2.74 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 16 | 2.74 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 6 | 2.74 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 4 | 2.74 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 11 | 2.74 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 11 | 2.74 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 11 | 2.74 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 3 | 2.74 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 16 | 2.74 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 1 | 2.74 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 14 | 2.74 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 16 | 2.74 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 6 | 2.74 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 6 | 2.74 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 6 | 2.74 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 6 | 2.74 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 6 | 2.74 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 6 | 2.74 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 6 | 2.74 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 6 | 2.74 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 6 | 2.74 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 1 | 2.74 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 1 | 2.74 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 1 | 2.74 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 1 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 1 | 2.74 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 1 | 2.74 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 1 | 2.74 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 1 | 2.74 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 1 | 2.74 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 14 | 2.74 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 14 | 2.74 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 14 | 2.74 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 14 | 2.74 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 10 | 2.74 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 10 | 2.74 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 10 | 2.74 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 5 | 2.74 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 18 | 2.74 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 6 | 2.74 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 20 | 2.74 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 10 | 2.74 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 4 | 2.74 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 18 | 2.74 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 15 | 2.74 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 1 | 2.74 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 19 | 2.74 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 20 | 2.74 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 4 | 2.74 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 4 | 2.74 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 4 | 2.74 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 17 | 2.74 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 17 | 2.74 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 17 | 2.74 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 17 | 2.74 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 17 | 2.74 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 17 | 2.74 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 17 | 2.74 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 17 | 2.74 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 17 | 2.74 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 17 | 2.74 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 10 | 2.74 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 10 | 2.74 |
| (1,4819) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 10 | 2.74 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 10 | 2.74 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 10 | 2.74 |
| (1,4819) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 10 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 10 | 2.74 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 10 | 2.74 |
| (1,4819) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 10 | 2.74 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 18 | 2.74 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 18 | 2.74 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 18 | 2.74 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 12 | 2.74 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 14 | 2.74 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 14 | 2.74 |
| (1,4790) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 14 | 2.74 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 1 | 2.74 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 1 | 2.74 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 1 | 2.74 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 16 | 2.74 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 8 | 2.74 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 9 | 2.74 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 11 | 2.74 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 11 | 2.74 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 4 | 2.74 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 4 | 2.74 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 8 | 2.74 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 14 | 2.74 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 19 | 2.74 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 7 | 2.74 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 7 | 2.74 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 6 | 2.74 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 6 | 2.74 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 12 | 2.74 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 12 | 2.74 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 16 | 2.74 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 16 | 2.74 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 18 | 2.74 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 2 | 2.74 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 2 | 2.74 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 8 | 2.74 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 8 | 2.74 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 8 | 2.74 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 8 | 2.74 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 8 | 2.74 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 8 | 2.74 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 4 | 2.74 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 4 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 8 | 2.74 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 8 | 2.74 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 5 | 2.74 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 5 | 2.74 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 5 | 2.74 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 5 | 2.74 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 5 | 2.74 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 5 | 2.74 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 15 | 2.74 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 12 | 2.74 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 3 | 2.74 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 3 | 2.74 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 9 | 2.74 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 9 | 2.74 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 9 | 2.74 |
| (1,4354) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 9 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 2 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 2 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 3 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 3 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 7 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 7 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 14 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 14 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 15 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 15 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 19 | 2.74 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 19 | 2.74 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 11 | 2.74 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 3 | 2.74 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 1 | 2.74 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 1 | 2.74 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 1 | 2.74 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 1 | 2.74 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 15 | 2.74 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 15 | 2.74 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 15 | 2.74 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 15 | 2.74 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 1 | 2.74 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 1 | 2.74 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 10 | 2.74 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 10 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 17 | 2.74 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 17 | 2.74 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 5 | 2.74 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 5 | 2.74 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 11 | 2.74 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 11 | 2.74 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 3 | 2.74 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 3 | 2.74 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 3 | 2.74 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 3 | 2.74 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 1 | 2.74 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 1 | 2.74 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 1 | 2.74 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 1 | 2.74 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 1 | 2.74 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 1 | 2.74 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 3 | 2.74 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 3 | 2.74 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 3 | 2.74 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 3 | 2.74 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 10 | 2.74 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 10 | 2.74 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 1 | 2.74 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 1 | 2.74 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 9 | 2.74 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 9 | 2.74 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 10 | 2.74 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 10 | 2.74 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 10 | 2.74 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 10 | 2.74 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 10 | 2.74 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 10 | 2.74 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 19 | 2.74 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 19 | 2.74 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 7 | 2.74 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 17 | 2.74 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 4 | 2.74 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 4 | 2.74 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 4 | 2.74 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 4 | 2.74 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 4 | 2.74 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 4 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 1 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 1 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 1 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 1 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 1 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 1 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 17 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 17 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 17 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 17 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 17 | 2.74 |
| (1,4012) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 17 | 2.74 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 2.74 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 2.74 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 2.74 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 3 | 2.74 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 3 | 2.74 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 3 | 2.74 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 3 | 2.74 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 3 | 2.74 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 3 | 2.74 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 14 | 2.74 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 14 | 2.74 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 14 | 2.74 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 14 | 2.74 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 14 | 2.74 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 14 | 2.74 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 18 | 2.74 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 1 | 2.74 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 11 | 2.74 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 12 | 2.74 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 2 | 2.74 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 6 | 2.74 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 12 | 2.74 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 12 | 2.74 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 12 | 2.74 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 7 | 2.74 |
| (1,3810) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 7 | 2.74 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 7 | 2.74 |
| (1,3810) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 7 | 2.74 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 7 | 2.74 |
| (1,3810) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 7 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 2.74 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 2.74 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 2.74 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 2.74 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 2.74 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 2.74 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 2.74 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 2.74 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 4 | 2.74 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 18 | 2.74 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 18 | 2.74 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 18 | 2.74 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 18 | 2.74 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 18 | 2.74 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 18 | 2.74 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 10 | 2.74 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 10 | 2.74 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 19 | 2.74 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 19 | 2.74 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 5 | 2.74 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 7 | 2.74 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 7 | 2.74 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 7 | 2.74 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 7 | 2.74 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 7 | 2.74 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 7 | 2.74 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 13 | 2.74 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 13 | 2.74 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 13 | 2.74 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 13 | 2.74 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 13 | 2.74 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 13 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 12 | 2.74 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 15 | 2.74 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 15 | 2.74 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 12 | 2.74 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 12 | 2.74 |
| (1,3608) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 16 | 2.74 |
| (1,3608) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 16 | 2.74 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 2 | 2.74 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 2 | 2.74 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 11 | 2.74 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 11 | 2.74 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 18 | 2.74 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 18 | 2.74 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 18 | 2.74 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 18 | 2.74 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 3 | 2.74 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 3 | 2.74 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 10 | 2.74 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 10 | 2.74 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 4 | 2.74 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 4 | 2.74 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 4 | 2.74 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 4 | 2.74 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 4 | 2.74 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 4 | 2.74 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 4 | 2.74 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 4 | 2.74 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 4 | 2.74 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 17 | 2.74 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 17 | 2.74 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 17 | 2.74 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 13 | 2.74 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 5 | 2.74 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 14 | 2.74 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 2 | 2.74 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 2 | 2.74 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 2 | 2.74 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 13 | 2.74 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 13 | 2.74 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 2.74 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 6 | 2.74 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 6 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 7 | 2.74 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 7 | 2.74 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 7 | 2.74 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 16 | 2.74 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 10 | 2.74 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 10 | 2.74 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 8 | 2.74 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 8 | 2.74 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 8 | 2.74 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 12 | 2.74 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 20 | 2.74 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 6 | 2.74 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 1 | 2.74 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 5 | 2.74 |
| (1,3052) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 11 | 2.74 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 15 | 2.74 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 5 | 2.74 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 5 | 2.74 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 13 | 2.74 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 13 | 2.74 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 19 | 2.74 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 19 | 2.74 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 5 | 2.74 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 8 | 2.74 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 4 | 2.74 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 20 | 2.74 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 4 | 2.74 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 11 | 2.74 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 5 | 2.74 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 5 | 2.74 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 14 | 2.74 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 14 | 2.74 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 14 | 2.74 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 14 | 2.74 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 14 | 2.74 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 14 | 2.74 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 5 | 2.74 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 5 | 2.74 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 1 | 2.74 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 8 | 2.74 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 19 | 2.74 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 5 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 20 | 2.74 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 9 | 2.74 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 9 | 2.74 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 9 | 2.74 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 18 | 2.74 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 7 | 2.74 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 19 | 2.74 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 19 | 2.74 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 19 | 2.74 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 19 | 2.74 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 6 | 2.74 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 13 | 2.74 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 2 | 2.74 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 14 | 2.74 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 18 | 2.74 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 20 | 2.74 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 15 | 2.74 |
| (1,2302) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 11 | 2.74 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 19 | 2.74 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 11 | 2.74 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 11 | 2.74 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 11 | 2.74 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 14 | 2.74 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 14 | 2.74 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 14 | 2.74 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 19 | 2.74 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 19 | 2.74 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 19 | 2.74 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 2.74 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 2.74 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 2.74 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 9 | 2.74 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 9 | 2.74 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 9 | 2.74 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 13 | 2.74 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 11 | 2.74 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 11 | 2.74 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 11 | 2.74 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 13 | 2.74 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 13 | 2.74 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 13 | 2.74 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 13 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 13 | 2.74 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 13 | 2.74 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 5 | 2.74 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 12 | 2.74 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 9 | 2.74 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 9 | 2.74 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 9 | 2.74 |
| (1,1872) | 1:146:A:MET:HA | 1:161:A:ARG:H | 17 | 2.74 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 1 | 2.74 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 1 | 2.74 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 16 | 2.74 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 16 | 2.74 |
| (1,1832) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 3 | 2.74 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 1 | 2.74 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 1 | 2.74 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 1 | 2.74 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 1 | 2.74 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 10 | 2.74 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 10 | 2.74 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 10 | 2.74 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 8 | 2.74 |
| (1,1742) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 3 | 2.74 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 17 | 2.74 |
| (1,1736) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 12 | 2.74 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 20 | 2.74 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 5 | 2.74 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 6 | 2.74 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 3 | 2.74 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 7 | 2.74 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 10 | 2.74 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 11 | 2.74 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 17 | 2.74 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 1 | 2.74 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 8 | 2.74 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 11 | 2.74 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 11 | 2.74 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 13 | 2.74 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 18 | 2.74 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 3 | 2.74 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 6 | 2.74 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 12 | 2.74 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 17 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 7 | 2.74 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 19 | 2.74 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 3 | 2.74 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 20 | 2.74 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 5 | 2.74 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 5 | 2.74 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 5 | 2.74 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 5 | 2.74 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 5 | 2.74 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 5 | 2.74 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 10 | 2.74 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 16 | 2.74 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 1 | 2.74 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 4 | 2.74 |
| (1,1226) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 16 | 2.74 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 16 | 2.74 |
| (1,1188) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 8 | 2.74 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 3 | 2.74 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 5 | 2.74 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 8 | 2.74 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 10 | 2.74 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 17 | 2.74 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 20 | 2.74 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 4 | 2.74 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 4 | 2.74 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 4 | 2.74 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 3 | 2.74 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 14 | 2.74 |
| (1,926) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 11 | 2.74 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 7 | 2.74 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 16 | 2.74 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 6 | 2.74 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 10 | 2.74 |
| (1,872) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 12 | 2.74 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 3 | 2.74 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 3 | 2.74 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 3 | 2.74 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 3 | 2.74 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 3 | 2.74 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 3 | 2.74 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 6 | 2.74 |
| (1,758) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 3 | 2.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 2 | 2.74 |
| (1,748) | 1:98:A:SER:H | 1:98:A:SER:HA | 7 | 2.74 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 4 | 2.74 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 5 | 2.74 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 2 | 2.74 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 14 | 2.74 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 11 | 2.74 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 11 | 2.74 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 11 | 2.74 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 3 | 2.74 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 9 | 2.74 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 16 | 2.74 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 1 | 2.74 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 14 | 2.74 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 17 | 2.74 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 17 | 2.74 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 17 | 2.74 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 13 | 2.74 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 13 | 2.74 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 13 | 2.74 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 11 | 2.74 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 11 | 2.74 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 11 | 2.73 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 8 | 2.73 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 8 | 2.73 |
| (4,212) | 1:131:A:GLN:CB | 1:39:A:GLY:H | 19 | 2.73 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 11 | 2.73 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 14 | 2.73 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 14 | 2.73 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 7 | 2.73 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 7 | 2.73 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 13 | 2.73 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 13 | 2.73 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 17 | 2.73 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 17 | 2.73 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 10 | 2.73 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 10 | 2.73 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 11 | 2.73 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 11 | 2.73 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 6 | 2.73 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 6 | 2.73 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 2 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 2 | 2.73 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 8 | 2.73 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 8 | 2.73 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 8 | 2.73 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 8 | 2.73 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 8 | 2.73 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 8 | 2.73 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 6 | 2.73 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 6 | 2.73 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 6 | 2.73 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 6 | 2.73 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 6 | 2.73 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 6 | 2.73 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 11 | 2.73 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 11 | 2.73 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 11 | 2.73 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 11 | 2.73 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 11 | 2.73 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 11 | 2.73 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 5 | 2.73 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 5 | 2.73 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 5 | 2.73 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 5 | 2.73 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 5 | 2.73 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 5 | 2.73 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 9 | 2.73 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 9 | 2.73 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 13 | 2.73 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 13 | 2.73 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 12 | 2.73 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 12 | 2.73 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 15 | 2.73 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 15 | 2.73 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 15 | 2.73 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 15 | 2.73 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 12 | 2.73 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 12 | 2.73 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 13 | 2.73 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 13 | 2.73 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 8 | 2.73 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 8 | 2.73 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 10 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 10 | 2.73 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 4 | 2.73 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 4 | 2.73 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 16 | 2.73 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 16 | 2.73 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 15 | 2.73 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 15 | 2.73 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 7 | 2.73 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 7 | 2.73 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 7 | 2.73 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 7 | 2.73 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 7 | 2.73 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 7 | 2.73 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 7 | 2.73 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 7 | 2.73 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 5 | 2.73 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 5 | 2.73 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 5 | 2.73 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 6 | 2.73 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 12 | 2.73 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 8 | 2.73 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 8 | 2.73 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 8 | 2.73 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 8 | 2.73 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 8 | 2.73 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 8 | 2.73 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 13 | 2.73 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 10 | 2.73 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 20 | 2.73 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 9 | 2.73 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 9 | 2.73 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 9 | 2.73 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 2 | 2.73 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 2 | 2.73 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 2 | 2.73 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 2 | 2.73 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 2 | 2.73 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 2 | 2.73 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 13 | 2.73 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 13 | 2.73 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 17 | 2.73 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 17 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 20 | 2.73 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 20 | 2.73 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 17 | 2.73 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 6 | 2.73 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 17 | 2.73 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 11 | 2.73 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 11 | 2.73 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 11 | 2.73 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 15 | 2.73 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 15 | 2.73 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 15 | 2.73 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 17 | 2.73 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 17 | 2.73 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 17 | 2.73 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 5 | 2.73 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 5 | 2.73 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 5 | 2.73 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 5 | 2.73 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 1 | 2.73 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 1 | 2.73 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 1 | 2.73 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 19 | 2.73 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 19 | 2.73 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 19 | 2.73 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 8 | 2.73 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 8 | 2.73 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 8 | 2.73 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 6 | 2.73 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 6 | 2.73 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 6 | 2.73 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 4 | 2.73 |
| (1,6838) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 15 | 2.73 |
| (1,6833) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 9 | 2.73 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 1 | 2.73 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 5 | 2.73 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 8 | 2.73 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 17 | 2.73 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 3 | 2.73 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 10 | 2.73 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 15 | 2.73 |
| (1,6663) | 1:14:A:ARG:H | 1:15:A:MET:H | 20 | 2.73 |
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 12 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6537) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 12 | 2.73 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 12 | 2.73 |
| (1,6537) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 12 | 2.73 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 12 | 2.73 |
| (1,6537) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 12 | 2.73 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 7 | 2.73 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 7 | 2.73 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 1 | 2.73 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 2 | 2.73 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 13 | 2.73 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 11 | 2.73 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 11 | 2.73 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 7 | 2.73 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 7 | 2.73 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 7 | 2.73 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 13 | 2.73 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 13 | 2.73 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 8 | 2.73 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 12 | 2.73 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 12 | 2.73 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 11 | 2.73 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 15 | 2.73 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 9 | 2.73 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 9 | 2.73 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 9 | 2.73 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 20 | 2.73 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 20 | 2.73 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 20 | 2.73 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 19 | 2.73 |
| (1,6138) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 13 | 2.73 |
| (1,6138) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 13 | 2.73 |
| (1,6138) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 13 | 2.73 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 10 | 2.73 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 10 | 2.73 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 10 | 2.73 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 10 | 2.73 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 10 | 2.73 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 10 | 2.73 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 10 | 2.73 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 10 | 2.73 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 10 | 2.73 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 14 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 14 | 2.73 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 14 | 2.73 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 14 | 2.73 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 14 | 2.73 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 14 | 2.73 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 14 | 2.73 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 14 | 2.73 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 14 | 2.73 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 13 | 2.73 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 7 | 2.73 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 5 | 2.73 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 13 | 2.73 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 13 | 2.73 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 13 | 2.73 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 11 | 2.73 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 1 | 2.73 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 1 | 2.73 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 5 | 2.73 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 3 | 2.73 |
| (1,5962) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 13 | 2.73 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 16 | 2.73 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 16 | 2.73 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 16 | 2.73 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 11 | 2.73 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 2 | 2.73 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 2 | 2.73 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 2 | 2.73 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 11 | 2.73 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 2 | 2.73 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 7 | 2.73 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 7 | 2.73 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 7 | 2.73 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 6 | 2.73 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 6 | 2.73 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 7 | 2.73 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 4 | 2.73 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 7 | 2.73 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 15 | 2.73 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 4 | 2.73 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 5 | 2.73 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 18 | 2.73 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 10 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 7 | 2.73 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 10 | 2.73 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 11 | 2.73 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 17 | 2.73 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 17 | 2.73 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 17 | 2.73 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 1 | 2.73 |
| (1,5330) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 7 | 2.73 |
| (1,5330) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 7 | 2.73 |
| (1,5330) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 7 | 2.73 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 1 | 2.73 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 14 | 2.73 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 13 | 2.73 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 4 | 2.73 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 5 | 2.73 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 19 | 2.73 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 10 | 2.73 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 10 | 2.73 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 10 | 2.73 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 19 | 2.73 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 19 | 2.73 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 19 | 2.73 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 9 | 2.73 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 9 | 2.73 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 9 | 2.73 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 2 | 2.73 |
| (1,4991) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 19 | 2.73 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 4 | 2.73 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 13 | 2.73 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 7 | 2.73 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 7 | 2.73 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 7 | 2.73 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 13 | 2.73 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 17 | 2.73 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 19 | 2.73 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 19 | 2.73 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 19 | 2.73 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 3 | 2.73 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 6 | 2.73 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 10 | 2.73 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 13 | 2.73 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 15 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 13 | 2.73 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 10 | 2.73 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 10 | 2.73 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 11 | 2.73 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 11 | 2.73 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 7 | 2.73 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 7 | 2.73 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 7 | 2.73 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 6 | 2.73 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 6 | 2.73 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 8 | 2.73 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 19 | 2.73 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 6 | 2.73 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 6 | 2.73 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 6 | 2.73 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 6 | 2.73 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 6 | 2.73 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 6 | 2.73 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 2 | 2.73 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 2 | 2.73 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 2 | 2.73 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 11 | 2.73 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 11 | 2.73 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 11 | 2.73 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 11 | 2.73 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 11 | 2.73 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 11 | 2.73 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 16 | 2.73 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 16 | 2.73 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 16 | 2.73 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 16 | 2.73 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 16 | 2.73 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 16 | 2.73 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 11 | 2.73 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 11 | 2.73 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 11 | 2.73 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 11 | 2.73 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 15 | 2.73 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 15 | 2.73 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 15 | 2.73 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 3 | 2.73 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 18 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 18 | 2.73 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 18 | 2.73 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 18 | 2.73 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 15 | 2.73 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 16 | 2.73 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 16 | 2.73 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 2.73 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 2.73 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 2.73 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 20 | 2.73 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 20 | 2.73 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 20 | 2.73 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 11 | 2.73 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 11 | 2.73 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 14 | 2.73 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 14 | 2.73 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 19 | 2.73 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 19 | 2.73 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 19 | 2.73 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 19 | 2.73 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 20 | 2.73 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 20 | 2.73 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 20 | 2.73 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 20 | 2.73 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 4 | 2.73 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 4 | 2.73 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 2 | 2.73 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 14 | 2.73 |
| (1,3763) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 14 | 2.73 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 14 | 2.73 |
| (1,3763) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 14 | 2.73 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 6 | 2.73 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 6 | 2.73 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 12 | 2.73 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 12 | 2.73 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 12 | 2.73 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 12 | 2.73 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 13 | 2.73 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 13 | 2.73 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 7 | 2.73 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 7 | 2.73 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 2 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 2 | 2.73 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 10 | 2.73 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 10 | 2.73 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 5 | 2.73 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 5 | 2.73 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 5 | 2.73 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 5 | 2.73 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 5 | 2.73 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 5 | 2.73 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 1 | 2.73 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 1 | 2.73 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 2 | 2.73 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 2 | 2.73 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 15 | 2.73 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 15 | 2.73 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 18 | 2.73 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 18 | 2.73 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 7 | 2.73 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 7 | 2.73 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 19 | 2.73 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 6 | 2.73 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 19 | 2.73 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 14 | 2.73 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 12 | 2.73 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 16 | 2.73 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 16 | 2.73 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 11 | 2.73 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 11 | 2.73 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 11 | 2.73 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 15 | 2.73 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 15 | 2.73 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 15 | 2.73 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 17 | 2.73 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 17 | 2.73 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 17 | 2.73 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 4 | 2.73 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 5 | 2.73 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 1 | 2.73 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 1 | 2.73 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 5 | 2.73 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 17 | 2.73 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 20 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 1 | 2.73 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 6 | 2.73 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 6 | 2.73 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 8 | 2.73 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 19 | 2.73 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 19 | 2.73 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 19 | 2.73 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 8 | 2.73 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 8 | 2.73 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 8 | 2.73 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 1 | 2.73 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 5 | 2.73 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 8 | 2.73 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 17 | 2.73 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 4 | 2.73 |
| (1,2802) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 15 | 2.73 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 17 | 2.73 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 17 | 2.73 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 17 | 2.73 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 17 | 2.73 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 17 | 2.73 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 17 | 2.73 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 17 | 2.73 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 3 | 2.73 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 10 | 2.73 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 12 | 2.73 |
| (1,2548) | 1:14:A:ARG:H | 1:15:A:MET:H | 20 | 2.73 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 7 | 2.73 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 10 | 2.73 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 12 | 2.73 |
| (1,2382) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 12 | 2.73 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 12 | 2.73 |
| (1,2382) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 12 | 2.73 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 12 | 2.73 |
| (1,2382) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 12 | 2.73 |
| (1,2354) | 1:7:A:LEU:H | 1:7:A:LEU:HA | 8 | 2.73 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 7 | 2.73 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 19 | 2.73 |
| (1,2294) | 1:4:A:GLU:H | 1:4:A:GLU:HA | 13 | 2.73 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 7 | 2.73 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 10 | 2.73 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 7 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 1 | 2.73 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 2 | 2.73 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 2 | 2.73 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 2 | 2.73 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 2 | 2.73 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 16 | 2.73 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 13 | 2.73 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 5 | 2.73 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 7 | 2.73 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 7 | 2.73 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 7 | 2.73 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 13 | 2.73 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 13 | 2.73 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 2 | 2.73 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 2 | 2.73 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 2 | 2.73 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 2 | 2.73 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 2 | 2.73 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 2 | 2.73 |
| (1,1916) | 1:147:A:SER:H | 1:147:A:SER:HA | 13 | 2.73 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 8 | 2.73 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 8 | 2.73 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 8 | 2.73 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 4 | 2.73 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 4 | 2.73 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 4 | 2.73 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 7 | 2.73 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 7 | 2.73 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 7 | 2.73 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 17 | 2.73 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 17 | 2.73 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 19 | 2.73 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 19 | 2.73 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 1 | 2.73 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 8 | 2.73 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 12 | 2.73 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 12 | 2.73 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 3 | 2.73 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 3 | 2.73 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 3 | 2.73 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 20 | 2.73 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 20 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 20 | 2.73 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 11 | 2.73 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 15 | 2.73 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 9 | 2.73 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 9 | 2.73 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 9 | 2.73 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 20 | 2.73 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 20 | 2.73 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 20 | 2.73 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 19 | 2.73 |
| (1,1730) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 13 | 2.73 |
| (1,1730) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 13 | 2.73 |
| (1,1730) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 13 | 2.73 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 10 | 2.73 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 10 | 2.73 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 10 | 2.73 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 10 | 2.73 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 10 | 2.73 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 10 | 2.73 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 10 | 2.73 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 10 | 2.73 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 10 | 2.73 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 14 | 2.73 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 14 | 2.73 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 14 | 2.73 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 14 | 2.73 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 14 | 2.73 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 14 | 2.73 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 14 | 2.73 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 14 | 2.73 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 14 | 2.73 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 13 | 2.73 |
| (1,1652) | 1:137:A:ALA:H | 1:137:A:ALA:HA | 3 | 2.73 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 7 | 2.73 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 5 | 2.73 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 11 | 2.73 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 1 | 2.73 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 1 | 2.73 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 1 | 2.73 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 20 | 2.73 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 6 | 2.73 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 12 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 16 | 2.73 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 18 | 2.73 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 19 | 2.73 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 1 | 2.73 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 1 | 2.73 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 5 | 2.73 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 8 | 2.73 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 3 | 2.73 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 5 | 2.73 |
| (1,1408) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 13 | 2.73 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 16 | 2.73 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 16 | 2.73 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 16 | 2.73 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 11 | 2.73 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 6 | 2.73 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 6 | 2.73 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 6 | 2.73 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 12 | 2.73 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 15 | 2.73 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 12 | 2.73 |
| (1,1186) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 19 | 2.73 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 2 | 2.73 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 2 | 2.73 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 2 | 2.73 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 11 | 2.73 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 2 | 2.73 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 7 | 2.73 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 7 | 2.73 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 7 | 2.73 |
| (1,1156) | 1:116:A:ALA:H | 1:116:A:ALA:HA | 8 | 2.73 |
| (1,1140) | 1:115:A:SER:H | 1:115:A:SER:HA | 12 | 2.73 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 6 | 2.73 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 6 | 2.73 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 7 | 2.73 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 2 | 2.73 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 6 | 2.73 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 4 | 2.73 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 6 | 2.73 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 11 | 2.73 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 7 | 2.73 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 15 | 2.73 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 4 | 2.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 5 | 2.73 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 18 | 2.73 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 14 | 2.73 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 6 | 2.73 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 7 | 2.73 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 16 | 2.73 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 10 | 2.73 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 11 | 2.73 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 17 | 2.73 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 10 | 2.73 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 10 | 2.73 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 10 | 2.73 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 19 | 2.73 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 19 | 2.73 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 19 | 2.73 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 9 | 2.73 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 9 | 2.73 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 9 | 2.73 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 9 | 2.73 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 9 | 2.73 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 9 | 2.73 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 15 | 2.73 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 3 | 2.73 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 10 | 2.73 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 10 | 2.73 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 18 | 2.73 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 18 | 2.73 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 18 | 2.73 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 5 | 2.73 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 1 | 2.73 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 15 | 2.73 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 13 | 2.73 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 16 | 2.73 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 16 | 2.73 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 16 | 2.73 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 17 | 2.73 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 12 | 2.73 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 19 | 2.72 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 6 | 2.72 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 19 | 2.72 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 19 | 2.72 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 7 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 7 | 2.72 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 7 | 2.72 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 7 | 2.72 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 7 | 2.72 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 7 | 2.72 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 16 | 2.72 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 16 | 2.72 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 6 | 2.72 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 6 | 2.72 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 6 | 2.72 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 6 | 2.72 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 6 | 2.72 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 6 | 2.72 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 4 | 2.72 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 4 | 2.72 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 7 | 2.72 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 7 | 2.72 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 20 | 2.72 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 20 | 2.72 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 20 | 2.72 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 20 | 2.72 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 7 | 2.72 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 7 | 2.72 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 12 | 2.72 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 12 | 2.72 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 19 | 2.72 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 19 | 2.72 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 19 | 2.72 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 19 | 2.72 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 2 | 2.72 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 2 | 2.72 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 17 | 2.72 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 17 | 2.72 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 11 | 2.72 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 11 | 2.72 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 10 | 2.72 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 10 | 2.72 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 10 | 2.72 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 10 | 2.72 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 10 | 2.72 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 10 | 2.72 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 10 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 10 | 2.72 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 8 | 2.72 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 8 | 2.72 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 1 | 2.72 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 1 | 2.72 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 1 | 2.72 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 1 | 2.72 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 2 | 2.72 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 2 | 2.72 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 13 | 2.72 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 13 | 2.72 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 13 | 2.72 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 13 | 2.72 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 13 | 2.72 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 13 | 2.72 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 8 | 2.72 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 8 | 2.72 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 11 | 2.72 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 11 | 2.72 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 14 | 2.72 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 14 | 2.72 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 9 | 2.72 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 9 | 2.72 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 9 | 2.72 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 9 | 2.72 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 12 | 2.72 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 12 | 2.72 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 18 | 2.72 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 18 | 2.72 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 18 | 2.72 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 18 | 2.72 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 18 | 2.72 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 18 | 2.72 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 17 | 2.72 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 17 | 2.72 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 17 | 2.72 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 17 | 2.72 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 17 | 2.72 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 17 | 2.72 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 17 | 2.72 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 17 | 2.72 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 17 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 5 | 2.72 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 5 | 2.72 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 19 | 2.72 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 7 | 2.72 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 7 | 2.72 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 7 | 2.72 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 7 | 2.72 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 7 | 2.72 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 7 | 2.72 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 7 | 2.72 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 7 | 2.72 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 7 | 2.72 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 16 | 2.72 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 16 | 2.72 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 16 | 2.72 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 16 | 2.72 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 16 | 2.72 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 16 | 2.72 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 16 | 2.72 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 16 | 2.72 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 16 | 2.72 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG21 | 14 | 2.72 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG22 | 14 | 2.72 |
| (1,7769) | 1:57:A:CYS:HA | 1:159:A:ILE:HG23 | 14 | 2.72 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 17 | 2.72 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 10 | 2.72 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE1 | 18 | 2.72 |
| (1,7505) | 1:13:A:LYS:H | 1:24:A:TYR:HE2 | 18 | 2.72 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 15 | 2.72 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 2 | 2.72 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 8 | 2.72 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 12 | 2.72 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 12 | 2.72 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 12 | 2.72 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 18 | 2.72 |
| (1,7207) | 1:153:A:ASP:H | 1:155:A:GLY:H | 20 | 2.72 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 19 | 2.72 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 13 | 2.72 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 18 | 2.72 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 18 | 2.72 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 18 | 2.72 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 20 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 20 | 2.72 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 15 | 2.72 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 10 | 2.72 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 16 | 2.72 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 13 | 2.72 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 18 | 2.72 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 18 | 2.72 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 18 | 2.72 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 18 | 2.72 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 18 | 2.72 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 18 | 2.72 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 3 | 2.72 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 3 | 2.72 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 18 | 2.72 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 14 | 2.72 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 12 | 2.72 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 13 | 2.72 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 16 | 2.72 |
| (1,6594) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 18 | 2.72 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 1 | 2.72 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 8 | 2.72 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 5 | 2.72 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 5 | 2.72 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 5 | 2.72 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 12 | 2.72 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 12 | 2.72 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 12 | 2.72 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 1 | 2.72 |
| (1,6503) | 1:6:A:LYS:H | 1:7:A:LEU:H | 12 | 2.72 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 3 | 2.72 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 5 | 2.72 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 5 | 2.72 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 5 | 2.72 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 6 | 2.72 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 6 | 2.72 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 6 | 2.72 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 6 | 2.72 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 6 | 2.72 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 6 | 2.72 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 6 | 2.72 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 6 | 2.72 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 6 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 2 | 2.72 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 16 | 2.72 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 16 | 2.72 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 16 | 2.72 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 18 | 2.72 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 18 | 2.72 |
| (1,6296) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 18 | 2.72 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 1 | 2.72 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 1 | 2.72 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 1 | 2.72 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 20 | 2.72 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 20 | 2.72 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 20 | 2.72 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 20 | 2.72 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 20 | 2.72 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 20 | 2.72 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 20 | 2.72 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 20 | 2.72 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 20 | 2.72 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 2 | 2.72 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 8 | 2.72 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 13 | 2.72 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 10 | 2.72 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 5 | 2.72 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 18 | 2.72 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 18 | 2.72 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 7 | 2.72 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 9 | 2.72 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 14 | 2.72 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 17 | 2.72 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 12 | 2.72 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 13 | 2.72 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 6 | 2.72 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 6 | 2.72 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 10 | 2.72 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 10 | 2.72 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 6 | 2.72 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 6 | 2.72 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 13 | 2.72 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 13 | 2.72 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 13 | 2.72 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 13 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 13 | 2.72 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 13 | 2.72 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 1 | 2.72 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 10 | 2.72 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 10 | 2.72 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 10 | 2.72 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 1 | 2.72 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 17 | 2.72 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 9 | 2.72 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 17 | 2.72 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 17 | 2.72 |
| (1,5614) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 17 | 2.72 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 9 | 2.72 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 3 | 2.72 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 6 | 2.72 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 15 | 2.72 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 1 | 2.72 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 13 | 2.72 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 13 | 2.72 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 13 | 2.72 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 13 | 2.72 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 13 | 2.72 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 13 | 2.72 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 13 | 2.72 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 13 | 2.72 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 13 | 2.72 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 17 | 2.72 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 8 | 2.72 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 17 | 2.72 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 14 | 2.72 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 6 | 2.72 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 15 | 2.72 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 6 | 2.72 |
| (1,5270) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 6 | 2.72 |
| (1,5270) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 6 | 2.72 |
| (1,5270) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 6 | 2.72 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 6 | 2.72 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 5 | 2.72 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 13 | 2.72 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 5 | 2.72 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 11 | 2.72 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 10 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 6 | 2.72 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 18 | 2.72 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 2 | 2.72 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 2 | 2.72 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 3 | 2.72 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 14 | 2.72 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 14 | 2.72 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 14 | 2.72 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 12 | 2.72 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 12 | 2.72 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 12 | 2.72 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 2 | 2.72 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 2 | 2.72 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 2 | 2.72 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 20 | 2.72 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 20 | 2.72 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 20 | 2.72 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 20 | 2.72 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 20 | 2.72 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 20 | 2.72 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 20 | 2.72 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 20 | 2.72 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 20 | 2.72 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 9 | 2.72 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 14 | 2.72 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 11 | 2.72 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 17 | 2.72 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 20 | 2.72 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 14 | 2.72 |
| (1,4697) | 1:55:A:VAL:H | 1:125:A:PHE:H | 17 | 2.72 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 17 | 2.72 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 17 | 2.72 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 17 | 2.72 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 11 | 2.72 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 6 | 2.72 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 6 | 2.72 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 8 | 2.72 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 8 | 2.72 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 7 | 2.72 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 7 | 2.72 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 7 | 2.72 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 7 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 7 | 2.72 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 7 | 2.72 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 1 | 2.72 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 1 | 2.72 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 1 | 2.72 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 1 | 2.72 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 1 | 2.72 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 1 | 2.72 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 16 | 2.72 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 16 | 2.72 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 3 | 2.72 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 3 | 2.72 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 3 | 2.72 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 11 | 2.72 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 11 | 2.72 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 11 | 2.72 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 1 | 2.72 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 6 | 2.72 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 6 | 2.72 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 6 | 2.72 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 6 | 2.72 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 6 | 2.72 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 6 | 2.72 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 4 | 2.72 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 4 | 2.72 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 7 | 2.72 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 7 | 2.72 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 4 | 2.72 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 4 | 2.72 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 14 | 2.72 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 14 | 2.72 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 13 | 2.72 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 13 | 2.72 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 13 | 2.72 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 13 | 2.72 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 13 | 2.72 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 10 | 2.72 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 12 | 2.72 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 12 | 2.72 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 19 | 2.72 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 19 | 2.72 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 19 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 19 | 2.72 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 2 | 2.72 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 2 | 2.72 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 19 | 2.72 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 19 | 2.72 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 19 | 2.72 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 17 | 2.72 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 17 | 2.72 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 2 | 2.72 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 2 | 2.72 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 16 | 2.72 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 16 | 2.72 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 7 | 2.72 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 11 | 2.72 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 11 | 2.72 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 10 | 2.72 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 10 | 2.72 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 10 | 2.72 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 10 | 2.72 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 12 | 2.72 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 12 | 2.72 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 12 | 2.72 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 15 | 2.72 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 15 | 2.72 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 15 | 2.72 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 15 | 2.72 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 12 | 2.72 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 12 | 2.72 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 12 | 2.72 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 3 | 2.72 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 3 | 2.72 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 3 | 2.72 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 3 | 2.72 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 3 | 2.72 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 3 | 2.72 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 17 | 2.72 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 17 | 2.72 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 17 | 2.72 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 10 | 2.72 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 10 | 2.72 |
| (1,4017) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 2 | 2.72 |
| (1,4010) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 17 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 4 | 2.72 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 9 | 2.72 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 7 | 2.72 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 7 | 2.72 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 2 | 2.72 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 2 | 2.72 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 2 | 2.72 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 15 | 2.72 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 15 | 2.72 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 18 | 2.72 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 18 | 2.72 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 2 | 2.72 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 10 | 2.72 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 10 | 2.72 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 10 | 2.72 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 10 | 2.72 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 10 | 2.72 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 10 | 2.72 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 4 | 2.72 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 4 | 2.72 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 4 | 2.72 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 4 | 2.72 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 4 | 2.72 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 4 | 2.72 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 8 | 2.72 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 8 | 2.72 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 5 | 2.72 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 5 | 2.72 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 5 | 2.72 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 5 | 2.72 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 16 | 2.72 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 16 | 2.72 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 16 | 2.72 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 16 | 2.72 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 2 | 2.72 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 2 | 2.72 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 18 | 2.72 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 13 | 2.72 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 13 | 2.72 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 13 | 2.72 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 13 | 2.72 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 13 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 13 | 2.72 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.72 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.72 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.72 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 11 | 2.72 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 11 | 2.72 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 9 | 2.72 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 9 | 2.72 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 6 | 2.72 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 6 | 2.72 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 9 | 2.72 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 9 | 2.72 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 1 | 2.72 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 1 | 2.72 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 8 | 2.72 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 8 | 2.72 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 14 | 2.72 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 14 | 2.72 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 8 | 2.72 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 8 | 2.72 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 8 | 2.72 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 8 | 2.72 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 9 | 2.72 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 9 | 2.72 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 9 | 2.72 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 9 | 2.72 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 12 | 2.72 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 12 | 2.72 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 12 | 2.72 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 14 | 2.72 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 14 | 2.72 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 14 | 2.72 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 18 | 2.72 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 18 | 2.72 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 1 | 2.72 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 3 | 2.72 |
| (1,3368) | 1:153:A:ASP:H | 1:155:A:GLY:H | 20 | 2.72 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 7 | 2.72 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 13 | 2.72 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 18 | 2.72 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 18 | 2.72 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 18 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 20 | 2.72 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 20 | 2.72 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 6 | 2.72 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 13 | 2.72 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 10 | 2.72 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 2 | 2.72 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 6 | 2.72 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 13 | 2.72 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 9 | 2.72 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 9 | 2.72 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 9 | 2.72 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 10 | 2.72 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 16 | 2.72 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 1 | 2.72 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 13 | 2.72 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 18 | 2.72 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 18 | 2.72 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 18 | 2.72 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 18 | 2.72 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 18 | 2.72 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 18 | 2.72 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 4 | 2.72 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 4 | 2.72 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 4 | 2.72 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 4 | 2.72 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 4 | 2.72 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 4 | 2.72 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 3 | 2.72 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 3 | 2.72 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 17 | 2.72 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 17 | 2.72 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 18 | 2.72 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 4 | 2.72 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 12 | 2.72 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 13 | 2.72 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 16 | 2.72 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 1 | 2.72 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 8 | 2.72 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 9 | 2.72 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 5 | 2.72 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 5 | 2.72 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 5 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 18 | 2.72 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 12 | 2.72 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 12 | 2.72 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 12 | 2.72 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 1 | 2.72 |
| (1,2340) | 1:6:A:LYS:H | 1:7:A:LEU:H | 12 | 2.72 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 1 | 2.72 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 4 | 2.72 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 10 | 2.72 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 8 | 2.72 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 2 | 2.72 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 2 | 2.72 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 2 | 2.72 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 3 | 2.72 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 11 | 2.72 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 12 | 2.72 |
| (1,2104) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 4 | 2.72 |
| (1,2104) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 4 | 2.72 |
| (1,2104) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 4 | 2.72 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 12 | 2.72 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 12 | 2.72 |
| (1,2080) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 12 | 2.72 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 2 | 2.72 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 9 | 2.72 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 18 | 2.72 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 19 | 2.72 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 16 | 2.72 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 16 | 2.72 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 16 | 2.72 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 18 | 2.72 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 18 | 2.72 |
| (1,1968) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 18 | 2.72 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 1 | 2.72 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 1 | 2.72 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 1 | 2.72 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 20 | 2.72 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 20 | 2.72 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 20 | 2.72 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 20 | 2.72 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 20 | 2.72 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 20 | 2.72 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 20 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 20 | 2.72 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 20 | 2.72 |
| (1,1879) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 5 | 2.72 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 2 | 2.72 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 15 | 2.72 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 15 | 2.72 |
| (1,1826) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 15 | 2.72 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 1 | 2.72 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 1 | 2.72 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 1 | 2.72 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 13 | 2.72 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 18 | 2.72 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 18 | 2.72 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 10 | 2.72 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 10 | 2.72 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 16 | 2.72 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 16 | 2.72 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 16 | 2.72 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 18 | 2.72 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 18 | 2.72 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 7 | 2.72 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 9 | 2.72 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 14 | 2.72 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 17 | 2.72 |
| (1,1642) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 15 | 2.72 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 12 | 2.72 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 13 | 2.72 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 9 | 2.72 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 14 | 2.72 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 15 | 2.72 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 6 | 2.72 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 6 | 2.72 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 10 | 2.72 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 10 | 2.72 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 10 | 2.72 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 15 | 2.72 |
| (1,1398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 2 | 2.72 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 6 | 2.72 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 6 | 2.72 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 13 | 2.72 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 13 | 2.72 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 13 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 13 | 2.72 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 13 | 2.72 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 13 | 2.72 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 1 | 2.72 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 13 | 2.72 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 5 | 2.72 |
| (1,1222) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 18 | 2.72 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 10 | 2.72 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 10 | 2.72 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 10 | 2.72 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 1 | 2.72 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 17 | 2.72 |
| (1,966) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 11 | 2.72 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 9 | 2.72 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 8 | 2.72 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 8 | 2.72 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 8 | 2.72 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 17 | 2.72 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 17 | 2.72 |
| (1,808) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 17 | 2.72 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 9 | 2.72 |
| (1,712) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 5 | 2.72 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 1 | 2.72 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 13 | 2.72 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 13 | 2.72 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 13 | 2.72 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 13 | 2.72 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 13 | 2.72 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 13 | 2.72 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 13 | 2.72 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 13 | 2.72 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 13 | 2.72 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 17 | 2.72 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 17 | 2.72 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 8 | 2.72 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 8 | 2.72 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 8 | 2.72 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 8 | 2.72 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 8 | 2.72 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 8 | 2.72 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 8 | 2.72 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 14 | 2.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 6 | 2.72 |
| (1,530) | 1:93:A:ILE:H | 1:93:A:ILE:HA | 4 | 2.72 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 13 | 2.72 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 13 | 2.72 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 13 | 2.72 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 13 | 2.72 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 13 | 2.72 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 13 | 2.72 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 7 | 2.72 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 7 | 2.72 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 7 | 2.72 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 7 | 2.72 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 7 | 2.72 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 7 | 2.72 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 4 | 2.72 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 4 | 2.72 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 4 | 2.72 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 20 | 2.72 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 20 | 2.72 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 20 | 2.72 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 4 | 2.72 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 3 | 2.72 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 3 | 2.72 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 3 | 2.72 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 12 | 2.72 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 12 | 2.72 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 10 | 2.72 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 10 | 2.72 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 10 | 2.72 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 4 | 2.72 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 4 | 2.72 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 4 | 2.72 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 9 | 2.72 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 9 | 2.72 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 9 | 2.72 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 10 | 2.72 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 10 | 2.72 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 10 | 2.72 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 5 | 2.72 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 6 | 2.71 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 1 | 2.71 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 12 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 20 | 2.71 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 12 | 2.71 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 9 | 2.71 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 9 | 2.71 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 14 | 2.71 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 14 | 2.71 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 14 | 2.71 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 14 | 2.71 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 14 | 2.71 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 14 | 2.71 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 14 | 2.71 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 14 | 2.71 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 14 | 2.71 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 14 | 2.71 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 14 | 2.71 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 14 | 2.71 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 9 | 2.71 |
| (1,9399) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 9 | 2.71 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 5 | 2.71 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 5 | 2.71 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 5 | 2.71 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 5 | 2.71 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 12 | 2.71 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 12 | 2.71 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 10 | 2.71 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 10 | 2.71 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 10 | 2.71 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 10 | 2.71 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 15 | 2.71 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 15 | 2.71 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 15 | 2.71 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 15 | 2.71 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 20 | 2.71 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 20 | 2.71 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 20 | 2.71 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 20 | 2.71 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 16 | 2.71 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 16 | 2.71 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 16 | 2.71 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 16 | 2.71 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 16 | 2.71 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 16 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 3 | 2.71 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 3 | 2.71 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 3 | 2.71 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 3 | 2.71 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 3 | 2.71 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 3 | 2.71 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 2.71 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 2.71 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 6 | 2.71 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 6 | 2.71 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 6 | 2.71 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 6 | 2.71 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 16 | 2.71 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 16 | 2.71 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 16 | 2.71 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 16 | 2.71 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 16 | 2.71 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 16 | 2.71 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 12 | 2.71 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 12 | 2.71 |
| (1,8990) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 12 | 2.71 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 12 | 2.71 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 12 | 2.71 |
| (1,8990) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 12 | 2.71 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 1 | 2.71 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 1 | 2.71 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 16 | 2.71 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 16 | 2.71 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 7 | 2.71 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 7 | 2.71 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 7 | 2.71 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 7 | 2.71 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 8 | 2.71 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 8 | 2.71 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 8 | 2.71 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 8 | 2.71 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 8 | 2.71 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 8 | 2.71 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 17 | 2.71 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 17 | 2.71 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 17 | 2.71 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 17 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 15 | 2.71 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 15 | 2.71 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 18 | 2.71 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 18 | 2.71 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 18 | 2.71 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 18 | 2.71 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 8 | 2.71 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 8 | 2.71 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 8 | 2.71 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 8 | 2.71 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 18 | 2.71 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 18 | 2.71 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 15 | 2.71 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 15 | 2.71 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 7 | 2.71 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 7 | 2.71 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 7 | 2.71 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 7 | 2.71 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 7 | 2.71 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 7 | 2.71 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 12 | 2.71 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 12 | 2.71 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 4 | 2.71 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 11 | 2.71 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 2 | 2.71 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 2 | 2.71 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 2 | 2.71 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 2 | 2.71 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 2 | 2.71 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 2 | 2.71 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 11 | 2.71 |
| (1,8049) | 1:88:A:LEU:HB3 | 1:89:A:ILE:H | 3 | 2.71 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 17 | 2.71 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 1 | 2.71 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 10 | 2.71 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 10 | 2.71 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 10 | 2.71 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 10 | 2.71 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 10 | 2.71 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 10 | 2.71 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 10 | 2.71 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 10 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 10 | 2.71 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 16 | 2.71 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 19 | 2.71 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 19 | 2.71 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 19 | 2.71 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 19 | 2.71 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 19 | 2.71 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 19 | 2.71 |
| (1,7185) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 14 | 2.71 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 16 | 2.71 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 18 | 2.71 |
| (1,7064) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 7 | 2.71 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 3 | 2.71 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 9 | 2.71 |
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 13 | 2.71 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 13 | 2.71 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 13 | 2.71 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 3 | 2.71 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 4 | 2.71 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 13 | 2.71 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 13 | 2.71 |
| (1,6822) | 1:26:A:ASN:H | 1:31:A:ALA:H | 10 | 2.71 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 6 | 2.71 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 6 | 2.71 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 6 | 2.71 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 6 | 2.71 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 4 | 2.71 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 14 | 2.71 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 4 | 2.71 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 9 | 2.71 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 11 | 2.71 |
| (1,6585) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 2 | 2.71 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 17 | 2.71 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 6 | 2.71 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 6 | 2.71 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 6 | 2.71 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 3 | 2.71 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 3 | 2.71 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 3 | 2.71 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 18 | 2.71 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 17 | 2.71 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 17 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 17 | 2.71 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 19 | 2.71 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 19 | 2.71 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 19 | 2.71 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 19 | 2.71 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 19 | 2.71 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 19 | 2.71 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 19 | 2.71 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 19 | 2.71 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 19 | 2.71 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 10 | 2.71 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 10 | 2.71 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 10 | 2.71 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 10 | 2.71 |
| (1,6268) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 5 | 2.71 |
| (1,6268) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 5 | 2.71 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 13 | 2.71 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 13 | 2.71 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 13 | 2.71 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 15 | 2.71 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 6 | 2.71 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 20 | 2.71 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 11 | 2.71 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 13 | 2.71 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 9 | 2.71 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 2 | 2.71 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 10 | 2.71 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 10 | 2.71 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 9 | 2.71 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 14 | 2.71 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 8 | 2.71 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 15 | 2.71 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 9 | 2.71 |
| (1,5626) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 1 | 2.71 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 5 | 2.71 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 14 | 2.71 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 14 | 2.71 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 14 | 2.71 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 14 | 2.71 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 14 | 2.71 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 14 | 2.71 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 14 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 14 | 2.71 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 14 | 2.71 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 5 | 2.71 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 11 | 2.71 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 11 | 2.71 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 11 | 2.71 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 15 | 2.71 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 7 | 2.71 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 18 | 2.71 |
| (1,5375) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 5 | 2.71 |
| (1,5375) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 5 | 2.71 |
| (1,5375) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 5 | 2.71 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 8 | 2.71 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 14 | 2.71 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 19 | 2.71 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 5 | 2.71 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 5 | 2.71 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 5 | 2.71 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 9 | 2.71 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 9 | 2.71 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 9 | 2.71 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 16 | 2.71 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 13 | 2.71 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 9 | 2.71 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 9 | 2.71 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 9 | 2.71 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 3 | 2.71 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 3 | 2.71 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 3 | 2.71 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 3 | 2.71 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 3 | 2.71 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 3 | 2.71 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 3 | 2.71 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 3 | 2.71 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 3 | 2.71 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 14 | 2.71 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 16 | 2.71 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 16 | 2.71 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 16 | 2.71 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 12 | 2.71 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 12 | 2.71 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 12 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 12 | 2.71 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 20 | 2.71 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 20 | 2.71 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 2 | 2.71 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 2 | 2.71 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 2 | 2.71 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 15 | 2.71 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 15 | 2.71 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 18 | 2.71 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 18 | 2.71 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 5 | 2.71 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 5 | 2.71 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 5 | 2.71 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 2 | 2.71 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 2 | 2.71 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 20 | 2.71 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 20 | 2.71 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 19 | 2.71 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 19 | 2.71 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 19 | 2.71 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 2 | 2.71 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 2 | 2.71 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 14 | 2.71 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 14 | 2.71 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 14 | 2.71 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 14 | 2.71 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 14 | 2.71 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 14 | 2.71 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 1 | 2.71 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 12 | 2.71 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 12 | 2.71 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 5 | 2.71 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 5 | 2.71 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 12 | 2.71 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 12 | 2.71 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 12 | 2.71 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 12 | 2.71 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 12 | 2.71 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 15 | 2.71 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 16 | 2.71 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 16 | 2.71 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 16 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 16 | 2.71 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 10 | 2.71 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 10 | 2.71 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 10 | 2.71 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 10 | 2.71 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 12 | 2.71 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 11 | 2.71 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 11 | 2.71 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 11 | 2.71 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 16 | 2.71 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 16 | 2.71 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 16 | 2.71 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 16 | 2.71 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 16 | 2.71 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 16 | 2.71 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 8 | 2.71 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 8 | 2.71 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 3 | 2.71 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 3 | 2.71 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 3 | 2.71 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 3 | 2.71 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 3 | 2.71 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 3 | 2.71 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 5 | 2.71 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 5 | 2.71 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 8 | 2.71 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 10 | 2.71 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 2.71 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 2.71 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 16 | 2.71 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 16 | 2.71 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 16 | 2.71 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 16 | 2.71 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 16 | 2.71 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 16 | 2.71 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 1 | 2.71 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 1 | 2.71 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 12 | 2.71 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 12 | 2.71 |
| (1,3958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 12 | 2.71 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 12 | 2.71 |
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 12 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 12 | 2.71 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 11 | 2.71 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 1 | 2.71 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 1 | 2.71 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 16 | 2.71 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 16 | 2.71 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 4 | 2.71 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 15 | 2.71 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 9 | 2.71 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 9 | 2.71 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 8 | 2.71 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 8 | 2.71 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 8 | 2.71 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 8 | 2.71 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 8 | 2.71 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 8 | 2.71 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 20 | 2.71 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 20 | 2.71 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 15 | 2.71 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 15 | 2.71 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 8 | 2.71 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 16 | 2.71 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 16 | 2.71 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 7 | 2.71 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 7 | 2.71 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 7 | 2.71 |
| (1,3742) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 14 | 2.71 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 10 | 2.71 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 10 | 2.71 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 7 | 2.71 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 7 | 2.71 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 17 | 2.71 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 17 | 2.71 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 12 | 2.71 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 12 | 2.71 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 17 | 2.71 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 17 | 2.71 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 13 | 2.71 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 13 | 2.71 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 13 | 2.71 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 12 | 2.71 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 2 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 2 | 2.71 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 2 | 2.71 |
| (1,3330) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 14 | 2.71 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 18 | 2.71 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 7 | 2.71 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 16 | 2.71 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 16 | 2.71 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 16 | 2.71 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 18 | 2.71 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 12 | 2.71 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 3 | 2.71 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 3 | 2.71 |
| (1,3112) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 7 | 2.71 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 12 | 2.71 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 15 | 2.71 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 12 | 2.71 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 9 | 2.71 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 3 | 2.71 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 9 | 2.71 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 20 | 2.71 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 13 | 2.71 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 13 | 2.71 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 13 | 2.71 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 3 | 2.71 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 19 | 2.71 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 15 | 2.71 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 15 | 2.71 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 15 | 2.71 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 4 | 2.71 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 13 | 2.71 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 13 | 2.71 |
| (1,2806) | 1:26:A:ASN:H | 1:31:A:ALA:H | 10 | 2.71 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 9 | 2.71 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 9 | 2.71 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 4 | 2.71 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 10 | 2.71 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 17 | 2.71 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 17 | 2.71 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 4 | 2.71 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 4 | 2.71 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 11 | 2.71 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 19 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2444) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 2 | 2.71 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 17 | 2.71 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 12 | 2.71 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 6 | 2.71 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 6 | 2.71 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 6 | 2.71 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 1 | 2.71 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 11 | 2.71 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 16 | 2.71 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 16 | 2.71 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 16 | 2.71 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 19 | 2.71 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 7 | 2.71 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 7 | 2.71 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 7 | 2.71 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 3 | 2.71 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 3 | 2.71 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 3 | 2.71 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 18 | 2.71 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 17 | 2.71 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 17 | 2.71 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 17 | 2.71 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 14 | 2.71 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 16 | 2.71 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 19 | 2.71 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 19 | 2.71 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 19 | 2.71 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 19 | 2.71 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 19 | 2.71 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 19 | 2.71 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 19 | 2.71 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 19 | 2.71 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 19 | 2.71 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 10 | 2.71 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 10 | 2.71 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 10 | 2.71 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 10 | 2.71 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 5 | 2.71 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 5 | 2.71 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 5 | 2.71 |
| (1,1926) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 5 | 2.71 |
| (1,1926) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 5 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 11 | 2.71 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 11 | 2.71 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 15 | 2.71 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 6 | 2.71 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 20 | 2.71 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 11 | 2.71 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 8 | 2.71 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 13 | 2.71 |
| (1,1628) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 15 | 2.71 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 3 | 2.71 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 7 | 2.71 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 11 | 2.71 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 5 | 2.71 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 5 | 2.71 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 5 | 2.71 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 2 | 2.71 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 2 | 2.71 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 7 | 2.71 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 8 | 2.71 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 16 | 2.71 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 5 | 2.71 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 10 | 2.71 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 10 | 2.71 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 10 | 2.71 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 10 | 2.71 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 10 | 2.71 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 18 | 2.71 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 18 | 2.71 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 18 | 2.71 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 9 | 2.71 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 19 | 2.71 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 14 | 2.71 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 16 | 2.71 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 11 | 2.71 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 8 | 2.71 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 18 | 2.71 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 18 | 2.71 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 18 | 2.71 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 1 | 2.71 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 1 | 2.71 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 1 | 2.71 |
| (1,942) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 19 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 19 | 2.71 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 19 | 2.71 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 19 | 2.71 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 19 | 2.71 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 9 | 2.71 |
| (1,836) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 1 | 2.71 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 5 | 2.71 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 16 | 2.71 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 16 | 2.71 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 17 | 2.71 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 14 | 2.71 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 14 | 2.71 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 14 | 2.71 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 14 | 2.71 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 14 | 2.71 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 14 | 2.71 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 14 | 2.71 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 14 | 2.71 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 14 | 2.71 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 5 | 2.71 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 11 | 2.71 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 11 | 2.71 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 11 | 2.71 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 8 | 2.71 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 11 | 2.71 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 2 | 2.71 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 15 | 2.71 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 7 | 2.71 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 19 | 2.71 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 19 | 2.71 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 19 | 2.71 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 9 | 2.71 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 9 | 2.71 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 9 | 2.71 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 9 | 2.71 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 9 | 2.71 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 9 | 2.71 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 9 | 2.71 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 9 | 2.71 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 9 | 2.71 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 8 | 2.71 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 8 | 2.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 11 | 2.71 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 11 | 2.71 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 11 | 2.71 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 15 | 2.71 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 15 | 2.71 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 15 | 2.71 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 15 | 2.71 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 15 | 2.71 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 15 | 2.71 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 15 | 2.71 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 15 | 2.71 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 15 | 2.71 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 10 | 2.71 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 10 | 2.71 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 17 | 2.71 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 17 | 2.71 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 18 | 2.71 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 14 | 2.71 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 20 | 2.7 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 2 | 2.7 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 9 | 2.7 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 4 | 2.7 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 8 | 2.7 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 8 | 2.7 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 8 | 2.7 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 8 | 2.7 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 7 | 2.7 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 7 | 2.7 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 4 | 2.7 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 4 | 2.7 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 8 | 2.7 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 8 | 2.7 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 8 | 2.7 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 8 | 2.7 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 8 | 2.7 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 8 | 2.7 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 15 | 2.7 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 15 | 2.7 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 15 | 2.7 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 15 | 2.7 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 15 | 2.7 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 15 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 8 | 2.7 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 8 | 2.7 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 20 | 2.7 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 20 | 2.7 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 2.7 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 2.7 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 15 | 2.7 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 15 | 2.7 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 15 | 2.7 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 15 | 2.7 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 2 | 2.7 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 2 | 2.7 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 14 | 2.7 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 14 | 2.7 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 2.7 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 2.7 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 2.7 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 2.7 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 2.7 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 2.7 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 18 | 2.7 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 18 | 2.7 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 18 | 2.7 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 18 | 2.7 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 4 | 2.7 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 4 | 2.7 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 3 | 2.7 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 3 | 2.7 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 17 | 2.7 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 17 | 2.7 |
| (1,8913) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 4 | 2.7 |
| (1,8913) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 4 | 2.7 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 4 | 2.7 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 4 | 2.7 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 4 | 2.7 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 4 | 2.7 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 6 | 2.7 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 6 | 2.7 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 6 | 2.7 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 6 | 2.7 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 15 | 2.7 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 15 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 15 | 2.7 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 15 | 2.7 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 15 | 2.7 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 15 | 2.7 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 7 | 2.7 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 7 | 2.7 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 8 | 2.7 |
| (1,8716) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 8 | 2.7 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 8 | 2.7 |
| (1,8716) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 8 | 2.7 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 18 | 2.7 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 18 | 2.7 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 18 | 2.7 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 18 | 2.7 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 5 | 2.7 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 5 | 2.7 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 7 | 2.7 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 7 | 2.7 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 7 | 2.7 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 7 | 2.7 |
| (1,8264) | 1:119:A:ARG:HB2 | 1:121:A:ASP:H | 13 | 2.7 |
| (1,8264) | 1:119:A:ARG:HB3 | 1:121:A:ASP:H | 13 | 2.7 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 18 | 2.7 |
| (1,8125) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 13 | 2.7 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 10 | 2.7 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 15 | 2.7 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 1 | 2.7 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 7 | 2.7 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 2 | 2.7 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 2 | 2.7 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 2 | 2.7 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 7 | 2.7 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 7 | 2.7 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 5 | 2.7 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 15 | 2.7 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 7 | 2.7 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 1 | 2.7 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 1 | 2.7 |
| (1,7167) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 1 | 2.7 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 20 | 2.7 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 7 | 2.7 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 7 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 9 | 2.7 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 9 | 2.7 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 9 | 2.7 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 8 | 2.7 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 3 | 2.7 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 5 | 2.7 |
| (1,6852) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 11 | 2.7 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 4 | 2.7 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 10 | 2.7 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 2 | 2.7 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 10 | 2.7 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 18 | 2.7 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 2 | 2.7 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 9 | 2.7 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 19 | 2.7 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 7 | 2.7 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 16 | 2.7 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 13 | 2.7 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 10 | 2.7 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 10 | 2.7 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 13 | 2.7 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 11 | 2.7 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 7 | 2.7 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 7 | 2.7 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 7 | 2.7 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 12 | 2.7 |
| (1,6466) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 18 | 2.7 |
| (1,6466) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 18 | 2.7 |
| (1,6466) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 18 | 2.7 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 10 | 2.7 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 10 | 2.7 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 10 | 2.7 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 5 | 2.7 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 5 | 2.7 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 19 | 2.7 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 20 | 2.7 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 4 | 2.7 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 7 | 2.7 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 7 | 2.7 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 7 | 2.7 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 7 | 2.7 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 7 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 7 | 2.7 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 7 | 2.7 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 7 | 2.7 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 7 | 2.7 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 11 | 2.7 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 11 | 2.7 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 11 | 2.7 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 11 | 2.7 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 11 | 2.7 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 11 | 2.7 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 11 | 2.7 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 11 | 2.7 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 11 | 2.7 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 19 | 2.7 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 3 | 2.7 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 3 | 2.7 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 3 | 2.7 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 18 | 2.7 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 5 | 2.7 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 12 | 2.7 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 6 | 2.7 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 12 | 2.7 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 12 | 2.7 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 14 | 2.7 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 12 | 2.7 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 2 | 2.7 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 8 | 2.7 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 8 | 2.7 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 8 | 2.7 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 13 | 2.7 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 14 | 2.7 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 14 | 2.7 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 1 | 2.7 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 14 | 2.7 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 15 | 2.7 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 1 | 2.7 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 3 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 3 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 13 | 2.7 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 13 | 2.7 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 10 | 2.7 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 6 | 2.7 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 8 | 2.7 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 19 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 13 | 2.7 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 13 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 6 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5430) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 6 | 2.7 |
| (1,5430) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 6 | 2.7 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 19 | 2.7 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 19 | 2.7 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 19 | 2.7 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 19 | 2.7 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 19 | 2.7 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 19 | 2.7 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 19 | 2.7 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 19 | 2.7 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 19 | 2.7 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 19 | 2.7 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 19 | 2.7 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 19 | 2.7 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 20 | 2.7 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 20 | 2.7 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 20 | 2.7 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 14 | 2.7 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 8 | 2.7 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 1 | 2.7 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 1 | 2.7 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 13 | 2.7 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 1 | 2.7 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 1 | 2.7 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 1 | 2.7 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 1 | 2.7 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 14 | 2.7 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 14 | 2.7 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 14 | 2.7 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 20 | 2.7 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 14 | 2.7 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 18 | 2.7 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 7 | 2.7 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 13 | 2.7 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 13 | 2.7 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 6 | 2.7 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 6 | 2.7 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 6 | 2.7 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 7 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 7 | 2.7 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 7 | 2.7 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 16 | 2.7 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 13 | 2.7 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 14 | 2.7 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 5 | 2.7 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 20 | 2.7 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 16 | 2.7 |
| (1,4631) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 16 | 2.7 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 7 | 2.7 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 7 | 2.7 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 9 | 2.7 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 11 | 2.7 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 12 | 2.7 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 12 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 1 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 1 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 1 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 1 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 1 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 1 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 17 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 17 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 17 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 17 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 17 | 2.7 |
| (1,4527) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 17 | 2.7 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 15 | 2.7 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 15 | 2.7 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 15 | 2.7 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 15 | 2.7 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 15 | 2.7 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 15 | 2.7 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 2 | 2.7 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 8 | 2.7 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 8 | 2.7 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 4 | 2.7 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 4 | 2.7 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 8 | 2.7 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 8 | 2.7 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 10 | 2.7 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 10 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 11 | 2.7 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 11 | 2.7 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 20 | 2.7 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 20 | 2.7 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 2.7 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 2.7 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 15 | 2.7 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 1 | 2.7 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 1 | 2.7 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 14 | 2.7 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 14 | 2.7 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 13 | 2.7 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 13 | 2.7 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 20 | 2.7 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 20 | 2.7 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 1 | 2.7 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 3 | 2.7 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 4 | 2.7 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 4 | 2.7 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 14 | 2.7 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 14 | 2.7 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 5 | 2.7 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 5 | 2.7 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 19 | 2.7 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 19 | 2.7 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 2.7 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 2.7 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 2.7 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 2.7 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 2.7 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 2.7 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 18 | 2.7 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 18 | 2.7 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 18 | 2.7 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 18 | 2.7 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 12 | 2.7 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 12 | 2.7 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 12 | 2.7 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 4 | 2.7 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 4 | 2.7 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 16 | 2.7 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 6 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 5 | 2.7 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 5 | 2.7 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 5 | 2.7 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 5 | 2.7 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 5 | 2.7 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 5 | 2.7 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 3 | 2.7 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 3 | 2.7 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 17 | 2.7 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 17 | 2.7 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 7 | 2.7 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 16 | 2.7 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 15 | 2.7 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 15 | 2.7 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 4 | 2.7 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 4 | 2.7 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 4 | 2.7 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 4 | 2.7 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 15 | 2.7 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 15 | 2.7 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 15 | 2.7 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 15 | 2.7 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 15 | 2.7 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 15 | 2.7 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 8 | 2.7 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 8 | 2.7 |
| (1,3801) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 8 | 2.7 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 8 | 2.7 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 8 | 2.7 |
| (1,3801) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 8 | 2.7 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 9 | 2.7 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 9 | 2.7 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 7 | 2.7 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 7 | 2.7 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 2 | 2.7 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 10 | 2.7 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 10 | 2.7 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 10 | 2.7 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 10 | 2.7 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 10 | 2.7 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 10 | 2.7 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 8 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 8 | 2.7 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 8 | 2.7 |
| (1,3678) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 8 | 2.7 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 8 | 2.7 |
| (1,3678) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 8 | 2.7 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 18 | 2.7 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 18 | 2.7 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 8 | 2.7 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 8 | 2.7 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 8 | 2.7 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 8 | 2.7 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 20 | 2.7 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 20 | 2.7 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 13 | 2.7 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 13 | 2.7 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 13 | 2.7 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 13 | 2.7 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 13 | 2.7 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 13 | 2.7 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 7 | 2.7 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 7 | 2.7 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 10 | 2.7 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 10 | 2.7 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 14 | 2.7 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 14 | 2.7 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 16 | 2.7 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 7 | 2.7 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 17 | 2.7 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 17 | 2.7 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 17 | 2.7 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 7 | 2.7 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 19 | 2.7 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 7 | 2.7 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 1 | 2.7 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 1 | 2.7 |
| (1,3282) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 1 | 2.7 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 20 | 2.7 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 7 | 2.7 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 5 | 2.7 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 5 | 2.7 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 9 | 2.7 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 9 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 9 | 2.7 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 8 | 2.7 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 3 | 2.7 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 4 | 2.7 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 14 | 2.7 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 6 | 2.7 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 5 | 2.7 |
| (1,2838) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 11 | 2.7 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 4 | 2.7 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 10 | 2.7 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 2 | 2.7 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 10 | 2.7 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 18 | 2.7 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 1 | 2.7 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 1 | 2.7 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 8 | 2.7 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 8 | 2.7 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 10 | 2.7 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 10 | 2.7 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 19 | 2.7 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 13 | 2.7 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 13 | 2.7 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 11 | 2.7 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 11 | 2.7 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 7 | 2.7 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 16 | 2.7 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 17 | 2.7 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 17 | 2.7 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 17 | 2.7 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 19 | 2.7 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 19 | 2.7 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 19 | 2.7 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 10 | 2.7 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 10 | 2.7 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 9 | 2.7 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 13 | 2.7 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 4 | 2.7 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 11 | 2.7 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 7 | 2.7 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 3 | 2.7 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 10 | 2.7 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 19 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 11 | 2.7 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 13 | 2.7 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 8 | 2.7 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 5 | 2.7 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 18 | 2.7 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 12 | 2.7 |
| (1,2226) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 18 | 2.7 |
| (1,2226) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 18 | 2.7 |
| (1,2226) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 18 | 2.7 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 10 | 2.7 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 10 | 2.7 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 10 | 2.7 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 1 | 2.7 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 1 | 2.7 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 1 | 2.7 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 1 | 2.7 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 1 | 2.7 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 1 | 2.7 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 1 | 2.7 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 1 | 2.7 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 1 | 2.7 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 15 | 2.7 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 11 | 2.7 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 9 | 2.7 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 9 | 2.7 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 9 | 2.7 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 7 | 2.7 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 7 | 2.7 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 7 | 2.7 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 1 | 2.7 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 1 | 2.7 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 1 | 2.7 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 6 | 2.7 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 6 | 2.7 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 6 | 2.7 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 11 | 2.7 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 11 | 2.7 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 11 | 2.7 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 11 | 2.7 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 11 | 2.7 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 11 | 2.7 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 14 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 13 | 2.7 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 10 | 2.7 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 10 | 2.7 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 10 | 2.7 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 5 | 2.7 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 5 | 2.7 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 9 | 2.7 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 9 | 2.7 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 9 | 2.7 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 19 | 2.7 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 10 | 2.7 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 10 | 2.7 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 10 | 2.7 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 16 | 2.7 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 16 | 2.7 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 16 | 2.7 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 14 | 2.7 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 20 | 2.7 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 5 | 2.7 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 6 | 2.7 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 17 | 2.7 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 20 | 2.7 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 12 | 2.7 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 12 | 2.7 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 4 | 2.7 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 7 | 2.7 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 7 | 2.7 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 7 | 2.7 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 7 | 2.7 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 7 | 2.7 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 7 | 2.7 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 7 | 2.7 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 7 | 2.7 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 7 | 2.7 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 6 | 2.7 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 6 | 2.7 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 6 | 2.7 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 11 | 2.7 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 11 | 2.7 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 11 | 2.7 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 11 | 2.7 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 11 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 11 | 2.7 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 11 | 2.7 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 11 | 2.7 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 11 | 2.7 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 19 | 2.7 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 11 | 2.7 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 11 | 2.7 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 11 | 2.7 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 18 | 2.7 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 12 | 2.7 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 12 | 2.7 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 12 | 2.7 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 2 | 2.7 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 5 | 2.7 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 12 | 2.7 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 18 | 2.7 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 18 | 2.7 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 6 | 2.7 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 12 | 2.7 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 7 | 2.7 |
| (1,1388) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 10 | 2.7 |
| (1,1374) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 14 | 2.7 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 12 | 2.7 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 12 | 2.7 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 14 | 2.7 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 9 | 2.7 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 9 | 2.7 |
| (1,1286) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 9 | 2.7 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 12 | 2.7 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 2 | 2.7 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 8 | 2.7 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 8 | 2.7 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 8 | 2.7 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 13 | 2.7 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 14 | 2.7 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 14 | 2.7 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 1 | 2.7 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 14 | 2.7 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 7 | 2.7 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 7 | 2.7 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 7 | 2.7 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 17 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 17 | 2.7 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 9 | 2.7 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 15 | 2.7 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 1 | 2.7 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 14 | 2.7 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 13 | 2.7 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 8 | 2.7 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 10 | 2.7 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 6 | 2.7 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 8 | 2.7 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 19 | 2.7 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 4 | 2.7 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 16 | 2.7 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 16 | 2.7 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 16 | 2.7 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 4 | 2.7 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 19 | 2.7 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 19 | 2.7 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 19 | 2.7 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 19 | 2.7 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 19 | 2.7 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 19 | 2.7 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 19 | 2.7 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 8 | 2.7 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 10 | 2.7 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 20 | 2.7 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 6 | 2.7 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 6 | 2.7 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 6 | 2.7 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 19 | 2.7 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 5 | 2.7 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 5 | 2.7 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 5 | 2.7 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 5 | 2.7 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 5 | 2.7 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 5 | 2.7 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 5 | 2.7 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 5 | 2.7 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 5 | 2.7 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 7 | 2.7 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 11 | 2.69 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 6 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 9 | 2.69 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 9 | 2.69 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 20 | 2.69 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 15 | 2.69 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 15 | 2.69 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 19 | 2.69 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 19 | 2.69 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 19 | 2.69 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 19 | 2.69 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 19 | 2.69 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 19 | 2.69 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 1 | 2.69 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 1 | 2.69 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 1 | 2.69 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 1 | 2.69 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 13 | 2.69 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 13 | 2.69 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 14 | 2.69 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 14 | 2.69 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 16 | 2.69 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 16 | 2.69 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 7 | 2.69 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 7 | 2.69 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 7 | 2.69 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 7 | 2.69 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 12 | 2.69 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 12 | 2.69 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 13 | 2.69 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 13 | 2.69 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 2 | 2.69 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 2 | 2.69 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 2 | 2.69 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 2 | 2.69 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 7 | 2.69 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 7 | 2.69 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 16 | 2.69 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 16 | 2.69 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 15 | 2.69 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 15 | 2.69 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 3 | 2.69 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 3 | 2.69 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 3 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 3 | 2.69 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 6 | 2.69 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 6 | 2.69 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 6 | 2.69 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 6 | 2.69 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 3 | 2.69 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 3 | 2.69 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 3 | 2.69 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 3 | 2.69 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 3 | 2.69 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 3 | 2.69 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 18 | 2.69 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 18 | 2.69 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 18 | 2.69 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 18 | 2.69 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 18 | 2.69 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 18 | 2.69 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 5 | 2.69 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 5 | 2.69 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 4 | 2.69 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 4 | 2.69 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 16 | 2.69 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 16 | 2.69 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 17 | 2.69 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 17 | 2.69 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 9 | 2.69 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 9 | 2.69 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 7 | 2.69 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 7 | 2.69 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 16 | 2.69 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 16 | 2.69 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 11 | 2.69 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 11 | 2.69 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 6 | 2.69 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 6 | 2.69 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 14 | 2.69 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 17 | 2.69 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 2 | 2.69 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 10 | 2.69 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 10 | 2.69 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 19 | 2.69 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 19 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 19 | 2.69 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 19 | 2.69 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 19 | 2.69 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 19 | 2.69 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 19 | 2.69 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 19 | 2.69 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 19 | 2.69 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 4 | 2.69 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 12 | 2.69 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 12 | 2.69 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 9 | 2.69 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 8 | 2.69 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 8 | 2.69 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 16 | 2.69 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 16 | 2.69 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 5 | 2.69 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 5 | 2.69 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 5 | 2.69 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 5 | 2.69 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 5 | 2.69 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 5 | 2.69 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 20 | 2.69 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 20 | 2.69 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 18 | 2.69 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 8 | 2.69 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 8 | 2.69 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 16 | 2.69 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 16 | 2.69 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 7 | 2.69 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 17 | 2.69 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 3 | 2.69 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 3 | 2.69 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 5 | 2.69 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 5 | 2.69 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 13 | 2.69 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 13 | 2.69 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 10 | 2.69 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 9 | 2.69 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 9 | 2.69 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 9 | 2.69 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 17 | 2.69 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 19 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 6 | 2.69 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 12 | 2.69 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 18 | 2.69 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 18 | 2.69 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 7 | 2.69 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 5 | 2.69 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 1 | 2.69 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 14 | 2.69 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 3 | 2.69 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 3 | 2.69 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 3 | 2.69 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 6 | 2.69 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 14 | 2.69 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 14 | 2.69 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 14 | 2.69 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 7 | 2.69 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 7 | 2.69 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 7 | 2.69 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 7 | 2.69 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 7 | 2.69 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 7 | 2.69 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 7 | 2.69 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 7 | 2.69 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 7 | 2.69 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 1 | 2.69 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 1 | 2.69 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 1 | 2.69 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 1 | 2.69 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 1 | 2.69 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 1 | 2.69 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 1 | 2.69 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 1 | 2.69 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 1 | 2.69 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 19 | 2.69 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 15 | 2.69 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 12 | 2.69 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 18 | 2.69 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 5 | 2.69 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 18 | 2.69 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 7 | 2.69 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 7 | 2.69 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 15 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 15 | 2.69 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 15 | 2.69 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 15 | 2.69 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 15 | 2.69 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 15 | 2.69 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 15 | 2.69 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 15 | 2.69 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 15 | 2.69 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 13 | 2.69 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 13 | 2.69 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 17 | 2.69 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 17 | 2.69 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 17 | 2.69 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 17 | 2.69 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 17 | 2.69 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 17 | 2.69 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 17 | 2.69 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 17 | 2.69 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 17 | 2.69 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 11 | 2.69 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 11 | 2.69 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 13 | 2.69 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 13 | 2.69 |
| (1,6043) | 1:134:A:PHE:H | 1:136:A:ASP:H | 2 | 2.69 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 7 | 2.69 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 9 | 2.69 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 9 | 2.69 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 5 | 2.69 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 5 | 2.69 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 6 | 2.69 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 8 | 2.69 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 2 | 2.69 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 2 | 2.69 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 2 | 2.69 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 10 | 2.69 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 4 | 2.69 |
| (1,5825) | 1:118:A:ALA:H | 1:119:A:ARG:H | 4 | 2.69 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 12 | 2.69 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 8 | 2.69 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 14 | 2.69 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 1 | 2.69 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 14 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 17 | 2.69 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 1 | 2.69 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 1 | 2.69 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 1 | 2.69 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 16 | 2.69 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 18 | 2.69 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 11 | 2.69 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 11 | 2.69 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 11 | 2.69 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 11 | 2.69 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 11 | 2.69 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 11 | 2.69 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 11 | 2.69 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 11 | 2.69 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 11 | 2.69 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 1 | 2.69 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 14 | 2.69 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 2 | 2.69 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 2 | 2.69 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 2 | 2.69 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 2 | 2.69 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 2 | 2.69 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 2 | 2.69 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 2 | 2.69 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 2 | 2.69 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 2 | 2.69 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 3 | 2.69 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 5 | 2.69 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 5 | 2.69 |
| (1,5365) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 5 | 2.69 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 11 | 2.69 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 11 | 2.69 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 11 | 2.69 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 10 | 2.69 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 6 | 2.69 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 18 | 2.69 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 1 | 2.69 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 16 | 2.69 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 16 | 2.69 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 16 | 2.69 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 11 | 2.69 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 11 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 11 | 2.69 |
| (1,5199) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 2 | 2.69 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 7 | 2.69 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 12 | 2.69 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 15 | 2.69 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 15 | 2.69 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 15 | 2.69 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 15 | 2.69 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 16 | 2.69 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 16 | 2.69 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 16 | 2.69 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 20 | 2.69 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 20 | 2.69 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 20 | 2.69 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 1 | 2.69 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 17 | 2.69 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 8 | 2.69 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 13 | 2.69 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 13 | 2.69 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 13 | 2.69 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 1 | 2.69 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 1 | 2.69 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 1 | 2.69 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 1 | 2.69 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 1 | 2.69 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 1 | 2.69 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 8 | 2.69 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 9 | 2.69 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 9 | 2.69 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 9 | 2.69 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 7 | 2.69 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 12 | 2.69 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 11 | 2.69 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 11 | 2.69 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 11 | 2.69 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 17 | 2.69 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 2 | 2.69 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 2 | 2.69 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 4 | 2.69 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 4 | 2.69 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 15 | 2.69 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 15 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 19 | 2.69 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 19 | 2.69 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 19 | 2.69 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 19 | 2.69 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 19 | 2.69 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 19 | 2.69 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 18 | 2.69 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 18 | 2.69 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 15 | 2.69 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 15 | 2.69 |
| (1,4559) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 15 | 2.69 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 4 | 2.69 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 4 | 2.69 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 4 | 2.69 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 4 | 2.69 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 4 | 2.69 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 4 | 2.69 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 11 | 2.69 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 16 | 2.69 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 16 | 2.69 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 7 | 2.69 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 7 | 2.69 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 7 | 2.69 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 13 | 2.69 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 13 | 2.69 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 14 | 2.69 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 14 | 2.69 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 8 | 2.69 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 8 | 2.69 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 8 | 2.69 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 8 | 2.69 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 8 | 2.69 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 8 | 2.69 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 16 | 2.69 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 16 | 2.69 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 7 | 2.69 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 7 | 2.69 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 7 | 2.69 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 7 | 2.69 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 7 | 2.69 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 12 | 2.69 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 12 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 13 | 2.69 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 13 | 2.69 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 5 | 2.69 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 1 | 2.69 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 1 | 2.69 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 5 | 2.69 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 5 | 2.69 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 16 | 2.69 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 16 | 2.69 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 17 | 2.69 |
| (1,4352) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 17 | 2.69 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 16 | 2.69 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 7 | 2.69 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 7 | 2.69 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 16 | 2.69 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 16 | 2.69 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 3 | 2.69 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 3 | 2.69 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 3 | 2.69 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 3 | 2.69 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 3 | 2.69 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 3 | 2.69 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 3 | 2.69 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 3 | 2.69 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 17 | 2.69 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 17 | 2.69 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 17 | 2.69 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 17 | 2.69 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 18 | 2.69 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 18 | 2.69 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 18 | 2.69 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 18 | 2.69 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 18 | 2.69 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 18 | 2.69 |
| (1,4114) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 2.69 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 5 | 2.69 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 5 | 2.69 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 13 | 2.69 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 13 | 2.69 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 13 | 2.69 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 13 | 2.69 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 13 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 13 | 2.69 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 4 | 2.69 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 4 | 2.69 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 4 | 2.69 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 4 | 2.69 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 4 | 2.69 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 11 | 2.69 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 11 | 2.69 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 7 | 2.69 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 7 | 2.69 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 7 | 2.69 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 16 | 2.69 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 16 | 2.69 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 1 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 3 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 3 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 3 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 3 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 6 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 6 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 6 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 6 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 9 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 9 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 9 | 2.69 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 9 | 2.69 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 13 | 2.69 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 13 | 2.69 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 8 | 2.69 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 8 | 2.69 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 8 | 2.69 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 8 | 2.69 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 8 | 2.69 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 8 | 2.69 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 14 | 2.69 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 14 | 2.69 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 14 | 2.69 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 14 | 2.69 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 14 | 2.69 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 14 | 2.69 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 12 | 2.69 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 12 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 4 | 2.69 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 7 | 2.69 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 7 | 2.69 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 17 | 2.69 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 17 | 2.69 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 10 | 2.69 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 10 | 2.69 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 13 | 2.69 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 13 | 2.69 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 2.69 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 2.69 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 19 | 2.69 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 19 | 2.69 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 19 | 2.69 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 19 | 2.69 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 19 | 2.69 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 19 | 2.69 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 6 | 2.69 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 6 | 2.69 |
| (1,3414) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 18 | 2.69 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 5 | 2.69 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 5 | 2.69 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 5 | 2.69 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 5 | 2.69 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 5 | 2.69 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 5 | 2.69 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 5 | 2.69 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 5 | 2.69 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 5 | 2.69 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 8 | 2.69 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 8 | 2.69 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 16 | 2.69 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 16 | 2.69 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 7 | 2.69 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 17 | 2.69 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 12 | 2.69 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 3 | 2.69 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 3 | 2.69 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 3 | 2.69 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 3 | 2.69 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 3 | 2.69 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 3 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 5 | 2.69 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 5 | 2.69 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 15 | 2.69 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 8 | 2.69 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 7 | 2.69 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 12 | 2.69 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 14 | 2.69 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 6 | 2.69 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 6 | 2.69 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 10 | 2.69 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 9 | 2.69 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 9 | 2.69 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 9 | 2.69 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 17 | 2.69 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 19 | 2.69 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 6 | 2.69 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 12 | 2.69 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 18 | 2.69 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 18 | 2.69 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 6 | 2.69 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 6 | 2.69 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 6 | 2.69 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 6 | 2.69 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 6 | 2.69 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 6 | 2.69 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 18 | 2.69 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 18 | 2.69 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 1 | 2.69 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 1 | 2.69 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 1 | 2.69 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 7 | 2.69 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 1 | 2.69 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 14 | 2.69 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 5 | 2.69 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 2 | 2.69 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 3 | 2.69 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 3 | 2.69 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 3 | 2.69 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 19 | 2.69 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 18 | 2.69 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 16 | 2.69 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 7 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 17 | 2.69 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 4 | 2.69 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 10 | 2.69 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 7 | 2.69 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 2 | 2.69 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 7 | 2.69 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 11 | 2.69 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 1 | 2.69 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 6 | 2.69 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 15 | 2.69 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 15 | 2.69 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 15 | 2.69 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 6 | 2.69 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 10 | 2.69 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 11 | 2.69 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 14 | 2.69 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 14 | 2.69 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 14 | 2.69 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 7 | 2.69 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 7 | 2.69 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 7 | 2.69 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 7 | 2.69 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 7 | 2.69 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 7 | 2.69 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 7 | 2.69 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 7 | 2.69 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 7 | 2.69 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 1 | 2.69 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 1 | 2.69 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 1 | 2.69 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 1 | 2.69 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 1 | 2.69 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 1 | 2.69 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 1 | 2.69 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 1 | 2.69 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 1 | 2.69 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 19 | 2.69 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 10 | 2.69 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 10 | 2.69 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 10 | 2.69 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 15 | 2.69 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 12 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 8 | 2.69 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 12 | 2.69 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 18 | 2.69 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 19 | 2.69 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 5 | 2.69 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 18 | 2.69 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 7 | 2.69 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 7 | 2.69 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 15 | 2.69 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 15 | 2.69 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 15 | 2.69 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 15 | 2.69 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 15 | 2.69 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 15 | 2.69 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 15 | 2.69 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 15 | 2.69 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 15 | 2.69 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 18 | 2.69 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 13 | 2.69 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 13 | 2.69 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 16 | 2.69 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 16 | 2.69 |
| (1,1699) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 16 | 2.69 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 17 | 2.69 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 17 | 2.69 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 17 | 2.69 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 17 | 2.69 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 17 | 2.69 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 17 | 2.69 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 17 | 2.69 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 17 | 2.69 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 17 | 2.69 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 3 | 2.69 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 11 | 2.69 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 11 | 2.69 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 13 | 2.69 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 13 | 2.69 |
| (1,1592) | 1:134:A:PHE:H | 1:136:A:ASP:H | 2 | 2.69 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 7 | 2.69 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 9 | 2.69 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 9 | 2.69 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 9 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 9 | 2.69 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 9 | 2.69 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 17 | 2.69 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 20 | 2.69 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 5 | 2.69 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 5 | 2.69 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 6 | 2.69 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 8 | 2.69 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 5 | 2.69 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 14 | 2.69 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 18 | 2.69 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 19 | 2.69 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 20 | 2.69 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 2 | 2.69 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 2 | 2.69 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 2 | 2.69 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 10 | 2.69 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 4 | 2.69 |
| (1,1200) | 1:118:A:ALA:H | 1:119:A:ARG:H | 4 | 2.69 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 12 | 2.69 |
| (1,1142) | 1:115:A:SER:HA | 1:116:A:ALA:H | 19 | 2.69 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 8 | 2.69 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 14 | 2.69 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 14 | 2.69 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 14 | 2.69 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 14 | 2.69 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 14 | 2.69 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 17 | 2.69 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 1 | 2.69 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 1 | 2.69 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 1 | 2.69 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 16 | 2.69 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 18 | 2.69 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 10 | 2.69 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 10 | 2.69 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 15 | 2.69 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 15 | 2.69 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 14 | 2.69 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 10 | 2.69 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 10 | 2.69 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 18 | 2.69 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 11 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 11 | 2.69 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 11 | 2.69 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 11 | 2.69 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 11 | 2.69 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 11 | 2.69 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 11 | 2.69 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 11 | 2.69 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 11 | 2.69 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 1 | 2.69 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 14 | 2.69 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 7 | 2.69 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 7 | 2.69 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 7 | 2.69 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 18 | 2.69 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 18 | 2.69 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 18 | 2.69 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 18 | 2.69 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 18 | 2.69 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 18 | 2.69 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 20 | 2.69 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 20 | 2.69 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 20 | 2.69 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 15 | 2.69 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 15 | 2.69 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 15 | 2.69 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 15 | 2.69 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 15 | 2.69 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 15 | 2.69 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 4 | 2.69 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 4 | 2.69 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 4 | 2.69 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 4 | 2.69 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 4 | 2.69 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 4 | 2.69 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 4 | 2.69 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 4 | 2.69 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 4 | 2.69 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 13 | 2.69 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 13 | 2.69 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 13 | 2.69 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 19 | 2.69 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 13 | 2.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 19 | 2.69 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 19 | 2.69 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 5 | 2.69 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 16 | 2.69 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 8 | 2.69 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 8 | 2.69 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 8 | 2.69 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 15 | 2.69 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 4 | 2.68 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 16 | 2.68 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 6 | 2.68 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 11 | 2.68 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 15 | 2.68 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 15 | 2.68 |
| (1,9562) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 15 | 2.68 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 15 | 2.68 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 15 | 2.68 |
| (1,9562) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 15 | 2.68 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 3 | 2.68 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 3 | 2.68 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 3 | 2.68 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 3 | 2.68 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 3 | 2.68 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 3 | 2.68 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 17 | 2.68 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 17 | 2.68 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 17 | 2.68 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 17 | 2.68 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 1 | 2.68 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 1 | 2.68 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 15 | 2.68 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 15 | 2.68 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 19 | 2.68 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 19 | 2.68 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 7 | 2.68 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 7 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 11 | 2.68 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 11 | 2.68 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 14 | 2.68 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 14 | 2.68 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 19 | 2.68 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 19 | 2.68 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 9 | 2.68 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 9 | 2.68 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 4 | 2.68 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 4 | 2.68 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 4 | 2.68 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 4 | 2.68 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 3 | 2.68 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 3 | 2.68 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 9 | 2.68 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 9 | 2.68 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 9 | 2.68 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 9 | 2.68 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 9 | 2.68 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 9 | 2.68 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 1 | 2.68 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 1 | 2.68 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 7 | 2.68 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 7 | 2.68 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 17 | 2.68 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 17 | 2.68 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 17 | 2.68 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 17 | 2.68 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 2 | 2.68 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 2 | 2.68 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 2 | 2.68 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 2 | 2.68 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 2 | 2.68 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 2 | 2.68 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 20 | 2.68 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 20 | 2.68 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 4 | 2.68 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 4 | 2.68 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 4 | 2.68 |
| (1,9131) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 4 | 2.68 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 4 | 2.68 |
| (1,9131) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 4 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 4 | 2.68 |
| (1,9131) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 4 | 2.68 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 2 | 2.68 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 2 | 2.68 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 2 | 2.68 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 2 | 2.68 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 2 | 2.68 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 2 | 2.68 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 10 | 2.68 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 10 | 2.68 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 10 | 2.68 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 10 | 2.68 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 7 | 2.68 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 7 | 2.68 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 12 | 2.68 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 12 | 2.68 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 13 | 2.68 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 13 | 2.68 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 7 | 2.68 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 7 | 2.68 |
| (1,8878) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 17 | 2.68 |
| (1,8878) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 17 | 2.68 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 13 | 2.68 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 13 | 2.68 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 13 | 2.68 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 13 | 2.68 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 3 | 2.68 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 3 | 2.68 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB2 | 10 | 2.68 |
| (1,8853) | 1:60:A:LEU:HD21 | 1:110:A:PHE:HB3 | 10 | 2.68 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB2 | 10 | 2.68 |
| (1,8853) | 1:60:A:LEU:HD22 | 1:110:A:PHE:HB3 | 10 | 2.68 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB2 | 10 | 2.68 |
| (1,8853) | 1:60:A:LEU:HD23 | 1:110:A:PHE:HB3 | 10 | 2.68 |
| (1,8747) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 20 | 2.68 |
| (1,8747) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 20 | 2.68 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 1 | 2.68 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 1 | 2.68 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 7 | 2.68 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 7 | 2.68 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 20 | 2.68 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 20 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 15 | 2.68 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 15 | 2.68 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 15 | 2.68 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 15 | 2.68 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 15 | 2.68 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 15 | 2.68 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 7 | 2.68 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 6 | 2.68 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 2 | 2.68 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 2 | 2.68 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 2 | 2.68 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 13 | 2.68 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 9 | 2.68 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 9 | 2.68 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 9 | 2.68 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 12 | 2.68 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 2 | 2.68 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 3 | 2.68 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 18 | 2.68 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 3 | 2.68 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 11 | 2.68 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 2 | 2.68 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 17 | 2.68 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 17 | 2.68 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 20 | 2.68 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 18 | 2.68 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 16 | 2.68 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 8 | 2.68 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 12 | 2.68 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 5 | 2.68 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 7 | 2.68 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 9 | 2.68 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 3 | 2.68 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 3 | 2.68 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 6 | 2.68 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 6 | 2.68 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 2 | 2.68 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 12 | 2.68 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 14 | 2.68 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 19 | 2.68 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 6 | 2.68 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 2 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 15 | 2.68 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 15 | 2.68 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 14 | 2.68 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 2 | 2.68 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 3 | 2.68 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 16 | 2.68 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 20 | 2.68 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 18 | 2.68 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 18 | 2.68 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 18 | 2.68 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 18 | 2.68 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 18 | 2.68 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 18 | 2.68 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 3 | 2.68 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 3 | 2.68 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 3 | 2.68 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 9 | 2.68 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 2 | 2.68 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 13 | 2.68 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 13 | 2.68 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 13 | 2.68 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 10 | 2.68 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 10 | 2.68 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 10 | 2.68 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 7 | 2.68 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 13 | 2.68 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 11 | 2.68 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 11 | 2.68 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 11 | 2.68 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 7 | 2.68 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 7 | 2.68 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 7 | 2.68 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 16 | 2.68 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 16 | 2.68 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 16 | 2.68 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 14 | 2.68 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 14 | 2.68 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 14 | 2.68 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 5 | 2.68 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 14 | 2.68 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 14 | 2.68 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 14 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 7 | 2.68 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 7 | 2.68 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 7 | 2.68 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 8 | 2.68 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 19 | 2.68 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 19 | 2.68 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 19 | 2.68 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 15 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 15 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 15 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 15 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 15 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 15 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 15 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 15 | 2.68 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 15 | 2.68 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 8 | 2.68 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 8 | 2.68 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 8 | 2.68 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 14 | 2.68 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 14 | 2.68 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 14 | 2.68 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 20 | 2.68 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 20 | 2.68 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 18 | 2.68 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 16 | 2.68 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 16 | 2.68 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 16 | 2.68 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 7 | 2.68 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 11 | 2.68 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 20 | 2.68 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 5 | 2.68 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 16 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 17 | 2.68 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 17 | 2.68 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 14 | 2.68 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 8 | 2.68 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 8 | 2.68 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 16 | 2.68 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 10 | 2.68 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 10 | 2.68 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 10 | 2.68 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 12 | 2.68 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 12 | 2.68 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 16 | 2.68 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 16 | 2.68 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 10 | 2.68 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 6 | 2.68 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 11 | 2.68 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 10 | 2.68 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 16 | 2.68 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 17 | 2.68 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 4 | 2.68 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 13 | 2.68 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 11 | 2.68 |
| (1,5624) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 9 | 2.68 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 20 | 2.68 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 17 | 2.68 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 2 | 2.68 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 8 | 2.68 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 7 | 2.68 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 7 | 2.68 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 7 | 2.68 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 13 | 2.68 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 8 | 2.68 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 2 | 2.68 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 16 | 2.68 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 4 | 2.68 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 4 | 2.68 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 4 | 2.68 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 3 | 2.68 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 13 | 2.68 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 9 | 2.68 |
| (1,5189) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 10 | 2.68 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 19 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 4 | 2.68 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 15 | 2.68 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 18 | 2.68 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 5 | 2.68 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 5 | 2.68 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 12 | 2.68 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 3 | 2.68 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 3 | 2.68 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 3 | 2.68 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 6 | 2.68 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 5 | 2.68 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 5 | 2.68 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 5 | 2.68 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 5 | 2.68 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 5 | 2.68 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 5 | 2.68 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 5 | 2.68 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 5 | 2.68 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 5 | 2.68 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 10 | 2.68 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 15 | 2.68 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 16 | 2.68 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 15 | 2.68 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 15 | 2.68 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 5 | 2.68 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 5 | 2.68 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 9 | 2.68 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 15 | 2.68 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 15 | 2.68 |
| (1,4558) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 15 | 2.68 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 15 | 2.68 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 15 | 2.68 |
| (1,4558) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 15 | 2.68 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 18 | 2.68 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 18 | 2.68 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 18 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 18 | 2.68 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 18 | 2.68 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 18 | 2.68 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 3 | 2.68 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 3 | 2.68 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 3 | 2.68 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 3 | 2.68 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 3 | 2.68 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 3 | 2.68 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 19 | 2.68 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 1 | 2.68 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 1 | 2.68 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 19 | 2.68 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 19 | 2.68 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 7 | 2.68 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 7 | 2.68 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 11 | 2.68 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 11 | 2.68 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 14 | 2.68 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 14 | 2.68 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 19 | 2.68 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 19 | 2.68 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 9 | 2.68 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 9 | 2.68 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 9 | 2.68 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 9 | 2.68 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 9 | 2.68 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 9 | 2.68 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 7 | 2.68 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 7 | 2.68 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 7 | 2.68 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 7 | 2.68 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 3 | 2.68 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 3 | 2.68 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 2 | 2.68 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 2 | 2.68 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 2 | 2.68 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 2 | 2.68 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 2 | 2.68 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 2 | 2.68 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 6 | 2.68 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 6 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 3 | 2.68 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 3 | 2.68 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 3 | 2.68 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 3 | 2.68 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 4 | 2.68 |
| (1,4100) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 4 | 2.68 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 4 | 2.68 |
| (1,4100) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 4 | 2.68 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 4 | 2.68 |
| (1,4100) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 4 | 2.68 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 13 | 2.68 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 13 | 2.68 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 13 | 2.68 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 18 | 2.68 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 10 | 2.68 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 10 | 2.68 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 10 | 2.68 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 10 | 2.68 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 7 | 2.68 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 7 | 2.68 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 12 | 2.68 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 12 | 2.68 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 9 | 2.68 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 9 | 2.68 |
| (1,3836) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 17 | 2.68 |
| (1,3836) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 17 | 2.68 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 5 | 2.68 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 5 | 2.68 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 18 | 2.68 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 18 | 2.68 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 18 | 2.68 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 12 | 2.68 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 12 | 2.68 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 12 | 2.68 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 12 | 2.68 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 12 | 2.68 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 12 | 2.68 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 2.68 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 2.68 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 2.68 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 13 | 2.68 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 13 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 13 | 2.68 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 13 | 2.68 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 13 | 2.68 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 14 | 2.68 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 14 | 2.68 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 14 | 2.68 |
| (1,3714) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 20 | 2.68 |
| (1,3714) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 20 | 2.68 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 2 | 2.68 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 2 | 2.68 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 2 | 2.68 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 2 | 2.68 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 1 | 2.68 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 1 | 2.68 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 8 | 2.68 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 17 | 2.68 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 17 | 2.68 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 9 | 2.68 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 9 | 2.68 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 7 | 2.68 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 7 | 2.68 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 16 | 2.68 |
| (1,3606) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 16 | 2.68 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 16 | 2.68 |
| (1,3606) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 16 | 2.68 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 19 | 2.68 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 19 | 2.68 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 17 | 2.68 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 17 | 2.68 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 8 | 2.68 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 8 | 2.68 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 8 | 2.68 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 15 | 2.68 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 15 | 2.68 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 12 | 2.68 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 12 | 2.68 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 12 | 2.68 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 12 | 2.68 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 12 | 2.68 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 12 | 2.68 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 2 | 2.68 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 2 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 2 | 2.68 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 15 | 2.68 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 15 | 2.68 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 15 | 2.68 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 7 | 2.68 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 7 | 2.68 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 7 | 2.68 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 7 | 2.68 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 7 | 2.68 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 7 | 2.68 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 10 | 2.68 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 10 | 2.68 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 7 | 2.68 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 7 | 2.68 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 17 | 2.68 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 17 | 2.68 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 17 | 2.68 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 20 | 2.68 |
| (1,3456) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 6 | 2.68 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 14 | 2.68 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 11 | 2.68 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 9 | 2.68 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 6 | 2.68 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 6 | 2.68 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 12 | 2.68 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 12 | 2.68 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 12 | 2.68 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 10 | 2.68 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 18 | 2.68 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 2 | 2.68 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 11 | 2.68 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 1 | 2.68 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 1 | 2.68 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 2 | 2.68 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 12 | 2.68 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 18 | 2.68 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 14 | 2.68 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 19 | 2.68 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 3 | 2.68 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 6 | 2.68 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 2 | 2.68 |
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 6 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2738) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 6 | 2.68 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 6 | 2.68 |
| (1,2738) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 6 | 2.68 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 6 | 2.68 |
| (1,2738) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 6 | 2.68 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 15 | 2.68 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 15 | 2.68 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 4 | 2.68 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 14 | 2.68 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 2 | 2.68 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 3 | 2.68 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 16 | 2.68 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 20 | 2.68 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 17 | 2.68 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 17 | 2.68 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 17 | 2.68 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 18 | 2.68 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 18 | 2.68 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 18 | 2.68 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 18 | 2.68 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 18 | 2.68 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 18 | 2.68 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 10 | 2.68 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 3 | 2.68 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 3 | 2.68 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 3 | 2.68 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 2 | 2.68 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 13 | 2.68 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 13 | 2.68 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 13 | 2.68 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 19 | 2.68 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 7 | 2.68 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 6 | 2.68 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 13 | 2.68 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 5 | 2.68 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 2 | 2.68 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 15 | 2.68 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 14 | 2.68 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 14 | 2.68 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 14 | 2.68 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 7 | 2.68 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 7 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 7 | 2.68 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 16 | 2.68 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 16 | 2.68 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 16 | 2.68 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 7 | 2.68 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 7 | 2.68 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 7 | 2.68 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 3 | 2.68 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 3 | 2.68 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 3 | 2.68 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 9 | 2.68 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 7 | 2.68 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 19 | 2.68 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 2 | 2.68 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 14 | 2.68 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 14 | 2.68 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 14 | 2.68 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 5 | 2.68 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 14 | 2.68 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 14 | 2.68 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 14 | 2.68 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 7 | 2.68 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 7 | 2.68 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 7 | 2.68 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 8 | 2.68 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 19 | 2.68 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 19 | 2.68 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 19 | 2.68 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 14 | 2.68 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 14 | 2.68 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 14 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 15 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 15 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 15 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 15 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 15 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 15 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 15 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 15 | 2.68 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 15 | 2.68 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 8 | 2.68 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 8 | 2.68 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 8 | 2.68 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 14 | 2.68 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 14 | 2.68 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 14 | 2.68 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 15 | 2.68 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 20 | 2.68 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 20 | 2.68 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 12 | 2.68 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 18 | 2.68 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 13 | 2.68 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 13 | 2.68 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 13 | 2.68 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 19 | 2.68 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 19 | 2.68 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 19 | 2.68 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 7 | 2.68 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 11 | 2.68 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 20 | 2.68 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 5 | 2.68 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 16 | 2.68 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 17 | 2.68 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 17 | 2.68 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 14 | 2.68 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 8 | 2.68 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 8 | 2.68 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 5 | 2.68 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 5 | 2.68 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 5 | 2.68 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 19 | 2.68 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 7 | 2.68 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 7 | 2.68 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 7 | 2.68 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 1 | 2.68 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 10 | 2.68 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 1 | 2.68 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 1 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 6 | 2.68 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 6 | 2.68 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 12 | 2.68 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 12 | 2.68 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 16 | 2.68 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 16 | 2.68 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 6 | 2.68 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 1 | 2.68 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 11 | 2.68 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 11 | 2.68 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 11 | 2.68 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 11 | 2.68 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 11 | 2.68 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 11 | 2.68 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 4 | 2.68 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 20 | 2.68 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 10 | 2.68 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 12 | 2.68 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 13 | 2.68 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 13 | 2.68 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 13 | 2.68 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 13 | 2.68 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 13 | 2.68 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 13 | 2.68 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 6 | 2.68 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 11 | 2.68 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 19 | 2.68 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 14 | 2.68 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 10 | 2.68 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 16 | 2.68 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 17 | 2.68 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 1 | 2.68 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 1 | 2.68 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 1 | 2.68 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 4 | 2.68 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 13 | 2.68 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 14 | 2.68 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 12 | 2.68 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 12 | 2.68 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 12 | 2.68 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 12 | 2.68 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 12 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 12 | 2.68 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 17 | 2.68 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 17 | 2.68 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 17 | 2.68 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 17 | 2.68 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 17 | 2.68 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 17 | 2.68 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 20 | 2.68 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 20 | 2.68 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 20 | 2.68 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 20 | 2.68 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 20 | 2.68 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 20 | 2.68 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 19 | 2.68 |
| (1,832) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 9 | 2.68 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 18 | 2.68 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 20 | 2.68 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 17 | 2.68 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 2 | 2.68 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 10 | 2.68 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 8 | 2.68 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 2 | 2.68 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 2.68 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 3 | 2.68 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 3 | 2.68 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 2 | 2.68 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 6 | 2.68 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 4 | 2.68 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 4 | 2.68 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 4 | 2.68 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 7 | 2.68 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 7 | 2.68 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 7 | 2.68 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 12 | 2.68 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 12 | 2.68 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 12 | 2.68 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 12 | 2.68 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 12 | 2.68 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 12 | 2.68 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 1 | 2.68 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 1 | 2.68 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 1 | 2.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 19 | 2.68 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 17 | 2.68 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 16 | 2.68 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 16 | 2.68 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 16 | 2.68 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 13 | 2.68 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 10 | 2.68 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 10 | 2.68 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 10 | 2.68 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 11 | 2.67 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 9 | 2.67 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 19 | 2.67 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 11 | 2.67 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 11 | 2.67 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 11 | 2.67 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 11 | 2.67 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 11 | 2.67 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 11 | 2.67 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 12 | 2.67 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 12 | 2.67 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB2 | 12 | 2.67 |
| (1,9584) | 1:150:A:VAL:HG11 | 1:157:A:HIS:HB3 | 12 | 2.67 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB2 | 12 | 2.67 |
| (1,9584) | 1:150:A:VAL:HG12 | 1:157:A:HIS:HB3 | 12 | 2.67 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB2 | 12 | 2.67 |
| (1,9584) | 1:150:A:VAL:HG13 | 1:157:A:HIS:HB3 | 12 | 2.67 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 7 | 2.67 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 7 | 2.67 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 19 | 2.67 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 19 | 2.67 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 19 | 2.67 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 19 | 2.67 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 19 | 2.67 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 19 | 2.67 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 8 | 2.67 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 8 | 2.67 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 8 | 2.67 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 8 | 2.67 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 9 | 2.67 |
| (1,9510) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 9 | 2.67 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 13 | 2.67 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 13 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 13 | 2.67 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 13 | 2.67 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 13 | 2.67 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 13 | 2.67 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 18 | 2.67 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 18 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 1 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 1 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 1 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 1 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 1 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 1 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 2 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 2 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 2 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 2 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 2 | 2.67 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 2 | 2.67 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 3 | 2.67 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 3 | 2.67 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 2 | 2.67 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 2 | 2.67 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 6 | 2.67 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 6 | 2.67 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 14 | 2.67 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 14 | 2.67 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 11 | 2.67 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 11 | 2.67 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 9 | 2.67 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 9 | 2.67 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 9 | 2.67 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 9 | 2.67 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 9 | 2.67 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 9 | 2.67 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 15 | 2.67 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 15 | 2.67 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 10 | 2.67 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 10 | 2.67 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 4 | 2.67 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 4 | 2.67 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 16 | 2.67 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 16 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 3 | 2.67 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 3 | 2.67 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 19 | 2.67 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 19 | 2.67 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 12 | 2.67 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 12 | 2.67 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 19 | 2.67 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 19 | 2.67 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 19 | 2.67 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 19 | 2.67 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 19 | 2.67 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 19 | 2.67 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 19 | 2.67 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 19 | 2.67 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 19 | 2.67 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 5 | 2.67 |
| (1,7878) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 20 | 2.67 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 4 | 2.67 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 4 | 2.67 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 4 | 2.67 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 4 | 2.67 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 4 | 2.67 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 4 | 2.67 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 4 | 2.67 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 4 | 2.67 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 4 | 2.67 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 11 | 2.67 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 19 | 2.67 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 19 | 2.67 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 19 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 13 | 2.67 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 15 | 2.67 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 15 | 2.67 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 12 | 2.67 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 18 | 2.67 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 18 | 2.67 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 18 | 2.67 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 6 | 2.67 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 17 | 2.67 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 5 | 2.67 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 5 | 2.67 |
| (1,6854) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 4 | 2.67 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 9 | 2.67 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 9 | 2.67 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 9 | 2.67 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 9 | 2.67 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 5 | 2.67 |
| (1,6770) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 5 | 2.67 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 17 | 2.67 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 17 | 2.67 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 17 | 2.67 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 17 | 2.67 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 10 | 2.67 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 19 | 2.67 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 19 | 2.67 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 19 | 2.67 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 5 | 2.67 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 7 | 2.67 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 16 | 2.67 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 11 | 2.67 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 15 | 2.67 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 5 | 2.67 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 20 | 2.67 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 20 | 2.67 |
| (1,6633) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 18 | 2.67 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 7 | 2.67 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 8 | 2.67 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 20 | 2.67 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 10 | 2.67 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 10 | 2.67 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 10 | 2.67 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 13 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 13 | 2.67 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 13 | 2.67 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 11 | 2.67 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 10 | 2.67 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 11 | 2.67 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 12 | 2.67 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 12 | 2.67 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 12 | 2.67 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 13 | 2.67 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 13 | 2.67 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 13 | 2.67 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 17 | 2.67 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 2 | 2.67 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 2 | 2.67 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 2 | 2.67 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 19 | 2.67 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 16 | 2.67 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 16 | 2.67 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 2 | 2.67 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 2 | 2.67 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 2 | 2.67 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 2 | 2.67 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 2 | 2.67 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 2 | 2.67 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 2 | 2.67 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 2 | 2.67 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 2 | 2.67 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 6 | 2.67 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 6 | 2.67 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 20 | 2.67 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 20 | 2.67 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 20 | 2.67 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 14 | 2.67 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 1 | 2.67 |
| (1,6074) | 1:136:A:ASP:H | 1:137:A:ALA:H | 1 | 2.67 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 6 | 2.67 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 9 | 2.67 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 9 | 2.67 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 18 | 2.67 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 18 | 2.67 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 5 | 2.67 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 15 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 15 | 2.67 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 13 | 2.67 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 13 | 2.67 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 20 | 2.67 |
| (1,5650) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 19 | 2.67 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 20 | 2.67 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 4 | 2.67 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 2.67 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 8 | 2.67 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 3 | 2.67 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 17 | 2.67 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 15 | 2.67 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 4 | 2.67 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 4 | 2.67 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 4 | 2.67 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 4 | 2.67 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 4 | 2.67 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 4 | 2.67 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 4 | 2.67 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 4 | 2.67 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 4 | 2.67 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 6 | 2.67 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 6 | 2.67 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 6 | 2.67 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 2 | 2.67 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 2 | 2.67 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 2 | 2.67 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 2 | 2.67 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 2 | 2.67 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 2 | 2.67 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 2 | 2.67 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 2 | 2.67 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 2 | 2.67 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 16 | 2.67 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 17 | 2.67 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 3 | 2.67 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 7 | 2.67 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 18 | 2.67 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 5 | 2.67 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 12 | 2.67 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 14 | 2.67 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 13 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 16 | 2.67 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 15 | 2.67 |
| (1,4966) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 1 | 2.67 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 15 | 2.67 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 2 | 2.67 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 2 | 2.67 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 2 | 2.67 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 18 | 2.67 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 18 | 2.67 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 18 | 2.67 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 18 | 2.67 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 18 | 2.67 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 18 | 2.67 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 18 | 2.67 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 18 | 2.67 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 18 | 2.67 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 1 | 2.67 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 1 | 2.67 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 1 | 2.67 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 14 | 2.67 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 14 | 2.67 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 14 | 2.67 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 14 | 2.67 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 14 | 2.67 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 14 | 2.67 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 14 | 2.67 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 14 | 2.67 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 14 | 2.67 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 8 | 2.67 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 15 | 2.67 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 12 | 2.67 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 18 | 2.67 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 18 | 2.67 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 12 | 2.67 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 12 | 2.67 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 12 | 2.67 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 7 | 2.67 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 7 | 2.67 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 7 | 2.67 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 7 | 2.67 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 7 | 2.67 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 7 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 5 | 2.67 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 8 | 2.67 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 5 | 2.67 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 5 | 2.67 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 14 | 2.67 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 14 | 2.67 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 4 | 2.67 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 11 | 2.67 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 11 | 2.67 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 11 | 2.67 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 11 | 2.67 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 11 | 2.67 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 11 | 2.67 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 12 | 2.67 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 12 | 2.67 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 16 | 2.67 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 6 | 2.67 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 6 | 2.67 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 6 | 2.67 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 2 | 2.67 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 2 | 2.67 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 2 | 2.67 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 2 | 2.67 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 2 | 2.67 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 2 | 2.67 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 7 | 2.67 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 7 | 2.67 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 3 | 2.67 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 3 | 2.67 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 19 | 2.67 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 19 | 2.67 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 19 | 2.67 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 19 | 2.67 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 19 | 2.67 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 19 | 2.67 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 10 | 2.67 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 10 | 2.67 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 10 | 2.67 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 10 | 2.67 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 10 | 2.67 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 10 | 2.67 |
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 9 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4496) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 9 | 2.67 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 17 | 2.67 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 6 | 2.67 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 13 | 2.67 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 13 | 2.67 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 13 | 2.67 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 13 | 2.67 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 13 | 2.67 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 13 | 2.67 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 9 | 2.67 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 9 | 2.67 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 6 | 2.67 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 6 | 2.67 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 6 | 2.67 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 8 | 2.67 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 8 | 2.67 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 8 | 2.67 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 8 | 2.67 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 8 | 2.67 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 8 | 2.67 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 15 | 2.67 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 15 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 1 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 1 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 1 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 1 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 1 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 1 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 2 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 2 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 2 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 2 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 2 | 2.67 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 2 | 2.67 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 2 | 2.67 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 2 | 2.67 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 2 | 2.67 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 2 | 2.67 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 2 | 2.67 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 6 | 2.67 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 6 | 2.67 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 14 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 14 | 2.67 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 11 | 2.67 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 11 | 2.67 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 15 | 2.67 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 15 | 2.67 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 2 | 2.67 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 2 | 2.67 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 2 | 2.67 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 2 | 2.67 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 13 | 2.67 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 13 | 2.67 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 13 | 2.67 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 13 | 2.67 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 9 | 2.67 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 9 | 2.67 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 9 | 2.67 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 9 | 2.67 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 9 | 2.67 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 9 | 2.67 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 16 | 2.67 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 16 | 2.67 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 15 | 2.67 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 15 | 2.67 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 15 | 2.67 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 15 | 2.67 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 7 | 2.67 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 7 | 2.67 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 7 | 2.67 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 4 | 2.67 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 4 | 2.67 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 4 | 2.67 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 4 | 2.67 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 4 | 2.67 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 4 | 2.67 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 2.67 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 2.67 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 2.67 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 11 | 2.67 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 11 | 2.67 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 11 | 2.67 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 11 | 2.67 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 11 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 11 | 2.67 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 16 | 2.67 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 16 | 2.67 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 16 | 2.67 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 16 | 2.67 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 16 | 2.67 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 16 | 2.67 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 10 | 2.67 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 10 | 2.67 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 10 | 2.67 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 15 | 2.67 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 15 | 2.67 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 19 | 2.67 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 19 | 2.67 |
| (1,3512) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 8 | 2.67 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 2 | 2.67 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 2 | 2.67 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 4 | 2.67 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 4 | 2.67 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 9 | 2.67 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 11 | 2.67 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 15 | 2.67 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 15 | 2.67 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 6 | 2.67 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 2 | 2.67 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 2 | 2.67 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 3 | 2.67 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 3 | 2.67 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 7 | 2.67 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 15 | 2.67 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 16 | 2.67 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 16 | 2.67 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 16 | 2.67 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 12 | 2.67 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 9 | 2.67 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 8 | 2.67 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 8 | 2.67 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 18 | 2.67 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 17 | 2.67 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 5 | 2.67 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 17 | 2.67 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 17 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 17 | 2.67 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 5 | 2.67 |
| (1,2844) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 4 | 2.67 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 12 | 2.67 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 15 | 2.67 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 15 | 2.67 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 8 | 2.67 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 8 | 2.67 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 8 | 2.67 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 8 | 2.67 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 8 | 2.67 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 8 | 2.67 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 5 | 2.67 |
| (1,2724) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 5 | 2.67 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 13 | 2.67 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 13 | 2.67 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 8 | 2.67 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 8 | 2.67 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 10 | 2.67 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 19 | 2.67 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 19 | 2.67 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 19 | 2.67 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 5 | 2.67 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 7 | 2.67 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 5 | 2.67 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 16 | 2.67 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 17 | 2.67 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 11 | 2.67 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 15 | 2.67 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 5 | 2.67 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 20 | 2.67 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 20 | 2.67 |
| (1,2498) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 18 | 2.67 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 7 | 2.67 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 7 | 2.67 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 10 | 2.67 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 8 | 2.67 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 20 | 2.67 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 12 | 2.67 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 4 | 2.67 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 10 | 2.67 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 10 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 10 | 2.67 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 13 | 2.67 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 13 | 2.67 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 13 | 2.67 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 11 | 2.67 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 16 | 2.67 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 10 | 2.67 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 11 | 2.67 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 3 | 2.67 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 12 | 2.67 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 12 | 2.67 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 12 | 2.67 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 13 | 2.67 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 13 | 2.67 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 13 | 2.67 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 20 | 2.67 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 17 | 2.67 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 18 | 2.67 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 18 | 2.67 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 18 | 2.67 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 2 | 2.67 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 2 | 2.67 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 2 | 2.67 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 19 | 2.67 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 20 | 2.67 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 20 | 2.67 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 20 | 2.67 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 11 | 2.67 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 11 | 2.67 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 11 | 2.67 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 11 | 2.67 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 11 | 2.67 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 11 | 2.67 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 11 | 2.67 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 11 | 2.67 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 11 | 2.67 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 2 | 2.67 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 2 | 2.67 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 2 | 2.67 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 2 | 2.67 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 2 | 2.67 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 2 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 2 | 2.67 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 2 | 2.67 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 2 | 2.67 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 2 | 2.67 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 12 | 2.67 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 12 | 2.67 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 6 | 2.67 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 6 | 2.67 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 14 | 2.67 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 8 | 2.67 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 8 | 2.67 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 8 | 2.67 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 1 | 2.67 |
| (1,1640) | 1:136:A:ASP:H | 1:137:A:ALA:H | 1 | 2.67 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 6 | 2.67 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 9 | 2.67 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 9 | 2.67 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 3 | 2.67 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 7 | 2.67 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 17 | 2.67 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 13 | 2.67 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 7 | 2.67 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 7 | 2.67 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 19 | 2.67 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 19 | 2.67 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 6 | 2.67 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 7 | 2.67 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 9 | 2.67 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 13 | 2.67 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 18 | 2.67 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 13 | 2.67 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 18 | 2.67 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 1 | 2.67 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 1 | 2.67 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 1 | 2.67 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 5 | 2.67 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 15 | 2.67 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 15 | 2.67 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 15 | 2.67 |
| (1,1052) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 8 | 2.67 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 18 | 2.67 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 13 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 13 | 2.67 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 20 | 2.67 |
| (1,884) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 19 | 2.67 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 20 | 2.67 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 4 | 2.67 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 2.67 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 16 | 2.67 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 16 | 2.67 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 16 | 2.67 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 8 | 2.67 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 3 | 2.67 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 17 | 2.67 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 15 | 2.67 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 4 | 2.67 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 4 | 2.67 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 4 | 2.67 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 4 | 2.67 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 4 | 2.67 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 4 | 2.67 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 4 | 2.67 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 4 | 2.67 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 4 | 2.67 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 6 | 2.67 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 6 | 2.67 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 6 | 2.67 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 15 | 2.67 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 12 | 2.67 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 13 | 2.67 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 13 | 2.67 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 13 | 2.67 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 7 | 2.67 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 7 | 2.67 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 7 | 2.67 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 15 | 2.67 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 15 | 2.67 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 15 | 2.67 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 2 | 2.67 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 20 | 2.67 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 1 | 2.67 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 10 | 2.67 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 10 | 2.67 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 14 | 2.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 14 | 2.67 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 16 | 2.67 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 16 | 2.67 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 6 | 2.67 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 6 | 2.67 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 12 | 2.67 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 12 | 2.67 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 12 | 2.67 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 4 | 2.67 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 4 | 2.67 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 4 | 2.67 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 4 | 2.67 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 4 | 2.67 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 4 | 2.67 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 16 | 2.67 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 7 | 2.67 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 7 | 2.67 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 7 | 2.67 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 9 | 2.67 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 9 | 2.67 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 9 | 2.67 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 4 | 2.66 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 5 | 2.66 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 13 | 2.66 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 9 | 2.66 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 3 | 2.66 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 18 | 2.66 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 7 | 2.66 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 8 | 2.66 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 8 | 2.66 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 2 | 2.66 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 2 | 2.66 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 14 | 2.66 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 14 | 2.66 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 8 | 2.66 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 8 | 2.66 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 3 | 2.66 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 3 | 2.66 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 12 | 2.66 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 12 | 2.66 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 2 | 2.66 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 2 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 13 | 2.66 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 13 | 2.66 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 4 | 2.66 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 4 | 2.66 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 4 | 2.66 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 4 | 2.66 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 4 | 2.66 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 4 | 2.66 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 4 | 2.66 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 4 | 2.66 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 19 | 2.66 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 19 | 2.66 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 19 | 2.66 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 19 | 2.66 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 19 | 2.66 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 19 | 2.66 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 8 | 2.66 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 8 | 2.66 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 2 | 2.66 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 2 | 2.66 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 20 | 2.66 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 20 | 2.66 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 11 | 2.66 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 11 | 2.66 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 14 | 2.66 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 14 | 2.66 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 4 | 2.66 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 4 | 2.66 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 14 | 2.66 |
| (1,8771) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 14 | 2.66 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 1 | 2.66 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 1 | 2.66 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 11 | 2.66 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 11 | 2.66 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 11 | 2.66 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 11 | 2.66 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 11 | 2.66 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 11 | 2.66 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 14 | 2.66 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 14 | 2.66 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 12 | 2.66 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 12 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 12 | 2.66 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 12 | 2.66 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 6 | 2.66 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 6 | 2.66 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 4 | 2.66 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 4 | 2.66 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 16 | 2.66 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 16 | 2.66 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 16 | 2.66 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 16 | 2.66 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 11 | 2.66 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 11 | 2.66 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 19 | 2.66 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 19 | 2.66 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 11 | 2.66 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 8 | 2.66 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 3 | 2.66 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 3 | 2.66 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 3 | 2.66 |
| (1,7833) | 1:61:A:LEU:HD11 | 1:157:A:HIS:HA | 5 | 2.66 |
| (1,7833) | 1:61:A:LEU:HD12 | 1:157:A:HIS:HA | 5 | 2.66 |
| (1,7833) | 1:61:A:LEU:HD13 | 1:157:A:HIS:HA | 5 | 2.66 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 10 | 2.66 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 18 | 2.66 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 18 | 2.66 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 18 | 2.66 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 18 | 2.66 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 18 | 2.66 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 18 | 2.66 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 12 | 2.66 |
| (1,7538) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 5 | 2.66 |
| (1,7538) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 5 | 2.66 |
| (1,7538) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 5 | 2.66 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 3 | 2.66 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 11 | 2.66 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 12 | 2.66 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 17 | 2.66 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 6 | 2.66 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 18 | 2.66 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 13 | 2.66 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 20 | 2.66 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 20 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 2 | 2.66 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 2 | 2.66 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 2 | 2.66 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 8 | 2.66 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 8 | 2.66 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 17 | 2.66 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 20 | 2.66 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 2 | 2.66 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 17 | 2.66 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 5 | 2.66 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 5 | 2.66 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 5 | 2.66 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 20 | 2.66 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 4 | 2.66 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 4 | 2.66 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 15 | 2.66 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 15 | 2.66 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 15 | 2.66 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 15 | 2.66 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 15 | 2.66 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 15 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 6 | 2.66 |
| (1,6782) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 6 | 2.66 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 2 | 2.66 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 17 | 2.66 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 1 | 2.66 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 3 | 2.66 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 4 | 2.66 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 6 | 2.66 |
| (1,6643) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 4 | 2.66 |
| (1,6643) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 4 | 2.66 |
| (1,6643) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 4 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 2 | 2.66 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 2 | 2.66 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 4 | 2.66 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 4 | 2.66 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 7 | 2.66 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 7 | 2.66 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 6 | 2.66 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 16 | 2.66 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 16 | 2.66 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 16 | 2.66 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 16 | 2.66 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 8 | 2.66 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 10 | 2.66 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 10 | 2.66 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 10 | 2.66 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 8 | 2.66 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 8 | 2.66 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 8 | 2.66 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 20 | 2.66 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 20 | 2.66 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 20 | 2.66 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 19 | 2.66 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 6 | 2.66 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 9 | 2.66 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 20 | 2.66 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 20 | 2.66 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 20 | 2.66 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 14 | 2.66 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 14 | 2.66 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 14 | 2.66 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 14 | 2.66 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 14 | 2.66 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 14 | 2.66 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 14 | 2.66 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 14 | 2.66 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 14 | 2.66 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 8 | 2.66 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 8 | 2.66 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 8 | 2.66 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 8 | 2.66 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 8 | 2.66 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 8 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 14 | 2.66 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 4 | 2.66 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 4 | 2.66 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 4 | 2.66 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 17 | 2.66 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 5 | 2.66 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 11 | 2.66 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 14 | 2.66 |
| (1,5956) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 4 | 2.66 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 5 | 2.66 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 5 | 2.66 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 17 | 2.66 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 3 | 2.66 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 3 | 2.66 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 3 | 2.66 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 13 | 2.66 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 9 | 2.66 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 9 | 2.66 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 18 | 2.66 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 6 | 2.66 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 19 | 2.66 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 18 | 2.66 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 18 | 2.66 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 18 | 2.66 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 2 | 2.66 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 10 | 2.66 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 11 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 17 | 2.66 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 17 | 2.66 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 3 | 2.66 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 3 | 2.66 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 6 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 20 | 2.66 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 13 | 2.66 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 13 | 2.66 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 17 | 2.66 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 5 | 2.66 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 14 | 2.66 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 6 | 2.66 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 6 | 2.66 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 6 | 2.66 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 18 | 2.66 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 20 | 2.66 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 9 | 2.66 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 11 | 2.66 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 6 | 2.66 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 6 | 2.66 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 6 | 2.66 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 13 | 2.66 |
| (1,5023) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 17 | 2.66 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 15 | 2.66 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 8 | 2.66 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 16 | 2.66 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 16 | 2.66 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 16 | 2.66 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 5 | 2.66 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 19 | 2.66 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 14 | 2.66 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 14 | 2.66 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 14 | 2.66 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 14 | 2.66 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 14 | 2.66 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 14 | 2.66 |
| (1,4681) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 10 | 2.66 |
| (1,4681) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 10 | 2.66 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 13 | 2.66 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 13 | 2.66 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 15 | 2.66 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 15 | 2.66 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 18 | 2.66 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 8 | 2.66 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 8 | 2.66 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 2 | 2.66 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 2 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 15 | 2.66 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 15 | 2.66 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 15 | 2.66 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 15 | 2.66 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 15 | 2.66 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 15 | 2.66 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 8 | 2.66 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 8 | 2.66 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 14 | 2.66 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 14 | 2.66 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 15 | 2.66 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 15 | 2.66 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 15 | 2.66 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 15 | 2.66 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 15 | 2.66 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 15 | 2.66 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 18 | 2.66 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 18 | 2.66 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 8 | 2.66 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 8 | 2.66 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 19 | 2.66 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 19 | 2.66 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 19 | 2.66 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 3 | 2.66 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 3 | 2.66 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 16 | 2.66 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 16 | 2.66 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 8 | 2.66 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 8 | 2.66 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 12 | 2.66 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 12 | 2.66 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 17 | 2.66 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 17 | 2.66 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 7 | 2.66 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 7 | 2.66 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 7 | 2.66 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 7 | 2.66 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 7 | 2.66 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 7 | 2.66 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 2 | 2.66 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 2 | 2.66 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 11 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 11 | 2.66 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 13 | 2.66 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 13 | 2.66 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 4 | 2.66 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 4 | 2.66 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 4 | 2.66 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 4 | 2.66 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 4 | 2.66 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 4 | 2.66 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 16 | 2.66 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 2 | 2.66 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 2 | 2.66 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 2 | 2.66 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 3 | 2.66 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 3 | 2.66 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 3 | 2.66 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 8 | 2.66 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 8 | 2.66 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 2 | 2.66 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 2 | 2.66 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 10 | 2.66 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 10 | 2.66 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 18 | 2.66 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 18 | 2.66 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 16 | 2.66 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 11 | 2.66 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 11 | 2.66 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 6 | 2.66 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 6 | 2.66 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 6 | 2.66 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 6 | 2.66 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 6 | 2.66 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 6 | 2.66 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 11 | 2.66 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 11 | 2.66 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 14 | 2.66 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 14 | 2.66 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 15 | 2.66 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 14 | 2.66 |
| (1,3740) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 14 | 2.66 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 9 | 2.66 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 9 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 1 | 2.66 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 1 | 2.66 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 18 | 2.66 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 18 | 2.66 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 2.66 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 11 | 2.66 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 11 | 2.66 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 11 | 2.66 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 11 | 2.66 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 11 | 2.66 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 11 | 2.66 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 1 | 2.66 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 10 | 2.66 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 10 | 2.66 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 6 | 2.66 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 6 | 2.66 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 18 | 2.66 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 1 | 2.66 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 17 | 2.66 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 11 | 2.66 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 10 | 2.66 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 10 | 2.66 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 19 | 2.66 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 19 | 2.66 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 7 | 2.66 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 13 | 2.66 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 20 | 2.66 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 20 | 2.66 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 20 | 2.66 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 13 | 2.66 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 20 | 2.66 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 20 | 2.66 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 17 | 2.66 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 17 | 2.66 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 17 | 2.66 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 13 | 2.66 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 13 | 2.66 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 13 | 2.66 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 14 | 2.66 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 2 | 2.66 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 2 | 2.66 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 2 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 8 | 2.66 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 8 | 2.66 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 17 | 2.66 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 20 | 2.66 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 2 | 2.66 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 1 | 2.66 |
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 17 | 2.66 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 5 | 2.66 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 5 | 2.66 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 5 | 2.66 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 11 | 2.66 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 20 | 2.66 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 4 | 2.66 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 4 | 2.66 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 15 | 2.66 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 15 | 2.66 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 15 | 2.66 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 15 | 2.66 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 15 | 2.66 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 15 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 12 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 12 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 12 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 12 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 12 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 12 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 20 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 20 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 20 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 20 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 20 | 2.66 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 20 | 2.66 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 15 | 2.66 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 15 | 2.66 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 13 | 2.66 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 3 | 2.66 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 6 | 2.66 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 1 | 2.66 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 3 | 2.66 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 4 | 2.66 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 6 | 2.66 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 11 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 11 | 2.66 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 11 | 2.66 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 11 | 2.66 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 11 | 2.66 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 11 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 2 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 2 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 2 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 2 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 2 | 2.66 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 2 | 2.66 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 11 | 2.66 |
| (1,2508) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 4 | 2.66 |
| (1,2508) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 4 | 2.66 |
| (1,2508) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 4 | 2.66 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 2 | 2.66 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 2 | 2.66 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 4 | 2.66 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 4 | 2.66 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 7 | 2.66 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 7 | 2.66 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 3 | 2.66 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 15 | 2.66 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 16 | 2.66 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 5 | 2.66 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 5 | 2.66 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 5 | 2.66 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 5 | 2.66 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 5 | 2.66 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 5 | 2.66 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 16 | 2.66 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 16 | 2.66 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 16 | 2.66 |
| (1,2278) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 14 | 2.66 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 8 | 2.66 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 10 | 2.66 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 10 | 2.66 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 10 | 2.66 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 8 | 2.66 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 8 | 2.66 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 8 | 2.66 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 20 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 20 | 2.66 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 20 | 2.66 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 1 | 2.66 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 1 | 2.66 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 1 | 2.66 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 19 | 2.66 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 6 | 2.66 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 10 | 2.66 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 10 | 2.66 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 10 | 2.66 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 8 | 2.66 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 8 | 2.66 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 8 | 2.66 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 8 | 2.66 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 8 | 2.66 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 8 | 2.66 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 9 | 2.66 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 12 | 2.66 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 14 | 2.66 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 14 | 2.66 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 14 | 2.66 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 14 | 2.66 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 14 | 2.66 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 14 | 2.66 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 14 | 2.66 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 14 | 2.66 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 14 | 2.66 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 20 | 2.66 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 20 | 2.66 |
| (1,1898) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 20 | 2.66 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 18 | 2.66 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 4 | 2.66 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 10 | 2.66 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 10 | 2.66 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 20 | 2.66 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 20 | 2.66 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 11 | 2.66 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 8 | 2.66 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 8 | 2.66 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 8 | 2.66 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 8 | 2.66 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 8 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 8 | 2.66 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 14 | 2.66 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 4 | 2.66 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 4 | 2.66 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 4 | 2.66 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 1 | 2.66 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 13 | 2.66 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 1 | 2.66 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 5 | 2.66 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 1 | 2.66 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 17 | 2.66 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 1 | 2.66 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 5 | 2.66 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 11 | 2.66 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 14 | 2.66 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 14 | 2.66 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 15 | 2.66 |
| (1,1392) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 4 | 2.66 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 5 | 2.66 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 5 | 2.66 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 18 | 2.66 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 18 | 2.66 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 18 | 2.66 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 18 | 2.66 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 18 | 2.66 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 18 | 2.66 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 17 | 2.66 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 3 | 2.66 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 3 | 2.66 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 3 | 2.66 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 13 | 2.66 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 9 | 2.66 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 9 | 2.66 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 18 | 2.66 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 5 | 2.66 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 5 | 2.66 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 5 | 2.66 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 6 | 2.66 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 19 | 2.66 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 18 | 2.66 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 18 | 2.66 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 18 | 2.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 2 | 2.66 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 10 | 2.66 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 11 | 2.66 |
| (1,888) | 1:104:A:GLU:HA | 1:105:A:SER:H | 11 | 2.66 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 6 | 2.66 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 20 | 2.66 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 13 | 2.66 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 1 | 2.66 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 6 | 2.66 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 13 | 2.66 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 18 | 2.66 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 17 | 2.66 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 8 | 2.66 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 8 | 2.66 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 8 | 2.66 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 8 | 2.66 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 8 | 2.66 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 8 | 2.66 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 19 | 2.66 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 19 | 2.66 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 19 | 2.66 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 8 | 2.66 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 8 | 2.66 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 8 | 2.66 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 14 | 2.66 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 14 | 2.66 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 14 | 2.66 |
| (1,373) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 14 | 2.66 |
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 16 | 2.66 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 11 | 2.65 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 7 | 2.65 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 7 | 2.65 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 7 | 2.65 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 7 | 2.65 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 7 | 2.65 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 7 | 2.65 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 14 | 2.65 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 14 | 2.65 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 4 | 2.65 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 4 | 2.65 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 4 | 2.65 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 4 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 4 | 2.65 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 4 | 2.65 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 12 | 2.65 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 12 | 2.65 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 16 | 2.65 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 16 | 2.65 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 5 | 2.65 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 5 | 2.65 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 5 | 2.65 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 5 | 2.65 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 11 | 2.65 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 11 | 2.65 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 11 | 2.65 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 11 | 2.65 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 4 | 2.65 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 4 | 2.65 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 8 | 2.65 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 8 | 2.65 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 8 | 2.65 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 8 | 2.65 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 8 | 2.65 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 8 | 2.65 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 20 | 2.65 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 20 | 2.65 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 20 | 2.65 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 20 | 2.65 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 20 | 2.65 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 20 | 2.65 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 17 | 2.65 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 17 | 2.65 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 5 | 2.65 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 5 | 2.65 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 14 | 2.65 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 14 | 2.65 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 10 | 2.65 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 10 | 2.65 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 13 | 2.65 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 13 | 2.65 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 5 | 2.65 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 5 | 2.65 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 20 | 2.65 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 20 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 12 | 2.65 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 12 | 2.65 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 12 | 2.65 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 12 | 2.65 |
| (1,8795) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 2 | 2.65 |
| (1,8795) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 2 | 2.65 |
| (1,8698) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 7 | 2.65 |
| (1,8698) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 7 | 2.65 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 10 | 2.65 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 10 | 2.65 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 6 | 2.65 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 6 | 2.65 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 20 | 2.65 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 20 | 2.65 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 13 | 2.65 |
| (1,8552) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 13 | 2.65 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 6 | 2.65 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 6 | 2.65 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 6 | 2.65 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 6 | 2.65 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 6 | 2.65 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 6 | 2.65 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 10 | 2.65 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 18 | 2.65 |
| (1,7901) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 12 | 2.65 |
| (1,7901) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 12 | 2.65 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 4 | 2.65 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 3 | 2.65 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 16 | 2.65 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 4 | 2.65 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 16 | 2.65 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE1 | 20 | 2.65 |
| (1,7290) | 1:15:A:MET:H | 1:23:A:TYR:HE2 | 20 | 2.65 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 2 | 2.65 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 19 | 2.65 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 19 | 2.65 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 1 | 2.65 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 1 | 2.65 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 5 | 2.65 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 5 | 2.65 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 16 | 2.65 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 5 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6926) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 3 | 2.65 |
| (1,6926) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 3 | 2.65 |
| (1,6926) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 3 | 2.65 |
| (1,6922) | 1:31:A:ALA:H | 1:32:A:SER:H | 11 | 2.65 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 18 | 2.65 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 18 | 2.65 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 18 | 2.65 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 9 | 2.65 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 9 | 2.65 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 9 | 2.65 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 9 | 2.65 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 9 | 2.65 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 9 | 2.65 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 20 | 2.65 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 6 | 2.65 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 1 | 2.65 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 9 | 2.65 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 13 | 2.65 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 20 | 2.65 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 20 | 2.65 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 20 | 2.65 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 10 | 2.65 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 11 | 2.65 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 16 | 2.65 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 17 | 2.65 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 1 | 2.65 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 1 | 2.65 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 1 | 2.65 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 17 | 2.65 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 19 | 2.65 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 19 | 2.65 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 19 | 2.65 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 1 | 2.65 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 1 | 2.65 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 9 | 2.65 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 6 | 2.65 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 7 | 2.65 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 11 | 2.65 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 15 | 2.65 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 15 | 2.65 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 15 | 2.65 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 15 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 15 | 2.65 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 15 | 2.65 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 15 | 2.65 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 15 | 2.65 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 15 | 2.65 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 2 | 2.65 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 2 | 2.65 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 5 | 2.65 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 5 | 2.65 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 7 | 2.65 |
| (1,6035) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 20 | 2.65 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 10 | 2.65 |
| (1,5998) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 10 | 2.65 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 9 | 2.65 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 16 | 2.65 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 12 | 2.65 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 12 | 2.65 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 12 | 2.65 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 15 | 2.65 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 15 | 2.65 |
| (1,5886) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 15 | 2.65 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 15 | 2.65 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 15 | 2.65 |
| (1,5886) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 15 | 2.65 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 15 | 2.65 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 15 | 2.65 |
| (1,5886) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 15 | 2.65 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 4 | 2.65 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 4 | 2.65 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 4 | 2.65 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 4 | 2.65 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 4 | 2.65 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 4 | 2.65 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 10 | 2.65 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 11 | 2.65 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 4 | 2.65 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 4 | 2.65 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 4 | 2.65 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 5 | 2.65 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 5 | 2.65 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 5 | 2.65 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 12 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 12 | 2.65 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 12 | 2.65 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 6 | 2.65 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 11 | 2.65 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 11 | 2.65 |
| (1,5739) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 11 | 2.65 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 2 | 2.65 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 3 | 2.65 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 5 | 2.65 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 15 | 2.65 |
| (1,5652) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 13 | 2.65 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 4 | 2.65 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 5 | 2.65 |
| (1,5643) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 5 | 2.65 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 5 | 2.65 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 19 | 2.65 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 13 | 2.65 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 9 | 2.65 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 1 | 2.65 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 2 | 2.65 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 11 | 2.65 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 7 | 2.65 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 19 | 2.65 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 5 | 2.65 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 16 | 2.65 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 3 | 2.65 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 4 | 2.65 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 4 | 2.65 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 4 | 2.65 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 15 | 2.65 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 15 | 2.65 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 15 | 2.65 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 5 | 2.65 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 5 | 2.65 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 5 | 2.65 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 16 | 2.65 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 3 | 2.65 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 18 | 2.65 |
| (1,4916) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 7 | 2.65 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 13 | 2.65 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 10 | 2.65 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 10 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 10 | 2.65 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 10 | 2.65 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 10 | 2.65 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 10 | 2.65 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 10 | 2.65 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 10 | 2.65 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 10 | 2.65 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 2.65 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 2.65 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 2.65 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 20 | 2.65 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 18 | 2.65 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 6 | 2.65 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 6 | 2.65 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 1 | 2.65 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 1 | 2.65 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 1 | 2.65 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 1 | 2.65 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 1 | 2.65 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 1 | 2.65 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 3 | 2.65 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 3 | 2.65 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 3 | 2.65 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 5 | 2.65 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 5 | 2.65 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 5 | 2.65 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 10 | 2.65 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 4 | 2.65 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 18 | 2.65 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 18 | 2.65 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 3 | 2.65 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 7 | 2.65 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 7 | 2.65 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 7 | 2.65 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 7 | 2.65 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 7 | 2.65 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 7 | 2.65 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 7 | 2.65 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 6 | 2.65 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 9 | 2.65 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 9 | 2.65 |
| (1,4567) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 18 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4567) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 18 | 2.65 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 8 | 2.65 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 8 | 2.65 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 8 | 2.65 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 8 | 2.65 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 8 | 2.65 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 8 | 2.65 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 10 | 2.65 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 10 | 2.65 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 10 | 2.65 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 10 | 2.65 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 10 | 2.65 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 10 | 2.65 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 12 | 2.65 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 12 | 2.65 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 16 | 2.65 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 16 | 2.65 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 1 | 2.65 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 1 | 2.65 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 1 | 2.65 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 2 | 2.65 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 2 | 2.65 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 13 | 2.65 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 13 | 2.65 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 11 | 2.65 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 11 | 2.65 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 11 | 2.65 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 11 | 2.65 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 6 | 2.65 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 6 | 2.65 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 6 | 2.65 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 2 | 2.65 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 2 | 2.65 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 14 | 2.65 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 14 | 2.65 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 14 | 2.65 |
| (1,4047) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 7 | 2.65 |
| (1,4041) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 2 | 2.65 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 19 | 2.65 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 19 | 2.65 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 19 | 2.65 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 8 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 8 | 2.65 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 8 | 2.65 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 8 | 2.65 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 8 | 2.65 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 8 | 2.65 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 17 | 2.65 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 17 | 2.65 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 5 | 2.65 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 5 | 2.65 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 19 | 2.65 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 8 | 2.65 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 8 | 2.65 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 11 | 2.65 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 11 | 2.65 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 7 | 2.65 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 7 | 2.65 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 13 | 2.65 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 13 | 2.65 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 10 | 2.65 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 10 | 2.65 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 2.65 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 13 | 2.65 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 13 | 2.65 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 9 | 2.65 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 5 | 2.65 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 5 | 2.65 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 20 | 2.65 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 20 | 2.65 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 6 | 2.65 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 6 | 2.65 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 16 | 2.65 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 16 | 2.65 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 14 | 2.65 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 14 | 2.65 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 14 | 2.65 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 14 | 2.65 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 14 | 2.65 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 14 | 2.65 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 5 | 2.65 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 8 | 2.65 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 8 | 2.65 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 15 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 15 | 2.65 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 15 | 2.65 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 15 | 2.65 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 15 | 2.65 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 15 | 2.65 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 13 | 2.65 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 13 | 2.65 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 13 | 2.65 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 13 | 2.65 |
| (1,3666) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 7 | 2.65 |
| (1,3666) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 7 | 2.65 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 1 | 2.65 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 13 | 2.65 |
| (1,3514) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 13 | 2.65 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 7 | 2.65 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 7 | 2.65 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 16 | 2.65 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 16 | 2.65 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 8 | 2.65 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 8 | 2.65 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 9 | 2.65 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 9 | 2.65 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 6 | 2.65 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 6 | 2.65 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 6 | 2.65 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 7 | 2.65 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 10 | 2.65 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 4 | 2.65 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 19 | 2.65 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 19 | 2.65 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 1 | 2.65 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 1 | 2.65 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 5 | 2.65 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 5 | 2.65 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 3 | 2.65 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 3 | 2.65 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 3 | 2.65 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 11 | 2.65 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 5 | 2.65 |
| (1,2940) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 3 | 2.65 |
| (1,2940) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 3 | 2.65 |
| (1,2940) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 3 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2938) | 1:31:A:ALA:H | 1:32:A:SER:H | 11 | 2.65 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 18 | 2.65 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 18 | 2.65 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 18 | 2.65 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 9 | 2.65 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 9 | 2.65 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 9 | 2.65 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 9 | 2.65 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 9 | 2.65 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 9 | 2.65 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 11 | 2.65 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 11 | 2.65 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 20 | 2.65 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 8 | 2.65 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 8 | 2.65 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 6 | 2.65 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 12 | 2.65 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 12 | 2.65 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 12 | 2.65 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 10 | 2.65 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 10 | 2.65 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 10 | 2.65 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 1 | 2.65 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 6 | 2.65 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 9 | 2.65 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 13 | 2.65 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 1 | 2.65 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 7 | 2.65 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 14 | 2.65 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 6 | 2.65 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 13 | 2.65 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 2 | 2.65 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 5 | 2.65 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 6 | 2.65 |
| (1,2218) | 1:162:A:THR:HA | 1:163:A:GLU:H | 10 | 2.65 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 20 | 2.65 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 20 | 2.65 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 20 | 2.65 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 15 | 2.65 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 15 | 2.65 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 15 | 2.65 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 13 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 3 | 2.65 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 3 | 2.65 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 3 | 2.65 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 16 | 2.65 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 16 | 2.65 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 16 | 2.65 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 5 | 2.65 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 10 | 2.65 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 11 | 2.65 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 16 | 2.65 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 17 | 2.65 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 1 | 2.65 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 1 | 2.65 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 1 | 2.65 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 17 | 2.65 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 19 | 2.65 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 19 | 2.65 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 19 | 2.65 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 5 | 2.65 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 2 | 2.65 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 2 | 2.65 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 5 | 2.65 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 5 | 2.65 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 15 | 2.65 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 15 | 2.65 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 1 | 2.65 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 4 | 2.65 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 6 | 2.65 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 1 | 2.65 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 1 | 2.65 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 9 | 2.65 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 6 | 2.65 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 7 | 2.65 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 11 | 2.65 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 15 | 2.65 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 15 | 2.65 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 15 | 2.65 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 15 | 2.65 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 15 | 2.65 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 15 | 2.65 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 15 | 2.65 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 15 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 15 | 2.65 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 2 | 2.65 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 2 | 2.65 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 5 | 2.65 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 5 | 2.65 |
| (1,1616) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 19 | 2.65 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 7 | 2.65 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 10 | 2.65 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 14 | 2.65 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 8 | 2.65 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 8 | 2.65 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 8 | 2.65 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 19 | 2.65 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 19 | 2.65 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 19 | 2.65 |
| (1,1546) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 7 | 2.65 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 6 | 2.65 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 10 | 2.65 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 1 | 2.65 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 7 | 2.65 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 10 | 2.65 |
| (1,1492) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 10 | 2.65 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 6 | 2.65 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 20 | 2.65 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 14 | 2.65 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 4 | 2.65 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 9 | 2.65 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 9 | 2.65 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 16 | 2.65 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 19 | 2.65 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 3 | 2.65 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 5 | 2.65 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 6 | 2.65 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 15 | 2.65 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 15 | 2.65 |
| (1,1300) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 15 | 2.65 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 15 | 2.65 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 15 | 2.65 |
| (1,1300) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 15 | 2.65 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 15 | 2.65 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 15 | 2.65 |
| (1,1300) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 15 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 13 | 2.65 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 13 | 2.65 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 13 | 2.65 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 4 | 2.65 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 4 | 2.65 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 4 | 2.65 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 4 | 2.65 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 4 | 2.65 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 4 | 2.65 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 10 | 2.65 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 1 | 2.65 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 11 | 2.65 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 4 | 2.65 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 4 | 2.65 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 4 | 2.65 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 5 | 2.65 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 5 | 2.65 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 5 | 2.65 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 12 | 2.65 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 12 | 2.65 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 12 | 2.65 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 6 | 2.65 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 9 | 2.65 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 9 | 2.65 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 9 | 2.65 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 10 | 2.65 |
| (1,1095) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 10 | 2.65 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 11 | 2.65 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 11 | 2.65 |
| (1,1026) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 11 | 2.65 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 2 | 2.65 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 3 | 2.65 |
| (1,970) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 11 | 2.65 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 5 | 2.65 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 15 | 2.65 |
| (1,886) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 13 | 2.65 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 11 | 2.65 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 4 | 2.65 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 5 | 2.65 |
| (1,874) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 5 | 2.65 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 11 | 2.65 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 14 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 12 | 2.65 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 5 | 2.65 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 19 | 2.65 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 13 | 2.65 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 20 | 2.65 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 18 | 2.65 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 6 | 2.65 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 9 | 2.65 |
| (1,578) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 5 | 2.65 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 1 | 2.65 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 15 | 2.65 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 15 | 2.65 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 15 | 2.65 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 11 | 2.65 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 15 | 2.65 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 15 | 2.65 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 15 | 2.65 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 19 | 2.65 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 19 | 2.65 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 19 | 2.65 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 8 | 2.65 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 17 | 2.65 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 5 | 2.65 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 20 | 2.65 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 20 | 2.65 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 1 | 2.65 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 1 | 2.65 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 1 | 2.65 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 11 | 2.65 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 11 | 2.65 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 11 | 2.65 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 20 | 2.65 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 14 | 2.65 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 14 | 2.65 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 14 | 2.65 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 14 | 2.65 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 4 | 2.65 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 4 | 2.65 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 4 | 2.65 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 18 | 2.64 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 9 | 2.64 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 13 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 6 | 2.64 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 6 | 2.64 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 14 | 2.64 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 14 | 2.64 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 1 | 2.64 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 1 | 2.64 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 11 | 2.64 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 11 | 2.64 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 11 | 2.64 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 11 | 2.64 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 2.64 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 2.64 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 2.64 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 2.64 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 2.64 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 2.64 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 17 | 2.64 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 17 | 2.64 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 5 | 2.64 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 5 | 2.64 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 18 | 2.64 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 18 | 2.64 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 18 | 2.64 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 18 | 2.64 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 2 | 2.64 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 2 | 2.64 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 19 | 2.64 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 19 | 2.64 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 19 | 2.64 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 19 | 2.64 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 19 | 2.64 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 19 | 2.64 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 1 | 2.64 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 1 | 2.64 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 7 | 2.64 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 7 | 2.64 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 1 | 2.64 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 1 | 2.64 |
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 12 | 2.64 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 12 | 2.64 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 18 | 2.64 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 18 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 6 | 2.64 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 6 | 2.64 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 10 | 2.64 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 10 | 2.64 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 9 | 2.64 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 9 | 2.64 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 9 | 2.64 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 9 | 2.64 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 13 | 2.64 |
| (1,8724) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 13 | 2.64 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 16 | 2.64 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 16 | 2.64 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 17 | 2.64 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 17 | 2.64 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 17 | 2.64 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 17 | 2.64 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 17 | 2.64 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 17 | 2.64 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 19 | 2.64 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 19 | 2.64 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD11 | 15 | 2.64 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD12 | 15 | 2.64 |
| (1,8474) | 1:151:A:PHE:HE1 | 1:156:A:ILE:HD13 | 15 | 2.64 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD11 | 15 | 2.64 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD12 | 15 | 2.64 |
| (1,8474) | 1:151:A:PHE:HE2 | 1:156:A:ILE:HD13 | 15 | 2.64 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 7 | 2.64 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 8 | 2.64 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 8 | 2.64 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 8 | 2.64 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 12 | 2.64 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 12 | 2.64 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 12 | 2.64 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 12 | 2.64 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 12 | 2.64 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 12 | 2.64 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 12 | 2.64 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 12 | 2.64 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 12 | 2.64 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 18 | 2.64 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 18 | 2.64 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 5 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 5 | 2.64 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 5 | 2.64 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 5 | 2.64 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 5 | 2.64 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 5 | 2.64 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 5 | 2.64 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 5 | 2.64 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 5 | 2.64 |
| (1,7580) | 1:25:A:PHE:HA | 1:32:A:SER:H | 17 | 2.64 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 20 | 2.64 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 13 | 2.64 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 4 | 2.64 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 13 | 2.64 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 17 | 2.64 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 17 | 2.64 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 4 | 2.64 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 4 | 2.64 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 4 | 2.64 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 17 | 2.64 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 9 | 2.64 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 9 | 2.64 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 16 | 2.64 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 6 | 2.64 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 6 | 2.64 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 6 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 4 | 2.64 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 4 | 2.64 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 7 | 2.64 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 7 | 2.64 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 9 | 2.64 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 10 | 2.64 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 7 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 7 | 2.64 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 7 | 2.64 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 13 | 2.64 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 18 | 2.64 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 10 | 2.64 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 19 | 2.64 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 4 | 2.64 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 2 | 2.64 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 2 | 2.64 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 2 | 2.64 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 3 | 2.64 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 11 | 2.64 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 16 | 2.64 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 20 | 2.64 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 17 | 2.64 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 17 | 2.64 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 17 | 2.64 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 17 | 2.64 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 17 | 2.64 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 17 | 2.64 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 17 | 2.64 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 17 | 2.64 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 17 | 2.64 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 18 | 2.64 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 18 | 2.64 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 18 | 2.64 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 18 | 2.64 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 18 | 2.64 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 18 | 2.64 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 18 | 2.64 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 18 | 2.64 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 18 | 2.64 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 7 | 2.64 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 10 | 2.64 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 17 | 2.64 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 3 | 2.64 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 3 | 2.64 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 3 | 2.64 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 3 | 2.64 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 3 | 2.64 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 3 | 2.64 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 3 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 3 | 2.64 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 3 | 2.64 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 8 | 2.64 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 12 | 2.64 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 10 | 2.64 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 10 | 2.64 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 10 | 2.64 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 2 | 2.64 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 20 | 2.64 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 6 | 2.64 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 6 | 2.64 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 13 | 2.64 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 13 | 2.64 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 3 | 2.64 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 4 | 2.64 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 1 | 2.64 |
| (1,5960) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 5 | 2.64 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 14 | 2.64 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 14 | 2.64 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 19 | 2.64 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 19 | 2.64 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 1 | 2.64 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 18 | 2.64 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 3 | 2.64 |
| (1,5811) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 20 | 2.64 |
| (1,5811) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 20 | 2.64 |
| (1,5811) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 20 | 2.64 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 16 | 2.64 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 6 | 2.64 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 18 | 2.64 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 18 | 2.64 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 11 | 2.64 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 3 | 2.64 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 15 | 2.64 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 8 | 2.64 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 16 | 2.64 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 18 | 2.64 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 9 | 2.64 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 8 | 2.64 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 14 | 2.64 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 17 | 2.64 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 12 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 9 | 2.64 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 12 | 2.64 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 10 | 2.64 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 10 | 2.64 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 10 | 2.64 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 20 | 2.64 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 16 | 2.64 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 16 | 2.64 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 16 | 2.64 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 16 | 2.64 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 16 | 2.64 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 16 | 2.64 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 16 | 2.64 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 16 | 2.64 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 16 | 2.64 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 16 | 2.64 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 16 | 2.64 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 16 | 2.64 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 10 | 2.64 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 11 | 2.64 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 6 | 2.64 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 4 | 2.64 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 4 | 2.64 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 4 | 2.64 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 15 | 2.64 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 7 | 2.64 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 7 | 2.64 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 7 | 2.64 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 11 | 2.64 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 17 | 2.64 |
| (1,5034) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 5 | 2.64 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 16 | 2.64 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 7 | 2.64 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 3 | 2.64 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 10 | 2.64 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 3 | 2.64 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 5 | 2.64 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 15 | 2.64 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 15 | 2.64 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 15 | 2.64 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 15 | 2.64 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 15 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 15 | 2.64 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 15 | 2.64 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 15 | 2.64 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 15 | 2.64 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 6 | 2.64 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 15 | 2.64 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 15 | 2.64 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 15 | 2.64 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 15 | 2.64 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 15 | 2.64 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 15 | 2.64 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 15 | 2.64 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 15 | 2.64 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 15 | 2.64 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 19 | 2.64 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 9 | 2.64 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 9 | 2.64 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 9 | 2.64 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 9 | 2.64 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 9 | 2.64 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 6 | 2.64 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 6 | 2.64 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 12 | 2.64 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 12 | 2.64 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 11 | 2.64 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 14 | 2.64 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 14 | 2.64 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 10 | 2.64 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 10 | 2.64 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 10 | 2.64 |
| (1,4491) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 13 | 2.64 |
| (1,4491) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 13 | 2.64 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 18 | 2.64 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 8 | 2.64 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 8 | 2.64 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 8 | 2.64 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 8 | 2.64 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 1 | 2.64 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 1 | 2.64 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 11 | 2.64 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 11 | 2.64 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 11 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 11 | 2.64 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 16 | 2.64 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 16 | 2.64 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 16 | 2.64 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 2 | 2.64 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 2 | 2.64 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 2 | 2.64 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 17 | 2.64 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 17 | 2.64 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 18 | 2.64 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 18 | 2.64 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 3 | 2.64 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 19 | 2.64 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 13 | 2.64 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 17 | 2.64 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 17 | 2.64 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 12 | 2.64 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 12 | 2.64 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 1 | 2.64 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 1 | 2.64 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 7 | 2.64 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 7 | 2.64 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 15 | 2.64 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 15 | 2.64 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 15 | 2.64 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 15 | 2.64 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 15 | 2.64 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 15 | 2.64 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 2 | 2.64 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 2 | 2.64 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 2 | 2.64 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 3 | 2.64 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 3 | 2.64 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 2 | 2.64 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 2 | 2.64 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 19 | 2.64 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 19 | 2.64 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 19 | 2.64 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 19 | 2.64 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 19 | 2.64 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 19 | 2.64 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 13 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 13 | 2.64 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 7 | 2.64 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 7 | 2.64 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 10 | 2.64 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 10 | 2.64 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 8 | 2.64 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 8 | 2.64 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 8 | 2.64 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 9 | 2.64 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 9 | 2.64 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 9 | 2.64 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 9 | 2.64 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 9 | 2.64 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 9 | 2.64 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 8 | 2.64 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 8 | 2.64 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 18 | 2.64 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 18 | 2.64 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 6 | 2.64 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 6 | 2.64 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 1 | 2.64 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 1 | 2.64 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 3 | 2.64 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 3 | 2.64 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 17 | 2.64 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 17 | 2.64 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 15 | 2.64 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 2.64 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 2.64 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 2.64 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 6 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 6 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 6 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 6 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 8 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 8 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 8 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 8 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 19 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 19 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 19 | 2.64 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 19 | 2.64 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 13 | 2.64 |
| (1,3682) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 13 | 2.64 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 8 | 2.64 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 8 | 2.64 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 8 | 2.64 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 11 | 2.64 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 11 | 2.64 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 11 | 2.64 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 17 | 2.64 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 17 | 2.64 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 6 | 2.64 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 4 | 2.64 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 4 | 2.64 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 4 | 2.64 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 7 | 2.64 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 7 | 2.64 |
| (1,3328) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 3 | 2.64 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 10 | 2.64 |
| (1,3321) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 10 | 2.64 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 2 | 2.64 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 2 | 2.64 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 2 | 2.64 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 10 | 2.64 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 2 | 2.64 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 5 | 2.64 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 5 | 2.64 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 15 | 2.64 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 17 | 2.64 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 9 | 2.64 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 9 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 11 | 2.64 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 11 | 2.64 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 13 | 2.64 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 2 | 2.64 |
| (1,3120) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 3 | 2.64 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 3 | 2.64 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 16 | 2.64 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 12 | 2.64 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 11 | 2.64 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 8 | 2.64 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 8 | 2.64 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 8 | 2.64 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 8 | 2.64 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 8 | 2.64 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 8 | 2.64 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 13 | 2.64 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 13 | 2.64 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 13 | 2.64 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 13 | 2.64 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 13 | 2.64 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 13 | 2.64 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 5 | 2.64 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 5 | 2.64 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 7 | 2.64 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 7 | 2.64 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 9 | 2.64 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 2 | 2.64 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 13 | 2.64 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 18 | 2.64 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 10 | 2.64 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 16 | 2.64 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 16 | 2.64 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 17 | 2.64 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 2 | 2.64 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 7 | 2.64 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 19 | 2.64 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 4 | 2.64 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 9 | 2.64 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 11 | 2.64 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 2 | 2.64 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 2 | 2.64 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 2 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 9 | 2.64 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 13 | 2.64 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 18 | 2.64 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 2 | 2.64 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 6 | 2.64 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 6 | 2.64 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 6 | 2.64 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 3 | 2.64 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 11 | 2.64 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 18 | 2.64 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 18 | 2.64 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 18 | 2.64 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 8 | 2.64 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 16 | 2.64 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 20 | 2.64 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 7 | 2.64 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 17 | 2.64 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 17 | 2.64 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 17 | 2.64 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 17 | 2.64 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 17 | 2.64 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 17 | 2.64 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 17 | 2.64 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 17 | 2.64 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 17 | 2.64 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 11 | 2.64 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 11 | 2.64 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 11 | 2.64 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 18 | 2.64 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 18 | 2.64 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 18 | 2.64 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 18 | 2.64 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 18 | 2.64 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 18 | 2.64 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 18 | 2.64 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 18 | 2.64 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 18 | 2.64 |
| (1,1882) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 7 | 2.64 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 7 | 2.64 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 7 | 2.64 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 14 | 2.64 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 14 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 13 | 2.64 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 17 | 2.64 |
| (1,1824) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 5 | 2.64 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 7 | 2.64 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 10 | 2.64 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 17 | 2.64 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 3 | 2.64 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 3 | 2.64 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 3 | 2.64 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 3 | 2.64 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 3 | 2.64 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 3 | 2.64 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 3 | 2.64 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 3 | 2.64 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 3 | 2.64 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 8 | 2.64 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 18 | 2.64 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 18 | 2.64 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 18 | 2.64 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 12 | 2.64 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 10 | 2.64 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 10 | 2.64 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 10 | 2.64 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 2 | 2.64 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 20 | 2.64 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 17 | 2.64 |
| (1,1538) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 4 | 2.64 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 6 | 2.64 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 6 | 2.64 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 13 | 2.64 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 13 | 2.64 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 3 | 2.64 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 1 | 2.64 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 4 | 2.64 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 19 | 2.64 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 1 | 2.64 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 8 | 2.64 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 19 | 2.64 |
| (1,1400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 5 | 2.64 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 1 | 2.64 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 1 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 7 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 7 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 7 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 7 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 7 | 2.64 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 7 | 2.64 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 19 | 2.64 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 19 | 2.64 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 19 | 2.64 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 1 | 2.64 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 18 | 2.64 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 3 | 2.64 |
| (1,1172) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 20 | 2.64 |
| (1,1172) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 20 | 2.64 |
| (1,1172) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 20 | 2.64 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 16 | 2.64 |
| (1,1168) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 18 | 2.64 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 6 | 2.64 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 18 | 2.64 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 18 | 2.64 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 3 | 2.64 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 6 | 2.64 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 15 | 2.64 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 18 | 2.64 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 8 | 2.64 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 16 | 2.64 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 9 | 2.64 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 18 | 2.64 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 3 | 2.64 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 13 | 2.64 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 14 | 2.64 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 9 | 2.64 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 10 | 2.64 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 12 | 2.64 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 11 | 2.64 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 14 | 2.64 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 2 | 2.64 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 12 | 2.64 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 9 | 2.64 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 12 | 2.64 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 10 | 2.64 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 10 | 2.64 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 10 | 2.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 18 | 2.64 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 18 | 2.64 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 18 | 2.64 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 18 | 2.64 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 18 | 2.64 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 18 | 2.64 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 5 | 2.64 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 5 | 2.64 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 5 | 2.64 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 9 | 2.64 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 9 | 2.64 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 9 | 2.64 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 15 | 2.64 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 15 | 2.64 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 15 | 2.64 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 1 | 2.64 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 1 | 2.64 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 2 | 2.64 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 3 | 2.64 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 13 | 2.64 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 13 | 2.64 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 17 | 2.64 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 17 | 2.64 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 1 | 2.64 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 1 | 2.64 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 12 | 2.64 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 7 | 2.64 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 1 | 2.64 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 1 | 2.64 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 1 | 2.64 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 6 | 2.64 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 19 | 2.64 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 15 | 2.64 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 20 | 2.63 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 4 | 2.63 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 17 | 2.63 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 1 | 2.63 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 4 | 2.63 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 4 | 2.63 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 6 | 2.63 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 6 | 2.63 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 10 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 10 | 2.63 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 7 | 2.63 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 7 | 2.63 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 7 | 2.63 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 7 | 2.63 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 7 | 2.63 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 7 | 2.63 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 2 | 2.63 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 2 | 2.63 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 7 | 2.63 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 7 | 2.63 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 9 | 2.63 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 9 | 2.63 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 9 | 2.63 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 9 | 2.63 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 9 | 2.63 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 9 | 2.63 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 2.63 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 2.63 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 9 | 2.63 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 9 | 2.63 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 20 | 2.63 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 2.63 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 20 | 2.63 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 2.63 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 20 | 2.63 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 2.63 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 16 | 2.63 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 16 | 2.63 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 18 | 2.63 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 18 | 2.63 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 10 | 2.63 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 10 | 2.63 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 15 | 2.63 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 15 | 2.63 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD11 | 3 | 2.63 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD12 | 3 | 2.63 |
| (1,8984) | 1:75:A:GLN:HG2 | 1:78:A:ILE:HD13 | 3 | 2.63 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD11 | 3 | 2.63 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD12 | 3 | 2.63 |
| (1,8984) | 1:75:A:GLN:HG3 | 1:78:A:ILE:HD13 | 3 | 2.63 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 2 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 2 | 2.63 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 16 | 2.63 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 16 | 2.63 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 20 | 2.63 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 20 | 2.63 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 14 | 2.63 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 14 | 2.63 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 3 | 2.63 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 3 | 2.63 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 18 | 2.63 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 18 | 2.63 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 18 | 2.63 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 18 | 2.63 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 9 | 2.63 |
| (1,8850) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 9 | 2.63 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 9 | 2.63 |
| (1,8850) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 9 | 2.63 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 9 | 2.63 |
| (1,8850) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 9 | 2.63 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 2.63 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 2.63 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 2.63 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 2.63 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 2.63 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 2.63 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 8 | 2.63 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 8 | 2.63 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 8 | 2.63 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 8 | 2.63 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 7 | 2.63 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 7 | 2.63 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 14 | 2.63 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 14 | 2.63 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB2 | 16 | 2.63 |
| (1,8642) | 1:25:A:PHE:HA | 1:32:A:SER:HB3 | 16 | 2.63 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 10 | 2.63 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 10 | 2.63 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 2 | 2.63 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 2 | 2.63 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 7 | 2.63 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 7 | 2.63 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 17 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 17 | 2.63 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 12 | 2.63 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 12 | 2.63 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 5 | 2.63 |
| (1,8158) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HG | 2 | 2.63 |
| (1,8158) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HG | 2 | 2.63 |
| (1,8158) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HG | 2 | 2.63 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 9 | 2.63 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 17 | 2.63 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 5 | 2.63 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 13 | 2.63 |
| (1,7516) | 1:14:A:ARG:H | 1:14:A:ARG:HD2 | 11 | 2.63 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 17 | 2.63 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 2 | 2.63 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 10 | 2.63 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 8 | 2.63 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 11 | 2.63 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 11 | 2.63 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 11 | 2.63 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 4 | 2.63 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 5 | 2.63 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 10 | 2.63 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 10 | 2.63 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 4 | 2.63 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 5 | 2.63 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 4 | 2.63 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 4 | 2.63 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 5 | 2.63 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 5 | 2.63 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 10 | 2.63 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 5 | 2.63 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 5 | 2.63 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 5 | 2.63 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 16 | 2.63 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 16 | 2.63 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 16 | 2.63 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 14 | 2.63 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 6 | 2.63 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 19 | 2.63 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 15 | 2.63 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 5 | 2.63 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 8 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 19 | 2.63 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 6 | 2.63 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 9 | 2.63 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 12 | 2.63 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 15 | 2.63 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 15 | 2.63 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 2 | 2.63 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 2 | 2.63 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 2 | 2.63 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 14 | 2.63 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 14 | 2.63 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 14 | 2.63 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 15 | 2.63 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 19 | 2.63 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 10 | 2.63 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 10 | 2.63 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 10 | 2.63 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 10 | 2.63 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 10 | 2.63 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 10 | 2.63 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 14 | 2.63 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 14 | 2.63 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 1 | 2.63 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 1 | 2.63 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 6 | 2.63 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 6 | 2.63 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 18 | 2.63 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 18 | 2.63 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 5 | 2.63 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 1 | 2.63 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 9 | 2.63 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 9 | 2.63 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 9 | 2.63 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 9 | 2.63 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 16 | 2.63 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 6 | 2.63 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 13 | 2.63 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 3 | 2.63 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 14 | 2.63 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 14 | 2.63 |
| (1,6308) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 6 | 2.63 |
| (1,6308) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 6 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6308) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 6 | 2.63 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 10 | 2.63 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 10 | 2.63 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 16 | 2.63 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 6 | 2.63 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 20 | 2.63 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 9 | 2.63 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 2 | 2.63 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 2 | 2.63 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 13 | 2.63 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 16 | 2.63 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 13 | 2.63 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 14 | 2.63 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 17 | 2.63 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 17 | 2.63 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 17 | 2.63 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 17 | 2.63 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 17 | 2.63 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 17 | 2.63 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 7 | 2.63 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 5 | 2.63 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 17 | 2.63 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 4 | 2.63 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 4 | 2.63 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 4 | 2.63 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 4 | 2.63 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 4 | 2.63 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 4 | 2.63 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 4 | 2.63 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 4 | 2.63 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 4 | 2.63 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 3 | 2.63 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 4 | 2.63 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 2 | 2.63 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 19 | 2.63 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 20 | 2.63 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 9 | 2.63 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 18 | 2.63 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 1 | 2.63 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 19 | 2.63 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 16 | 2.63 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 16 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 16 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 20 | 2.63 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 20 | 2.63 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 13 | 2.63 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 11 | 2.63 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 11 | 2.63 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 11 | 2.63 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 12 | 2.63 |
| (1,5272) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 18 | 2.63 |
| (1,5272) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 18 | 2.63 |
| (1,5272) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 18 | 2.63 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 9 | 2.63 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 9 | 2.63 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 11 | 2.63 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 11 | 2.63 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 11 | 2.63 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 12 | 2.63 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 18 | 2.63 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 18 | 2.63 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 18 | 2.63 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 12 | 2.63 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 10 | 2.63 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 17 | 2.63 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 17 | 2.63 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 17 | 2.63 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 5 | 2.63 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 14 | 2.63 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 16 | 2.63 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 13 | 2.63 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 20 | 2.63 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 13 | 2.63 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 2 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 2 | 2.63 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 2 | 2.63 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 2 | 2.63 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 2 | 2.63 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 2 | 2.63 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 2 | 2.63 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 2 | 2.63 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 2 | 2.63 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 1 | 2.63 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 1 | 2.63 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 1 | 2.63 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 1 | 2.63 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 4 | 2.63 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 1 | 2.63 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 14 | 2.63 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 14 | 2.63 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 14 | 2.63 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 11 | 2.63 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 9 | 2.63 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 9 | 2.63 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 4 | 2.63 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 4 | 2.63 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 6 | 2.63 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 6 | 2.63 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 14 | 2.63 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 9 | 2.63 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 9 | 2.63 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 9 | 2.63 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 11 | 2.63 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 11 | 2.63 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 7 | 2.63 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 7 | 2.63 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 7 | 2.63 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 7 | 2.63 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 7 | 2.63 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 7 | 2.63 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 2 | 2.63 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 7 | 2.63 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 7 | 2.63 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 10 | 2.63 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 10 | 2.63 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 10 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 10 | 2.63 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 9 | 2.63 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 9 | 2.63 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 2.63 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 2.63 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 11 | 2.63 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 16 | 2.63 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 6 | 2.63 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 6 | 2.63 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 6 | 2.63 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 6 | 2.63 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 6 | 2.63 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 6 | 2.63 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 15 | 2.63 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 15 | 2.63 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 15 | 2.63 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 15 | 2.63 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 15 | 2.63 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 15 | 2.63 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 16 | 2.63 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 18 | 2.63 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 18 | 2.63 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 10 | 2.63 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 10 | 2.63 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 4 | 2.63 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 2 | 2.63 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 2 | 2.63 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 16 | 2.63 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 16 | 2.63 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 20 | 2.63 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 20 | 2.63 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 6 | 2.63 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 14 | 2.63 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 14 | 2.63 |
| (1,3888) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 5 | 2.63 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 13 | 2.63 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 13 | 2.63 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 20 | 2.63 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 20 | 2.63 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 7 | 2.63 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 9 | 2.63 |
| (1,3812) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 9 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 9 | 2.63 |
| (1,3812) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 9 | 2.63 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 9 | 2.63 |
| (1,3812) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 9 | 2.63 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 2.63 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 2.63 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 2.63 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 2.63 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 2.63 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 2.63 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 3 | 2.63 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 3 | 2.63 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 12 | 2.63 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 2 | 2.63 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 2 | 2.63 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 8 | 2.63 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 8 | 2.63 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 8 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 1 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 1 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 1 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 1 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 3 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 3 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 3 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 3 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 14 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 14 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 14 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 14 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 17 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 17 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 17 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 17 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 20 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 20 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 20 | 2.63 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 20 | 2.63 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 5 | 2.63 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 10 | 2.63 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 10 | 2.63 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 13 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 13 | 2.63 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 13 | 2.63 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 17 | 2.63 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 17 | 2.63 |
| (1,3564) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 17 | 2.63 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 19 | 2.63 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 19 | 2.63 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 19 | 2.63 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 19 | 2.63 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 19 | 2.63 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 8 | 2.63 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 11 | 2.63 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 11 | 2.63 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 11 | 2.63 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 15 | 2.63 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 15 | 2.63 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 15 | 2.63 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 8 | 2.63 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 8 | 2.63 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 20 | 2.63 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 20 | 2.63 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 1 | 2.63 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 18 | 2.63 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 19 | 2.63 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 20 | 2.63 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 20 | 2.63 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 4 | 2.63 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 5 | 2.63 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 10 | 2.63 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 9 | 2.63 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 10 | 2.63 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 4 | 2.63 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 7 | 2.63 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 11 | 2.63 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 11 | 2.63 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 11 | 2.63 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 5 | 2.63 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 5 | 2.63 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 5 | 2.63 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 4 | 2.63 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 4 | 2.63 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 10 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 20 | 2.63 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 5 | 2.63 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 5 | 2.63 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 5 | 2.63 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 16 | 2.63 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 16 | 2.63 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 16 | 2.63 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 14 | 2.63 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 6 | 2.63 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 19 | 2.63 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 15 | 2.63 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 5 | 2.63 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 8 | 2.63 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 19 | 2.63 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 6 | 2.63 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 9 | 2.63 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 12 | 2.63 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 1 | 2.63 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 20 | 2.63 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 1 | 2.63 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 1 | 2.63 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 15 | 2.63 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 15 | 2.63 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 2 | 2.63 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 2 | 2.63 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 2 | 2.63 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 14 | 2.63 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 14 | 2.63 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 14 | 2.63 |
| (1,2649) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 5 | 2.63 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 7 | 2.63 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 7 | 2.63 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 7 | 2.63 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 19 | 2.63 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 10 | 2.63 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 10 | 2.63 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 10 | 2.63 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 10 | 2.63 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 10 | 2.63 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 10 | 2.63 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 14 | 2.63 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 14 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 1 | 2.63 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 1 | 2.63 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 6 | 2.63 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 6 | 2.63 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 18 | 2.63 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 18 | 2.63 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 5 | 2.63 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 5 | 2.63 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 1 | 2.63 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 9 | 2.63 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 9 | 2.63 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 9 | 2.63 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 9 | 2.63 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 11 | 2.63 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 14 | 2.63 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 11 | 2.63 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 16 | 2.63 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 5 | 2.63 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 6 | 2.63 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 13 | 2.63 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 16 | 2.63 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 16 | 2.63 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 16 | 2.63 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 7 | 2.63 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 13 | 2.63 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 3 | 2.63 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 17 | 2.63 |
| (1,1980) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 6 | 2.63 |
| (1,1980) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 6 | 2.63 |
| (1,1980) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 6 | 2.63 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 19 | 2.63 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 10 | 2.63 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 10 | 2.63 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 13 | 2.63 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 13 | 2.63 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 13 | 2.63 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 16 | 2.63 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 4 | 2.63 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 6 | 2.63 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 20 | 2.63 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 14 | 2.63 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 14 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 9 | 2.63 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 2 | 2.63 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 6 | 2.63 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 11 | 2.63 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 2 | 2.63 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 2 | 2.63 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 13 | 2.63 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 14 | 2.63 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 14 | 2.63 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 14 | 2.63 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 12 | 2.63 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 16 | 2.63 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 4 | 2.63 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 4 | 2.63 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 13 | 2.63 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 14 | 2.63 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 7 | 2.63 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 5 | 2.63 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 17 | 2.63 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 4 | 2.63 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 4 | 2.63 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 4 | 2.63 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 4 | 2.63 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 4 | 2.63 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 4 | 2.63 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 4 | 2.63 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 4 | 2.63 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 4 | 2.63 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 3 | 2.63 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 19 | 2.63 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 19 | 2.63 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 4 | 2.63 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 2 | 2.63 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 1 | 2.63 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 4 | 2.63 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 5 | 2.63 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 8 | 2.63 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 10 | 2.63 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 16 | 2.63 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 17 | 2.63 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 20 | 2.63 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 12 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 3 | 2.63 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 18 | 2.63 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 5 | 2.63 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 5 | 2.63 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 5 | 2.63 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 19 | 2.63 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 16 | 2.63 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 20 | 2.63 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 9 | 2.63 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 18 | 2.63 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 18 | 2.63 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 1 | 2.63 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 19 | 2.63 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 16 | 2.63 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 16 | 2.63 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 16 | 2.63 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 5 | 2.63 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 5 | 2.63 |
| (1,870) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 5 | 2.63 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 5 | 2.63 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 5 | 2.63 |
| (1,870) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 5 | 2.63 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 1 | 2.63 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 13 | 2.63 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 11 | 2.63 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 8 | 2.63 |
| (1,616) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 20 | 2.63 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 4 | 2.63 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 5 | 2.63 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 5 | 2.63 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 5 | 2.63 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 11 | 2.63 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 11 | 2.63 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 11 | 2.63 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 15 | 2.63 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 12 | 2.63 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 5 | 2.63 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 5 | 2.63 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 6 | 2.63 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 6 | 2.63 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 19 | 2.63 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 1 | 2.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 11 | 2.63 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 11 | 2.63 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 11 | 2.63 |
| (3,783) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 19 | 2.62 |
| (3,783) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 19 | 2.62 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 11 | 2.62 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 11 | 2.62 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 20 | 2.62 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 20 | 2.62 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 5 | 2.62 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 5 | 2.62 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 12 | 2.62 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 12 | 2.62 |
| (1,9605) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 12 | 2.62 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 12 | 2.62 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 12 | 2.62 |
| (1,9605) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 12 | 2.62 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 8 | 2.62 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 8 | 2.62 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 2 | 2.62 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 2 | 2.62 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 2 | 2.62 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 2 | 2.62 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 2 | 2.62 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 2 | 2.62 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 4 | 2.62 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 4 | 2.62 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 4 | 2.62 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 4 | 2.62 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 4 | 2.62 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 4 | 2.62 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 4 | 2.62 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 4 | 2.62 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 18 | 2.62 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 18 | 2.62 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 18 | 2.62 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 18 | 2.62 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 18 | 2.62 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 18 | 2.62 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 13 | 2.62 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 13 | 2.62 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 13 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 13 | 2.62 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 15 | 2.62 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 15 | 2.62 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 15 | 2.62 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 15 | 2.62 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 10 | 2.62 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 10 | 2.62 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 10 | 2.62 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 10 | 2.62 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 10 | 2.62 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 10 | 2.62 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 2 | 2.62 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 2 | 2.62 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 2 | 2.62 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 2 | 2.62 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 2 | 2.62 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 2 | 2.62 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 12 | 2.62 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 12 | 2.62 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 2 | 2.62 |
| (1,9079) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 2 | 2.62 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 3 | 2.62 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 3 | 2.62 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 3 | 2.62 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 3 | 2.62 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB2 | 7 | 2.62 |
| (1,9002) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HB3 | 7 | 2.62 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB2 | 7 | 2.62 |
| (1,9002) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HB3 | 7 | 2.62 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 3 | 2.62 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 3 | 2.62 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 10 | 2.62 |
| (1,8934) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 10 | 2.62 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 5 | 2.62 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 5 | 2.62 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 12 | 2.62 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 12 | 2.62 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 2 | 2.62 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 2 | 2.62 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 2 | 2.62 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 2 | 2.62 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 2 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 2 | 2.62 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 2.62 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 2.62 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 9 | 2.62 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 9 | 2.62 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 3 | 2.62 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 3 | 2.62 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 15 | 2.62 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 15 | 2.62 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 6 | 2.62 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 6 | 2.62 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 6 | 2.62 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 2 | 2.62 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 2 | 2.62 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 2 | 2.62 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 3 | 2.62 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 3 | 2.62 |
| (1,7967) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 5 | 2.62 |
| (1,7967) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 5 | 2.62 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 1 | 2.62 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 1 | 2.62 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 1 | 2.62 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 5 | 2.62 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 4 | 2.62 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 4 | 2.62 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 4 | 2.62 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 16 | 2.62 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 19 | 2.62 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 11 | 2.62 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 11 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 4 | 2.62 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 15 | 2.62 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 4 | 2.62 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 12 | 2.62 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 20 | 2.62 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 19 | 2.62 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 19 | 2.62 |
| (1,7026) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 6 | 2.62 |
| (1,7026) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 6 | 2.62 |
| (1,7026) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 6 | 2.62 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 13 | 2.62 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 4 | 2.62 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 16 | 2.62 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 11 | 2.62 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 12 | 2.62 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 12 | 2.62 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 12 | 2.62 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 11 | 2.62 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 11 | 2.62 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 11 | 2.62 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 18 | 2.62 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 18 | 2.62 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 3 | 2.62 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 7 | 2.62 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 12 | 2.62 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 19 | 2.62 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 6 | 2.62 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 14 | 2.62 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 10 | 2.62 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 3 | 2.62 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 3 | 2.62 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 20 | 2.62 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 8 | 2.62 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 8 | 2.62 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 8 | 2.62 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 11 | 2.62 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 17 | 2.62 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 2 | 2.62 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 14 | 2.62 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 18 | 2.62 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 18 | 2.62 |
| (1,6609) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 18 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 8 | 2.62 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 18 | 2.62 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 18 | 2.62 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 18 | 2.62 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 11 | 2.62 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 11 | 2.62 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 11 | 2.62 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 18 | 2.62 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 18 | 2.62 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 18 | 2.62 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 2 | 2.62 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 2 | 2.62 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 2 | 2.62 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 10 | 2.62 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 10 | 2.62 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 11 | 2.62 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 11 | 2.62 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 11 | 2.62 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 14 | 2.62 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 14 | 2.62 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 19 | 2.62 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 19 | 2.62 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 17 | 2.62 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 17 | 2.62 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 17 | 2.62 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 19 | 2.62 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 11 | 2.62 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 11 | 2.62 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 11 | 2.62 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 11 | 2.62 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 11 | 2.62 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 11 | 2.62 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 15 | 2.62 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 14 | 2.62 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 14 | 2.62 |
| (1,6163) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 15 | 2.62 |
| (1,6163) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 15 | 2.62 |
| (1,6163) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 15 | 2.62 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 9 | 2.62 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 5 | 2.62 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 19 | 2.62 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 16 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 16 | 2.62 |
| (1,6051) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 16 | 2.62 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 8 | 2.62 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 8 | 2.62 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 3 | 2.62 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 3 | 2.62 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 7 | 2.62 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 7 | 2.62 |
| (1,5974) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 7 | 2.62 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 18 | 2.62 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 20 | 2.62 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 2 | 2.62 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 5 | 2.62 |
| (1,5737) | 1:108:A:SER:H | 1:109:A:GLN:H | 11 | 2.62 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 15 | 2.62 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 15 | 2.62 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 15 | 2.62 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 19 | 2.62 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 19 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 12 | 2.62 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 12 | 2.62 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 19 | 2.62 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 1 | 2.62 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 16 | 2.62 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 2 | 2.62 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 15 | 2.62 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 16 | 2.62 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 16 | 2.62 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 16 | 2.62 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 16 | 2.62 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 16 | 2.62 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 16 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 16 | 2.62 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 16 | 2.62 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 16 | 2.62 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 10 | 2.62 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 12 | 2.62 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 17 | 2.62 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 12 | 2.62 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 12 | 2.62 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 12 | 2.62 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 10 | 2.62 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 14 | 2.62 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 20 | 2.62 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 20 | 2.62 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 20 | 2.62 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 20 | 2.62 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 20 | 2.62 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 20 | 2.62 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 20 | 2.62 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 20 | 2.62 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 20 | 2.62 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 6 | 2.62 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 2 | 2.62 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 20 | 2.62 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 14 | 2.62 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 16 | 2.62 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 17 | 2.62 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 13 | 2.62 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 13 | 2.62 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 13 | 2.62 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 7 | 2.62 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 6 | 2.62 |
| (1,4962) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 9 | 2.62 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 5 | 2.62 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 18 | 2.62 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 18 | 2.62 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 14 | 2.62 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 5 | 2.62 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 9 | 2.62 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 3 | 2.62 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 2 | 2.62 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 9 | 2.62 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 2 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 15 | 2.62 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 17 | 2.62 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 18 | 2.62 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 18 | 2.62 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 11 | 2.62 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 11 | 2.62 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 20 | 2.62 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 20 | 2.62 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 5 | 2.62 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 5 | 2.62 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 12 | 2.62 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 12 | 2.62 |
| (1,4596) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 12 | 2.62 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 12 | 2.62 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 12 | 2.62 |
| (1,4596) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 12 | 2.62 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 3 | 2.62 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 6 | 2.62 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 6 | 2.62 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 1 | 2.62 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 1 | 2.62 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 1 | 2.62 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 1 | 2.62 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 1 | 2.62 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 1 | 2.62 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 17 | 2.62 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 17 | 2.62 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 17 | 2.62 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 17 | 2.62 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 17 | 2.62 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 17 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 6 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 6 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 6 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 6 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 6 | 2.62 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 6 | 2.62 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 2 | 2.62 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 2 | 2.62 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 2 | 2.62 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 2 | 2.62 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 2 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 2 | 2.62 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 9 | 2.62 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 9 | 2.62 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 9 | 2.62 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 9 | 2.62 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 14 | 2.62 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 14 | 2.62 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 14 | 2.62 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 14 | 2.62 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 14 | 2.62 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 14 | 2.62 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 2 | 2.62 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 9 | 2.62 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 16 | 2.62 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 16 | 2.62 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 5 | 2.62 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 16 | 2.62 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 10 | 2.62 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 11 | 2.62 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 9 | 2.62 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 9 | 2.62 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 9 | 2.62 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 15 | 2.62 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 15 | 2.62 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 10 | 2.62 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 10 | 2.62 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 13 | 2.62 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 13 | 2.62 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 4 | 2.62 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 4 | 2.62 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 4 | 2.62 |
| (1,4110) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 5 | 2.62 |
| (1,4110) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 5 | 2.62 |
| (1,4110) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 5 | 2.62 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 10 | 2.62 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 10 | 2.62 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 10 | 2.62 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 10 | 2.62 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 10 | 2.62 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 10 | 2.62 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 19 | 2.62 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 19 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 19 | 2.62 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 19 | 2.62 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 19 | 2.62 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 19 | 2.62 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 2 | 2.62 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 2 | 2.62 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 2 | 2.62 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 2 | 2.62 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 2 | 2.62 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 2 | 2.62 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 2 | 2.62 |
| (1,4054) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 2 | 2.62 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 10 | 2.62 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 10 | 2.62 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 11 | 2.62 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 11 | 2.62 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 11 | 2.62 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 11 | 2.62 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 1 | 2.62 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 1 | 2.62 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 1 | 2.62 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 3 | 2.62 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 3 | 2.62 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 3 | 2.62 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 3 | 2.62 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 3 | 2.62 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 3 | 2.62 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 13 | 2.62 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 13 | 2.62 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 13 | 2.62 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 13 | 2.62 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 13 | 2.62 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 13 | 2.62 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 3 | 2.62 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 3 | 2.62 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 3 | 2.62 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 3 | 2.62 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 3 | 2.62 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 3 | 2.62 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 10 | 2.62 |
| (1,3908) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 10 | 2.62 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 5 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 15 | 2.62 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 14 | 2.62 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 14 | 2.62 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 11 | 2.62 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 11 | 2.62 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 16 | 2.62 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 15 | 2.62 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 15 | 2.62 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 4 | 2.62 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 4 | 2.62 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 3 | 2.62 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.62 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.62 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.62 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 15 | 2.62 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 2 | 2.62 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 12 | 2.62 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 12 | 2.62 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 12 | 2.62 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 12 | 2.62 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 12 | 2.62 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 12 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 10 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 10 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 10 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 10 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 12 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 12 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 12 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 12 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 15 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 15 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 15 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 15 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 16 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 16 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 16 | 2.62 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 16 | 2.62 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 16 | 2.62 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 16 | 2.62 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 2 | 2.62 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 2 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 2 | 2.62 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 2 | 2.62 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 18 | 2.62 |
| (1,3586) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 18 | 2.62 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 3 | 2.62 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 3 | 2.62 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 3 | 2.62 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 3 | 2.62 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 16 | 2.62 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 17 | 2.62 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 17 | 2.62 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 15 | 2.62 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 12 | 2.62 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 18 | 2.62 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 7 | 2.62 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 9 | 2.62 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 1 | 2.62 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 16 | 2.62 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 20 | 2.62 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 20 | 2.62 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 20 | 2.62 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 17 | 2.62 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 7 | 2.62 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 20 | 2.62 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 12 | 2.62 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 15 | 2.62 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 18 | 2.62 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 18 | 2.62 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 18 | 2.62 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 5 | 2.62 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 5 | 2.62 |
| (1,3076) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 6 | 2.62 |
| (1,3076) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 6 | 2.62 |
| (1,3076) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 6 | 2.62 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 4 | 2.62 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 17 | 2.62 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 7 | 2.62 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 11 | 2.62 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 12 | 2.62 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 12 | 2.62 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 12 | 2.62 |
| (1,2926) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 7 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 11 | 2.62 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 11 | 2.62 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 11 | 2.62 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 18 | 2.62 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 18 | 2.62 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 3 | 2.62 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 7 | 2.62 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 12 | 2.62 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 19 | 2.62 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 5 | 2.62 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 6 | 2.62 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 14 | 2.62 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 7 | 2.62 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 7 | 2.62 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 7 | 2.62 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 7 | 2.62 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 7 | 2.62 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 7 | 2.62 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 10 | 2.62 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 3 | 2.62 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 3 | 2.62 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 20 | 2.62 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 8 | 2.62 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 8 | 2.62 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 8 | 2.62 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 11 | 2.62 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 17 | 2.62 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 2 | 2.62 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 14 | 2.62 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 14 | 2.62 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 14 | 2.62 |
| (1,2532) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 14 | 2.62 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 9 | 2.62 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 18 | 2.62 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 18 | 2.62 |
| (1,2466) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 18 | 2.62 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 8 | 2.62 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 5 | 2.62 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 8 | 2.62 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 18 | 2.62 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 18 | 2.62 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 18 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 11 | 2.62 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 11 | 2.62 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 11 | 2.62 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 18 | 2.62 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 18 | 2.62 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 18 | 2.62 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 1 | 2.62 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 2 | 2.62 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 2 | 2.62 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 2 | 2.62 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 1 | 2.62 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 1 | 2.62 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 1 | 2.62 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 3 | 2.62 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 3 | 2.62 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 3 | 2.62 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 2 | 2.62 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 11 | 2.62 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 11 | 2.62 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 11 | 2.62 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 1 | 2.62 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 3 | 2.62 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 14 | 2.62 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 14 | 2.62 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 19 | 2.62 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 19 | 2.62 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 2 | 2.62 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 2 | 2.62 |
| (1,1973) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 2 | 2.62 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 2 | 2.62 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 2 | 2.62 |
| (1,1973) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 2 | 2.62 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 2 | 2.62 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 2 | 2.62 |
| (1,1973) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 2 | 2.62 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 17 | 2.62 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 17 | 2.62 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 17 | 2.62 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 11 | 2.62 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 11 | 2.62 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 11 | 2.62 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 11 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 11 | 2.62 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 11 | 2.62 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 8 | 2.62 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 8 | 2.62 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 13 | 2.62 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 13 | 2.62 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 15 | 2.62 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 9 | 2.62 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 14 | 2.62 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 14 | 2.62 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 12 | 2.62 |
| (1,1766) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 15 | 2.62 |
| (1,1766) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 15 | 2.62 |
| (1,1766) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 15 | 2.62 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 20 | 2.62 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 20 | 2.62 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 20 | 2.62 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 9 | 2.62 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 5 | 2.62 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 19 | 2.62 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 3 | 2.62 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 6 | 2.62 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 16 | 2.62 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 16 | 2.62 |
| (1,1602) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 16 | 2.62 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 1 | 2.62 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 1 | 2.62 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 1 | 2.62 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 7 | 2.62 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 7 | 2.62 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 7 | 2.62 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 6 | 2.62 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 20 | 2.62 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 8 | 2.62 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 8 | 2.62 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 3 | 2.62 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 3 | 2.62 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 7 | 2.62 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 7 | 2.62 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 5 | 2.62 |
| (1,1446) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 18 | 2.62 |
| (1,1438) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 7 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 18 | 2.62 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 10 | 2.62 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 10 | 2.62 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 6 | 2.62 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 12 | 2.62 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 20 | 2.62 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 2 | 2.62 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 9 | 2.62 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 9 | 2.62 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 9 | 2.62 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 9 | 2.62 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 9 | 2.62 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 9 | 2.62 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 5 | 2.62 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 12 | 2.62 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 13 | 2.62 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 10 | 2.62 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 11 | 2.62 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 19 | 2.62 |
| (1,1022) | 1:108:A:SER:H | 1:109:A:GLN:H | 11 | 2.62 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 15 | 2.62 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 15 | 2.62 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 15 | 2.62 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 16 | 2.62 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 16 | 2.62 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 16 | 2.62 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 19 | 2.62 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 19 | 2.62 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 4 | 2.62 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 9 | 2.62 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 9 | 2.62 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 2 | 2.62 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 2 | 2.62 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 2 | 2.62 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 14 | 2.62 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 14 | 2.62 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 14 | 2.62 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 19 | 2.62 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 4 | 2.62 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 1 | 2.62 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 3 | 2.62 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 16 | 2.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 20 | 2.62 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 20 | 2.62 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 4 | 2.62 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 15 | 2.62 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 16 | 2.62 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 16 | 2.62 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 16 | 2.62 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 16 | 2.62 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 16 | 2.62 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 16 | 2.62 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 16 | 2.62 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 16 | 2.62 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 16 | 2.62 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 10 | 2.62 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 2 | 2.62 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 12 | 2.62 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 17 | 2.62 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 10 | 2.62 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 12 | 2.62 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 12 | 2.62 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 12 | 2.62 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 3 | 2.62 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 6 | 2.62 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 6 | 2.62 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 6 | 2.62 |
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 14 | 2.62 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 16 | 2.62 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 16 | 2.62 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 16 | 2.62 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 1 | 2.62 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 1 | 2.62 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 15 | 2.62 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 4 | 2.62 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 11 | 2.62 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 11 | 2.62 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 11 | 2.62 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 11 | 2.62 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 11 | 2.62 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 11 | 2.62 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 5 | 2.62 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 18 | 2.61 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 16 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 5 | 2.61 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 15 | 2.61 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 15 | 2.61 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 10 | 2.61 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 10 | 2.61 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 10 | 2.61 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 10 | 2.61 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 10 | 2.61 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 10 | 2.61 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 7 | 2.61 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 7 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 9 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 9 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 9 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 9 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 9 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 9 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 15 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 15 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 15 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 15 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 15 | 2.61 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 15 | 2.61 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 18 | 2.61 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 18 | 2.61 |
| (1,9371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 1 | 2.61 |
| (1,9371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 1 | 2.61 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 5 | 2.61 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 5 | 2.61 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 13 | 2.61 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 13 | 2.61 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 11 | 2.61 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 11 | 2.61 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 17 | 2.61 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 17 | 2.61 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 7 | 2.61 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 7 | 2.61 |
| (1,9036) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 7 | 2.61 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 7 | 2.61 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 7 | 2.61 |
| (1,9036) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 7 | 2.61 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 13 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 13 | 2.61 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 14 | 2.61 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 14 | 2.61 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 14 | 2.61 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 14 | 2.61 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 14 | 2.61 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 14 | 2.61 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 7 | 2.61 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 7 | 2.61 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 19 | 2.61 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 19 | 2.61 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 2 | 2.61 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 2 | 2.61 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 7 | 2.61 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 7 | 2.61 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 4 | 2.61 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 4 | 2.61 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 6 | 2.61 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 6 | 2.61 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 5 | 2.61 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 5 | 2.61 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 5 | 2.61 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 5 | 2.61 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 10 | 2.61 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 10 | 2.61 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 10 | 2.61 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 10 | 2.61 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 20 | 2.61 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 20 | 2.61 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 20 | 2.61 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 20 | 2.61 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 20 | 2.61 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 20 | 2.61 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 9 | 2.61 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 9 | 2.61 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 9 | 2.61 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 9 | 2.61 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 9 | 2.61 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 9 | 2.61 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 9 | 2.61 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 9 | 2.61 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 9 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7857) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HB | 2 | 2.61 |
| (1,7857) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HB | 2 | 2.61 |
| (1,7857) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HB | 2 | 2.61 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 16 | 2.61 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 20 | 2.61 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 20 | 2.61 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 20 | 2.61 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 20 | 2.61 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 20 | 2.61 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 20 | 2.61 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 12 | 2.61 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 12 | 2.61 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 15 | 2.61 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 8 | 2.61 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 20 | 2.61 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD1 | 14 | 2.61 |
| (1,7504) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HD2 | 14 | 2.61 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 9 | 2.61 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 9 | 2.61 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 9 | 2.61 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 9 | 2.61 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 9 | 2.61 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 9 | 2.61 |
| (1,7276) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 13 | 2.61 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 5 | 2.61 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 5 | 2.61 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 7 | 2.61 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 10 | 2.61 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 13 | 2.61 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 13 | 2.61 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 15 | 2.61 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 15 | 2.61 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 6 | 2.61 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 6 | 2.61 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 20 | 2.61 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 14 | 2.61 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 9 | 2.61 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 7 | 2.61 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 5 | 2.61 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 5 | 2.61 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 5 | 2.61 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 5 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 3 | 2.61 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 3 | 2.61 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 3 | 2.61 |
| (1,6675) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 2 | 2.61 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 7 | 2.61 |
| (1,6653) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 1 | 2.61 |
| (1,6653) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 1 | 2.61 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 8 | 2.61 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 8 | 2.61 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 3 | 2.61 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 12 | 2.61 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 12 | 2.61 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 12 | 2.61 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 13 | 2.61 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 13 | 2.61 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 13 | 2.61 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 15 | 2.61 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 9 | 2.61 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 9 | 2.61 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 9 | 2.61 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 4 | 2.61 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 4 | 2.61 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 10 | 2.61 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 10 | 2.61 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 10 | 2.61 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 18 | 2.61 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 18 | 2.61 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 5 | 2.61 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 5 | 2.61 |
| (1,6256) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 5 | 2.61 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 5 | 2.61 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 5 | 2.61 |
| (1,6256) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 5 | 2.61 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 5 | 2.61 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 5 | 2.61 |
| (1,6256) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 5 | 2.61 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 5 | 2.61 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 5 | 2.61 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 8 | 2.61 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 8 | 2.61 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 12 | 2.61 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 5 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 5 | 2.61 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 5 | 2.61 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 3 | 2.61 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 1 | 2.61 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 13 | 2.61 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 13 | 2.61 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 13 | 2.61 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 2 | 2.61 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 11 | 2.61 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 7 | 2.61 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 6 | 2.61 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 6 | 2.61 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 6 | 2.61 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 14 | 2.61 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 14 | 2.61 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 5 | 2.61 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 12 | 2.61 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 2 | 2.61 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 3 | 2.61 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 14 | 2.61 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 15 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 5 | 2.61 |
| (1,5641) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 5 | 2.61 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 11 | 2.61 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 13 | 2.61 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 11 | 2.61 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 10 | 2.61 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 9 | 2.61 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 8 | 2.61 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 5 | 2.61 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 12 | 2.61 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 9 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 10 | 2.61 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 18 | 2.61 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 18 | 2.61 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 18 | 2.61 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 6 | 2.61 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 9 | 2.61 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 12 | 2.61 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 17 | 2.61 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 19 | 2.61 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 13 | 2.61 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 3 | 2.61 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 12 | 2.61 |
| (1,5077) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HG13 | 11 | 2.61 |
| (1,5077) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HG13 | 11 | 2.61 |
| (1,5077) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HG13 | 11 | 2.61 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 10 | 2.61 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 10 | 2.61 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 10 | 2.61 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 16 | 2.61 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 8 | 2.61 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 8 | 2.61 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 8 | 2.61 |
| (1,4960) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 14 | 2.61 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 12 | 2.61 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 11 | 2.61 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 11 | 2.61 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 11 | 2.61 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 18 | 2.61 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 18 | 2.61 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 18 | 2.61 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 18 | 2.61 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 18 | 2.61 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 18 | 2.61 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 18 | 2.61 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 18 | 2.61 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 18 | 2.61 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 16 | 2.61 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 7 | 2.61 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 7 | 2.61 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 7 | 2.61 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 15 | 2.61 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 15 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 15 | 2.61 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 10 | 2.61 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 12 | 2.61 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 12 | 2.61 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 12 | 2.61 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 6 | 2.61 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 6 | 2.61 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 6 | 2.61 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 6 | 2.61 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 6 | 2.61 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 6 | 2.61 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 6 | 2.61 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 3 | 2.61 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 3 | 2.61 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 16 | 2.61 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 16 | 2.61 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 17 | 2.61 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 17 | 2.61 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 1 | 2.61 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 10 | 2.61 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 10 | 2.61 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 2 | 2.61 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 2 | 2.61 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 2 | 2.61 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 5 | 2.61 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 5 | 2.61 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 5 | 2.61 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 2.61 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 2.61 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 2.61 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 19 | 2.61 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 19 | 2.61 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 19 | 2.61 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 13 | 2.61 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 13 | 2.61 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 11 | 2.61 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 11 | 2.61 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 11 | 2.61 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 11 | 2.61 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 11 | 2.61 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 11 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 9 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 9 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 9 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 9 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 9 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 9 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 15 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 15 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 15 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 15 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 15 | 2.61 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 15 | 2.61 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 18 | 2.61 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 18 | 2.61 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 18 | 2.61 |
| (1,4372) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 1 | 2.61 |
| (1,4372) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 1 | 2.61 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 17 | 2.61 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 18 | 2.61 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 5 | 2.61 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 5 | 2.61 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 10 | 2.61 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 10 | 2.61 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 10 | 2.61 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 9 | 2.61 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 9 | 2.61 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 18 | 2.61 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 18 | 2.61 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 3 | 2.61 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 3 | 2.61 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 15 | 2.61 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 2.61 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 18 | 2.61 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 18 | 2.61 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 18 | 2.61 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 18 | 2.61 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 8 | 2.61 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 8 | 2.61 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 8 | 2.61 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 10 | 2.61 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 4 | 2.61 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 4 | 2.61 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 5 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 5 | 2.61 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 5 | 2.61 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 7 | 2.61 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 7 | 2.61 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 7 | 2.61 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 8 | 2.61 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 11 | 2.61 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 10 | 2.61 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 13 | 2.61 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 2 | 2.61 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 2 | 2.61 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 6 | 2.61 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 6 | 2.61 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 12 | 2.61 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 12 | 2.61 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 1 | 2.61 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 1 | 2.61 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 1 | 2.61 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 1 | 2.61 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 1 | 2.61 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 1 | 2.61 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 13 | 2.61 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 13 | 2.61 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 14 | 2.61 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 14 | 2.61 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 14 | 2.61 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 14 | 2.61 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 14 | 2.61 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 14 | 2.61 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 5 | 2.61 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 5 | 2.61 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 7 | 2.61 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 7 | 2.61 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 14 | 2.61 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 10 | 2.61 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 10 | 2.61 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 10 | 2.61 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 10 | 2.61 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 10 | 2.61 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 10 | 2.61 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 18 | 2.61 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 18 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 8 | 2.61 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 17 | 2.61 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 6 | 2.61 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 12 | 2.61 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 12 | 2.61 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 16 | 2.61 |
| (1,3088) | 1:38:A:SER:HA | 1:38:A:SER:HB2 | 19 | 2.61 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 16 | 2.61 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 11 | 2.61 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 10 | 2.61 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 13 | 2.61 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 13 | 2.61 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 15 | 2.61 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 15 | 2.61 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 11 | 2.61 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 11 | 2.61 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 16 | 2.61 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 16 | 2.61 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 20 | 2.61 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 14 | 2.61 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 9 | 2.61 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 7 | 2.61 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 19 | 2.61 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 19 | 2.61 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 7 | 2.61 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 7 | 2.61 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 16 | 2.61 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 16 | 2.61 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 16 | 2.61 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 3 | 2.61 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 3 | 2.61 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 3 | 2.61 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 19 | 2.61 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 7 | 2.61 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 13 | 2.61 |
| (1,2562) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 2 | 2.61 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 7 | 2.61 |
| (1,2528) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 1 | 2.61 |
| (1,2528) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 1 | 2.61 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 8 | 2.61 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 8 | 2.61 |
| (1,2482) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 12 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 3 | 2.61 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 12 | 2.61 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 12 | 2.61 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 12 | 2.61 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 16 | 2.61 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 14 | 2.61 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 12 | 2.61 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 12 | 2.61 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 12 | 2.61 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 8 | 2.61 |
| (1,2196) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 3 | 2.61 |
| (1,2196) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 3 | 2.61 |
| (1,2196) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 3 | 2.61 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 13 | 2.61 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 13 | 2.61 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 13 | 2.61 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 15 | 2.61 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 13 | 2.61 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 11 | 2.61 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 11 | 2.61 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 11 | 2.61 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 11 | 2.61 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 11 | 2.61 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 11 | 2.61 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 11 | 2.61 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 11 | 2.61 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 11 | 2.61 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 8 | 2.61 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 8 | 2.61 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 8 | 2.61 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 4 | 2.61 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 4 | 2.61 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 10 | 2.61 |
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 10 | 2.61 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 10 | 2.61 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 3 | 2.61 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 3 | 2.61 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 3 | 2.61 |
| (1,1936) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 17 | 2.61 |
| (1,1936) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 17 | 2.61 |
| (1,1936) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 17 | 2.61 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 5 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 5 | 2.61 |
| (1,1910) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 5 | 2.61 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 5 | 2.61 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 5 | 2.61 |
| (1,1910) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 5 | 2.61 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 5 | 2.61 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 5 | 2.61 |
| (1,1910) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 5 | 2.61 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 3 | 2.61 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 5 | 2.61 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 5 | 2.61 |
| (1,1840) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 16 | 2.61 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 17 | 2.61 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 8 | 2.61 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 8 | 2.61 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 12 | 2.61 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 18 | 2.61 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 18 | 2.61 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 18 | 2.61 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 3 | 2.61 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 1 | 2.61 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 19 | 2.61 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 15 | 2.61 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 15 | 2.61 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 15 | 2.61 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 17 | 2.61 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 17 | 2.61 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 17 | 2.61 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 17 | 2.61 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 17 | 2.61 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 17 | 2.61 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 15 | 2.61 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 15 | 2.61 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 2 | 2.61 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 11 | 2.61 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 15 | 2.61 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 7 | 2.61 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 2 | 2.61 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 3 | 2.61 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 3 | 2.61 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 3 | 2.61 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 3 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 3 | 2.61 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 3 | 2.61 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 6 | 2.61 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 6 | 2.61 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 14 | 2.61 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 11 | 2.61 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 11 | 2.61 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 11 | 2.61 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 11 | 2.61 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 11 | 2.61 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 11 | 2.61 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 14 | 2.61 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 15 | 2.61 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 15 | 2.61 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 15 | 2.61 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 2 | 2.61 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 9 | 2.61 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 11 | 2.61 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 11 | 2.61 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 11 | 2.61 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 5 | 2.61 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 12 | 2.61 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 12 | 2.61 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 2 | 2.61 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 3 | 2.61 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 15 | 2.61 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 4 | 2.61 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 16 | 2.61 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 18 | 2.61 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 9 | 2.61 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 2 | 2.61 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 11 | 2.61 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 13 | 2.61 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 11 | 2.61 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 10 | 2.61 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 7 | 2.61 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 4 | 2.61 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 4 | 2.61 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 4 | 2.61 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 2 | 2.61 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 2 | 2.61 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 2 | 2.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,382) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 18 | 2.61 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 13 | 2.61 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 19 | 2.61 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 20 | 2.61 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 20 | 2.61 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 3 | 2.61 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 3 | 2.61 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 12 | 2.61 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 12 | 2.61 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 12 | 2.61 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 15 | 2.61 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 15 | 2.61 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 15 | 2.61 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 15 | 2.61 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 15 | 2.61 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 15 | 2.61 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 15 | 2.61 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 15 | 2.61 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 15 | 2.61 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 11 | 2.61 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 11 | 2.61 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 11 | 2.61 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 4 | 2.61 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 3 | 2.61 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 20 | 2.6 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 17 | 2.6 |
| (4,164) | 1:98:A:SER:CB | 1:28:A:ILE:H | 16 | 2.6 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE21 | 16 | 2.6 |
| (4,5) | 1:15:A:MET:CB | 1:49:A:GLN:HE22 | 16 | 2.6 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 16 | 2.6 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 11 | 2.6 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 11 | 2.6 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 8 | 2.6 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 8 | 2.6 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 16 | 2.6 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 16 | 2.6 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 19 | 2.6 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 19 | 2.6 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 10 | 2.6 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 10 | 2.6 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 10 | 2.6 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 10 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 18 | 2.6 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 18 | 2.6 |
| (1,9420) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 5 | 2.6 |
| (1,9420) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 5 | 2.6 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 18 | 2.6 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 18 | 2.6 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 19 | 2.6 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 19 | 2.6 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 1 | 2.6 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 1 | 2.6 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 3 | 2.6 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 3 | 2.6 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 19 | 2.6 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 19 | 2.6 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 4 | 2.6 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 4 | 2.6 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 11 | 2.6 |
| (1,9250) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 11 | 2.6 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 11 | 2.6 |
| (1,9250) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 11 | 2.6 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 2 | 2.6 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 2 | 2.6 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 3 | 2.6 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 3 | 2.6 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 19 | 2.6 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 19 | 2.6 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 1 | 2.6 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 1 | 2.6 |
| (1,8988) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 12 | 2.6 |
| (1,8988) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 12 | 2.6 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 16 | 2.6 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 16 | 2.6 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 8 | 2.6 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 8 | 2.6 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 14 | 2.6 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 14 | 2.6 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 9 | 2.6 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 9 | 2.6 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 15 | 2.6 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 15 | 2.6 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 7 | 2.6 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 7 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 2.6 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 2.6 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 8 | 2.6 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 8 | 2.6 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 13 | 2.6 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 13 | 2.6 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 15 | 2.6 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 15 | 2.6 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 15 | 2.6 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 13 | 2.6 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 5 | 2.6 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 5 | 2.6 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 5 | 2.6 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 5 | 2.6 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 5 | 2.6 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 5 | 2.6 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 6 | 2.6 |
| (1,8271) | 1:121:A:ASP:HB2 | 1:122:A:LEU:H | 1 | 2.6 |
| (1,8271) | 1:121:A:ASP:HB3 | 1:122:A:LEU:H | 1 | 2.6 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 20 | 2.6 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 3 | 2.6 |
| (1,7876) | 1:64:A:HIS:H | 1:64:A:HIS:HD2 | 4 | 2.6 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 2 | 2.6 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 10 | 2.6 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 4 | 2.6 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 4 | 2.6 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 6 | 2.6 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 16 | 2.6 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 16 | 2.6 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 16 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 16 | 2.6 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 16 | 2.6 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 16 | 2.6 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 10 | 2.6 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 10 | 2.6 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 19 | 2.6 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 19 | 2.6 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 20 | 2.6 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 6 | 2.6 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 6 | 2.6 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 1 | 2.6 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 1 | 2.6 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 11 | 2.6 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 5 | 2.6 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 12 | 2.6 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 12 | 2.6 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 20 | 2.6 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 2 | 2.6 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 2 | 2.6 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 2 | 2.6 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 2 | 2.6 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 2 | 2.6 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 2 | 2.6 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 11 | 2.6 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 11 | 2.6 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 11 | 2.6 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 11 | 2.6 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 8 | 2.6 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 16 | 2.6 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 10 | 2.6 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 10 | 2.6 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 15 | 2.6 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 3 | 2.6 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 20 | 2.6 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 13 | 2.6 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 13 | 2.6 |
| (1,6403) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 13 | 2.6 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 10 | 2.6 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 6 | 2.6 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 6 | 2.6 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 6 | 2.6 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 4 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 4 | 2.6 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 7 | 2.6 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 8 | 2.6 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 8 | 2.6 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 8 | 2.6 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 12 | 2.6 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 12 | 2.6 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 9 | 2.6 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 9 | 2.6 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 9 | 2.6 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 9 | 2.6 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 9 | 2.6 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 9 | 2.6 |
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 1 | 2.6 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 3 | 2.6 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 12 | 2.6 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 4 | 2.6 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 10 | 2.6 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 17 | 2.6 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 20 | 2.6 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 11 | 2.6 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 11 | 2.6 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 11 | 2.6 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 20 | 2.6 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 20 | 2.6 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 18 | 2.6 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 18 | 2.6 |
| (1,5919) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 18 | 2.6 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 18 | 2.6 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 18 | 2.6 |
| (1,5919) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 18 | 2.6 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 15 | 2.6 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 15 | 2.6 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 1 | 2.6 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 19 | 2.6 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 19 | 2.6 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 19 | 2.6 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 12 | 2.6 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 12 | 2.6 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 15 | 2.6 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 15 | 2.6 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 20 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5695) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 7 | 2.6 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 1 | 2.6 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 16 | 2.6 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 5 | 2.6 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 13 | 2.6 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 2 | 2.6 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 10 | 2.6 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 10 | 2.6 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 9 | 2.6 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 5 | 2.6 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 3 | 2.6 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 3 | 2.6 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 3 | 2.6 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 3 | 2.6 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 3 | 2.6 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 3 | 2.6 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 3 | 2.6 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 3 | 2.6 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 3 | 2.6 |
| (1,5521) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 3 | 2.6 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 13 | 2.6 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 13 | 2.6 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 13 | 2.6 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 12 | 2.6 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 13 | 2.6 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 9 | 2.6 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 1 | 2.6 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 1 | 2.6 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 1 | 2.6 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 19 | 2.6 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 19 | 2.6 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 19 | 2.6 |
| (1,5025) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 17 | 2.6 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 12 | 2.6 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 12 | 2.6 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 12 | 2.6 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 12 | 2.6 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 12 | 2.6 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 12 | 2.6 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 12 | 2.6 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 12 | 2.6 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 12 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 4 | 2.6 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 4 | 2.6 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 4 | 2.6 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 2 | 2.6 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 4 | 2.6 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 8 | 2.6 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 10 | 2.6 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 8 | 2.6 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 20 | 2.6 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 17 | 2.6 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 17 | 2.6 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 16 | 2.6 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 16 | 2.6 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 12 | 2.6 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 12 | 2.6 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 14 | 2.6 |
| (1,4620) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 14 | 2.6 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 8 | 2.6 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 8 | 2.6 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 9 | 2.6 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 9 | 2.6 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 16 | 2.6 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 16 | 2.6 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 6 | 2.6 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 6 | 2.6 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 6 | 2.6 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 6 | 2.6 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 6 | 2.6 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 6 | 2.6 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 9 | 2.6 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 9 | 2.6 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 9 | 2.6 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 9 | 2.6 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 9 | 2.6 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 9 | 2.6 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 12 | 2.6 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 12 | 2.6 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 12 | 2.6 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 12 | 2.6 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 12 | 2.6 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 12 | 2.6 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 6 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 8 | 2.6 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 14 | 2.6 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 14 | 2.6 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 18 | 2.6 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 18 | 2.6 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 2 | 2.6 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 2 | 2.6 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 2 | 2.6 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 2 | 2.6 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 9 | 2.6 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 2.6 |
| (1,4400) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 5 | 2.6 |
| (1,4400) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 5 | 2.6 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 3 | 2.6 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 18 | 2.6 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 18 | 2.6 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 19 | 2.6 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 19 | 2.6 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 3 | 2.6 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 3 | 2.6 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 19 | 2.6 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 19 | 2.6 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 4 | 2.6 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 4 | 2.6 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 11 | 2.6 |
| (1,4234) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 11 | 2.6 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 11 | 2.6 |
| (1,4234) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 11 | 2.6 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 1 | 2.6 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 1 | 2.6 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 8 | 2.6 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 8 | 2.6 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 18 | 2.6 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 18 | 2.6 |
| (1,4113) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 2.6 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 9 | 2.6 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 9 | 2.6 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 9 | 2.6 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 9 | 2.6 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 9 | 2.6 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 9 | 2.6 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 20 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 20 | 2.6 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 10 | 2.6 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 19 | 2.6 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 19 | 2.6 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 8 | 2.6 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 8 | 2.6 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 8 | 2.6 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 8 | 2.6 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 8 | 2.6 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 8 | 2.6 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 5 | 2.6 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 5 | 2.6 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 5 | 2.6 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 5 | 2.6 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 5 | 2.6 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 5 | 2.6 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 14 | 2.6 |
| (1,3956) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 12 | 2.6 |
| (1,3956) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 12 | 2.6 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 16 | 2.6 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 16 | 2.6 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 4 | 2.6 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 4 | 2.6 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 7 | 2.6 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 7 | 2.6 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 16 | 2.6 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 16 | 2.6 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 1 | 2.6 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 1 | 2.6 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 9 | 2.6 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 9 | 2.6 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 9 | 2.6 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 14 | 2.6 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 14 | 2.6 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 14 | 2.6 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 14 | 2.6 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 14 | 2.6 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 14 | 2.6 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 12 | 2.6 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 12 | 2.6 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 12 | 2.6 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 12 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 12 | 2.6 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 12 | 2.6 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 13 | 2.6 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 13 | 2.6 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 13 | 2.6 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 13 | 2.6 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 13 | 2.6 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 13 | 2.6 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 2 | 2.6 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 2 | 2.6 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 2 | 2.6 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 2 | 2.6 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 2 | 2.6 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 2 | 2.6 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 5 | 2.6 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 5 | 2.6 |
| (1,3761) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 5 | 2.6 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 10 | 2.6 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 10 | 2.6 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 5 | 2.6 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 5 | 2.6 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 5 | 2.6 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 5 | 2.6 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 10 | 2.6 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 5 | 2.6 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 5 | 2.6 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 7 | 2.6 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 7 | 2.6 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 7 | 2.6 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 7 | 2.6 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 7 | 2.6 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 7 | 2.6 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 17 | 2.6 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 17 | 2.6 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 17 | 2.6 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 17 | 2.6 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 17 | 2.6 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 17 | 2.6 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 11 | 2.6 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 11 | 2.6 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 11 | 2.6 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 11 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 13 | 2.6 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 13 | 2.6 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 13 | 2.6 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 13 | 2.6 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 2 | 2.6 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 2 | 2.6 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 6 | 2.6 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 6 | 2.6 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 6 | 2.6 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 14 | 2.6 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 19 | 2.6 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 10 | 2.6 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 8 | 2.6 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 13 | 2.6 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 17 | 2.6 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 11 | 2.6 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 5 | 2.6 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 12 | 2.6 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 9 | 2.6 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 9 | 2.6 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 9 | 2.6 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 13 | 2.6 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 13 | 2.6 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 13 | 2.6 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 12 | 2.6 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 20 | 2.6 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 2 | 2.6 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 2 | 2.6 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 2 | 2.6 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 2 | 2.6 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 2 | 2.6 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 2 | 2.6 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 17 | 2.6 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 17 | 2.6 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 8 | 2.6 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 18 | 2.6 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 6 | 2.6 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 10 | 2.6 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 10 | 2.6 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 15 | 2.6 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 6 | 2.6 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 3 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 12 | 2.6 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 10 | 2.6 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 5 | 2.6 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 20 | 2.6 |
| (1,2310) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 6 | 2.6 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 20 | 2.6 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 9 | 2.6 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 11 | 2.6 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 11 | 2.6 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 11 | 2.6 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 11 | 2.6 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 11 | 2.6 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 11 | 2.6 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 13 | 2.6 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 13 | 2.6 |
| (1,2116) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 13 | 2.6 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 10 | 2.6 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 17 | 2.6 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 17 | 2.6 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 17 | 2.6 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 19 | 2.6 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 19 | 2.6 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 19 | 2.6 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 6 | 2.6 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 6 | 2.6 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 6 | 2.6 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 4 | 2.6 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 4 | 2.6 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 5 | 2.6 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 5 | 2.6 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 5 | 2.6 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 3 | 2.6 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 8 | 2.6 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 8 | 2.6 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 8 | 2.6 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 12 | 2.6 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 12 | 2.6 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 9 | 2.6 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 9 | 2.6 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 9 | 2.6 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 9 | 2.6 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 9 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 9 | 2.6 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 1 | 2.6 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 3 | 2.6 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 12 | 2.6 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 4 | 2.6 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 10 | 2.6 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 17 | 2.6 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 20 | 2.6 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 11 | 2.6 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 11 | 2.6 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 11 | 2.6 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 15 | 2.6 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 19 | 2.6 |
| (1,1504) | 1:131:A:GLN:HA | 1:131:A:GLN:HB2 | 4 | 2.6 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 20 | 2.6 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 20 | 2.6 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 14 | 2.6 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 16 | 2.6 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 15 | 2.6 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 16 | 2.6 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 20 | 2.6 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 20 | 2.6 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 20 | 2.6 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 9 | 2.6 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 9 | 2.6 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 9 | 2.6 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 9 | 2.6 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 9 | 2.6 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 9 | 2.6 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 18 | 2.6 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 18 | 2.6 |
| (1,1338) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 18 | 2.6 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 18 | 2.6 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 18 | 2.6 |
| (1,1338) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 18 | 2.6 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 4 | 2.6 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 20 | 2.6 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 19 | 2.6 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 1 | 2.6 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 19 | 2.6 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 19 | 2.6 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 19 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 12 | 2.6 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 12 | 2.6 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 15 | 2.6 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 15 | 2.6 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 20 | 2.6 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 7 | 2.6 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 4 | 2.6 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 13 | 2.6 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 7 | 2.6 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 18 | 2.6 |
| (1,972) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 7 | 2.6 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 1 | 2.6 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 16 | 2.6 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 5 | 2.6 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 2 | 2.6 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 5 | 2.6 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 7 | 2.6 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 9 | 2.6 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 20 | 2.6 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 13 | 2.6 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 3 | 2.6 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 3 | 2.6 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 3 | 2.6 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 17 | 2.6 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 2 | 2.6 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 13 | 2.6 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 13 | 2.6 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 5 | 2.6 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 3 | 2.6 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 3 | 2.6 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 3 | 2.6 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 3 | 2.6 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 3 | 2.6 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 3 | 2.6 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 3 | 2.6 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 3 | 2.6 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 3 | 2.6 |
| (1,674) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 3 | 2.6 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 11 | 2.6 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 20 | 2.6 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 20 | 2.6 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 20 | 2.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 11 | 2.6 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 11 | 2.6 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 11 | 2.6 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 19 | 2.6 |
| (1,352) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 2 | 2.6 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 15 | 2.6 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 7 | 2.6 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 7 | 2.6 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 17 | 2.6 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 17 | 2.6 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 17 | 2.6 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 10 | 2.6 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 1 | 2.6 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 1 | 2.6 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 1 | 2.6 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 9 | 2.6 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 9 | 2.6 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 9 | 2.6 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 9 | 2.6 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 9 | 2.6 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 9 | 2.6 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 13 | 2.59 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 8 | 2.59 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 17 | 2.59 |
| (3,202) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HE1 | 1 | 2.59 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 6 | 2.59 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 6 | 2.59 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 15 | 2.59 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 15 | 2.59 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 13 | 2.59 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 13 | 2.59 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 13 | 2.59 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 13 | 2.59 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 20 | 2.59 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 20 | 2.59 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 20 | 2.59 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 20 | 2.59 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 20 | 2.59 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 20 | 2.59 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 11 | 2.59 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 11 | 2.59 |
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD2 | 15 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9292) | 1:104:A:GLU:HA | 1:119:A:ARG:HD3 | 15 | 2.59 |
| (1,9273) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 5 | 2.59 |
| (1,9273) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 5 | 2.59 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 19 | 2.59 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 19 | 2.59 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 5 | 2.59 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 5 | 2.59 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 17 | 2.59 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 17 | 2.59 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 17 | 2.59 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 17 | 2.59 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 17 | 2.59 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 17 | 2.59 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 9 | 2.59 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 9 | 2.59 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 9 | 2.59 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 9 | 2.59 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 9 | 2.59 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 9 | 2.59 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 8 | 2.59 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 8 | 2.59 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 4 | 2.59 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 4 | 2.59 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 12 | 2.59 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 12 | 2.59 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 19 | 2.59 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 19 | 2.59 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 17 | 2.59 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 17 | 2.59 |
| (1,8829) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 17 | 2.59 |
| (1,8829) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 17 | 2.59 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 20 | 2.59 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 20 | 2.59 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 20 | 2.59 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 20 | 2.59 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 20 | 2.59 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 20 | 2.59 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 20 | 2.59 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 20 | 2.59 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 20 | 2.59 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 20 | 2.59 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 12 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 12 | 2.59 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 17 | 2.59 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 17 | 2.59 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 17 | 2.59 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 17 | 2.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 2.59 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 2.59 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 5 | 2.59 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 5 | 2.59 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 1 | 2.59 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 1 | 2.59 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 17 | 2.59 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 17 | 2.59 |
| (1,8489) | 1:156:A:ILE:HB | 1:157:A:HIS:H | 3 | 2.59 |
| (1,8461) | 1:149:A:PRO:HA | 1:157:A:HIS:H | 16 | 2.59 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 15 | 2.59 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 15 | 2.59 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 15 | 2.59 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 18 | 2.59 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 18 | 2.59 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 18 | 2.59 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 18 | 2.59 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 18 | 2.59 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 18 | 2.59 |
| (1,8297) | 1:127:A:ARG:HA | 1:127:A:ARG:HD3 | 1 | 2.59 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 1 | 2.59 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 11 | 2.59 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 11 | 2.59 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 11 | 2.59 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 11 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 11 | 2.59 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 11 | 2.59 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 11 | 2.59 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 11 | 2.59 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 11 | 2.59 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 18 | 2.59 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 3 | 2.59 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 19 | 2.59 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG2 | 18 | 2.59 |
| (1,7915) | 1:69:A:ARG:H | 1:69:A:ARG:HG3 | 18 | 2.59 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 9 | 2.59 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 9 | 2.59 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 9 | 2.59 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 9 | 2.59 |
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 18 | 2.59 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 14 | 2.59 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 14 | 2.59 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 14 | 2.59 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 14 | 2.59 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 14 | 2.59 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 14 | 2.59 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 14 | 2.59 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 14 | 2.59 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 14 | 2.59 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 17 | 2.59 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 7 | 2.59 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 18 | 2.59 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 18 | 2.59 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 18 | 2.59 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 4 | 2.59 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 14 | 2.59 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 7 | 2.59 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 7 | 2.59 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 9 | 2.59 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 15 | 2.59 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 3 | 2.59 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 11 | 2.59 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 9 | 2.59 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 18 | 2.59 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 13 | 2.59 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 12 | 2.59 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 7 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 16 | 2.59 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 16 | 2.59 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 16 | 2.59 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 16 | 2.59 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 16 | 2.59 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 16 | 2.59 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 16 | 2.59 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 16 | 2.59 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 16 | 2.59 |
| (1,6443) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 1 | 2.59 |
| (1,6443) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 1 | 2.59 |
| (1,6443) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 1 | 2.59 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 10 | 2.59 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 10 | 2.59 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 10 | 2.59 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 17 | 2.59 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 9 | 2.59 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 19 | 2.59 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 19 | 2.59 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 19 | 2.59 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 17 | 2.59 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 17 | 2.59 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 17 | 2.59 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 11 | 2.59 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 11 | 2.59 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 9 | 2.59 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 9 | 2.59 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 9 | 2.59 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 9 | 2.59 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 9 | 2.59 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 9 | 2.59 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 9 | 2.59 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 9 | 2.59 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 9 | 2.59 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 6 | 2.59 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 6 | 2.59 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 6 | 2.59 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 16 | 2.59 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 5 | 2.59 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 5 | 2.59 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 5 | 2.59 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 2 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 4 | 2.59 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 12 | 2.59 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 19 | 2.59 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 19 | 2.59 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 19 | 2.59 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 19 | 2.59 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 19 | 2.59 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 19 | 2.59 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 19 | 2.59 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 19 | 2.59 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 19 | 2.59 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 12 | 2.59 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 12 | 2.59 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 12 | 2.59 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 8 | 2.59 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 3 | 2.59 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 3 | 2.59 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 3 | 2.59 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 3 | 2.59 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 3 | 2.59 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 3 | 2.59 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 3 | 2.59 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 3 | 2.59 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 3 | 2.59 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 12 | 2.59 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 15 | 2.59 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 5 | 2.59 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 5 | 2.59 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 17 | 2.59 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 17 | 2.59 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 15 | 2.59 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 8 | 2.59 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 15 | 2.59 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 15 | 2.59 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 15 | 2.59 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 2 | 2.59 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 2 | 2.59 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 3 | 2.59 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 5 | 2.59 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 4 | 2.59 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 6 | 2.59 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 11 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 18 | 2.59 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 18 | 2.59 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 18 | 2.59 |
| (1,5647) | 1:104:A:GLU:H | 1:105:A:SER:H | 9 | 2.59 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 15 | 2.59 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 1 | 2.59 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 19 | 2.59 |
| (1,5551) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 9 | 2.59 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 6 | 2.59 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 18 | 2.59 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 11 | 2.59 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 11 | 2.59 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 6 | 2.59 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 6 | 2.59 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 6 | 2.59 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 16 | 2.59 |
| (1,5397) | 1:90:A:ASN:H | 1:91:A:GLY:H | 9 | 2.59 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 9 | 2.59 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 1 | 2.59 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 12 | 2.59 |
| (1,5298) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 15 | 2.59 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 13 | 2.59 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 5 | 2.59 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 5 | 2.59 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 5 | 2.59 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 10 | 2.59 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 10 | 2.59 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 10 | 2.59 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 7 | 2.59 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 2 | 2.59 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 10 | 2.59 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 6 | 2.59 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 6 | 2.59 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 6 | 2.59 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 12 | 2.59 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 14 | 2.59 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 6 | 2.59 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 6 | 2.59 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 18 | 2.59 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 18 | 2.59 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 18 | 2.59 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 18 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 18 | 2.59 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 18 | 2.59 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 18 | 2.59 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 18 | 2.59 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 18 | 2.59 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 4 | 2.59 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 4 | 2.59 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 4 | 2.59 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 4 | 2.59 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 4 | 2.59 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 4 | 2.59 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 4 | 2.59 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 4 | 2.59 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 4 | 2.59 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 19 | 2.59 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 12 | 2.59 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 8 | 2.59 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 20 | 2.59 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 15 | 2.59 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 3 | 2.59 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 11 | 2.59 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 11 | 2.59 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 11 | 2.59 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 11 | 2.59 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 11 | 2.59 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 11 | 2.59 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 9 | 2.59 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 9 | 2.59 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 4 | 2.59 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 4 | 2.59 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 19 | 2.59 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 18 | 2.59 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 6 | 2.59 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 6 | 2.59 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 2 | 2.59 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 2 | 2.59 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 2 | 2.59 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 2 | 2.59 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 15 | 2.59 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 15 | 2.59 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 9 | 2.59 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 11 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 14 | 2.59 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 11 | 2.59 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 11 | 2.59 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 8 | 2.59 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 8 | 2.59 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 8 | 2.59 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 8 | 2.59 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 19 | 2.59 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 19 | 2.59 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 19 | 2.59 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 5 | 2.59 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 5 | 2.59 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 11 | 2.59 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 11 | 2.59 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 11 | 2.59 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 11 | 2.59 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 11 | 2.59 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 11 | 2.59 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 7 | 2.59 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 11 | 2.59 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 14 | 2.59 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 3 | 2.59 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 3 | 2.59 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 15 | 2.59 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 15 | 2.59 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 17 | 2.59 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 17 | 2.59 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 17 | 2.59 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 17 | 2.59 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 17 | 2.59 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 17 | 2.59 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 16 | 2.59 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 16 | 2.59 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 16 | 2.59 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 16 | 2.59 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 16 | 2.59 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 16 | 2.59 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 3 | 2.59 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 3 | 2.59 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 9 | 2.59 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 9 | 2.59 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 9 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 9 | 2.59 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 9 | 2.59 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 9 | 2.59 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 10 | 2.59 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 10 | 2.59 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 7 | 2.59 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 7 | 2.59 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 7 | 2.59 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 12 | 2.59 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 12 | 2.59 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 12 | 2.59 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 8 | 2.59 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 8 | 2.59 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 4 | 2.59 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 4 | 2.59 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 12 | 2.59 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 12 | 2.59 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 19 | 2.59 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 19 | 2.59 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 14 | 2.59 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 14 | 2.59 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 6 | 2.59 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 6 | 2.59 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 6 | 2.59 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 6 | 2.59 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 20 | 2.59 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 20 | 2.59 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 20 | 2.59 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 20 | 2.59 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 20 | 2.59 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 20 | 2.59 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 4 | 2.59 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 4 | 2.59 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 4 | 2.59 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 4 | 2.59 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 4 | 2.59 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 4 | 2.59 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 5 | 2.59 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 5 | 2.59 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 13 | 2.59 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 13 | 2.59 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 16 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 16 | 2.59 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 5 | 2.59 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 5 | 2.59 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 5 | 2.59 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 5 | 2.59 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 5 | 2.59 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 5 | 2.59 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 13 | 2.59 |
| (1,3701) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 13 | 2.59 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 13 | 2.59 |
| (1,3701) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 13 | 2.59 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 7 | 2.59 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 7 | 2.59 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 7 | 2.59 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 7 | 2.59 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 12 | 2.59 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 18 | 2.59 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 3 | 2.59 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 3 | 2.59 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 6 | 2.59 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 6 | 2.59 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 13 | 2.59 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 13 | 2.59 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 13 | 2.59 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 13 | 2.59 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 13 | 2.59 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 13 | 2.59 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 7 | 2.59 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 7 | 2.59 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 5 | 2.59 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 5 | 2.59 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 17 | 2.59 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 17 | 2.59 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 18 | 2.59 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 18 | 2.59 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 18 | 2.59 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 11 | 2.59 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 11 | 2.59 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 11 | 2.59 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 1 | 2.59 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 1 | 2.59 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 20 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 13 | 2.59 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 5 | 2.59 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 4 | 2.59 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 14 | 2.59 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 7 | 2.59 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 7 | 2.59 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 11 | 2.59 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 9 | 2.59 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 10 | 2.59 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 6 | 2.59 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 15 | 2.59 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 3 | 2.59 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 11 | 2.59 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 18 | 2.59 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 18 | 2.59 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 1 | 2.59 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 1 | 2.59 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 19 | 2.59 |
| (1,2586) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 18 | 2.59 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 13 | 2.59 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 6 | 2.59 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 15 | 2.59 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 5 | 2.59 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 7 | 2.59 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 16 | 2.59 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 16 | 2.59 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 16 | 2.59 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 16 | 2.59 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 16 | 2.59 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 16 | 2.59 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 16 | 2.59 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 16 | 2.59 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 16 | 2.59 |
| (1,2174) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 1 | 2.59 |
| (1,2174) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 1 | 2.59 |
| (1,2174) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 1 | 2.59 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 19 | 2.59 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 19 | 2.59 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 19 | 2.59 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 10 | 2.59 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 10 | 2.59 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 10 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 4 | 2.59 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 10 | 2.59 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 17 | 2.59 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 19 | 2.59 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 19 | 2.59 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 19 | 2.59 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 3 | 2.59 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 3 | 2.59 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 3 | 2.59 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 10 | 2.59 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 11 | 2.59 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 17 | 2.59 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 9 | 2.59 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 15 | 2.59 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 19 | 2.59 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 19 | 2.59 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 19 | 2.59 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 17 | 2.59 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 17 | 2.59 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 17 | 2.59 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 11 | 2.59 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 11 | 2.59 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 9 | 2.59 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 9 | 2.59 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 9 | 2.59 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 9 | 2.59 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 9 | 2.59 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 9 | 2.59 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 9 | 2.59 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 9 | 2.59 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 9 | 2.59 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 6 | 2.59 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 6 | 2.59 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 6 | 2.59 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 5 | 2.59 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 5 | 2.59 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 5 | 2.59 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 7 | 2.59 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 13 | 2.59 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 13 | 2.59 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 6 | 2.59 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 2 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 4 | 2.59 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 12 | 2.59 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 4 | 2.59 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 4 | 2.59 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 4 | 2.59 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 19 | 2.59 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 19 | 2.59 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 19 | 2.59 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 19 | 2.59 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 19 | 2.59 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 19 | 2.59 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 19 | 2.59 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 19 | 2.59 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 19 | 2.59 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 12 | 2.59 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 12 | 2.59 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 12 | 2.59 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 8 | 2.59 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 3 | 2.59 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 3 | 2.59 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 3 | 2.59 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 3 | 2.59 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 3 | 2.59 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 3 | 2.59 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 3 | 2.59 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 3 | 2.59 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 3 | 2.59 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 12 | 2.59 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 17 | 2.59 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 17 | 2.59 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 17 | 2.59 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 3 | 2.59 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 15 | 2.59 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 15 | 2.59 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 5 | 2.59 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 5 | 2.59 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 17 | 2.59 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 17 | 2.59 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 19 | 2.59 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 15 | 2.59 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 8 | 2.59 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 3 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 11 | 2.59 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 11 | 2.59 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 6 | 2.59 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 6 | 2.59 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 6 | 2.59 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 2 | 2.59 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 2 | 2.59 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 14 | 2.59 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 3 | 2.59 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 13 | 2.59 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 6 | 2.59 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 14 | 2.59 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 9 | 2.59 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 14 | 2.59 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 5 | 2.59 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 4 | 2.59 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 11 | 2.59 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 13 | 2.59 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 18 | 2.59 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 18 | 2.59 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 18 | 2.59 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 4 | 2.59 |
| (1,878) | 1:104:A:GLU:H | 1:105:A:SER:H | 9 | 2.59 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 2 | 2.59 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 2 | 2.59 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 15 | 2.59 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 1 | 2.59 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 19 | 2.59 |
| (1,714) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 9 | 2.59 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 6 | 2.59 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 18 | 2.59 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 10 | 2.59 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 14 | 2.59 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 11 | 2.59 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 11 | 2.59 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 6 | 2.59 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 6 | 2.59 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 6 | 2.59 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 16 | 2.59 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 15 | 2.59 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 15 | 2.59 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 15 | 2.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 15 | 2.59 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 15 | 2.59 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 15 | 2.59 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 8 | 2.59 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 8 | 2.59 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 2 | 2.59 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 8 | 2.59 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 8 | 2.59 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 8 | 2.59 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 6 | 2.59 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 6 | 2.59 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 6 | 2.59 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 1 | 2.59 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 15 | 2.59 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 15 | 2.59 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 3 | 2.59 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 3 | 2.59 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 3 | 2.59 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 8 | 2.59 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 19 | 2.58 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 3 | 2.58 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 1 | 2.58 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 2 | 2.58 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 2 | 2.58 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 5 | 2.58 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 5 | 2.58 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 2 | 2.58 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 2 | 2.58 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 2 | 2.58 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 2 | 2.58 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 2 | 2.58 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 2 | 2.58 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 9 | 2.58 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 9 | 2.58 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 9 | 2.58 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 9 | 2.58 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 9 | 2.58 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 9 | 2.58 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 12 | 2.58 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 12 | 2.58 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 5 | 2.58 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 5 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 5 | 2.58 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 5 | 2.58 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 5 | 2.58 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 5 | 2.58 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 1 | 2.58 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 1 | 2.58 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 6 | 2.58 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 6 | 2.58 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB2 | 1 | 2.58 |
| (1,9248) | 1:98:A:SER:HB2 | 1:100:A:GLU:HB3 | 1 | 2.58 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB2 | 1 | 2.58 |
| (1,9248) | 1:98:A:SER:HB3 | 1:100:A:GLU:HB3 | 1 | 2.58 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 16 | 2.58 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 16 | 2.58 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 9 | 2.58 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 9 | 2.58 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 18 | 2.58 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 18 | 2.58 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 5 | 2.58 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 5 | 2.58 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 3 | 2.58 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 3 | 2.58 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 4 | 2.58 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 4 | 2.58 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 4 | 2.58 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 4 | 2.58 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 4 | 2.58 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 4 | 2.58 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 7 | 2.58 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 7 | 2.58 |
| (1,8891) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 9 | 2.58 |
| (1,8891) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 9 | 2.58 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 6 | 2.58 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 6 | 2.58 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 2 | 2.58 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 2 | 2.58 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG2 | 1 | 2.58 |
| (1,8758) | 1:55:A:VAL:HG11 | 1:161:A:ARG:HG3 | 1 | 2.58 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG2 | 1 | 2.58 |
| (1,8758) | 1:55:A:VAL:HG12 | 1:161:A:ARG:HG3 | 1 | 2.58 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG2 | 1 | 2.58 |
| (1,8758) | 1:55:A:VAL:HG13 | 1:161:A:ARG:HG3 | 1 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 17 | 2.58 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 17 | 2.58 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 14 | 2.58 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 14 | 2.58 |
| (1,8606) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 14 | 2.58 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 14 | 2.58 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 14 | 2.58 |
| (1,8606) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 14 | 2.58 |
| (1,8591) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 12 | 2.58 |
| (1,8591) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 12 | 2.58 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 5 | 2.58 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 5 | 2.58 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 14 | 2.58 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 14 | 2.58 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 16 | 2.58 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 2 | 2.58 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 2 | 2.58 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 2 | 2.58 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 2 | 2.58 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 2 | 2.58 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 2 | 2.58 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 3 | 2.58 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 3 | 2.58 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 3 | 2.58 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 12 | 2.58 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 16 | 2.58 |
| (1,7727) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 18 | 2.58 |
| (1,7727) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 18 | 2.58 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 13 | 2.58 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 12 | 2.58 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 12 | 2.58 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 17 | 2.58 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 17 | 2.58 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 17 | 2.58 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 17 | 2.58 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 17 | 2.58 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 17 | 2.58 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 3 | 2.58 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 5 | 2.58 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 5 | 2.58 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 14 | 2.58 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 16 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 3 | 2.58 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 3 | 2.58 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 12 | 2.58 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 12 | 2.58 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 14 | 2.58 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 14 | 2.58 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 9 | 2.58 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 2 | 2.58 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 2 | 2.58 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 2 | 2.58 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 3 | 2.58 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 18 | 2.58 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 3 | 2.58 |
| (1,6792) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 3 | 2.58 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 3 | 2.58 |
| (1,6792) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 3 | 2.58 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 3 | 2.58 |
| (1,6792) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 3 | 2.58 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 19 | 2.58 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 19 | 2.58 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 19 | 2.58 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 19 | 2.58 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 18 | 2.58 |
| (1,6765) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 14 | 2.58 |
| (1,6765) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 14 | 2.58 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 7 | 2.58 |
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 7 | 2.58 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 17 | 2.58 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 17 | 2.58 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 19 | 2.58 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 2 | 2.58 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 14 | 2.58 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 17 | 2.58 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 19 | 2.58 |
| (1,6563) | 1:11:A:TRP:H | 1:12:A:GLU:H | 1 | 2.58 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 13 | 2.58 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 13 | 2.58 |
| (1,6561) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 13 | 2.58 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 15 | 2.58 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 15 | 2.58 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 15 | 2.58 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 9 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 13 | 2.58 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 3 | 2.58 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 3 | 2.58 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 3 | 2.58 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 2 | 2.58 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 2 | 2.58 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 2 | 2.58 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 1 | 2.58 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 12 | 2.58 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 11 | 2.58 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 1 | 2.58 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 6 | 2.58 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 16 | 2.58 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 16 | 2.58 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 1 | 2.58 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 1 | 2.58 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 1 | 2.58 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 5 | 2.58 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 5 | 2.58 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 14 | 2.58 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 12 | 2.58 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 12 | 2.58 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 12 | 2.58 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 3 | 2.58 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 3 | 2.58 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 15 | 2.58 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 15 | 2.58 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 15 | 2.58 |
| (1,6156) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 15 | 2.58 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 4 | 2.58 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 2 | 2.58 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 2 | 2.58 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 2 | 2.58 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 2 | 2.58 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 20 | 2.58 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 4 | 2.58 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 5 | 2.58 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 5 | 2.58 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 5 | 2.58 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 19 | 2.58 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 17 | 2.58 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 17 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 17 | 2.58 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 8 | 2.58 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 16 | 2.58 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 16 | 2.58 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 16 | 2.58 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 15 | 2.58 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 16 | 2.58 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 10 | 2.58 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 18 | 2.58 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 4 | 2.58 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 10 | 2.58 |
| (1,5645) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 13 | 2.58 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 12 | 2.58 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 1 | 2.58 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 8 | 2.58 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 3 | 2.58 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 2 | 2.58 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 2 | 2.58 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 2 | 2.58 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 5 | 2.58 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 5 | 2.58 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 5 | 2.58 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 3 | 2.58 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 5 | 2.58 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 1 | 2.58 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 6 | 2.58 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 16 | 2.58 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 16 | 2.58 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 16 | 2.58 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 20 | 2.58 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 20 | 2.58 |
| (1,5300) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 8 | 2.58 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 5 | 2.58 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 4 | 2.58 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 4 | 2.58 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 4 | 2.58 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 13 | 2.58 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 2 | 2.58 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 2 | 2.58 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 2 | 2.58 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 14 | 2.58 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 14 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 14 | 2.58 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 11 | 2.58 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 5 | 2.58 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 5 | 2.58 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 5 | 2.58 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 11 | 2.58 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 11 | 2.58 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 11 | 2.58 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 8 | 2.58 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 8 | 2.58 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 8 | 2.58 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 8 | 2.58 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 8 | 2.58 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 8 | 2.58 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 8 | 2.58 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 8 | 2.58 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 8 | 2.58 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 8 | 2.58 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 13 | 2.58 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 13 | 2.58 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 13 | 2.58 |
| (1,4780) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 2 | 2.58 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 9 | 2.58 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 14 | 2.58 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 14 | 2.58 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 14 | 2.58 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 4 | 2.58 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 4 | 2.58 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 4 | 2.58 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 3 | 2.58 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 3 | 2.58 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 3 | 2.58 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 3 | 2.58 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 3 | 2.58 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 3 | 2.58 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 18 | 2.58 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 2.58 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 2 | 2.58 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 2 | 2.58 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 2 | 2.58 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 2 | 2.58 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 2 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 2 | 2.58 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 1 | 2.58 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 13 | 2.58 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 5 | 2.58 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 5 | 2.58 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 5 | 2.58 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 5 | 2.58 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 5 | 2.58 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 5 | 2.58 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 15 | 2.58 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 18 | 2.58 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 6 | 2.58 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 6 | 2.58 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 10 | 2.58 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 17 | 2.58 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 17 | 2.58 |
| (1,4293) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 12 | 2.58 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 14 | 2.58 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 14 | 2.58 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 14 | 2.58 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 14 | 2.58 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 12 | 2.58 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 12 | 2.58 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 4 | 2.58 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 4 | 2.58 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 18 | 2.58 |
| (1,4214) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 10 | 2.58 |
| (1,4214) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 10 | 2.58 |
| (1,4214) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 10 | 2.58 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 13 | 2.58 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 13 | 2.58 |
| (1,4210) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 13 | 2.58 |
| (1,4188) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 7 | 2.58 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 13 | 2.58 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 18 | 2.58 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 18 | 2.58 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 17 | 2.58 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 15 | 2.58 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 15 | 2.58 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 15 | 2.58 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 15 | 2.58 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 15 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 15 | 2.58 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 9 | 2.58 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 9 | 2.58 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 1 | 2.58 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 1 | 2.58 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 15 | 2.58 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 15 | 2.58 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 15 | 2.58 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 15 | 2.58 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 15 | 2.58 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 15 | 2.58 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 1 | 2.58 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 1 | 2.58 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 1 | 2.58 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 1 | 2.58 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 1 | 2.58 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 1 | 2.58 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 5 | 2.58 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 5 | 2.58 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 3 | 2.58 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 3 | 2.58 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 2.58 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 7 | 2.58 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 7 | 2.58 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 19 | 2.58 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 19 | 2.58 |
| (1,3848) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 9 | 2.58 |
| (1,3848) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 9 | 2.58 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 2.58 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 2.58 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 2.58 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 16 | 2.58 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 16 | 2.58 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 2 | 2.58 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 2 | 2.58 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 11 | 2.58 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 11 | 2.58 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 13 | 2.58 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 13 | 2.58 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 13 | 2.58 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 13 | 2.58 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 14 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 14 | 2.58 |
| (1,3554) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 14 | 2.58 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 14 | 2.58 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 14 | 2.58 |
| (1,3554) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 14 | 2.58 |
| (1,3540) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 12 | 2.58 |
| (1,3540) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 12 | 2.58 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 10 | 2.58 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 18 | 2.58 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 3 | 2.58 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 14 | 2.58 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 14 | 2.58 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 14 | 2.58 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 11 | 2.58 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 9 | 2.58 |
| (1,3412) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 16 | 2.58 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 16 | 2.58 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 10 | 2.58 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 14 | 2.58 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 3 | 2.58 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 3 | 2.58 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 10 | 2.58 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 15 | 2.58 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 15 | 2.58 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 15 | 2.58 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 15 | 2.58 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 12 | 2.58 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 12 | 2.58 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 15 | 2.58 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 11 | 2.58 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 5 | 2.58 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 2 | 2.58 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 2 | 2.58 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 2 | 2.58 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 14 | 2.58 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 10 | 2.58 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 3 | 2.58 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 18 | 2.58 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 3 | 2.58 |
| (1,2766) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 3 | 2.58 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 3 | 2.58 |
| (1,2766) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 3 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 3 | 2.58 |
| (1,2766) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 3 | 2.58 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 19 | 2.58 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 19 | 2.58 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 18 | 2.58 |
| (1,2710) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 14 | 2.58 |
| (1,2710) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 14 | 2.58 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 7 | 2.58 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 4 | 2.58 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 4 | 2.58 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 4 | 2.58 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 17 | 2.58 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 17 | 2.58 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 19 | 2.58 |
| (1,2424) | 1:11:A:TRP:H | 1:12:A:GLU:H | 1 | 2.58 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 13 | 2.58 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 13 | 2.58 |
| (1,2418) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 13 | 2.58 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 3 | 2.58 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 9 | 2.58 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 15 | 2.58 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 15 | 2.58 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 15 | 2.58 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 5 | 2.58 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 12 | 2.58 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 9 | 2.58 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 13 | 2.58 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 3 | 2.58 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 3 | 2.58 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 3 | 2.58 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 11 | 2.58 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 4 | 2.58 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 8 | 2.58 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 8 | 2.58 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 8 | 2.58 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 2 | 2.58 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 2 | 2.58 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 2 | 2.58 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 1 | 2.58 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 12 | 2.58 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 11 | 2.58 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 9 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 9 | 2.58 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 9 | 2.58 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 19 | 2.58 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 1 | 2.58 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 6 | 2.58 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 18 | 2.58 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 1 | 2.58 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 1 | 2.58 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 1 | 2.58 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 5 | 2.58 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 5 | 2.58 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 12 | 2.58 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 12 | 2.58 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 12 | 2.58 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 3 | 2.58 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 3 | 2.58 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 2 | 2.58 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 15 | 2.58 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 14 | 2.58 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 14 | 2.58 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 14 | 2.58 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 9 | 2.58 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 9 | 2.58 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 9 | 2.58 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 15 | 2.58 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 15 | 2.58 |
| (1,1756) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 15 | 2.58 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 4 | 2.58 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 2 | 2.58 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 14 | 2.58 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 2.58 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 20 | 2.58 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 4 | 2.58 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 5 | 2.58 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 5 | 2.58 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 5 | 2.58 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 17 | 2.58 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 17 | 2.58 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 17 | 2.58 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 7 | 2.58 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 7 | 2.58 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 7 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 7 | 2.58 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 7 | 2.58 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 7 | 2.58 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 10 | 2.58 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 10 | 2.58 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 10 | 2.58 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 8 | 2.58 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 16 | 2.58 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 16 | 2.58 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 16 | 2.58 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 15 | 2.58 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 16 | 2.58 |
| (1,1104) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 15 | 2.58 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 9 | 2.58 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 18 | 2.58 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 18 | 2.58 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 5 | 2.58 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 5 | 2.58 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 5 | 2.58 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 10 | 2.58 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 18 | 2.58 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 16 | 2.58 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 4 | 2.58 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 10 | 2.58 |
| (1,876) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 13 | 2.58 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 10 | 2.58 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 10 | 2.58 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 10 | 2.58 |
| (1,724) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 14 | 2.58 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 12 | 2.58 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 12 | 2.58 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 12 | 2.58 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 1 | 2.58 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 8 | 2.58 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 8 | 2.58 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 5 | 2.58 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 5 | 2.58 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 5 | 2.58 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 5 | 2.58 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 5 | 2.58 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 5 | 2.58 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 5 | 2.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 5 | 2.58 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 5 | 2.58 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 2 | 2.58 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 2 | 2.58 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 2 | 2.58 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 3 | 2.58 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 3 | 2.58 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 2 | 2.58 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 2 | 2.58 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 2 | 2.58 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 5 | 2.58 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 5 | 2.58 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 5 | 2.58 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 3 | 2.58 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 5 | 2.58 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 11 | 2.58 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 11 | 2.58 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 11 | 2.58 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 9 | 2.58 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 9 | 2.58 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 9 | 2.58 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 9 | 2.58 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 16 | 2.58 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 14 | 2.58 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 14 | 2.58 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 14 | 2.58 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 11 | 2.58 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 11 | 2.58 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 11 | 2.58 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 2 | 2.58 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 7 | 2.57 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 7 | 2.57 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 3 | 2.57 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 20 | 2.57 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 20 | 2.57 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 5 | 2.57 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 5 | 2.57 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 10 | 2.57 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 10 | 2.57 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 19 | 2.57 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 19 | 2.57 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 19 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 19 | 2.57 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 3 | 2.57 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 3 | 2.57 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 2 | 2.57 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 2 | 2.57 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 9 | 2.57 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 9 | 2.57 |
| (1,9393) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 9 | 2.57 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 9 | 2.57 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 9 | 2.57 |
| (1,9393) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 9 | 2.57 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 6 | 2.57 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 6 | 2.57 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 6 | 2.57 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 6 | 2.57 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 16 | 2.57 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 16 | 2.57 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 16 | 2.57 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 16 | 2.57 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 16 | 2.57 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 16 | 2.57 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 10 | 2.57 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 10 | 2.57 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 10 | 2.57 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 10 | 2.57 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 15 | 2.57 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 15 | 2.57 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 1 | 2.57 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 1 | 2.57 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 17 | 2.57 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 17 | 2.57 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 17 | 2.57 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 17 | 2.57 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 17 | 2.57 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 17 | 2.57 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 17 | 2.57 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 17 | 2.57 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 4 | 2.57 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 4 | 2.57 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 12 | 2.57 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 12 | 2.57 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 10 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 10 | 2.57 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 8 | 2.57 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 8 | 2.57 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 20 | 2.57 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 20 | 2.57 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 17 | 2.57 |
| (1,8856) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 17 | 2.57 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 15 | 2.57 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 15 | 2.57 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 3 | 2.57 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 3 | 2.57 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 3 | 2.57 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 3 | 2.57 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 15 | 2.57 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 15 | 2.57 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 2.57 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 2.57 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 1 | 2.57 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 1 | 2.57 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 3 | 2.57 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 3 | 2.57 |
| (1,8526) | 1:1:A:MET:HG2 | 1:2:A:ALA:H | 19 | 2.57 |
| (1,8526) | 1:1:A:MET:HG3 | 1:2:A:ALA:H | 19 | 2.57 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 16 | 2.57 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 16 | 2.57 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 17 | 2.57 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 17 | 2.57 |
| (1,8239) | 1:114:A:SER:H | 1:116:A:ALA:H | 2 | 2.57 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 7 | 2.57 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 11 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 14 | 2.57 |
| (1,7993) | 1:81:A:THR:H | 1:82:A:LYS:H | 18 | 2.57 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 7 | 2.57 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 6 | 2.57 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 10 | 2.57 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 18 | 2.57 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 18 | 2.57 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 18 | 2.57 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 15 | 2.57 |
| (1,7452) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 15 | 2.57 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 10 | 2.57 |
| (1,7365) | 1:103:A:PHE:HD1 | 1:104:A:GLU:H | 16 | 2.57 |
| (1,7365) | 1:103:A:PHE:HD2 | 1:104:A:GLU:H | 16 | 2.57 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 13 | 2.57 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 15 | 2.57 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 15 | 2.57 |
| (1,7287) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 8 | 2.57 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 4 | 2.57 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 11 | 2.57 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 19 | 2.57 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 7 | 2.57 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 13 | 2.57 |
| (1,7108) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 13 | 2.57 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 14 | 2.57 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 17 | 2.57 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 17 | 2.57 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 6 | 2.57 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 6 | 2.57 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 1 | 2.57 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 19 | 2.57 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 19 | 2.57 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 19 | 2.57 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 19 | 2.57 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 14 | 2.57 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 14 | 2.57 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 14 | 2.57 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 1 | 2.57 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 1 | 2.57 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 1 | 2.57 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 16 | 2.57 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 10 | 2.57 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 3 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6678) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 10 | 2.57 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 11 | 2.57 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 2 | 2.57 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 10 | 2.57 |
| (1,6413) | 1:147:A:SER:H | 1:159:A:ILE:HB | 14 | 2.57 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 8 | 2.57 |
| (1,6298) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 20 | 2.57 |
| (1,6298) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 20 | 2.57 |
| (1,6298) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 20 | 2.57 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 3 | 2.57 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 1 | 2.57 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 17 | 2.57 |
| (1,6225) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 12 | 2.57 |
| (1,6225) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 12 | 2.57 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 5 | 2.57 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 5 | 2.57 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 5 | 2.57 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 5 | 2.57 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 5 | 2.57 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 5 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 10 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 10 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 10 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 10 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 10 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 10 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 10 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 10 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 10 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 11 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 11 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 11 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 11 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 11 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 11 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 11 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 11 | 2.57 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 11 | 2.57 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 8 | 2.57 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 18 | 2.57 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 15 | 2.57 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 15 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 15 | 2.57 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 16 | 2.57 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 16 | 2.57 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 16 | 2.57 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 16 | 2.57 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 16 | 2.57 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 16 | 2.57 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 9 | 2.57 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 18 | 2.57 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 6 | 2.57 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 7 | 2.57 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 11 | 2.57 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 18 | 2.57 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 18 | 2.57 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 18 | 2.57 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 18 | 2.57 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 18 | 2.57 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 18 | 2.57 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 18 | 2.57 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 18 | 2.57 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 18 | 2.57 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 4 | 2.57 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 9 | 2.57 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 13 | 2.57 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 1 | 2.57 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 12 | 2.57 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 8 | 2.57 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 8 | 2.57 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 19 | 2.57 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 11 | 2.57 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 11 | 2.57 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 19 | 2.57 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 19 | 2.57 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 6 | 2.57 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 16 | 2.57 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 19 | 2.57 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 13 | 2.57 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 13 | 2.57 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 13 | 2.57 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 10 | 2.57 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 13 | 2.57 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 8 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 11 | 2.57 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 11 | 2.57 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 7 | 2.57 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 3 | 2.57 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 3 | 2.57 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 3 | 2.57 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 2 | 2.57 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 13 | 2.57 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 18 | 2.57 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 18 | 2.57 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 18 | 2.57 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 14 | 2.57 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 14 | 2.57 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 14 | 2.57 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 1 | 2.57 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 8 | 2.57 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 6 | 2.57 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 6 | 2.57 |
| (1,4735) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 7 | 2.57 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 13 | 2.57 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 13 | 2.57 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 13 | 2.57 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 16 | 2.57 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 2.57 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 14 | 2.57 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 14 | 2.57 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 14 | 2.57 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 6 | 2.57 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 6 | 2.57 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 6 | 2.57 |
| (1,4556) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 5 | 2.57 |
| (1,4556) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 5 | 2.57 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 15 | 2.57 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 6 | 2.57 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 6 | 2.57 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 16 | 2.57 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 16 | 2.57 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 16 | 2.57 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 16 | 2.57 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 16 | 2.57 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 16 | 2.57 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 6 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 6 | 2.57 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 6 | 2.57 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 14 | 2.57 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 14 | 2.57 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 14 | 2.57 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 3 | 2.57 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 3 | 2.57 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 12 | 2.57 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 12 | 2.57 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 12 | 2.57 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 12 | 2.57 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 12 | 2.57 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 12 | 2.57 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 7 | 2.57 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 12 | 2.57 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 13 | 2.57 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 3 | 2.57 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 2 | 2.57 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 2 | 2.57 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 9 | 2.57 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 9 | 2.57 |
| (1,4382) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 9 | 2.57 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 9 | 2.57 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 9 | 2.57 |
| (1,4382) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 9 | 2.57 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 9 | 2.57 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 9 | 2.57 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 9 | 2.57 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 7 | 2.57 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 7 | 2.57 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 7 | 2.57 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 7 | 2.57 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 7 | 2.57 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 7 | 2.57 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 16 | 2.57 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 16 | 2.57 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 16 | 2.57 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 16 | 2.57 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 16 | 2.57 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 16 | 2.57 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 9 | 2.57 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 9 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 9 | 2.57 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 9 | 2.57 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 9 | 2.57 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 9 | 2.57 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 10 | 2.57 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 10 | 2.57 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 4 | 2.57 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 10 | 2.57 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 15 | 2.57 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 15 | 2.57 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 12 | 2.57 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 15 | 2.57 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 15 | 2.57 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 16 | 2.57 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 16 | 2.57 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 10 | 2.57 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 10 | 2.57 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 10 | 2.57 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 10 | 2.57 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 17 | 2.57 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 17 | 2.57 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 10 | 2.57 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 7 | 2.57 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 16 | 2.57 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 16 | 2.57 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 19 | 2.57 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 19 | 2.57 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 16 | 2.57 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 16 | 2.57 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 16 | 2.57 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 17 | 2.57 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 17 | 2.57 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 17 | 2.57 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 17 | 2.57 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 17 | 2.57 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 17 | 2.57 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 1 | 2.57 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 15 | 2.57 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 15 | 2.57 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 4 | 2.57 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 4 | 2.57 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 12 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 12 | 2.57 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 5 | 2.57 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 5 | 2.57 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 6 | 2.57 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 6 | 2.57 |
| (1,3981) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 6 | 2.57 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 6 | 2.57 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 6 | 2.57 |
| (1,3981) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 6 | 2.57 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 10 | 2.57 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 10 | 2.57 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 8 | 2.57 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 8 | 2.57 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 20 | 2.57 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 20 | 2.57 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 5 | 2.57 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 5 | 2.57 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 5 | 2.57 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 5 | 2.57 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 17 | 2.57 |
| (1,3816) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 17 | 2.57 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 3 | 2.57 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 3 | 2.57 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 2 | 2.57 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 2 | 2.57 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 2 | 2.57 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 2 | 2.57 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 1 | 2.57 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 1 | 2.57 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 14 | 2.57 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 13 | 2.57 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 9 | 2.57 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 11 | 2.57 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 11 | 2.57 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 14 | 2.57 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 14 | 2.57 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 11 | 2.57 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 11 | 2.57 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 15 | 2.57 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 1 | 2.57 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 1 | 2.57 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 5 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 15 | 2.57 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 6 | 2.57 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 6 | 2.57 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 6 | 2.57 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 7 | 2.57 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 7 | 2.57 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 7 | 2.57 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 3 | 2.57 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 3 | 2.57 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 3 | 2.57 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 15 | 2.57 |
| (1,3290) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 12 | 2.57 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 19 | 2.57 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 6 | 2.57 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 6 | 2.57 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 7 | 2.57 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 13 | 2.57 |
| (1,3194) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 13 | 2.57 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 14 | 2.57 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 14 | 2.57 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 13 | 2.57 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 13 | 2.57 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 13 | 2.57 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 9 | 2.57 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 16 | 2.57 |
| (1,3084) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 19 | 2.57 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 6 | 2.57 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 6 | 2.57 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 2 | 2.57 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 4 | 2.57 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 1 | 2.57 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 19 | 2.57 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 14 | 2.57 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 14 | 2.57 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 14 | 2.57 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 1 | 2.57 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 1 | 2.57 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 1 | 2.57 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 16 | 2.57 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 10 | 2.57 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 3 | 2.57 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 14 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 14 | 2.57 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 14 | 2.57 |
| (1,2568) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 10 | 2.57 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 18 | 2.57 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 18 | 2.57 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 18 | 2.57 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 20 | 2.57 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 1 | 2.57 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 2 | 2.57 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 10 | 2.57 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 19 | 2.57 |
| (1,2322) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 3 | 2.57 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 11 | 2.57 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 17 | 2.57 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 13 | 2.57 |
| (1,2128) | 1:147:A:SER:H | 1:159:A:ILE:HB | 14 | 2.57 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 8 | 2.57 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.57 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.57 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.57 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 6 | 2.57 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 12 | 2.57 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 17 | 2.57 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 18 | 2.57 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 18 | 2.57 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 18 | 2.57 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 18 | 2.57 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 18 | 2.57 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 18 | 2.57 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 18 | 2.57 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 18 | 2.57 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 18 | 2.57 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 20 | 2.57 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 20 | 2.57 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 20 | 2.57 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 20 | 2.57 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 20 | 2.57 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 20 | 2.57 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 12 | 2.57 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 12 | 2.57 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 12 | 2.57 |
| (1,1970) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 20 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1970) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 20 | 2.57 |
| (1,1970) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 20 | 2.57 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 3 | 2.57 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 3 | 2.57 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 3 | 2.57 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 3 | 2.57 |
| (1,1854) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 12 | 2.57 |
| (1,1854) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 12 | 2.57 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 13 | 2.57 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 13 | 2.57 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 13 | 2.57 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 13 | 2.57 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 5 | 2.57 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 5 | 2.57 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 5 | 2.57 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 5 | 2.57 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 5 | 2.57 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 5 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 10 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 10 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 10 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 10 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 10 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 10 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 10 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 10 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 10 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 11 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 11 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 11 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 11 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 11 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 11 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 11 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 11 | 2.57 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 11 | 2.57 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 18 | 2.57 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 18 | 2.57 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 8 | 2.57 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 18 | 2.57 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 13 | 2.57 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 13 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 13 | 2.57 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 16 | 2.57 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 16 | 2.57 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 16 | 2.57 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 16 | 2.57 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 16 | 2.57 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 16 | 2.57 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 9 | 2.57 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 9 | 2.57 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 18 | 2.57 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 17 | 2.57 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 11 | 2.57 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 6 | 2.57 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 11 | 2.57 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 18 | 2.57 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 18 | 2.57 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 18 | 2.57 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 18 | 2.57 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 18 | 2.57 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 18 | 2.57 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 18 | 2.57 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 18 | 2.57 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 18 | 2.57 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 8 | 2.57 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 8 | 2.57 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 8 | 2.57 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 4 | 2.57 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 10 | 2.57 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 8 | 2.57 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 10 | 2.57 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 17 | 2.57 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 9 | 2.57 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 13 | 2.57 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 1 | 2.57 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 12 | 2.57 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 11 | 2.57 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 7 | 2.57 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 8 | 2.57 |
| (1,882) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 13 | 2.57 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 10 | 2.57 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 15 | 2.57 |
| (1,822) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 5 | 2.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 8 | 2.57 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 19 | 2.57 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 10 | 2.57 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 10 | 2.57 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 14 | 2.57 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 6 | 2.57 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 16 | 2.57 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 4 | 2.57 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 19 | 2.57 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 14 | 2.57 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 14 | 2.57 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 14 | 2.57 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 6 | 2.57 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 6 | 2.57 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 6 | 2.57 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 17 | 2.57 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 2 | 2.57 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 9 | 2.57 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 9 | 2.57 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 9 | 2.57 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 1 | 2.57 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 1 | 2.57 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 1 | 2.57 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 17 | 2.57 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 17 | 2.57 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 18 | 2.56 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 15 | 2.56 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 3 | 2.56 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 3 | 2.56 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 8 | 2.56 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 8 | 2.56 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 8 | 2.56 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 8 | 2.56 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 16 | 2.56 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 16 | 2.56 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 14 | 2.56 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 14 | 2.56 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG2 | 19 | 2.56 |
| (1,9361) | 1:116:A:ALA:H | 1:117:A:LYS:HG3 | 19 | 2.56 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 15 | 2.56 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 15 | 2.56 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 4 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 4 | 2.56 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 7 | 2.56 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 7 | 2.56 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 17 | 2.56 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 17 | 2.56 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 17 | 2.56 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 17 | 2.56 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 17 | 2.56 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 17 | 2.56 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 12 | 2.56 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 12 | 2.56 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 12 | 2.56 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 12 | 2.56 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 12 | 2.56 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 12 | 2.56 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 15 | 2.56 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 15 | 2.56 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 8 | 2.56 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 8 | 2.56 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 16 | 2.56 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 16 | 2.56 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 3 | 2.56 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 3 | 2.56 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 9 | 2.56 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 9 | 2.56 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 2 | 2.56 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 2 | 2.56 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 8 | 2.56 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 8 | 2.56 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 2 | 2.56 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 2 | 2.56 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 2 | 2.56 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 2 | 2.56 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 20 | 2.56 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 20 | 2.56 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 20 | 2.56 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 20 | 2.56 |
| (1,8619) | 1:15:A:MET:HB2 | 1:23:A:TYR:H | 5 | 2.56 |
| (1,8619) | 1:15:A:MET:HB3 | 1:23:A:TYR:H | 5 | 2.56 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 13 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 2.56 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 2.56 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 18 | 2.56 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 18 | 2.56 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 2 | 2.56 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 2 | 2.56 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 2 | 2.56 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 2 | 2.56 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 14 | 2.56 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 14 | 2.56 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 14 | 2.56 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 14 | 2.56 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 16 | 2.56 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 16 | 2.56 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 13 | 2.56 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 13 | 2.56 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 13 | 2.56 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 13 | 2.56 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 13 | 2.56 |
| (1,7605) | 1:26:A:ASN:H | 1:32:A:SER:H | 19 | 2.56 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 6 | 2.56 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 6 | 2.56 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 15 | 2.56 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 12 | 2.56 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 14 | 2.56 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 5 | 2.56 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 14 | 2.56 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 14 | 2.56 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 15 | 2.56 |
| (1,6952) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 10 | 2.56 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 19 | 2.56 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 19 | 2.56 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 19 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 10 | 2.56 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 17 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 7 | 2.56 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 7 | 2.56 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 12 | 2.56 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 12 | 2.56 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 12 | 2.56 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 11 | 2.56 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 18 | 2.56 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 19 | 2.56 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 5 | 2.56 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 3 | 2.56 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 5 | 2.56 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 8 | 2.56 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 16 | 2.56 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 16 | 2.56 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 2 | 2.56 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 2 | 2.56 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 2 | 2.56 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 20 | 2.56 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 20 | 2.56 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 20 | 2.56 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 20 | 2.56 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 20 | 2.56 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 20 | 2.56 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 16 | 2.56 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 16 | 2.56 |
| (1,6288) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 16 | 2.56 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 11 | 2.56 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 11 | 2.56 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 19 | 2.56 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 19 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6158) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 19 | 2.56 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 1 | 2.56 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 1 | 2.56 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 1 | 2.56 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 1 | 2.56 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 1 | 2.56 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 1 | 2.56 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 1 | 2.56 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 1 | 2.56 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 1 | 2.56 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 13 | 2.56 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 18 | 2.56 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 13 | 2.56 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 17 | 2.56 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 7 | 2.56 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 12 | 2.56 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 14 | 2.56 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 14 | 2.56 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 14 | 2.56 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 14 | 2.56 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 14 | 2.56 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 14 | 2.56 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 8 | 2.56 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 8 | 2.56 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 11 | 2.56 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 2 | 2.56 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 8 | 2.56 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 5 | 2.56 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 9 | 2.56 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 13 | 2.56 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 8 | 2.56 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 4 | 2.56 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 4 | 2.56 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 18 | 2.56 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 18 | 2.56 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 9 | 2.56 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 19 | 2.56 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 19 | 2.56 |
| (1,5527) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 19 | 2.56 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 11 | 2.56 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 9 | 2.56 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 9 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 9 | 2.56 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 3 | 2.56 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 17 | 2.56 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 20 | 2.56 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 5 | 2.56 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 5 | 2.56 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 5 | 2.56 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 18 | 2.56 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 18 | 2.56 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 18 | 2.56 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 11 | 2.56 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 11 | 2.56 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 11 | 2.56 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 8 | 2.56 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 6 | 2.56 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 17 | 2.56 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 5 | 2.56 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 5 | 2.56 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 5 | 2.56 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 8 | 2.56 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 8 | 2.56 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 8 | 2.56 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 8 | 2.56 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 8 | 2.56 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 8 | 2.56 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 8 | 2.56 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 8 | 2.56 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 8 | 2.56 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 18 | 2.56 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 18 | 2.56 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 18 | 2.56 |
| (1,4806) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 17 | 2.56 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 20 | 2.56 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 8 | 2.56 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 8 | 2.56 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 8 | 2.56 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 8 | 2.56 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 8 | 2.56 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 8 | 2.56 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 8 | 2.56 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 1 | 2.56 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 1 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 1 | 2.56 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 2 | 2.56 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 2.56 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 2.56 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 2.56 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 10 | 2.56 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 10 | 2.56 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 13 | 2.56 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 13 | 2.56 |
| (1,4577) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 16 | 2.56 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 7 | 2.56 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 7 | 2.56 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 7 | 2.56 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 7 | 2.56 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 7 | 2.56 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 7 | 2.56 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 7 | 2.56 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 3 | 2.56 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 14 | 2.56 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 14 | 2.56 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 19 | 2.56 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 19 | 2.56 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 19 | 2.56 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 9 | 2.56 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 9 | 2.56 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 8 | 2.56 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 10 | 2.56 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 10 | 2.56 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 6 | 2.56 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 6 | 2.56 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 6 | 2.56 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 6 | 2.56 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 4 | 2.56 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 4 | 2.56 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 4 | 2.56 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 4 | 2.56 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 4 | 2.56 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 10 | 2.56 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 6 | 2.56 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 8 | 2.56 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 2 | 2.56 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 2 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 2 | 2.56 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 10 | 2.56 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 10 | 2.56 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 7 | 2.56 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 7 | 2.56 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 17 | 2.56 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 17 | 2.56 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 17 | 2.56 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 17 | 2.56 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 17 | 2.56 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 17 | 2.56 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 13 | 2.56 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 13 | 2.56 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 13 | 2.56 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 11 | 2.56 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 11 | 2.56 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 11 | 2.56 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 11 | 2.56 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 11 | 2.56 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 11 | 2.56 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 12 | 2.56 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 12 | 2.56 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 12 | 2.56 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 12 | 2.56 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 12 | 2.56 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 12 | 2.56 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 15 | 2.56 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 15 | 2.56 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 16 | 2.56 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 16 | 2.56 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 3 | 2.56 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 3 | 2.56 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 9 | 2.56 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 9 | 2.56 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 18 | 2.56 |
| (1,3886) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 5 | 2.56 |
| (1,3886) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 5 | 2.56 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 1 | 2.56 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 1 | 2.56 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 8 | 2.56 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 8 | 2.56 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 4 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 4 | 2.56 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 4 | 2.56 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 4 | 2.56 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 9 | 2.56 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 9 | 2.56 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 9 | 2.56 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 9 | 2.56 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 14 | 2.56 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 14 | 2.56 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 14 | 2.56 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 14 | 2.56 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 14 | 2.56 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 14 | 2.56 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 14 | 2.56 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 14 | 2.56 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 11 | 2.56 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 9 | 2.56 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 9 | 2.56 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 9 | 2.56 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 10 | 2.56 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 10 | 2.56 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 10 | 2.56 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 11 | 2.56 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 3 | 2.56 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 6 | 2.56 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 6 | 2.56 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 13 | 2.56 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 13 | 2.56 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 13 | 2.56 |
| (1,3306) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 5 | 2.56 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 4 | 2.56 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 5 | 2.56 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 6 | 2.56 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 6 | 2.56 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 6 | 2.56 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 4 | 2.56 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 4 | 2.56 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 12 | 2.56 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 12 | 2.56 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 5 | 2.56 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 15 | 2.56 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 18 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 18 | 2.56 |
| (1,2972) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 10 | 2.56 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 19 | 2.56 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 19 | 2.56 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 19 | 2.56 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 2 | 2.56 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 2 | 2.56 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 2 | 2.56 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 9 | 2.56 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 15 | 2.56 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 16 | 2.56 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 18 | 2.56 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 10 | 2.56 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 17 | 2.56 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 7 | 2.56 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 7 | 2.56 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 7 | 2.56 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 7 | 2.56 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 7 | 2.56 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 12 | 2.56 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 12 | 2.56 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 12 | 2.56 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 12 | 2.56 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 11 | 2.56 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 18 | 2.56 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 4 | 2.56 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 4 | 2.56 |
| (1,2588) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 4 | 2.56 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 18 | 2.56 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 19 | 2.56 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 15 | 2.56 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 4 | 2.56 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 5 | 2.56 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 16 | 2.56 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 3 | 2.56 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 16 | 2.56 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 2 | 2.56 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 2 | 2.56 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 2 | 2.56 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 20 | 2.56 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 20 | 2.56 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 20 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 20 | 2.56 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 18 | 2.56 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 18 | 2.56 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 18 | 2.56 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 3 | 2.56 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 14 | 2.56 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 7 | 2.56 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 7 | 2.56 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 7 | 2.56 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 16 | 2.56 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 16 | 2.56 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 16 | 2.56 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 16 | 2.56 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 13 | 2.56 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 13 | 2.56 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 13 | 2.56 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 2.56 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 2.56 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 2.56 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 11 | 2.56 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 11 | 2.56 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 11 | 2.56 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 8 | 2.56 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 3 | 2.56 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 3 | 2.56 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 16 | 2.56 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 16 | 2.56 |
| (1,1960) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 16 | 2.56 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 16 | 2.56 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 16 | 2.56 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 16 | 2.56 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 16 | 2.56 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 16 | 2.56 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 16 | 2.56 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 16 | 2.56 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 16 | 2.56 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 16 | 2.56 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 13 | 2.56 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 13 | 2.56 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 13 | 2.56 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 11 | 2.56 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 11 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 19 | 2.56 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 19 | 2.56 |
| (1,1758) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 19 | 2.56 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 1 | 2.56 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 1 | 2.56 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 1 | 2.56 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 1 | 2.56 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 1 | 2.56 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 1 | 2.56 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 1 | 2.56 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 1 | 2.56 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 1 | 2.56 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 13 | 2.56 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 18 | 2.56 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 18 | 2.56 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 18 | 2.56 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 18 | 2.56 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 13 | 2.56 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 6 | 2.56 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 6 | 2.56 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 6 | 2.56 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 6 | 2.56 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 7 | 2.56 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 7 | 2.56 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 7 | 2.56 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 7 | 2.56 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 12 | 2.56 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 19 | 2.56 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 11 | 2.56 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 11 | 2.56 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 11 | 2.56 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 17 | 2.56 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 7 | 2.56 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 12 | 2.56 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 19 | 2.56 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 19 | 2.56 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 14 | 2.56 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 14 | 2.56 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 14 | 2.56 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 14 | 2.56 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 14 | 2.56 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 14 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 8 | 2.56 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 8 | 2.56 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 11 | 2.56 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 11 | 2.56 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 11 | 2.56 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 11 | 2.56 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 2 | 2.56 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 10 | 2.56 |
| (1,1116) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 11 | 2.56 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 9 | 2.56 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 8 | 2.56 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 5 | 2.56 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 9 | 2.56 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 13 | 2.56 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 8 | 2.56 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 17 | 2.56 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 17 | 2.56 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 17 | 2.56 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 6 | 2.56 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 18 | 2.56 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 18 | 2.56 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 18 | 2.56 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 4 | 2.56 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 4 | 2.56 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 18 | 2.56 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 18 | 2.56 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 1 | 2.56 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 9 | 2.56 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 19 | 2.56 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 19 | 2.56 |
| (1,682) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 19 | 2.56 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 11 | 2.56 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 3 | 2.56 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 9 | 2.56 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 9 | 2.56 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 9 | 2.56 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 3 | 2.56 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 10 | 2.56 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 10 | 2.56 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 10 | 2.56 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 10 | 2.56 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 10 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 10 | 2.56 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 18 | 2.56 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 18 | 2.56 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 18 | 2.56 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 12 | 2.56 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 12 | 2.56 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 12 | 2.56 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 16 | 2.56 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 16 | 2.56 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 16 | 2.56 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 1 | 2.56 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 1 | 2.56 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 1 | 2.56 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 20 | 2.56 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 20 | 2.56 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 20 | 2.56 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 10 | 2.56 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 10 | 2.56 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 10 | 2.56 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 16 | 2.56 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 20 | 2.56 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 20 | 2.56 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 20 | 2.56 |
| (4,286) | 1:98:A:SER:CB | 1:10:A:GLY:H | 9 | 2.55 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 12 | 2.55 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 14 | 2.55 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 9 | 2.55 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 4 | 2.55 |
| (4,145) | 1:98:A:SER:CB | 1:4:A:GLU:H | 20 | 2.55 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 5 | 2.55 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 20 | 2.55 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 20 | 2.55 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 7 | 2.55 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 7 | 2.55 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 19 | 2.55 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 19 | 2.55 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 4 | 2.55 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 4 | 2.55 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 10 | 2.55 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 10 | 2.55 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 20 | 2.55 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 20 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 11 | 2.55 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 11 | 2.55 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 2.55 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 2.55 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 8 | 2.55 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 8 | 2.55 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 6 | 2.55 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 6 | 2.55 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 6 | 2.55 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 6 | 2.55 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 13 | 2.55 |
| (1,9289) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 13 | 2.55 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 5 | 2.55 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 5 | 2.55 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 3 | 2.55 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 3 | 2.55 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 3 | 2.55 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 3 | 2.55 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 3 | 2.55 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 3 | 2.55 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 13 | 2.55 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 13 | 2.55 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 13 | 2.55 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 13 | 2.55 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 13 | 2.55 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 13 | 2.55 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 1 | 2.55 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 1 | 2.55 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 19 | 2.55 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 19 | 2.55 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 14 | 2.55 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 14 | 2.55 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 12 | 2.55 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 12 | 2.55 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 12 | 2.55 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 12 | 2.55 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 12 | 2.55 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 12 | 2.55 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 13 | 2.55 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 13 | 2.55 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 18 | 2.55 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 18 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 18 | 2.55 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 18 | 2.55 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 18 | 2.55 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 18 | 2.55 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 14 | 2.55 |
| (1,8976) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 14 | 2.55 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 14 | 2.55 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 14 | 2.55 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 11 | 2.55 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 11 | 2.55 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 20 | 2.55 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 20 | 2.55 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 18 | 2.55 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 18 | 2.55 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 20 | 2.55 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 20 | 2.55 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 20 | 2.55 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 20 | 2.55 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 20 | 2.55 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 20 | 2.55 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 4 | 2.55 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 4 | 2.55 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 7 | 2.55 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 7 | 2.55 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 11 | 2.55 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 11 | 2.55 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 11 | 2.55 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 11 | 2.55 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 2 | 2.55 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 2 | 2.55 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 20 | 2.55 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 20 | 2.55 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 7 | 2.55 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 6 | 2.55 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 10 | 2.55 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 11 | 2.55 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 3 | 2.55 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 2 | 2.55 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 13 | 2.55 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 7 | 2.55 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 7 | 2.55 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 5 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 5 | 2.55 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB1 | 3 | 2.55 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB2 | 3 | 2.55 |
| (1,7366) | 1:103:A:PHE:HD1 | 1:107:A:ALA:HB3 | 3 | 2.55 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB1 | 3 | 2.55 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB2 | 3 | 2.55 |
| (1,7366) | 1:103:A:PHE:HD2 | 1:107:A:ALA:HB3 | 3 | 2.55 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 19 | 2.55 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 5 | 2.55 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 18 | 2.55 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 11 | 2.55 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 4 | 2.55 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 4 | 2.55 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 9 | 2.55 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 4 | 2.55 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 4 | 2.55 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 4 | 2.55 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 10 | 2.55 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 11 | 2.55 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 11 | 2.55 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 8 | 2.55 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 8 | 2.55 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 17 | 2.55 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 17 | 2.55 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 8 | 2.55 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 9 | 2.55 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 9 | 2.55 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 12 | 2.55 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 12 | 2.55 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 18 | 2.55 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 13 | 2.55 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 15 | 2.55 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 4 | 2.55 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 10 | 2.55 |
| (1,6589) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 13 | 2.55 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 12 | 2.55 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 17 | 2.55 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 17 | 2.55 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 17 | 2.55 |
| (1,6409) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 15 | 2.55 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 2.55 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 20 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 7 | 2.55 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 7 | 2.55 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 7 | 2.55 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 7 | 2.55 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 7 | 2.55 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 10 | 2.55 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 10 | 2.55 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 10 | 2.55 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 10 | 2.55 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 10 | 2.55 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 10 | 2.55 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 10 | 2.55 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 10 | 2.55 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 10 | 2.55 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 11 | 2.55 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 17 | 2.55 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 17 | 2.55 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 1 | 2.55 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 1 | 2.55 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 17 | 2.55 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 17 | 2.55 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 6 | 2.55 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 6 | 2.55 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 6 | 2.55 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 6 | 2.55 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 6 | 2.55 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 6 | 2.55 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 6 | 2.55 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 6 | 2.55 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 6 | 2.55 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 1 | 2.55 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 1 | 2.55 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 1 | 2.55 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 1 | 2.55 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 7 | 2.55 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 5 | 2.55 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 5 | 2.55 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 5 | 2.55 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 10 | 2.55 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 14 | 2.55 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 5 | 2.55 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 5 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 5 | 2.55 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 12 | 2.55 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 4 | 2.55 |
| (1,5782) | 1:114:A:SER:H | 1:115:A:SER:H | 20 | 2.55 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 2 | 2.55 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 1 | 2.55 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 1 | 2.55 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 1 | 2.55 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 18 | 2.55 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 7 | 2.55 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 8 | 2.55 |
| (1,5485) | 1:94:A:GLN:H | 1:95:A:LYS:H | 5 | 2.55 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 19 | 2.55 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 19 | 2.55 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 5 | 2.55 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 5 | 2.55 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 5 | 2.55 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 8 | 2.55 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 8 | 2.55 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 8 | 2.55 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 15 | 2.55 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 18 | 2.55 |
| (1,5383) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 16 | 2.55 |
| (1,5383) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 16 | 2.55 |
| (1,5383) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 16 | 2.55 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 15 | 2.55 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 18 | 2.55 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 15 | 2.55 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 17 | 2.55 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 13 | 2.55 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 13 | 2.55 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 13 | 2.55 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 8 | 2.55 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 13 | 2.55 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 13 | 2.55 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 13 | 2.55 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 1 | 2.55 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 1 | 2.55 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 1 | 2.55 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 5 | 2.55 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 11 | 2.55 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 11 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 11 | 2.55 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 2 | 2.55 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 9 | 2.55 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 3 | 2.55 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 11 | 2.55 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 4 | 2.55 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 2 | 2.55 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 6 | 2.55 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 12 | 2.55 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 12 | 2.55 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 1 | 2.55 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 4 | 2.55 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 4 | 2.55 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 4 | 2.55 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 4 | 2.55 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 4 | 2.55 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 4 | 2.55 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 10 | 2.55 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 10 | 2.55 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 16 | 2.55 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 9 | 2.55 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 9 | 2.55 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 9 | 2.55 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 5 | 2.55 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 15 | 2.55 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 19 | 2.55 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 9 | 2.55 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 12 | 2.55 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 16 | 2.55 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 5 | 2.55 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 13 | 2.55 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 13 | 2.55 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 13 | 2.55 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 9 | 2.55 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 9 | 2.55 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 9 | 2.55 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 9 | 2.55 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 9 | 2.55 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 9 | 2.55 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 6 | 2.55 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 6 | 2.55 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 10 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 4 | 2.55 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 4 | 2.55 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 4 | 2.55 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 2 | 2.55 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 2 | 2.55 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 2 | 2.55 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 4 | 2.55 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 4 | 2.55 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 10 | 2.55 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 10 | 2.55 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 11 | 2.55 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 11 | 2.55 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 15 | 2.55 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 15 | 2.55 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 15 | 2.55 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 15 | 2.55 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 15 | 2.55 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 15 | 2.55 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 7 | 2.55 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 5 | 2.55 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 5 | 2.55 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 20 | 2.55 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 20 | 2.55 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 20 | 2.55 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 20 | 2.55 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 6 | 2.55 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 2.55 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 2.55 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 8 | 2.55 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 8 | 2.55 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 6 | 2.55 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 6 | 2.55 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 6 | 2.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 2 | 2.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 3 | 2.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 6 | 2.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 7 | 2.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 9 | 2.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 14 | 2.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 15 | 2.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 19 | 2.55 |
| (1,4333) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 16 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 6 | 2.55 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 6 | 2.55 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 6 | 2.55 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 6 | 2.55 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 13 | 2.55 |
| (1,4272) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 13 | 2.55 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 5 | 2.55 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 5 | 2.55 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 13 | 2.55 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 13 | 2.55 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 19 | 2.55 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 19 | 2.55 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 19 | 2.55 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 19 | 2.55 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 19 | 2.55 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 19 | 2.55 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 4 | 2.55 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 4 | 2.55 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 4 | 2.55 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 4 | 2.55 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 4 | 2.55 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 4 | 2.55 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 3 | 2.55 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 3 | 2.55 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 3 | 2.55 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 3 | 2.55 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 3 | 2.55 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 3 | 2.55 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 7 | 2.55 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 7 | 2.55 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 7 | 2.55 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 13 | 2.55 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 13 | 2.55 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 13 | 2.55 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 13 | 2.55 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 13 | 2.55 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 13 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 13 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 13 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 13 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 13 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 13 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 13 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 16 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 16 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 16 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 16 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 16 | 2.55 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 16 | 2.55 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 1 | 2.55 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 1 | 2.55 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 14 | 2.55 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 14 | 2.55 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 14 | 2.55 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 14 | 2.55 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 12 | 2.55 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 12 | 2.55 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 12 | 2.55 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 12 | 2.55 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 12 | 2.55 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 12 | 2.55 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 6 | 2.55 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 6 | 2.55 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 6 | 2.55 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 9 | 2.55 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 9 | 2.55 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 9 | 2.55 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 3 | 2.55 |
| (1,3970) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 3 | 2.55 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 14 | 2.55 |
| (1,3944) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 14 | 2.55 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 11 | 2.55 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 11 | 2.55 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 5 | 2.55 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 5 | 2.55 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 2.55 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 18 | 2.55 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 18 | 2.55 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 13 | 2.55 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 13 | 2.55 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 13 | 2.55 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 13 | 2.55 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 13 | 2.55 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 13 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 2.55 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 2.55 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 2.55 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 2.55 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 2.55 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 2.55 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 5 | 2.55 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 18 | 2.55 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 18 | 2.55 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 18 | 2.55 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 18 | 2.55 |
| (1,3658) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 15 | 2.55 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 17 | 2.55 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 16 | 2.55 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 15 | 2.55 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 12 | 2.55 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 12 | 2.55 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 3 | 2.55 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 14 | 2.55 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 9 | 2.55 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 9 | 2.55 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 9 | 2.55 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 18 | 2.55 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 4 | 2.55 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 4 | 2.55 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 3 | 2.55 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 3 | 2.55 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 3 | 2.55 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 2 | 2.55 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 10 | 2.55 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 11 | 2.55 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 11 | 2.55 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 8 | 2.55 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 8 | 2.55 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 17 | 2.55 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 17 | 2.55 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 19 | 2.55 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 19 | 2.55 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 19 | 2.55 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 5 | 2.55 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 12 | 2.55 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 12 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 12 | 2.55 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 2 | 2.55 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 2 | 2.55 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 19 | 2.55 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 4 | 2.55 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 18 | 2.55 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 10 | 2.55 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 6 | 2.55 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 20 | 2.55 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 13 | 2.55 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 15 | 2.55 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 8 | 2.55 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 17 | 2.55 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 4 | 2.55 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 6 | 2.55 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 2 | 2.55 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 2.55 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 2 | 2.55 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 10 | 2.55 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 15 | 2.55 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 15 | 2.55 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 15 | 2.55 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 2 | 2.55 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 15 | 2.55 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 11 | 2.55 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 3 | 2.55 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 12 | 2.55 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 17 | 2.55 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 17 | 2.55 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 17 | 2.55 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 7 | 2.55 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 14 | 2.55 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 15 | 2.55 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 14 | 2.55 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 18 | 2.55 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 19 | 2.55 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 14 | 2.55 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 7 | 2.55 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 7 | 2.55 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 7 | 2.55 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 2 | 2.55 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 2 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 2 | 2.55 |
| (1,2122) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 15 | 2.55 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 2.55 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 13 | 2.55 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 20 | 2.55 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 5 | 2.55 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 5 | 2.55 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 5 | 2.55 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 7 | 2.55 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 7 | 2.55 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 7 | 2.55 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 7 | 2.55 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 7 | 2.55 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 5 | 2.55 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 5 | 2.55 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 5 | 2.55 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 18 | 2.55 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 18 | 2.55 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 18 | 2.55 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 10 | 2.55 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 10 | 2.55 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 10 | 2.55 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 10 | 2.55 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 10 | 2.55 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 10 | 2.55 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 10 | 2.55 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 10 | 2.55 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 10 | 2.55 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 11 | 2.55 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 17 | 2.55 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 17 | 2.55 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 7 | 2.55 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 1 | 2.55 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 1 | 2.55 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 17 | 2.55 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 17 | 2.55 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 6 | 2.55 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 6 | 2.55 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 6 | 2.55 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 6 | 2.55 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 6 | 2.55 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 6 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 6 | 2.55 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 6 | 2.55 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 6 | 2.55 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 1 | 2.55 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 20 | 2.55 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 3 | 2.55 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 14 | 2.55 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 14 | 2.55 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 14 | 2.55 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 20 | 2.55 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 20 | 2.55 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 20 | 2.55 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 20 | 2.55 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 1 | 2.55 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 1 | 2.55 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 1 | 2.55 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 7 | 2.55 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 17 | 2.55 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 5 | 2.55 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 5 | 2.55 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 5 | 2.55 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 10 | 2.55 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 3 | 2.55 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 6 | 2.55 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 11 | 2.55 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 14 | 2.55 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 5 | 2.55 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 5 | 2.55 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 5 | 2.55 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 12 | 2.55 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 4 | 2.55 |
| (1,1134) | 1:114:A:SER:H | 1:115:A:SER:H | 20 | 2.55 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 3 | 2.55 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 14 | 2.55 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 2 | 2.55 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 15 | 2.55 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 14 | 2.55 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 1 | 2.55 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 1 | 2.55 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 1 | 2.55 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 18 | 2.55 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 13 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 1 | 2.55 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 1 | 2.55 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 1 | 2.55 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 7 | 2.55 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 7 | 2.55 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 7 | 2.55 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 15 | 2.55 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 2 | 2.55 |
| (1,600) | 1:94:A:GLN:H | 1:95:A:LYS:H | 5 | 2.55 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 19 | 2.55 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 19 | 2.55 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 15 | 2.55 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 8 | 2.55 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 8 | 2.55 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 8 | 2.55 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 15 | 2.55 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 18 | 2.55 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 12 | 2.55 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 12 | 2.55 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 12 | 2.55 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 2 | 2.55 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 2 | 2.55 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 2 | 2.55 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 18 | 2.55 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 9 | 2.55 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 9 | 2.55 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 9 | 2.55 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 12 | 2.55 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 12 | 2.55 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 12 | 2.55 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 11 | 2.55 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 11 | 2.55 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 20 | 2.55 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 4 | 2.55 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 4 | 2.55 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 4 | 2.55 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 3 | 2.55 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 3 | 2.55 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 8 | 2.55 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 8 | 2.55 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 7 | 2.55 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 7 | 2.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 7 | 2.55 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 15 | 2.55 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 15 | 2.55 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 15 | 2.55 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 16 | 2.55 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 3 | 2.55 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 3 | 2.55 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 3 | 2.55 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 18 | 2.55 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 18 | 2.55 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 18 | 2.55 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 11 | 2.55 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 11 | 2.55 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 2 | 2.54 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 18 | 2.54 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 13 | 2.54 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 17 | 2.54 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 17 | 2.54 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 3 | 2.54 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 3 | 2.54 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 9 | 2.54 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 9 | 2.54 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 17 | 2.54 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 17 | 2.54 |
| (1,9279) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 12 | 2.54 |
| (1,9279) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 12 | 2.54 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 9 | 2.54 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 9 | 2.54 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 9 | 2.54 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 9 | 2.54 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 1 | 2.54 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 1 | 2.54 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 13 | 2.54 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 13 | 2.54 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 13 | 2.54 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 13 | 2.54 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 13 | 2.54 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 13 | 2.54 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 9 | 2.54 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 9 | 2.54 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 16 | 2.54 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 16 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 12 | 2.54 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 12 | 2.54 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 4 | 2.54 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 4 | 2.54 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 4 | 2.54 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 4 | 2.54 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 4 | 2.54 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 4 | 2.54 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 17 | 2.54 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 17 | 2.54 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 16 | 2.54 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 16 | 2.54 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 3 | 2.54 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 3 | 2.54 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 8 | 2.54 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 8 | 2.54 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 16 | 2.54 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 16 | 2.54 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 17 | 2.54 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 17 | 2.54 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 1 | 2.54 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 1 | 2.54 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 7 | 2.54 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 7 | 2.54 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 20 | 2.54 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 20 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 3 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 3 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 5 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 5 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 7 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 7 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 10 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 10 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 14 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 14 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 17 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 17 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 19 | 2.54 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 19 | 2.54 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 4 | 2.54 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 4 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 10 | 2.54 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 10 | 2.54 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 10 | 2.54 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 10 | 2.54 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 14 | 2.54 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 14 | 2.54 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 8 | 2.54 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 8 | 2.54 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 6 | 2.54 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 6 | 2.54 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 10 | 2.54 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 10 | 2.54 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 6 | 2.54 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 16 | 2.54 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 17 | 2.54 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 10 | 2.54 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 10 | 2.54 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 10 | 2.54 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 18 | 2.54 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 18 | 2.54 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 18 | 2.54 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 18 | 2.54 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 15 | 2.54 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 2 | 2.54 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 2 | 2.54 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 1 | 2.54 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 15 | 2.54 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 5 | 2.54 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 2 | 2.54 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 2 | 2.54 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 3 | 2.54 |
| (1,7150) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 11 | 2.54 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 1 | 2.54 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 16 | 2.54 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 7 | 2.54 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 14 | 2.54 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 1 | 2.54 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 1 | 2.54 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 5 | 2.54 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 5 | 2.54 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 7 | 2.54 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 7 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 4 | 2.54 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 9 | 2.54 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 9 | 2.54 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 9 | 2.54 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 14 | 2.54 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 14 | 2.54 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 14 | 2.54 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 8 | 2.54 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 2 | 2.54 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 6 | 2.54 |
| (1,6806) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 14 | 2.54 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 9 | 2.54 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 9 | 2.54 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 9 | 2.54 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 20 | 2.54 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 20 | 2.54 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 20 | 2.54 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 14 | 2.54 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 15 | 2.54 |
| (1,6682) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 20 | 2.54 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 18 | 2.54 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 18 | 2.54 |
| (1,6535) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 16 | 2.54 |
| (1,6535) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 16 | 2.54 |
| (1,6535) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 16 | 2.54 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 4 | 2.54 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 4 | 2.54 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 4 | 2.54 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 5 | 2.54 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 5 | 2.54 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 5 | 2.54 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 20 | 2.54 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 3 | 2.54 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 2 | 2.54 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 15 | 2.54 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 3 | 2.54 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 3 | 2.54 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 6 | 2.54 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 6 | 2.54 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 14 | 2.54 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 14 | 2.54 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 1 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 1 | 2.54 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 1 | 2.54 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 5 | 2.54 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 5 | 2.54 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 5 | 2.54 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 16 | 2.54 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 15 | 2.54 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 15 | 2.54 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 15 | 2.54 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 6 | 2.54 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 3 | 2.54 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 3 | 2.54 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 3 | 2.54 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 1 | 2.54 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 1 | 2.54 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 10 | 2.54 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 11 | 2.54 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 11 | 2.54 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 11 | 2.54 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 12 | 2.54 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 5 | 2.54 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 14 | 2.54 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 12 | 2.54 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 20 | 2.54 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 20 | 2.54 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 20 | 2.54 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 3 | 2.54 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 6 | 2.54 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 14 | 2.54 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 14 | 2.54 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 14 | 2.54 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 20 | 2.54 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 18 | 2.54 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 18 | 2.54 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 18 | 2.54 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 1 | 2.54 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 15 | 2.54 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 16 | 2.54 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 6 | 2.54 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 8 | 2.54 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 14 | 2.54 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 14 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 14 | 2.54 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 7 | 2.54 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 13 | 2.54 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 3 | 2.54 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 19 | 2.54 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 19 | 2.54 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 19 | 2.54 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 4 | 2.54 |
| (1,4782) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 18 | 2.54 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 5 | 2.54 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 11 | 2.54 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 13 | 2.54 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 5 | 2.54 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 10 | 2.54 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 10 | 2.54 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 10 | 2.54 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 17 | 2.54 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 17 | 2.54 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 2.54 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 2.54 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 2.54 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 3 | 2.54 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 3 | 2.54 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 3 | 2.54 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 3 | 2.54 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 3 | 2.54 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 20 | 2.54 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 20 | 2.54 |
| (1,4470) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 14 | 2.54 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 4 | 2.54 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 8 | 2.54 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 9 | 2.54 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 9 | 2.54 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 3 | 2.54 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 3 | 2.54 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 10 | 2.54 |
| (1,4432) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 10 | 2.54 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 20 | 2.54 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 20 | 2.54 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 17 | 2.54 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 17 | 2.54 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 1 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 1 | 2.54 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 2 | 2.54 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 2 | 2.54 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 10 | 2.54 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 10 | 2.54 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 11 | 2.54 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 11 | 2.54 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 19 | 2.54 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 13 | 2.54 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 18 | 2.54 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 12 | 2.54 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 12 | 2.54 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 17 | 2.54 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 5 | 2.54 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 17 | 2.54 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 17 | 2.54 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 17 | 2.54 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 17 | 2.54 |
| (1,4266) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 12 | 2.54 |
| (1,4266) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 12 | 2.54 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 13 | 2.54 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 13 | 2.54 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 13 | 2.54 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 13 | 2.54 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 13 | 2.54 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 13 | 2.54 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 14 | 2.54 |
| (1,4206) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 14 | 2.54 |
| (1,4201) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 14 | 2.54 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 9 | 2.54 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 9 | 2.54 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 16 | 2.54 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 16 | 2.54 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 9 | 2.54 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 1 | 2.54 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 7 | 2.54 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 18 | 2.54 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 18 | 2.54 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 18 | 2.54 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 18 | 2.54 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 18 | 2.54 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 18 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 7 | 2.54 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 7 | 2.54 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 7 | 2.54 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 7 | 2.54 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 6 | 2.54 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 6 | 2.54 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 8 | 2.54 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 8 | 2.54 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 8 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 1 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 1 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 3 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 3 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 6 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 6 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 10 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 10 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 11 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 11 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 14 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 14 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 17 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 17 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 20 | 2.54 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 20 | 2.54 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 13 | 2.54 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 6 | 2.54 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 5 | 2.54 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 5 | 2.54 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 15 | 2.54 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 15 | 2.54 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 15 | 2.54 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 2.54 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 2.54 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 2.54 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 14 | 2.54 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 14 | 2.54 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 14 | 2.54 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 13 | 2.54 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 13 | 2.54 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 6 | 2.54 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 6 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 19 | 2.54 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 19 | 2.54 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 19 | 2.54 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 3 | 2.54 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 3 | 2.54 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 3 | 2.54 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 3 | 2.54 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 3 | 2.54 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 3 | 2.54 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 11 | 2.54 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 11 | 2.54 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 11 | 2.54 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 11 | 2.54 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 11 | 2.54 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 11 | 2.54 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 6 | 2.54 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 6 | 2.54 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 5 | 2.54 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 5 | 2.54 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 19 | 2.54 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 19 | 2.54 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 17 | 2.54 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 17 | 2.54 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 17 | 2.54 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 17 | 2.54 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 4 | 2.54 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 4 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 1 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 1 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 4 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 4 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 9 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 9 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 14 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 14 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 16 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 16 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 19 | 2.54 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 19 | 2.54 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 18 | 2.54 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 18 | 2.54 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 18 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 18 | 2.54 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 1 | 2.54 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 2.54 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 1 | 2.54 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 14 | 2.54 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 14 | 2.54 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 16 | 2.54 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 3 | 2.54 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 2 | 2.54 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 13 | 2.54 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 13 | 2.54 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 10 | 2.54 |
| (1,3315) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 18 | 2.54 |
| (1,3315) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 18 | 2.54 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 15 | 2.54 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 3 | 2.54 |
| (1,3258) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 11 | 2.54 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 5 | 2.54 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 5 | 2.54 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 5 | 2.54 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 15 | 2.54 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 15 | 2.54 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 15 | 2.54 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 6 | 2.54 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 10 | 2.54 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 15 | 2.54 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 7 | 2.54 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 14 | 2.54 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 1 | 2.54 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 1 | 2.54 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 5 | 2.54 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 5 | 2.54 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 7 | 2.54 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 7 | 2.54 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 5 | 2.54 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 4 | 2.54 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 9 | 2.54 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 9 | 2.54 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 9 | 2.54 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 9 | 2.54 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 14 | 2.54 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 14 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 14 | 2.54 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 7 | 2.54 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 8 | 2.54 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 2 | 2.54 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 2 | 2.54 |
| (1,2784) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 14 | 2.54 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 10 | 2.54 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 10 | 2.54 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 10 | 2.54 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 10 | 2.54 |
| (1,2714) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 19 | 2.54 |
| (1,2714) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 19 | 2.54 |
| (1,2712) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 19 | 2.54 |
| (1,2712) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 19 | 2.54 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 2 | 2.54 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 2 | 2.54 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 5 | 2.54 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 5 | 2.54 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 5 | 2.54 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 9 | 2.54 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 9 | 2.54 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 9 | 2.54 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 20 | 2.54 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 20 | 2.54 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 20 | 2.54 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 14 | 2.54 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 15 | 2.54 |
| (1,2576) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 20 | 2.54 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 18 | 2.54 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 7 | 2.54 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 3 | 2.54 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 7 | 2.54 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 18 | 2.54 |
| (1,2380) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 16 | 2.54 |
| (1,2380) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 16 | 2.54 |
| (1,2380) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 16 | 2.54 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 4 | 2.54 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 4 | 2.54 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 4 | 2.54 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 5 | 2.54 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 5 | 2.54 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 5 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 8 | 2.54 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 17 | 2.54 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 13 | 2.54 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 4 | 2.54 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 7 | 2.54 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 12 | 2.54 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 12 | 2.54 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 12 | 2.54 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 3 | 2.54 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 2 | 2.54 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 2 | 2.54 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 2 | 2.54 |
| (1,2094) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 1 | 2.54 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 2 | 2.54 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 18 | 2.54 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 12 | 2.54 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 12 | 2.54 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 12 | 2.54 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 7 | 2.54 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 7 | 2.54 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 7 | 2.54 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 15 | 2.54 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 15 | 2.54 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 15 | 2.54 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 19 | 2.54 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 19 | 2.54 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 19 | 2.54 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 15 | 2.54 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 3 | 2.54 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 3 | 2.54 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 3 | 2.54 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 3 | 2.54 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 3 | 2.54 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 3 | 2.54 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 3 | 2.54 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 3 | 2.54 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 3 | 2.54 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 14 | 2.54 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 20 | 2.54 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 20 | 2.54 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 10 | 2.54 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 14 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 3 | 2.54 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 3 | 2.54 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 6 | 2.54 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 6 | 2.54 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 14 | 2.54 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 14 | 2.54 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 1 | 2.54 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 1 | 2.54 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 1 | 2.54 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 5 | 2.54 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 5 | 2.54 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 5 | 2.54 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 9 | 2.54 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 16 | 2.54 |
| (1,1610) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 19 | 2.54 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 5 | 2.54 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 5 | 2.54 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 5 | 2.54 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 6 | 2.54 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 13 | 2.54 |
| (1,1426) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 9 | 2.54 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 11 | 2.54 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 15 | 2.54 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 3 | 2.54 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 3 | 2.54 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 3 | 2.54 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 1 | 2.54 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 1 | 2.54 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 7 | 2.54 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 7 | 2.54 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 1 | 2.54 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 10 | 2.54 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 9 | 2.54 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 9 | 2.54 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 9 | 2.54 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 6 | 2.54 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 11 | 2.54 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 11 | 2.54 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 11 | 2.54 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 12 | 2.54 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 5 | 2.54 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 14 | 2.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 12 | 2.54 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 20 | 2.54 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 20 | 2.54 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 20 | 2.54 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 3 | 2.54 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 2 | 2.54 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 15 | 2.54 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 10 | 2.54 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 14 | 2.54 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 19 | 2.54 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 6 | 2.54 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 14 | 2.54 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 14 | 2.54 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 14 | 2.54 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 20 | 2.54 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 16 | 2.54 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 16 | 2.54 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 16 | 2.54 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 11 | 2.54 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 11 | 2.54 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 2 | 2.54 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 2 | 2.54 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 3 | 2.54 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 3 | 2.54 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 4 | 2.54 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 4 | 2.54 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 19 | 2.54 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 19 | 2.54 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 19 | 2.54 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 8 | 2.54 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 2 | 2.54 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 2 | 2.54 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 2 | 2.54 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 19 | 2.53 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 16 | 2.53 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 20 | 2.53 |
| (4,1) | 1:15:A:MET:CB | 1:45:A:GLY:H | 14 | 2.53 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 9 | 2.53 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 10 | 2.53 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 10 | 2.53 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 10 | 2.53 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 10 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 1 | 2.53 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 1 | 2.53 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 18 | 2.53 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 18 | 2.53 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 6 | 2.53 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 6 | 2.53 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 12 | 2.53 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 12 | 2.53 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 9 | 2.53 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 9 | 2.53 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 9 | 2.53 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 9 | 2.53 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 8 | 2.53 |
| (1,9418) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 8 | 2.53 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 8 | 2.53 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 8 | 2.53 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 1 | 2.53 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 1 | 2.53 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 15 | 2.53 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 15 | 2.53 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 7 | 2.53 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 7 | 2.53 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 7 | 2.53 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 7 | 2.53 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 7 | 2.53 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 7 | 2.53 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 11 | 2.53 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 11 | 2.53 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 13 | 2.53 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 13 | 2.53 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 20 | 2.53 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 20 | 2.53 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 19 | 2.53 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 19 | 2.53 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 10 | 2.53 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 10 | 2.53 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 11 | 2.53 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 11 | 2.53 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 11 | 2.53 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 11 | 2.53 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 11 | 2.53 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 11 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 14 | 2.53 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 14 | 2.53 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 17 | 2.53 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 17 | 2.53 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 5 | 2.53 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 5 | 2.53 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 11 | 2.53 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 11 | 2.53 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 16 | 2.53 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 16 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 2 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 2 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 6 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 6 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 8 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 8 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 11 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 11 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 17 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 17 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 19 | 2.53 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 19 | 2.53 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 12 | 2.53 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 12 | 2.53 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 16 | 2.53 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 16 | 2.53 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 2 | 2.53 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 2 | 2.53 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 19 | 2.53 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 19 | 2.53 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 1 | 2.53 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 1 | 2.53 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 6 | 2.53 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 6 | 2.53 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 6 | 2.53 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 6 | 2.53 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 6 | 2.53 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 6 | 2.53 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 6 | 2.53 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 6 | 2.53 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 2.53 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 2.53 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 2.53 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 2.53 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 2.53 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 2 | 2.53 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 2 | 2.53 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 2 | 2.53 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 2 | 2.53 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 2 | 2.53 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 2 | 2.53 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 6 | 2.53 |
| (1,8690) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 6 | 2.53 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 11 | 2.53 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 11 | 2.53 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 8 | 2.53 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 8 | 2.53 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 19 | 2.53 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 19 | 2.53 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD2 | 18 | 2.53 |
| (1,8584) | 1:8:A:PRO:HB3 | 1:9:A:PRO:HD3 | 18 | 2.53 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 8 | 2.53 |
| (1,8274) | 1:122:A:LEU:HD21 | 1:123:A:GLY:H | 11 | 2.53 |
| (1,8274) | 1:122:A:LEU:HD22 | 1:123:A:GLY:H | 11 | 2.53 |
| (1,8274) | 1:122:A:LEU:HD23 | 1:123:A:GLY:H | 11 | 2.53 |
| (1,8274) | 1:122:A:LEU:HD11 | 1:123:A:GLY:H | 11 | 2.53 |
| (1,8274) | 1:122:A:LEU:HD12 | 1:123:A:GLY:H | 11 | 2.53 |
| (1,8274) | 1:122:A:LEU:HD13 | 1:123:A:GLY:H | 11 | 2.53 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 5 | 2.53 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 15 | 2.53 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 9 | 2.53 |
| (1,7444) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 2 | 2.53 |
| (1,7444) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 2 | 2.53 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 7 | 2.53 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 15 | 2.53 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 7 | 2.53 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 4 | 2.53 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 4 | 2.53 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 8 | 2.53 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 13 | 2.53 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 14 | 2.53 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 2 | 2.53 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 17 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 17 | 2.53 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 6 | 2.53 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 8 | 2.53 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 18 | 2.53 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 7 | 2.53 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 3 | 2.53 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 3 | 2.53 |
| (1,6655) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 3 | 2.53 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 3 | 2.53 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 3 | 2.53 |
| (1,6655) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 3 | 2.53 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 9 | 2.53 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 9 | 2.53 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 9 | 2.53 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 11 | 2.53 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 8 | 2.53 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 8 | 2.53 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 8 | 2.53 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 14 | 2.53 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 4 | 2.53 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 4 | 2.53 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 19 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 5 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 5 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 5 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 5 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 5 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 5 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 8 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 8 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 8 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 8 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 8 | 2.53 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 8 | 2.53 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 17 | 2.53 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 17 | 2.53 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 6 | 2.53 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 9 | 2.53 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 15 | 2.53 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 20 | 2.53 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 20 | 2.53 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 20 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 20 | 2.53 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 20 | 2.53 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 20 | 2.53 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 14 | 2.53 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 14 | 2.53 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 14 | 2.53 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 14 | 2.53 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 14 | 2.53 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 14 | 2.53 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 14 | 2.53 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 14 | 2.53 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 14 | 2.53 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 2 | 2.53 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 9 | 2.53 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 2 | 2.53 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 9 | 2.53 |
| (1,6068) | 1:135:A:GLU:H | 1:136:A:ASP:H | 4 | 2.53 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 10 | 2.53 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 10 | 2.53 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 7 | 2.53 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 17 | 2.53 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 12 | 2.53 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 12 | 2.53 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 12 | 2.53 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 4 | 2.53 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 4 | 2.53 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 3 | 2.53 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 15 | 2.53 |
| (1,5729) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 12 | 2.53 |
| (1,5729) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 12 | 2.53 |
| (1,5729) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 12 | 2.53 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 20 | 2.53 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 3 | 2.53 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 11 | 2.53 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 10 | 2.53 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 17 | 2.53 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 19 | 2.53 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 1 | 2.53 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 1 | 2.53 |
| (1,5441) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 1 | 2.53 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 4 | 2.53 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 4 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 7 | 2.53 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 7 | 2.53 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 12 | 2.53 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 11 | 2.53 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 7 | 2.53 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 7 | 2.53 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 11 | 2.53 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 11 | 2.53 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 11 | 2.53 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 15 | 2.53 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 15 | 2.53 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 15 | 2.53 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 19 | 2.53 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 12 | 2.53 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 1 | 2.53 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 1 | 2.53 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 1 | 2.53 |
| (1,5126) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 16 | 2.53 |
| (1,5126) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 16 | 2.53 |
| (1,5126) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 16 | 2.53 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 17 | 2.53 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 10 | 2.53 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 10 | 2.53 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 10 | 2.53 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 1 | 2.53 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 17 | 2.53 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 7 | 2.53 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 18 | 2.53 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 4 | 2.53 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 4 | 2.53 |
| (1,4764) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 4 | 2.53 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 6 | 2.53 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 14 | 2.53 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 17 | 2.53 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 20 | 2.53 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 17 | 2.53 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 17 | 2.53 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 17 | 2.53 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 17 | 2.53 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 17 | 2.53 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 17 | 2.53 |
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 16 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4575) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 16 | 2.53 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 2.53 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 11 | 2.53 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 11 | 2.53 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 11 | 2.53 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 11 | 2.53 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 11 | 2.53 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 11 | 2.53 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 18 | 2.53 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 18 | 2.53 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 6 | 2.53 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 6 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 4 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 4 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 5 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 5 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 9 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 9 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 12 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 12 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 16 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 16 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 18 | 2.53 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 18 | 2.53 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 4 | 2.53 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 4 | 2.53 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 12 | 2.53 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 12 | 2.53 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 14 | 2.53 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 14 | 2.53 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 14 | 2.53 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 14 | 2.53 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 8 | 2.53 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 8 | 2.53 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 20 | 2.53 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 20 | 2.53 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 8 | 2.53 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 8 | 2.53 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 15 | 2.53 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 15 | 2.53 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 16 | 2.53 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 16 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 17 | 2.53 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 17 | 2.53 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 1 | 2.53 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 1 | 2.53 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 1 | 2.53 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 1 | 2.53 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 4 | 2.53 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 4 | 2.53 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 5 | 2.53 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 5 | 2.53 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 13 | 2.53 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 13 | 2.53 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 5 | 2.53 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 8 | 2.53 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 8 | 2.53 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 14 | 2.53 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 14 | 2.53 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 14 | 2.53 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 14 | 2.53 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 14 | 2.53 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 14 | 2.53 |
| (1,4259) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 2 | 2.53 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 7 | 2.53 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 7 | 2.53 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 7 | 2.53 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 7 | 2.53 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 12 | 2.53 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 10 | 2.53 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 10 | 2.53 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 1 | 2.53 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 1 | 2.53 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 14 | 2.53 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 14 | 2.53 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 19 | 2.53 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 19 | 2.53 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 19 | 2.53 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 9 | 2.53 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 9 | 2.53 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 9 | 2.53 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 9 | 2.53 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 9 | 2.53 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 9 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 19 | 2.53 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 19 | 2.53 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 8 | 2.53 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 8 | 2.53 |
| (1,4163) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 15 | 2.53 |
| (1,4163) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 15 | 2.53 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 1 | 2.53 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 1 | 2.53 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 1 | 2.53 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 19 | 2.53 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 19 | 2.53 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 19 | 2.53 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 5 | 2.53 |
| (1,4135) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 5 | 2.53 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 16 | 2.53 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 16 | 2.53 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 16 | 2.53 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB2 | 20 | 2.53 |
| (1,4119) | 1:93:A:ILE:H | 1:94:A:GLN:HB3 | 20 | 2.53 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 11 | 2.53 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 11 | 2.53 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 11 | 2.53 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 11 | 2.53 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 11 | 2.53 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 11 | 2.53 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 8 | 2.53 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 8 | 2.53 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 8 | 2.53 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 8 | 2.53 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 8 | 2.53 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 8 | 2.53 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 1 | 2.53 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 1 | 2.53 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 1 | 2.53 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 1 | 2.53 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 1 | 2.53 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 1 | 2.53 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 5 | 2.53 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 5 | 2.53 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 15 | 2.53 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 15 | 2.53 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 15 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 15 | 2.53 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 15 | 2.53 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 15 | 2.53 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 2 | 2.53 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 2 | 2.53 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 9 | 2.53 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 15 | 2.53 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 15 | 2.53 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 15 | 2.53 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 15 | 2.53 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 18 | 2.53 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 18 | 2.53 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 18 | 2.53 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 2 | 2.53 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 2 | 2.53 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 2 | 2.53 |
| (1,3954) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 18 | 2.53 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 16 | 2.53 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 16 | 2.53 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 1 | 2.53 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 1 | 2.53 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 11 | 2.53 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 11 | 2.53 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 15 | 2.53 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 15 | 2.53 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 3 | 2.53 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 16 | 2.53 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 16 | 2.53 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 16 | 2.53 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 16 | 2.53 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 8 | 2.53 |
| (1,3870) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 8 | 2.53 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 8 | 2.53 |
| (1,3870) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 8 | 2.53 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 20 | 2.53 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 20 | 2.53 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 6 | 2.53 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 6 | 2.53 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 6 | 2.53 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 6 | 2.53 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 6 | 2.53 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 6 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 2.53 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 2.53 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 2.53 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 2.53 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 2.53 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 2.53 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 2.53 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 2.53 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 2.53 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 2.53 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 2.53 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 2.53 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 17 | 2.53 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 5 | 2.53 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 5 | 2.53 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 16 | 2.53 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 16 | 2.53 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 17 | 2.53 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 17 | 2.53 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 2 | 2.53 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 2 | 2.53 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 6 | 2.53 |
| (1,3654) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 6 | 2.53 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 6 | 2.53 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 6 | 2.53 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 11 | 2.53 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 11 | 2.53 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 18 | 2.53 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 18 | 2.53 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 10 | 2.53 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 10 | 2.53 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 1 | 2.53 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 1 | 2.53 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 7 | 2.53 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 7 | 2.53 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 17 | 2.53 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 17 | 2.53 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 19 | 2.53 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 19 | 2.53 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 19 | 2.53 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 19 | 2.53 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 8 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 8 | 2.53 |
| (1,3547) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 2.53 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 6 | 2.53 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 6 | 2.53 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 12 | 2.53 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 12 | 2.53 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 4 | 2.53 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 10 | 2.53 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 8 | 2.53 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 5 | 2.53 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 5 | 2.53 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 6 | 2.53 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 4 | 2.53 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 10 | 2.53 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 7 | 2.53 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 1 | 2.53 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 1 | 2.53 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 4 | 2.53 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 4 | 2.53 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 3 | 2.53 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 3 | 2.53 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 3 | 2.53 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 8 | 2.53 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 13 | 2.53 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 14 | 2.53 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 3 | 2.53 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 13 | 2.53 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 2 | 2.53 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 17 | 2.53 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 3 | 2.53 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 6 | 2.53 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 1 | 2.53 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 1 | 2.53 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 7 | 2.53 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 7 | 2.53 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 17 | 2.53 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 17 | 2.53 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 19 | 2.53 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 19 | 2.53 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 2 | 2.53 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 11 | 2.53 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 20 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 20 | 2.53 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 7 | 2.53 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 7 | 2.53 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 3 | 2.53 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 3 | 2.53 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 4 | 2.53 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 4 | 2.53 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 15 | 2.53 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 15 | 2.53 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 6 | 2.53 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 6 | 2.53 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 6 | 2.53 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 18 | 2.53 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 7 | 2.53 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 3 | 2.53 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 3 | 2.53 |
| (1,2538) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 3 | 2.53 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 3 | 2.53 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 3 | 2.53 |
| (1,2538) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 3 | 2.53 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 9 | 2.53 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 9 | 2.53 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 9 | 2.53 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 9 | 2.53 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 9 | 2.53 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 16 | 2.53 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 11 | 2.53 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 1 | 2.53 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 20 | 2.53 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 8 | 2.53 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 8 | 2.53 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 8 | 2.53 |
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 14 | 2.53 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 4 | 2.53 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 9 | 2.53 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 18 | 2.53 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 6 | 2.53 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 4 | 2.53 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 18 | 2.53 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 3 | 2.53 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 3 | 2.53 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 3 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 19 | 2.53 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 19 | 2.53 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 19 | 2.53 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 4 | 2.53 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 19 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 5 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 5 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 5 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 5 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 5 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 5 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 8 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 8 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 8 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 8 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 8 | 2.53 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 8 | 2.53 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 17 | 2.53 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 17 | 2.53 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 10 | 2.53 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 15 | 2.53 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 20 | 2.53 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 20 | 2.53 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 20 | 2.53 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 20 | 2.53 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 20 | 2.53 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 20 | 2.53 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 14 | 2.53 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 14 | 2.53 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 14 | 2.53 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 14 | 2.53 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 14 | 2.53 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 14 | 2.53 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 14 | 2.53 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 14 | 2.53 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 14 | 2.53 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 2 | 2.53 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 9 | 2.53 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 13 | 2.53 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 13 | 2.53 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 13 | 2.53 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 2 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 9 | 2.53 |
| (1,1632) | 1:135:A:GLU:H | 1:136:A:ASP:H | 4 | 2.53 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 3 | 2.53 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 3 | 2.53 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 3 | 2.53 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 6 | 2.53 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 6 | 2.53 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 6 | 2.53 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 18 | 2.53 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 7 | 2.53 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 16 | 2.53 |
| (1,1412) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 17 | 2.53 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 14 | 2.53 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 12 | 2.53 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 6 | 2.53 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 10 | 2.53 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 10 | 2.53 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 15 | 2.53 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 5 | 2.53 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 5 | 2.53 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 5 | 2.53 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 7 | 2.53 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 17 | 2.53 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 12 | 2.53 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 12 | 2.53 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 12 | 2.53 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 4 | 2.53 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 4 | 2.53 |
| (1,1074) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 6 | 2.53 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 3 | 2.53 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 11 | 2.53 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 3 | 2.53 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 15 | 2.53 |
| (1,1014) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 12 | 2.53 |
| (1,1014) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 12 | 2.53 |
| (1,1014) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 12 | 2.53 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 20 | 2.53 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 12 | 2.53 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 17 | 2.53 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 10 | 2.53 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 19 | 2.53 |
| (1,641) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 4 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 1 | 2.53 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 1 | 2.53 |
| (1,534) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 1 | 2.53 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 4 | 2.53 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 12 | 2.53 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 12 | 2.53 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 12 | 2.53 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 12 | 2.53 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 12 | 2.53 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 12 | 2.53 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 4 | 2.53 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 4 | 2.53 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 4 | 2.53 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 4 | 2.53 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 4 | 2.53 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 4 | 2.53 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 18 | 2.53 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 20 | 2.53 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 18 | 2.53 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 18 | 2.53 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 18 | 2.53 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 4 | 2.53 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 13 | 2.53 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 13 | 2.53 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 13 | 2.53 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 17 | 2.53 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 17 | 2.53 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 17 | 2.53 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 15 | 2.53 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 15 | 2.53 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 15 | 2.53 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 18 | 2.53 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 18 | 2.53 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 18 | 2.53 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 11 | 2.52 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 5 | 2.52 |
| (4,220) | 1:131:A:GLN:CB | 1:49:A:GLN:H | 1 | 2.52 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 9 | 2.52 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 13 | 2.52 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 8 | 2.52 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 3 | 2.52 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 15 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 4 | 2.52 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 4 | 2.52 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 4 | 2.52 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 4 | 2.52 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 4 | 2.52 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 4 | 2.52 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 4 | 2.52 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 4 | 2.52 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 4 | 2.52 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 16 | 2.52 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 16 | 2.52 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 12 | 2.52 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 12 | 2.52 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 11 | 2.52 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 11 | 2.52 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 11 | 2.52 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 11 | 2.52 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD1 | 7 | 2.52 |
| (1,9514) | 1:138:A:SER:HB2 | 1:139:A:PHE:HD2 | 7 | 2.52 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD1 | 7 | 2.52 |
| (1,9514) | 1:138:A:SER:HB3 | 1:139:A:PHE:HD2 | 7 | 2.52 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 7 | 2.52 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 7 | 2.52 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 12 | 2.52 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 12 | 2.52 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 12 | 2.52 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 12 | 2.52 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 5 | 2.52 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 5 | 2.52 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 5 | 2.52 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 5 | 2.52 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 5 | 2.52 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 5 | 2.52 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 20 | 2.52 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 20 | 2.52 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 20 | 2.52 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 20 | 2.52 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 14 | 2.52 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 14 | 2.52 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 14 | 2.52 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 14 | 2.52 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 19 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 19 | 2.52 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 18 | 2.52 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 18 | 2.52 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 7 | 2.52 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 7 | 2.52 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 9 | 2.52 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 9 | 2.52 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 3 | 2.52 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 3 | 2.52 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 6 | 2.52 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 6 | 2.52 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 1 | 2.52 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 1 | 2.52 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 7 | 2.52 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 7 | 2.52 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 7 | 2.52 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 7 | 2.52 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 7 | 2.52 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 7 | 2.52 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 6 | 2.52 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 6 | 2.52 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 16 | 2.52 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 16 | 2.52 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 9 | 2.52 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 9 | 2.52 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 6 | 2.52 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 6 | 2.52 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 7 | 2.52 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 7 | 2.52 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 8 | 2.52 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 8 | 2.52 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 13 | 2.52 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 13 | 2.52 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 4 | 2.52 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 4 | 2.52 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 15 | 2.52 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 15 | 2.52 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 6 | 2.52 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 6 | 2.52 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 10 | 2.52 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 10 | 2.52 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 8 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 8 | 2.52 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 2.52 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 2.52 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 2.52 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 2.52 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 2.52 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 2.52 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 9 | 2.52 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 9 | 2.52 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 13 | 2.52 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 13 | 2.52 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 13 | 2.52 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 13 | 2.52 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 16 | 2.52 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 16 | 2.52 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 16 | 2.52 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 16 | 2.52 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 15 | 2.52 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 15 | 2.52 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 2 | 2.52 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 2 | 2.52 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 2 | 2.52 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 12 | 2.52 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 12 | 2.52 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 12 | 2.52 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 12 | 2.52 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 12 | 2.52 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 12 | 2.52 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 5 | 2.52 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 13 | 2.52 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 1 | 2.52 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 1 | 2.52 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 1 | 2.52 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 13 | 2.52 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 13 | 2.52 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 13 | 2.52 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 13 | 2.52 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 10 | 2.52 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 13 | 2.52 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 13 | 2.52 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 13 | 2.52 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 11 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7884) | 1:65:A:SER:H | 1:81:A:THR:H | 11 | 2.52 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 19 | 2.52 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 19 | 2.52 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 19 | 2.52 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 13 | 2.52 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 11 | 2.52 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 11 | 2.52 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 11 | 2.52 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 15 | 2.52 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 12 | 2.52 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 14 | 2.52 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 17 | 2.52 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 17 | 2.52 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 6 | 2.52 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 11 | 2.52 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 13 | 2.52 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 13 | 2.52 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 6 | 2.52 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 1 | 2.52 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 20 | 2.52 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 16 | 2.52 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 16 | 2.52 |
| (1,6942) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 12 | 2.52 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 18 | 2.52 |
| (1,6916) | 1:30:A:ASN:H | 1:31:A:ALA:H | 6 | 2.52 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 16 | 2.52 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 4 | 2.52 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 12 | 2.52 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 2 | 2.52 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 8 | 2.52 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 9 | 2.52 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 13 | 2.52 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 3 | 2.52 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 19 | 2.52 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 13 | 2.52 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 13 | 2.52 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 12 | 2.52 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 7 | 2.52 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 7 | 2.52 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 7 | 2.52 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 1 | 2.52 |
| (1,6569) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 4 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 5 | 2.52 |
| (1,6533) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 4 | 2.52 |
| (1,6533) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 4 | 2.52 |
| (1,6533) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 4 | 2.52 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 12 | 2.52 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 1 | 2.52 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 1 | 2.52 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 1 | 2.52 |
| (1,6495) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 2 | 2.52 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 15 | 2.52 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 15 | 2.52 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 15 | 2.52 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 4 | 2.52 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 8 | 2.52 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 8 | 2.52 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 8 | 2.52 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 16 | 2.52 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 16 | 2.52 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 16 | 2.52 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 11 | 2.52 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 11 | 2.52 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 11 | 2.52 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 3 | 2.52 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 3 | 2.52 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 3 | 2.52 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 3 | 2.52 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 3 | 2.52 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 3 | 2.52 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 3 | 2.52 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 3 | 2.52 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 3 | 2.52 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 11 | 2.52 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 10 | 2.52 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 17 | 2.52 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 4 | 2.52 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 18 | 2.52 |
| (1,6185) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 18 | 2.52 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 16 | 2.52 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 16 | 2.52 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 16 | 2.52 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 18 | 2.52 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 1 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 1 | 2.52 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 19 | 2.52 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 19 | 2.52 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 19 | 2.52 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 4 | 2.52 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 12 | 2.52 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 12 | 2.52 |
| (1,5972) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 3 | 2.52 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 2 | 2.52 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 20 | 2.52 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 20 | 2.52 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 7 | 2.52 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 7 | 2.52 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 19 | 2.52 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 19 | 2.52 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 13 | 2.52 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 13 | 2.52 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 13 | 2.52 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 9 | 2.52 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 17 | 2.52 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 13 | 2.52 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 13 | 2.52 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 13 | 2.52 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 1 | 2.52 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 15 | 2.52 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 5 | 2.52 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 1 | 2.52 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 10 | 2.52 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 14 | 2.52 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 18 | 2.52 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 7 | 2.52 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 7 | 2.52 |
| (1,5456) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 7 | 2.52 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 13 | 2.52 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 1 | 2.52 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 1 | 2.52 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 1 | 2.52 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 1 | 2.52 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 1 | 2.52 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 1 | 2.52 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 1 | 2.52 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 1 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 1 | 2.52 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 11 | 2.52 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 9 | 2.52 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 13 | 2.52 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 19 | 2.52 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 19 | 2.52 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 16 | 2.52 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 16 | 2.52 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 16 | 2.52 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 17 | 2.52 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 18 | 2.52 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 18 | 2.52 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 8 | 2.52 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 8 | 2.52 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 8 | 2.52 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 15 | 2.52 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 20 | 2.52 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 9 | 2.52 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 2 | 2.52 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 1 | 2.52 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 10 | 2.52 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 12 | 2.52 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 12 | 2.52 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 12 | 2.52 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 15 | 2.52 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 15 | 2.52 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 15 | 2.52 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 5 | 2.52 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 5 | 2.52 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 5 | 2.52 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 10 | 2.52 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 1 | 2.52 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 3 | 2.52 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 3 | 2.52 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 3 | 2.52 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 3 | 2.52 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 3 | 2.52 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 3 | 2.52 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 20 | 2.52 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 10 | 2.52 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 10 | 2.52 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 19 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 4 | 2.52 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 4 | 2.52 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 4 | 2.52 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 4 | 2.52 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 4 | 2.52 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 4 | 2.52 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 16 | 2.52 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 16 | 2.52 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 2 | 2.52 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 2 | 2.52 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 13 | 2.52 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 13 | 2.52 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 1 | 2.52 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 1 | 2.52 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 1 | 2.52 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 1 | 2.52 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 6 | 2.52 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 5 | 2.52 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 5 | 2.52 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 5 | 2.52 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 5 | 2.52 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 5 | 2.52 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 5 | 2.52 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 7 | 2.52 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 7 | 2.52 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 8 | 2.52 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 8 | 2.52 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 18 | 2.52 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 18 | 2.52 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 13 | 2.52 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 13 | 2.52 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 13 | 2.52 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 13 | 2.52 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 1 | 2.52 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 1 | 2.52 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 1 | 2.52 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 1 | 2.52 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 2 | 2.52 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 11 | 2.52 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 1 | 2.52 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 1 | 2.52 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 4 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 4 | 2.52 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 4 | 2.52 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 4 | 2.52 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 9 | 2.52 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 9 | 2.52 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 18 | 2.52 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 18 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 3 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 3 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 4 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 4 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 7 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 7 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 19 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 19 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 20 | 2.52 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 20 | 2.52 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 10 | 2.52 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 10 | 2.52 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 20 | 2.52 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 20 | 2.52 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 6 | 2.52 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 6 | 2.52 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 12 | 2.52 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 12 | 2.52 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 9 | 2.52 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 15 | 2.52 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 15 | 2.52 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 15 | 2.52 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 15 | 2.52 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 3 | 2.52 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 3 | 2.52 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 6 | 2.52 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 6 | 2.52 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 18 | 2.52 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 16 | 2.52 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 16 | 2.52 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 17 | 2.52 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 17 | 2.52 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 17 | 2.52 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 7 | 2.52 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 7 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 7 | 2.52 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 7 | 2.52 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 7 | 2.52 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 7 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 8 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 8 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 8 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 8 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 8 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 8 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 15 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 15 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 15 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 15 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 15 | 2.52 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 15 | 2.52 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 16 | 2.52 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 16 | 2.52 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 2 | 2.52 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 2 | 2.52 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 20 | 2.52 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 20 | 2.52 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 7 | 2.52 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 7 | 2.52 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 12 | 2.52 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 12 | 2.52 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 12 | 2.52 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 12 | 2.52 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 12 | 2.52 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 12 | 2.52 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 7 | 2.52 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 10 | 2.52 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 10 | 2.52 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 10 | 2.52 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 18 | 2.52 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 18 | 2.52 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 7 | 2.52 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 7 | 2.52 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 8 | 2.52 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 8 | 2.52 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 9 | 2.52 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 9 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 8 | 2.52 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 8 | 2.52 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 19 | 2.52 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 2.52 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 2.52 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 2.52 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 2.52 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 2.52 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 2.52 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 10 | 2.52 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 10 | 2.52 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 1 | 2.52 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 1 | 2.52 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 1 | 2.52 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 1 | 2.52 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 10 | 2.52 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 10 | 2.52 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 13 | 2.52 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 13 | 2.52 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 16 | 2.52 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 16 | 2.52 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 1 | 2.52 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 1 | 2.52 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 1 | 2.52 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 1 | 2.52 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 1 | 2.52 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 1 | 2.52 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 4 | 2.52 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 4 | 2.52 |
| (1,3562) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 4 | 2.52 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 4 | 2.52 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 4 | 2.52 |
| (1,3562) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 4 | 2.52 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 7 | 2.52 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 5 | 2.52 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 5 | 2.52 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 5 | 2.52 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 14 | 2.52 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 10 | 2.52 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 10 | 2.52 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 17 | 2.52 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 17 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 2 | 2.52 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 2 | 2.52 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 2 | 2.52 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 2 | 2.52 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 2 | 2.52 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 2 | 2.52 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 2 | 2.52 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 2 | 2.52 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 2 | 2.52 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 18 | 2.52 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 18 | 2.52 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 3 | 2.52 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 18 | 2.52 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 18 | 2.52 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 6 | 2.52 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 11 | 2.52 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 13 | 2.52 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 2 | 2.52 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 14 | 2.52 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 19 | 2.52 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 13 | 2.52 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 13 | 2.52 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 16 | 2.52 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 16 | 2.52 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 16 | 2.52 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 3 | 2.52 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 15 | 2.52 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 1 | 2.52 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 20 | 2.52 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 16 | 2.52 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 16 | 2.52 |
| (1,2962) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 12 | 2.52 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 18 | 2.52 |
| (1,2918) | 1:30:A:ASN:H | 1:31:A:ALA:H | 6 | 2.52 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 16 | 2.52 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 4 | 2.52 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 9 | 2.52 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 9 | 2.52 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 13 | 2.52 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 13 | 2.52 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 13 | 2.52 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 13 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 12 | 2.52 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 2 | 2.52 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 8 | 2.52 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 9 | 2.52 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 10 | 2.52 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 10 | 2.52 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 13 | 2.52 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 13 | 2.52 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 16 | 2.52 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 16 | 2.52 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 13 | 2.52 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 3 | 2.52 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 20 | 2.52 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 10 | 2.52 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 10 | 2.52 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 19 | 2.52 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 19 | 2.52 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 2 | 2.52 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 2 | 2.52 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 14 | 2.52 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 14 | 2.52 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 13 | 2.52 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 13 | 2.52 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 16 | 2.52 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 16 | 2.52 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 7 | 2.52 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 7 | 2.52 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 7 | 2.52 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 1 | 2.52 |
| (1,2436) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 14 | 2.52 |
| (1,2428) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 4 | 2.52 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 5 | 2.52 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 1 | 2.52 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 1 | 2.52 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 1 | 2.52 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 5 | 2.52 |
| (1,2378) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 4 | 2.52 |
| (1,2378) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 4 | 2.52 |
| (1,2378) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 4 | 2.52 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 1 | 2.52 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 1 | 2.52 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 1 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2314) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 2 | 2.52 |
| (1,2304) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 2 | 2.52 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 11 | 2.52 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 15 | 2.52 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 15 | 2.52 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 15 | 2.52 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 3 | 2.52 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 3 | 2.52 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 3 | 2.52 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 17 | 2.52 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 17 | 2.52 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 17 | 2.52 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 16 | 2.52 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 4 | 2.52 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 8 | 2.52 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 8 | 2.52 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 8 | 2.52 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 12 | 2.52 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 15 | 2.52 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 11 | 2.52 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 11 | 2.52 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 11 | 2.52 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 16 | 2.52 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 16 | 2.52 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 16 | 2.52 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 11 | 2.52 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 11 | 2.52 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 11 | 2.52 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 3 | 2.52 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 3 | 2.52 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 3 | 2.52 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 3 | 2.52 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 3 | 2.52 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 3 | 2.52 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 3 | 2.52 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 3 | 2.52 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 3 | 2.52 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 19 | 2.52 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 19 | 2.52 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 19 | 2.52 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 16 | 2.52 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 10 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 17 | 2.52 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 8 | 2.52 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 4 | 2.52 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 18 | 2.52 |
| (1,1792) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 18 | 2.52 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 16 | 2.52 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 16 | 2.52 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 16 | 2.52 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 16 | 2.52 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 18 | 2.52 |
| (1,1697) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 8 | 2.52 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 10 | 2.52 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 10 | 2.52 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 10 | 2.52 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 1 | 2.52 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 1 | 2.52 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 1 | 2.52 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 1 | 2.52 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 1 | 2.52 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 1 | 2.52 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 13 | 2.52 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 9 | 2.52 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 9 | 2.52 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 1 | 2.52 |
| (1,1436) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 3 | 2.52 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 2 | 2.52 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 9 | 2.52 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 9 | 2.52 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 10 | 2.52 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 10 | 2.52 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 10 | 2.52 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 10 | 2.52 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 3 | 2.52 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 3 | 2.52 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 3 | 2.52 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 20 | 2.52 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 20 | 2.52 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 7 | 2.52 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 7 | 2.52 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 19 | 2.52 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 19 | 2.52 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 15 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 15 | 2.52 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 15 | 2.52 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 15 | 2.52 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 15 | 2.52 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 15 | 2.52 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 1 | 2.52 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 6 | 2.52 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 10 | 2.52 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 8 | 2.52 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 6 | 2.52 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 6 | 2.52 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 6 | 2.52 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 13 | 2.52 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 13 | 2.52 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 13 | 2.52 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 7 | 2.52 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 15 | 2.52 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 15 | 2.52 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 6 | 2.52 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 6 | 2.52 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 17 | 2.52 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 17 | 2.52 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 13 | 2.52 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 13 | 2.52 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 13 | 2.52 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 9 | 2.52 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 17 | 2.52 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 9 | 2.52 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 18 | 2.52 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 15 | 2.52 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 11 | 2.52 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 17 | 2.52 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 13 | 2.52 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 13 | 2.52 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 13 | 2.52 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 1 | 2.52 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 15 | 2.52 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 5 | 2.52 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 1 | 2.52 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 10 | 2.52 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 14 | 2.52 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 1 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 5 | 2.52 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 5 | 2.52 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 1 | 2.52 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 1 | 2.52 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 7 | 2.52 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 7 | 2.52 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 10 | 2.52 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 10 | 2.52 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 13 | 2.52 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 13 | 2.52 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 18 | 2.52 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 9 | 2.52 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 9 | 2.52 |
| (1,645) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 11 | 2.52 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 15 | 2.52 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 1 | 2.52 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 7 | 2.52 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 7 | 2.52 |
| (1,554) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 7 | 2.52 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 13 | 2.52 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 17 | 2.52 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 17 | 2.52 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 17 | 2.52 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 17 | 2.52 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 17 | 2.52 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 17 | 2.52 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 3 | 2.52 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 3 | 2.52 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 3 | 2.52 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 8 | 2.52 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 14 | 2.52 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 2 | 2.52 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 2 | 2.52 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 2 | 2.52 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 3 | 2.52 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 13 | 2.52 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 13 | 2.52 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 13 | 2.52 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 17 | 2.52 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 5 | 2.52 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 5 | 2.52 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 5 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 18 | 2.52 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 18 | 2.52 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 18 | 2.52 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 4 | 2.51 |
| (1,9596) | 1:156:A:ILE:HG12 | 1:157:A:HIS:H | 6 | 2.51 |
| (1,9596) | 1:156:A:ILE:HG13 | 1:157:A:HIS:H | 6 | 2.51 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 3 | 2.51 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 3 | 2.51 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 3 | 2.51 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 3 | 2.51 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 3 | 2.51 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 3 | 2.51 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 20 | 2.51 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 20 | 2.51 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 20 | 2.51 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 20 | 2.51 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 20 | 2.51 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 20 | 2.51 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG2 | 10 | 2.51 |
| (1,9441) | 1:129:A:GLN:HB2 | 1:130:A:MET:HG3 | 10 | 2.51 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG2 | 10 | 2.51 |
| (1,9441) | 1:129:A:GLN:HB3 | 1:130:A:MET:HG3 | 10 | 2.51 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 9 | 2.51 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 9 | 2.51 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 9 | 2.51 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 9 | 2.51 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 2 | 2.51 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 2 | 2.51 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 2 | 2.51 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 2 | 2.51 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 2 | 2.51 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 2 | 2.51 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 8 | 2.51 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 8 | 2.51 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 8 | 2.51 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 8 | 2.51 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 8 | 2.51 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 8 | 2.51 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 10 | 2.51 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 10 | 2.51 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 14 | 2.51 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 14 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 3 | 2.51 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 3 | 2.51 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 6 | 2.51 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 6 | 2.51 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 10 | 2.51 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 10 | 2.51 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 15 | 2.51 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 15 | 2.51 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 2.51 |
| (1,9147) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 2.51 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 2.51 |
| (1,9147) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 20 | 2.51 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 8 | 2.51 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 8 | 2.51 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 19 | 2.51 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 19 | 2.51 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 19 | 2.51 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 19 | 2.51 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 19 | 2.51 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 19 | 2.51 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 9 | 2.51 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 9 | 2.51 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 2 | 2.51 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 2 | 2.51 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 2 | 2.51 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 2 | 2.51 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 2 | 2.51 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 2 | 2.51 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 5 | 2.51 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 5 | 2.51 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 13 | 2.51 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 13 | 2.51 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 19 | 2.51 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 19 | 2.51 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 10 | 2.51 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 10 | 2.51 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 3 | 2.51 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 3 | 2.51 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 11 | 2.51 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 11 | 2.51 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 8 | 2.51 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 8 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 8 | 2.51 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 8 | 2.51 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 8 | 2.51 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 8 | 2.51 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 17 | 2.51 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 14 | 2.51 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 14 | 2.51 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 5 | 2.51 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 10 | 2.51 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 6 | 2.51 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 20 | 2.51 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 9 | 2.51 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 9 | 2.51 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 6 | 2.51 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 9 | 2.51 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 5 | 2.51 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 10 | 2.51 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 20 | 2.51 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 7 | 2.51 |
| (1,7118) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 11 | 2.51 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 8 | 2.51 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 11 | 2.51 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 3 | 2.51 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 3 | 2.51 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 12 | 2.51 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 20 | 2.51 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 20 | 2.51 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 15 | 2.51 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 7 | 2.51 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 12 | 2.51 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 1 | 2.51 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 15 | 2.51 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 15 | 2.51 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 9 | 2.51 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 9 | 2.51 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 15 | 2.51 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 15 | 2.51 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 6 | 2.51 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 6 | 2.51 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 6 | 2.51 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 3 | 2.51 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 3 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 3 | 2.51 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 5 | 2.51 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 5 | 2.51 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 5 | 2.51 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 3 | 2.51 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 9 | 2.51 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 9 | 2.51 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 9 | 2.51 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 16 | 2.51 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 3 | 2.51 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 3 | 2.51 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 6 | 2.51 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 6 | 2.51 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 9 | 2.51 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 9 | 2.51 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 9 | 2.51 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 10 | 2.51 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 10 | 2.51 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 14 | 2.51 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 3 | 2.51 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 5 | 2.51 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 5 | 2.51 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 5 | 2.51 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 17 | 2.51 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 17 | 2.51 |
| (1,6150) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 17 | 2.51 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 17 | 2.51 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 17 | 2.51 |
| (1,6150) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 17 | 2.51 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 17 | 2.51 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 17 | 2.51 |
| (1,6150) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 17 | 2.51 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 11 | 2.51 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 11 | 2.51 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 15 | 2.51 |
| (1,5930) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 9 | 2.51 |
| (1,5930) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 9 | 2.51 |
| (1,5930) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 9 | 2.51 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 9 | 2.51 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 9 | 2.51 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 18 | 2.51 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 18 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 3 | 2.51 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 9 | 2.51 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 6 | 2.51 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 6 | 2.51 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 5 | 2.51 |
| (1,5679) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 20 | 2.51 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 9 | 2.51 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 2 | 2.51 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 11 | 2.51 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 11 | 2.51 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 11 | 2.51 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 1 | 2.51 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 1 | 2.51 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 1 | 2.51 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 16 | 2.51 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 13 | 2.51 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 13 | 2.51 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 13 | 2.51 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 15 | 2.51 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 2 | 2.51 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 5 | 2.51 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 7 | 2.51 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 14 | 2.51 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 11 | 2.51 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 15 | 2.51 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 10 | 2.51 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 10 | 2.51 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 10 | 2.51 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 10 | 2.51 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 10 | 2.51 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 10 | 2.51 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 10 | 2.51 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 10 | 2.51 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 10 | 2.51 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 20 | 2.51 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 20 | 2.51 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 20 | 2.51 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 8 | 2.51 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 8 | 2.51 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 8 | 2.51 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 14 | 2.51 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 14 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 14 | 2.51 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 1 | 2.51 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 1 | 2.51 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 1 | 2.51 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 11 | 2.51 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 3 | 2.51 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 3 | 2.51 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 3 | 2.51 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 17 | 2.51 |
| (1,5185) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 18 | 2.51 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 15 | 2.51 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 18 | 2.51 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 10 | 2.51 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 15 | 2.51 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 1 | 2.51 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 1 | 2.51 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 1 | 2.51 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 5 | 2.51 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 5 | 2.51 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 5 | 2.51 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 13 | 2.51 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 17 | 2.51 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 17 | 2.51 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 17 | 2.51 |
| (1,4794) | 1:60:A:LEU:H | 1:158:A:ILE:H | 18 | 2.51 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 7 | 2.51 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 16 | 2.51 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 6 | 2.51 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 10 | 2.51 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 10 | 2.51 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 12 | 2.51 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 12 | 2.51 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 9 | 2.51 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 11 | 2.51 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 11 | 2.51 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 11 | 2.51 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 14 | 2.51 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 3 | 2.51 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 3 | 2.51 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 3 | 2.51 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 3 | 2.51 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 3 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 3 | 2.51 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 5 | 2.51 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 15 | 2.51 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 2 | 2.51 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 2 | 2.51 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 8 | 2.51 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 8 | 2.51 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 15 | 2.51 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 15 | 2.51 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 5 | 2.51 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 5 | 2.51 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 15 | 2.51 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 15 | 2.51 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 5 | 2.51 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 16 | 2.51 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 16 | 2.51 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 2 | 2.51 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 2 | 2.51 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 10 | 2.51 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 10 | 2.51 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 19 | 2.51 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 19 | 2.51 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 2 | 2.51 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 2 | 2.51 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 2 | 2.51 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 2 | 2.51 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 2 | 2.51 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 2 | 2.51 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 18 | 2.51 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 18 | 2.51 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 5 | 2.51 |
| (1,4256) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 5 | 2.51 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 3 | 2.51 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 3 | 2.51 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 11 | 2.51 |
| (1,4235) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 11 | 2.51 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 20 | 2.51 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 20 | 2.51 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 6 | 2.51 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 6 | 2.51 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 6 | 2.51 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 6 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 6 | 2.51 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 6 | 2.51 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 19 | 2.51 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 5 | 2.51 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 5 | 2.51 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 8 | 2.51 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 8 | 2.51 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 8 | 2.51 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 8 | 2.51 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 8 | 2.51 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 8 | 2.51 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 2.51 |
| (1,4112) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 2.51 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 2.51 |
| (1,4112) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 20 | 2.51 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 15 | 2.51 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 15 | 2.51 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 15 | 2.51 |
| (1,4101) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 4 | 2.51 |
| (1,4101) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 4 | 2.51 |
| (1,4101) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 4 | 2.51 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 5 | 2.51 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 5 | 2.51 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 5 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 7 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 7 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 7 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 7 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 7 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 7 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 20 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 20 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 20 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 20 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 20 | 2.51 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 20 | 2.51 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 8 | 2.51 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 8 | 2.51 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 19 | 2.51 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 19 | 2.51 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 19 | 2.51 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 19 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 19 | 2.51 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 19 | 2.51 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 14 | 2.51 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 14 | 2.51 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 19 | 2.51 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 19 | 2.51 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 2 | 2.51 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 2 | 2.51 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 19 | 2.51 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 19 | 2.51 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 5 | 2.51 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 5 | 2.51 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 1 | 2.51 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 1 | 2.51 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 10 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 5 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 5 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 5 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 5 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 5 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 5 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 13 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 13 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 13 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 13 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 13 | 2.51 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 13 | 2.51 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 10 | 2.51 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 10 | 2.51 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 7 | 2.51 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 7 | 2.51 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 4 | 2.51 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 4 | 2.51 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 4 | 2.51 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 4 | 2.51 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 8 | 2.51 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 8 | 2.51 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 9 | 2.51 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 3 | 2.51 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 3 | 2.51 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 18 | 2.51 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 18 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 2.51 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 2.51 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 20 | 2.51 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 5 | 2.51 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 2 | 2.51 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 12 | 2.51 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 15 | 2.51 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 15 | 2.51 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 15 | 2.51 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 3 | 2.51 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 20 | 2.51 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 7 | 2.51 |
| (1,3208) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 11 | 2.51 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 8 | 2.51 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 8 | 2.51 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 8 | 2.51 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 8 | 2.51 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 7 | 2.51 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 2.51 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 2.51 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 15 | 2.51 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 13 | 2.51 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 8 | 2.51 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 8 | 2.51 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 3 | 2.51 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 3 | 2.51 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 13 | 2.51 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 13 | 2.51 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 20 | 2.51 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 20 | 2.51 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 15 | 2.51 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 2 | 2.51 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 5 | 2.51 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 7 | 2.51 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 2 | 2.51 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 2 | 2.51 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 12 | 2.51 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 11 | 2.51 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 11 | 2.51 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 11 | 2.51 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 11 | 2.51 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 11 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 11 | 2.51 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 7 | 2.51 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 7 | 2.51 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 7 | 2.51 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 7 | 2.51 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 7 | 2.51 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 7 | 2.51 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 18 | 2.51 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 18 | 2.51 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 1 | 2.51 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 1 | 2.51 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 1 | 2.51 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 5 | 2.51 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 5 | 2.51 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 7 | 2.51 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 7 | 2.51 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 17 | 2.51 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 17 | 2.51 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 17 | 2.51 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 5 | 2.51 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 16 | 2.51 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 19 | 2.51 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 19 | 2.51 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 15 | 2.51 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 15 | 2.51 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 9 | 2.51 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 9 | 2.51 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 15 | 2.51 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 15 | 2.51 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 17 | 2.51 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 14 | 2.51 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 20 | 2.51 |
| (1,2358) | 1:7:A:LEU:HA | 1:8:A:PRO:HD2 | 12 | 2.51 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 8 | 2.51 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 10 | 2.51 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 6 | 2.51 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 6 | 2.51 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 6 | 2.51 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 3 | 2.51 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 3 | 2.51 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 3 | 2.51 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 10 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 10 | 2.51 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 10 | 2.51 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 14 | 2.51 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 14 | 2.51 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 14 | 2.51 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 5 | 2.51 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 5 | 2.51 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 5 | 2.51 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 3 | 2.51 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 9 | 2.51 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 9 | 2.51 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 9 | 2.51 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 9 | 2.51 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 9 | 2.51 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 9 | 2.51 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 16 | 2.51 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 2 | 2.51 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 2 | 2.51 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 2 | 2.51 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 2 | 2.51 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 2 | 2.51 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 2 | 2.51 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 2 | 2.51 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 2 | 2.51 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 2 | 2.51 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 2 | 2.51 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 4 | 2.51 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 6 | 2.51 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 19 | 2.51 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 8 | 2.51 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 1 | 2.51 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 1 | 2.51 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 10 | 2.51 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 10 | 2.51 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 14 | 2.51 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 6 | 2.51 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 16 | 2.51 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 3 | 2.51 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 3 | 2.51 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 5 | 2.51 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 5 | 2.51 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 17 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 17 | 2.51 |
| (1,1746) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 17 | 2.51 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 17 | 2.51 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 17 | 2.51 |
| (1,1746) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 17 | 2.51 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 17 | 2.51 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 17 | 2.51 |
| (1,1746) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 17 | 2.51 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 16 | 2.51 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 16 | 2.51 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 16 | 2.51 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 18 | 2.51 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 11 | 2.51 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 11 | 2.51 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 15 | 2.51 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 10 | 2.51 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 13 | 2.51 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 13 | 2.51 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 17 | 2.51 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 17 | 2.51 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 10 | 2.51 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 6 | 2.51 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 6 | 2.51 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 19 | 2.51 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 19 | 2.51 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 19 | 2.51 |
| (1,1356) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 9 | 2.51 |
| (1,1356) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 9 | 2.51 |
| (1,1356) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 9 | 2.51 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 7 | 2.51 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 7 | 2.51 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 9 | 2.51 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 9 | 2.51 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 18 | 2.51 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 18 | 2.51 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 3 | 2.51 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 15 | 2.51 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 19 | 2.51 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 9 | 2.51 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 17 | 2.51 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 4 | 2.51 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 4 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 9 | 2.51 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 9 | 2.51 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 3 | 2.51 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 3 | 2.51 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 14 | 2.51 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 14 | 2.51 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 14 | 2.51 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 1 | 2.51 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 1 | 2.51 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 7 | 2.51 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 14 | 2.51 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 6 | 2.51 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 9 | 2.51 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 9 | 2.51 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 9 | 2.51 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 11 | 2.51 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 11 | 2.51 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 11 | 2.51 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 15 | 2.51 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 15 | 2.51 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 15 | 2.51 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 6 | 2.51 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 2 | 2.51 |
| (1,944) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 20 | 2.51 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 2 | 2.51 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 2 | 2.51 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 2 | 2.51 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 13 | 2.51 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 11 | 2.51 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 11 | 2.51 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 11 | 2.51 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 6 | 2.51 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 1 | 2.51 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 1 | 2.51 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 1 | 2.51 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 16 | 2.51 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 13 | 2.51 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 13 | 2.51 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 13 | 2.51 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 15 | 2.51 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 13 | 2.51 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 13 | 2.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 13 | 2.51 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 5 | 2.51 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 5 | 2.51 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 14 | 2.51 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 2 | 2.51 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 2 | 2.51 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 2 | 2.51 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 15 | 2.51 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 15 | 2.51 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 15 | 2.51 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 10 | 2.51 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 5 | 2.51 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 5 | 2.51 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 5 | 2.51 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 1 | 2.51 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 1 | 2.51 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 1 | 2.51 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 9 | 2.51 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 9 | 2.51 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 9 | 2.51 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 6 | 2.51 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 6 | 2.51 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 6 | 2.51 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 5 | 2.5 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 2 | 2.5 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 16 | 2.5 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 10 | 2.5 |
| (3,438) | 1:66:A:GLN:H | 1:82:A:LYS:H | 16 | 2.5 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 2 | 2.5 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 2 | 2.5 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 10 | 2.5 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 10 | 2.5 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 18 | 2.5 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 18 | 2.5 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 4 | 2.5 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 4 | 2.5 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 9 | 2.5 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 9 | 2.5 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 14 | 2.5 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 14 | 2.5 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 8 | 2.5 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 8 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 14 | 2.5 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 14 | 2.5 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 17 | 2.5 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 17 | 2.5 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 17 | 2.5 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 17 | 2.5 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 1 | 2.5 |
| (1,9200) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 1 | 2.5 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 11 | 2.5 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 11 | 2.5 |
| (1,9112) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 18 | 2.5 |
| (1,9112) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 18 | 2.5 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 18 | 2.5 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 18 | 2.5 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 18 | 2.5 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 18 | 2.5 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 18 | 2.5 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 18 | 2.5 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 14 | 2.5 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 14 | 2.5 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 2 | 2.5 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 2 | 2.5 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 14 | 2.5 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 14 | 2.5 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 14 | 2.5 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 14 | 2.5 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 14 | 2.5 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 14 | 2.5 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 13 | 2.5 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 13 | 2.5 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 12 | 2.5 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 12 | 2.5 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 18 | 2.5 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 18 | 2.5 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 2 | 2.5 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 2 | 2.5 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 11 | 2.5 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 11 | 2.5 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 4 | 2.5 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 4 | 2.5 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 5 | 2.5 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 5 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 16 | 2.5 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 16 | 2.5 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 2.5 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 2.5 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 2 | 2.5 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 2 | 2.5 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 11 | 2.5 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 11 | 2.5 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 2 | 2.5 |
| (1,8532) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 2 | 2.5 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 10 | 2.5 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 11 | 2.5 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 11 | 2.5 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 11 | 2.5 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 11 | 2.5 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 11 | 2.5 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 11 | 2.5 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 1 | 2.5 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 1 | 2.5 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 1 | 2.5 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 16 | 2.5 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 2 | 2.5 |
| (1,7896) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 4 | 2.5 |
| (1,7896) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 4 | 2.5 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 15 | 2.5 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 15 | 2.5 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 15 | 2.5 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 15 | 2.5 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 15 | 2.5 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 13 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 4 | 2.5 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 4 | 2.5 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB2 | 10 | 2.5 |
| (1,7410) | 1:7:A:LEU:HB3 | 1:11:A:TRP:HB3 | 10 | 2.5 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 18 | 2.5 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 18 | 2.5 |
| (1,7198) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 18 | 2.5 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 5 | 2.5 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 7 | 2.5 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 7 | 2.5 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 17 | 2.5 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 17 | 2.5 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 18 | 2.5 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 18 | 2.5 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 13 | 2.5 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 13 | 2.5 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 8 | 2.5 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 8 | 2.5 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 18 | 2.5 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 18 | 2.5 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 8 | 2.5 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 8 | 2.5 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 2 | 2.5 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 18 | 2.5 |
| (1,6964) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 2 | 2.5 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 12 | 2.5 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 4 | 2.5 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 4 | 2.5 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 9 | 2.5 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 10 | 2.5 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 1 | 2.5 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 11 | 2.5 |
| (1,6383) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 3 | 2.5 |
| (1,6383) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 3 | 2.5 |
| (1,6383) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 3 | 2.5 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 10 | 2.5 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 12 | 2.5 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 10 | 2.5 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 17 | 2.5 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 17 | 2.5 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 2 | 2.5 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 2 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 12 | 2.5 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 12 | 2.5 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 16 | 2.5 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 16 | 2.5 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 16 | 2.5 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 16 | 2.5 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 16 | 2.5 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 16 | 2.5 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 16 | 2.5 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 16 | 2.5 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 16 | 2.5 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 13 | 2.5 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 8 | 2.5 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 11 | 2.5 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 11 | 2.5 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 11 | 2.5 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 20 | 2.5 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 20 | 2.5 |
| (1,6195) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 20 | 2.5 |
| (1,6148) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 18 | 2.5 |
| (1,6148) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 18 | 2.5 |
| (1,6148) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 18 | 2.5 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 3 | 2.5 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 3 | 2.5 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 3 | 2.5 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 17 | 2.5 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 17 | 2.5 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 17 | 2.5 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 4 | 2.5 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 15 | 2.5 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 15 | 2.5 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 10 | 2.5 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 10 | 2.5 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 10 | 2.5 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 2 | 2.5 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 15 | 2.5 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 8 | 2.5 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 8 | 2.5 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 11 | 2.5 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 11 | 2.5 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 17 | 2.5 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 17 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 7 | 2.5 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 16 | 2.5 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 16 | 2.5 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 16 | 2.5 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 16 | 2.5 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 16 | 2.5 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 16 | 2.5 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 13 | 2.5 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 13 | 2.5 |
| (1,5685) | 1:106:A:LEU:H | 1:107:A:ALA:H | 16 | 2.5 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 7 | 2.5 |
| (1,5660) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 19 | 2.5 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 14 | 2.5 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 14 | 2.5 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 10 | 2.5 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 4 | 2.5 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 5 | 2.5 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 14 | 2.5 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 16 | 2.5 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 15 | 2.5 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 7 | 2.5 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 7 | 2.5 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 7 | 2.5 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 7 | 2.5 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 7 | 2.5 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 7 | 2.5 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 7 | 2.5 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 7 | 2.5 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 7 | 2.5 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 7 | 2.5 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 3 | 2.5 |
| (1,5462) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 7 | 2.5 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 19 | 2.5 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 1 | 2.5 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 1 | 2.5 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 1 | 2.5 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 17 | 2.5 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 9 | 2.5 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 9 | 2.5 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 9 | 2.5 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 6 | 2.5 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 5 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 14 | 2.5 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 20 | 2.5 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 19 | 2.5 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 9 | 2.5 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 9 | 2.5 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 9 | 2.5 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 19 | 2.5 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 19 | 2.5 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 19 | 2.5 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 13 | 2.5 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 19 | 2.5 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 19 | 2.5 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 19 | 2.5 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 19 | 2.5 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 3 | 2.5 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 3 | 2.5 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 6 | 2.5 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 6 | 2.5 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 6 | 2.5 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 1 | 2.5 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 1 | 2.5 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 1 | 2.5 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 1 | 2.5 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 1 | 2.5 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 1 | 2.5 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 1 | 2.5 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 1 | 2.5 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 1 | 2.5 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 14 | 2.5 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 14 | 2.5 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 14 | 2.5 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 12 | 2.5 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 8 | 2.5 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 16 | 2.5 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 14 | 2.5 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 14 | 2.5 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 10 | 2.5 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 10 | 2.5 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 13 | 2.5 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 8 | 2.5 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 8 | 2.5 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 8 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 12 | 2.5 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 12 | 2.5 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 12 | 2.5 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 18 | 2.5 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 18 | 2.5 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 18 | 2.5 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 18 | 2.5 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 18 | 2.5 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 5 | 2.5 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 5 | 2.5 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 2 | 2.5 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 2 | 2.5 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 12 | 2.5 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 12 | 2.5 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 13 | 2.5 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 13 | 2.5 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 14 | 2.5 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 14 | 2.5 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 11 | 2.5 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 11 | 2.5 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 11 | 2.5 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 17 | 2.5 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 17 | 2.5 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 14 | 2.5 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 14 | 2.5 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 17 | 2.5 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 17 | 2.5 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 18 | 2.5 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 18 | 2.5 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 3 | 2.5 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 3 | 2.5 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 3 | 2.5 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 3 | 2.5 |
| (1,4289) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 10 | 2.5 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 14 | 2.5 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 14 | 2.5 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 3 | 2.5 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 1 | 2.5 |
| (1,4186) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 1 | 2.5 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 9 | 2.5 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 9 | 2.5 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 10 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 10 | 2.5 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 12 | 2.5 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 12 | 2.5 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 12 | 2.5 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 12 | 2.5 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 12 | 2.5 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 12 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 13 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 13 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 13 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 13 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 13 | 2.5 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 13 | 2.5 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 8 | 2.5 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 8 | 2.5 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 8 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 11 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 11 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 11 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 11 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 11 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 11 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 12 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 12 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 12 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 12 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 12 | 2.5 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 12 | 2.5 |
| (1,4080) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 18 | 2.5 |
| (1,4080) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 18 | 2.5 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 18 | 2.5 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 18 | 2.5 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 18 | 2.5 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 18 | 2.5 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 18 | 2.5 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 18 | 2.5 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 2.5 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 1 | 2.5 |
| (1,4029) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 2 | 2.5 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 5 | 2.5 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 5 | 2.5 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 5 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 15 | 2.5 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 15 | 2.5 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 14 | 2.5 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 14 | 2.5 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 14 | 2.5 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 5 | 2.5 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 5 | 2.5 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 5 | 2.5 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 9 | 2.5 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 10 | 2.5 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 13 | 2.5 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 13 | 2.5 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 19 | 2.5 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 19 | 2.5 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 18 | 2.5 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 18 | 2.5 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 18 | 2.5 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 16 | 2.5 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 16 | 2.5 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 7 | 2.5 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 7 | 2.5 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 8 | 2.5 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 8 | 2.5 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 12 | 2.5 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 12 | 2.5 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 14 | 2.5 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 14 | 2.5 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 5 | 2.5 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 6 | 2.5 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 6 | 2.5 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 6 | 2.5 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 6 | 2.5 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 6 | 2.5 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 6 | 2.5 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 12 | 2.5 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 12 | 2.5 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 20 | 2.5 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 20 | 2.5 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 10 | 2.5 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 18 | 2.5 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 14 | 2.5 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 14 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 2 | 2.5 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 2 | 2.5 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 7 | 2.5 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 7 | 2.5 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 2 | 2.5 |
| (1,3494) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 2 | 2.5 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 11 | 2.5 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 17 | 2.5 |
| (1,3420) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 5 | 2.5 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 17 | 2.5 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 18 | 2.5 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 18 | 2.5 |
| (1,3356) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 18 | 2.5 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 4 | 2.5 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 4 | 2.5 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 4 | 2.5 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 19 | 2.5 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 9 | 2.5 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 6 | 2.5 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 6 | 2.5 |
| (1,3298) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 6 | 2.5 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 8 | 2.5 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 20 | 2.5 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 20 | 2.5 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 20 | 2.5 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 5 | 2.5 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 9 | 2.5 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 7 | 2.5 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 7 | 2.5 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 2 | 2.5 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 2 | 2.5 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 2 | 2.5 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 17 | 2.5 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 9 | 2.5 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 17 | 2.5 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 17 | 2.5 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 18 | 2.5 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 18 | 2.5 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 16 | 2.5 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 16 | 2.5 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 16 | 2.5 |
| (1,3055) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 1 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 8 | 2.5 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 8 | 2.5 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 2 | 2.5 |
| (1,2994) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 2 | 2.5 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 2 | 2.5 |
| (1,2904) | 1:29:A:THR:HA | 1:30:A:ASN:H | 7 | 2.5 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 3 | 2.5 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 3 | 2.5 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 15 | 2.5 |
| (1,2758) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 15 | 2.5 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 10 | 2.5 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 10 | 2.5 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 10 | 2.5 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 10 | 2.5 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 10 | 2.5 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 10 | 2.5 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 15 | 2.5 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 15 | 2.5 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 4 | 2.5 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 4 | 2.5 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 12 | 2.5 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 12 | 2.5 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 13 | 2.5 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 2.5 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 13 | 2.5 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 12 | 2.5 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 8 | 2.5 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 8 | 2.5 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 12 | 2.5 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 12 | 2.5 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 4 | 2.5 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 4 | 2.5 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 17 | 2.5 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 17 | 2.5 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 3 | 2.5 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 10 | 2.5 |
| (1,2416) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 12 | 2.5 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 6 | 2.5 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 3 | 2.5 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 3 | 2.5 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 3 | 2.5 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 3 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 3 | 2.5 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 3 | 2.5 |
| (1,2337) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 5 | 2.5 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 1 | 2.5 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 4 | 2.5 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 6 | 2.5 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 12 | 2.5 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 20 | 2.5 |
| (1,2188) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 1 | 2.5 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 6 | 2.5 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 6 | 2.5 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 6 | 2.5 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 11 | 2.5 |
| (1,2084) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 3 | 2.5 |
| (1,2084) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 3 | 2.5 |
| (1,2084) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 3 | 2.5 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 10 | 2.5 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 12 | 2.5 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 20 | 2.5 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 14 | 2.5 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 19 | 2.5 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 10 | 2.5 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 16 | 2.5 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 16 | 2.5 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 16 | 2.5 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 16 | 2.5 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 16 | 2.5 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 16 | 2.5 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 16 | 2.5 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 16 | 2.5 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 16 | 2.5 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 2 | 2.5 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 8 | 2.5 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 8 | 2.5 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 8 | 2.5 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 13 | 2.5 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 8 | 2.5 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 7 | 2.5 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 19 | 2.5 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 11 | 2.5 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 11 | 2.5 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 11 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 20 | 2.5 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 20 | 2.5 |
| (1,1806) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 20 | 2.5 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 9 | 2.5 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 20 | 2.5 |
| (1,1744) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 18 | 2.5 |
| (1,1744) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 18 | 2.5 |
| (1,1744) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 18 | 2.5 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 3 | 2.5 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 3 | 2.5 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 3 | 2.5 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 17 | 2.5 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 17 | 2.5 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 17 | 2.5 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 4 | 2.5 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 15 | 2.5 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 15 | 2.5 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 10 | 2.5 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 10 | 2.5 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 10 | 2.5 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 4 | 2.5 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 4 | 2.5 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 4 | 2.5 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 3 | 2.5 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 3 | 2.5 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 3 | 2.5 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 19 | 2.5 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 19 | 2.5 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 19 | 2.5 |
| (1,1544) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 14 | 2.5 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 2 | 2.5 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 20 | 2.5 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 20 | 2.5 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 9 | 2.5 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 9 | 2.5 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 9 | 2.5 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 15 | 2.5 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 17 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 7 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 7 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 8 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 8 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 12 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 12 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 16 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 16 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 18 | 2.5 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 18 | 2.5 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 5 | 2.5 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 8 | 2.5 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 8 | 2.5 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 11 | 2.5 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 11 | 2.5 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 17 | 2.5 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 17 | 2.5 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 7 | 2.5 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 11 | 2.5 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 11 | 2.5 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 11 | 2.5 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 16 | 2.5 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 16 | 2.5 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 16 | 2.5 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 16 | 2.5 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 16 | 2.5 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 16 | 2.5 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 7 | 2.5 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 7 | 2.5 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 14 | 2.5 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 14 | 2.5 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 6 | 2.5 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 6 | 2.5 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 6 | 2.5 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 15 | 2.5 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 1 | 2.5 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 17 | 2.5 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 13 | 2.5 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 13 | 2.5 |
| (1,950) | 1:106:A:LEU:H | 1:107:A:ALA:H | 16 | 2.5 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 7 | 2.5 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 19 | 2.5 |
| (1,902) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 19 | 2.5 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 17 | 2.5 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 17 | 2.5 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 17 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 12 | 2.5 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 12 | 2.5 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 8 | 2.5 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 8 | 2.5 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 15 | 2.5 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 15 | 2.5 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 19 | 2.5 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 19 | 2.5 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 14 | 2.5 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 14 | 2.5 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 9 | 2.5 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 10 | 2.5 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 18 | 2.5 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 15 | 2.5 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 7 | 2.5 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 7 | 2.5 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 7 | 2.5 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 7 | 2.5 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 7 | 2.5 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 7 | 2.5 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 7 | 2.5 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 7 | 2.5 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 7 | 2.5 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 7 | 2.5 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 3 | 2.5 |
| (1,562) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 7 | 2.5 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 19 | 2.5 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 3 | 2.5 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 3 | 2.5 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 3 | 2.5 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 8 | 2.5 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 8 | 2.5 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 8 | 2.5 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 2 | 2.5 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 2 | 2.5 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 2 | 2.5 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 2 | 2.5 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 2 | 2.5 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 2 | 2.5 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 2 | 2.5 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 2 | 2.5 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 2 | 2.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 3 | 2.5 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 16 | 2.5 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 13 | 2.49 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 10 | 2.49 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 10 | 2.49 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 10 | 2.49 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 10 | 2.49 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 10 | 2.49 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 10 | 2.49 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 6 | 2.49 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 10 | 2.49 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 10 | 2.49 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 2.49 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 2.49 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 18 | 2.49 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 18 | 2.49 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 1 | 2.49 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 1 | 2.49 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 1 | 2.49 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 1 | 2.49 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 1 | 2.49 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 1 | 2.49 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 13 | 2.49 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 13 | 2.49 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 1 | 2.49 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 1 | 2.49 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 19 | 2.49 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 19 | 2.49 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 19 | 2.49 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 19 | 2.49 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 1 | 2.49 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 1 | 2.49 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 10 | 2.49 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 10 | 2.49 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 8 | 2.49 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 8 | 2.49 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 3 | 2.49 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 3 | 2.49 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 6 | 2.49 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 6 | 2.49 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 6 | 2.49 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 6 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB2 | 9 | 2.49 |
| (1,9227) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HB3 | 9 | 2.49 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB2 | 9 | 2.49 |
| (1,9227) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HB3 | 9 | 2.49 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB2 | 9 | 2.49 |
| (1,9227) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HB3 | 9 | 2.49 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 10 | 2.49 |
| (1,9226) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 10 | 2.49 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 10 | 2.49 |
| (1,9226) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 10 | 2.49 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 10 | 2.49 |
| (1,9226) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 10 | 2.49 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 12 | 2.49 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 12 | 2.49 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 3 | 2.49 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 3 | 2.49 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 17 | 2.49 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 17 | 2.49 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 17 | 2.49 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 17 | 2.49 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 17 | 2.49 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 17 | 2.49 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 10 | 2.49 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 10 | 2.49 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 15 | 2.49 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 15 | 2.49 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 15 | 2.49 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 15 | 2.49 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 15 | 2.49 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 15 | 2.49 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 16 | 2.49 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 16 | 2.49 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 16 | 2.49 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 16 | 2.49 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 8 | 2.49 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 8 | 2.49 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 8 | 2.49 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 8 | 2.49 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 17 | 2.49 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 17 | 2.49 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 17 | 2.49 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 17 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 17 | 2.49 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 17 | 2.49 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 16 | 2.49 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 16 | 2.49 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 14 | 2.49 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 14 | 2.49 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 5 | 2.49 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 5 | 2.49 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 20 | 2.49 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 20 | 2.49 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 11 | 2.49 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 11 | 2.49 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 12 | 2.49 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 12 | 2.49 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 5 | 2.49 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 5 | 2.49 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 13 | 2.49 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 13 | 2.49 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 11 | 2.49 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 11 | 2.49 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 9 | 2.49 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 9 | 2.49 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 11 | 2.49 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 11 | 2.49 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 11 | 2.49 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 6 | 2.49 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 6 | 2.49 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 6 | 2.49 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 6 | 2.49 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 6 | 2.49 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 6 | 2.49 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 19 | 2.49 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 19 | 2.49 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 19 | 2.49 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 19 | 2.49 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 19 | 2.49 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 19 | 2.49 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 8 | 2.49 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 9 | 2.49 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 15 | 2.49 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 7 | 2.49 |
| (1,7616) | 1:26:A:ASN:HB2 | 1:28:A:ILE:H | 18 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 18 | 2.49 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 9 | 2.49 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 9 | 2.49 |
| (1,7488) | 1:13:A:LYS:H | 1:14:A:ARG:H | 11 | 2.49 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 10 | 2.49 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 15 | 2.49 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 9 | 2.49 |
| (1,7353) | 1:94:A:GLN:HG2 | 1:95:A:LYS:H | 11 | 2.49 |
| (1,7353) | 1:94:A:GLN:HG3 | 1:95:A:LYS:H | 11 | 2.49 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 17 | 2.49 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 3 | 2.49 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 8 | 2.49 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 1 | 2.49 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 9 | 2.49 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 7 | 2.49 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 7 | 2.49 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 16 | 2.49 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 16 | 2.49 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 5 | 2.49 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 5 | 2.49 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 18 | 2.49 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 18 | 2.49 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 11 | 2.49 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 11 | 2.49 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 19 | 2.49 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 2 | 2.49 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 4 | 2.49 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 4 | 2.49 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 4 | 2.49 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 12 | 2.49 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 1 | 2.49 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 1 | 2.49 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 1 | 2.49 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 3 | 2.49 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 6 | 2.49 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 20 | 2.49 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 20 | 2.49 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 20 | 2.49 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 14 | 2.49 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 14 | 2.49 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 14 | 2.49 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 18 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 18 | 2.49 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 18 | 2.49 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 10 | 2.49 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 10 | 2.49 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 10 | 2.49 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 10 | 2.49 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 4 | 2.49 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 20 | 2.49 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 1 | 2.49 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 6 | 2.49 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 5 | 2.49 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 15 | 2.49 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 15 | 2.49 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 15 | 2.49 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 8 | 2.49 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 4 | 2.49 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 4 | 2.49 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 4 | 2.49 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 3 | 2.49 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 3 | 2.49 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 3 | 2.49 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 8 | 2.49 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 8 | 2.49 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 18 | 2.49 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 18 | 2.49 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 18 | 2.49 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 18 | 2.49 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 18 | 2.49 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 18 | 2.49 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 18 | 2.49 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 18 | 2.49 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 18 | 2.49 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 16 | 2.49 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 8 | 2.49 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 13 | 2.49 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 7 | 2.49 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 14 | 2.49 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 3 | 2.49 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 17 | 2.49 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 17 | 2.49 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 17 | 2.49 |
| (1,6084) | 1:137:A:ALA:H | 1:138:A:SER:H | 19 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 14 | 2.49 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 14 | 2.49 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 17 | 2.49 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 17 | 2.49 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 5 | 2.49 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 4 | 2.49 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 5 | 2.49 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 8 | 2.49 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 18 | 2.49 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 18 | 2.49 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 15 | 2.49 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 15 | 2.49 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 10 | 2.49 |
| (1,5778) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 18 | 2.49 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 3 | 2.49 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 8 | 2.49 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 9 | 2.49 |
| (1,5662) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 17 | 2.49 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 13 | 2.49 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 13 | 2.49 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 13 | 2.49 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 6 | 2.49 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 6 | 2.49 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 16 | 2.49 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 14 | 2.49 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 20 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 1 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 1 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 1 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 7 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 7 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 7 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 17 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 17 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 17 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 19 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 19 | 2.49 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 19 | 2.49 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 13 | 2.49 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 13 | 2.49 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 13 | 2.49 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 2 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 17 | 2.49 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 7 | 2.49 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 9 | 2.49 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 16 | 2.49 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 16 | 2.49 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 16 | 2.49 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 16 | 2.49 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 16 | 2.49 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 16 | 2.49 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 16 | 2.49 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 16 | 2.49 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 16 | 2.49 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 16 | 2.49 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 16 | 2.49 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 16 | 2.49 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 7 | 2.49 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 7 | 2.49 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 7 | 2.49 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 20 | 2.49 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 20 | 2.49 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 20 | 2.49 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 8 | 2.49 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 4 | 2.49 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 17 | 2.49 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 14 | 2.49 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 14 | 2.49 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 14 | 2.49 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 4 | 2.49 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 5 | 2.49 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 13 | 2.49 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 15 | 2.49 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 20 | 2.49 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 20 | 2.49 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 15 | 2.49 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 15 | 2.49 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 15 | 2.49 |
| (1,4842) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 14 | 2.49 |
| (1,4842) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 14 | 2.49 |
| (1,4842) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 14 | 2.49 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 12 | 2.49 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 12 | 2.49 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 12 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 9 | 2.49 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 9 | 2.49 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 1 | 2.49 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 8 | 2.49 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 8 | 2.49 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 20 | 2.49 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 13 | 2.49 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 2.49 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 2.49 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 18 | 2.49 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 18 | 2.49 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 18 | 2.49 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 1 | 2.49 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 1 | 2.49 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 1 | 2.49 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 1 | 2.49 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 1 | 2.49 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 1 | 2.49 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 20 | 2.49 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 20 | 2.49 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 20 | 2.49 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 20 | 2.49 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 20 | 2.49 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 20 | 2.49 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 4 | 2.49 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 1 | 2.49 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 1 | 2.49 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 3 | 2.49 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 3 | 2.49 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 13 | 2.49 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 13 | 2.49 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 13 | 2.49 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 13 | 2.49 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 5 | 2.49 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 5 | 2.49 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 18 | 2.49 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 18 | 2.49 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 2.49 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 2.49 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 2.49 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 6 | 2.49 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 19 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 8 | 2.49 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 8 | 2.49 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 6 | 2.49 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 4 | 2.49 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 4 | 2.49 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 13 | 2.49 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 13 | 2.49 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 3 | 2.49 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 12 | 2.49 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 1 | 2.49 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 1 | 2.49 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 10 | 2.49 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 10 | 2.49 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 13 | 2.49 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 2 | 2.49 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 2 | 2.49 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 10 | 2.49 |
| (1,4212) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 10 | 2.49 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 10 | 2.49 |
| (1,4212) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 10 | 2.49 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 10 | 2.49 |
| (1,4212) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 10 | 2.49 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 12 | 2.49 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 12 | 2.49 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 9 | 2.49 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 9 | 2.49 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 9 | 2.49 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 17 | 2.49 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 17 | 2.49 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 17 | 2.49 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 17 | 2.49 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 17 | 2.49 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 17 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 4 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 4 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 4 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 4 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 4 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 4 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 6 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 6 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 6 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 6 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 6 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 6 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 10 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 10 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 10 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 10 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 10 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 10 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 14 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 14 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 14 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 14 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 14 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 14 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 19 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 19 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 19 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 19 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 19 | 2.49 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 19 | 2.49 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 6 | 2.49 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 6 | 2.49 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 15 | 2.49 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 15 | 2.49 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 14 | 2.49 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 14 | 2.49 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 14 | 2.49 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 14 | 2.49 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 14 | 2.49 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 14 | 2.49 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 8 | 2.49 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 8 | 2.49 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 8 | 2.49 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 8 | 2.49 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 17 | 2.49 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 17 | 2.49 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 17 | 2.49 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 17 | 2.49 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 5 | 2.49 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 5 | 2.49 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 17 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 17 | 2.49 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 18 | 2.49 |
| (1,3923) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 18 | 2.49 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 7 | 2.49 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 7 | 2.49 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 6 | 2.49 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 16 | 2.49 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 16 | 2.49 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 20 | 2.49 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 20 | 2.49 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 20 | 2.49 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 20 | 2.49 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 20 | 2.49 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 20 | 2.49 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 16 | 2.49 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 16 | 2.49 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 2 | 2.49 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 2 | 2.49 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 4 | 2.49 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 4 | 2.49 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 4 | 2.49 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 13 | 2.49 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 13 | 2.49 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 2 | 2.49 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 2 | 2.49 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 2 | 2.49 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 2 | 2.49 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 1 | 2.49 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 1 | 2.49 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 15 | 2.49 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 15 | 2.49 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 15 | 2.49 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 15 | 2.49 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 11 | 2.49 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 11 | 2.49 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 11 | 2.49 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 11 | 2.49 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 11 | 2.49 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 11 | 2.49 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 19 | 2.49 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 19 | 2.49 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 19 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 9 | 2.49 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 9 | 2.49 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 15 | 2.49 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 15 | 2.49 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 2 | 2.49 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 13 | 2.49 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 3 | 2.49 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 17 | 2.49 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 17 | 2.49 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 15 | 2.49 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 5 | 2.49 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 1 | 2.49 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 8 | 2.49 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 1 | 2.49 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 9 | 2.49 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 10 | 2.49 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 10 | 2.49 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 10 | 2.49 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 7 | 2.49 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 7 | 2.49 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 16 | 2.49 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 16 | 2.49 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 20 | 2.49 |
| (1,3070) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 15 | 2.49 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 11 | 2.49 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 11 | 2.49 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 19 | 2.49 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 19 | 2.49 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 19 | 2.49 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 2 | 2.49 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 4 | 2.49 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 4 | 2.49 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 4 | 2.49 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 12 | 2.49 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 8 | 2.49 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 15 | 2.49 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 2 | 2.49 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 2 | 2.49 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 2 | 2.49 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 1 | 2.49 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 1 | 2.49 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 1 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 3 | 2.49 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 6 | 2.49 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 14 | 2.49 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 14 | 2.49 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 14 | 2.49 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 18 | 2.49 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 18 | 2.49 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 18 | 2.49 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 19 | 2.49 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 8 | 2.49 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 11 | 2.49 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 19 | 2.49 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 2 | 2.49 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 2 | 2.49 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 6 | 2.49 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 6 | 2.49 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 4 | 2.49 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 20 | 2.49 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 16 | 2.49 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 17 | 2.49 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 17 | 2.49 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 17 | 2.49 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 17 | 2.49 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 7 | 2.49 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 7 | 2.49 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 7 | 2.49 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 1 | 2.49 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 1 | 2.49 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 1 | 2.49 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 19 | 2.49 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 19 | 2.49 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 19 | 2.49 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 14 | 2.49 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 20 | 2.49 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 4 | 2.49 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 4 | 2.49 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 10 | 2.49 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 6 | 2.49 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 2 | 2.49 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 5 | 2.49 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 15 | 2.49 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 15 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 15 | 2.49 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 4 | 2.49 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 19 | 2.49 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 20 | 2.49 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 20 | 2.49 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 20 | 2.49 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 8 | 2.49 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 5 | 2.49 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 17 | 2.49 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 20 | 2.49 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 10 | 2.49 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 20 | 2.49 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 20 | 2.49 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 20 | 2.49 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 4 | 2.49 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 4 | 2.49 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 4 | 2.49 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 3 | 2.49 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 3 | 2.49 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 3 | 2.49 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 19 | 2.49 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 19 | 2.49 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 19 | 2.49 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 18 | 2.49 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 18 | 2.49 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 18 | 2.49 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 18 | 2.49 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 18 | 2.49 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 18 | 2.49 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 18 | 2.49 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 18 | 2.49 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 18 | 2.49 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 19 | 2.49 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 19 | 2.49 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 19 | 2.49 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 16 | 2.49 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 1 | 2.49 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 2 | 2.49 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 8 | 2.49 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 15 | 2.49 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 5 | 2.49 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 5 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 5 | 2.49 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 7 | 2.49 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 14 | 2.49 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 3 | 2.49 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 17 | 2.49 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 17 | 2.49 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 17 | 2.49 |
| (1,1656) | 1:137:A:ALA:H | 1:138:A:SER:H | 19 | 2.49 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 14 | 2.49 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 14 | 2.49 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 17 | 2.49 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 17 | 2.49 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 9 | 2.49 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 5 | 2.49 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 4 | 2.49 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 5 | 2.49 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 8 | 2.49 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 18 | 2.49 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 18 | 2.49 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 3 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 1 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 1 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 13 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 13 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 14 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 14 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 19 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 19 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 20 | 2.49 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 20 | 2.49 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 15 | 2.49 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 15 | 2.49 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 10 | 2.49 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 1 | 2.49 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 1 | 2.49 |
| (1,1128) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 18 | 2.49 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 11 | 2.49 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 19 | 2.49 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 3 | 2.49 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 6 | 2.49 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 3 | 2.49 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 8 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 9 | 2.49 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 5 | 2.49 |
| (1,908) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 17 | 2.49 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 13 | 2.49 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 13 | 2.49 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 13 | 2.49 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 12 | 2.49 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 12 | 2.49 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 12 | 2.49 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 11 | 2.49 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 11 | 2.49 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 6 | 2.49 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 6 | 2.49 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 16 | 2.49 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 14 | 2.49 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 20 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 1 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 1 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 1 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 7 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 7 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 7 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 17 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 17 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 17 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 19 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 19 | 2.49 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 19 | 2.49 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 19 | 2.49 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 19 | 2.49 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 11 | 2.49 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 2 | 2.49 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 17 | 2.49 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 20 | 2.49 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 2 | 2.49 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 2 | 2.49 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 2 | 2.49 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 20 | 2.49 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 20 | 2.49 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 20 | 2.49 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 13 | 2.49 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 13 | 2.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 3 | 2.49 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 5 | 2.49 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 17 | 2.49 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 6 | 2.49 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 6 | 2.49 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 6 | 2.49 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 13 | 2.48 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 20 | 2.48 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 4 | 2.48 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 12 | 2.48 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 15 | 2.48 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 1 | 2.48 |
| (3,64) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 20 | 2.48 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 5 | 2.48 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 5 | 2.48 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 18 | 2.48 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 18 | 2.48 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 4 | 2.48 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 4 | 2.48 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 5 | 2.48 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 5 | 2.48 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 20 | 2.48 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 20 | 2.48 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 20 | 2.48 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 20 | 2.48 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 20 | 2.48 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 20 | 2.48 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 3 | 2.48 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 3 | 2.48 |
| (1,9270) | 1:102:A:ASP:HB2 | 1:104:A:GLU:H | 14 | 2.48 |
| (1,9270) | 1:102:A:ASP:HB3 | 1:104:A:GLU:H | 14 | 2.48 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 11 | 2.48 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 11 | 2.48 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 14 | 2.48 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 14 | 2.48 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 14 | 2.48 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 14 | 2.48 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 14 | 2.48 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 14 | 2.48 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 2 | 2.48 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 2 | 2.48 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 3 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 3 | 2.48 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 3 | 2.48 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 3 | 2.48 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 3 | 2.48 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 3 | 2.48 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 14 | 2.48 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 14 | 2.48 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 14 | 2.48 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 14 | 2.48 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 14 | 2.48 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 14 | 2.48 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 5 | 2.48 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 5 | 2.48 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 5 | 2.48 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 5 | 2.48 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 5 | 2.48 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 5 | 2.48 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 12 | 2.48 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 12 | 2.48 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 3 | 2.48 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 3 | 2.48 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 10 | 2.48 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 10 | 2.48 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 6 | 2.48 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 6 | 2.48 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 13 | 2.48 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 13 | 2.48 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 20 | 2.48 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 2.48 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 4 | 2.48 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 4 | 2.48 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 6 | 2.48 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 6 | 2.48 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 7 | 2.48 |
| (1,8704) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 7 | 2.48 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 7 | 2.48 |
| (1,8704) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 7 | 2.48 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 15 | 2.48 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 15 | 2.48 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 16 | 2.48 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 16 | 2.48 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 13 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 13 | 2.48 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 3 | 2.48 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 3 | 2.48 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 20 | 2.48 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 3 | 2.48 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 15 | 2.48 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 15 | 2.48 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 15 | 2.48 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 15 | 2.48 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 15 | 2.48 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 15 | 2.48 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 9 | 2.48 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 4 | 2.48 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 4 | 2.48 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 4 | 2.48 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 9 | 2.48 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 9 | 2.48 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 9 | 2.48 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 12 | 2.48 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 12 | 2.48 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 12 | 2.48 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 12 | 2.48 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 12 | 2.48 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 12 | 2.48 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 10 | 2.48 |
| (1,7456) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 4 | 2.48 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 9 | 2.48 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 13 | 2.48 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 13 | 2.48 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 17 | 2.48 |
| (1,7272) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 7 | 2.48 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 16 | 2.48 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 7 | 2.48 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 10 | 2.48 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 14 | 2.48 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 6 | 2.48 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 16 | 2.48 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 2 | 2.48 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 11 | 2.48 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 11 | 2.48 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 12 | 2.48 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 12 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 13 | 2.48 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 13 | 2.48 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 9 | 2.48 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 9 | 2.48 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 9 | 2.48 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 12 | 2.48 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 12 | 2.48 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 12 | 2.48 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 12 | 2.48 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 19 | 2.48 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 12 | 2.48 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 15 | 2.48 |
| (1,6790) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 15 | 2.48 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 15 | 2.48 |
| (1,6790) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 15 | 2.48 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 11 | 2.48 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 11 | 2.48 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 11 | 2.48 |
| (1,6737) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 3 | 2.48 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 10 | 2.48 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 6 | 2.48 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 3 | 2.48 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 17 | 2.48 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 10 | 2.48 |
| (1,6587) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 7 | 2.48 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 7 | 2.48 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 9 | 2.48 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 19 | 2.48 |
| (1,6501) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 8 | 2.48 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 14 | 2.48 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 14 | 2.48 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 6 | 2.48 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 6 | 2.48 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 6 | 2.48 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 2 | 2.48 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 2 | 2.48 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 2 | 2.48 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 5 | 2.48 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 5 | 2.48 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 5 | 2.48 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 7 | 2.48 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 7 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 7 | 2.48 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 14 | 2.48 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 16 | 2.48 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 14 | 2.48 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 14 | 2.48 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 14 | 2.48 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 13 | 2.48 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 13 | 2.48 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 13 | 2.48 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 13 | 2.48 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 13 | 2.48 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 13 | 2.48 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 13 | 2.48 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 13 | 2.48 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 13 | 2.48 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 20 | 2.48 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 20 | 2.48 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 20 | 2.48 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 20 | 2.48 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 19 | 2.48 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 19 | 2.48 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 20 | 2.48 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 20 | 2.48 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 7 | 2.48 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 19 | 2.48 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 19 | 2.48 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 12 | 2.48 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 2 | 2.48 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 13 | 2.48 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 8 | 2.48 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 8 | 2.48 |
| (1,5950) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 16 | 2.48 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 14 | 2.48 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 14 | 2.48 |
| (1,5939) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 14 | 2.48 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 15 | 2.48 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 15 | 2.48 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 15 | 2.48 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 14 | 2.48 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 14 | 2.48 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 6 | 2.48 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 19 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 20 | 2.48 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 20 | 2.48 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 20 | 2.48 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 20 | 2.48 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 20 | 2.48 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 20 | 2.48 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 20 | 2.48 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 20 | 2.48 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 20 | 2.48 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 3 | 2.48 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 3 | 2.48 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 3 | 2.48 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 2.48 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 2.48 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 2.48 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 1 | 2.48 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 1 | 2.48 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 13 | 2.48 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 14 | 2.48 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 14 | 2.48 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 15 | 2.48 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 15 | 2.48 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 2 | 2.48 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 2 | 2.48 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 2 | 2.48 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 4 | 2.48 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 11 | 2.48 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 15 | 2.48 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 15 | 2.48 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 15 | 2.48 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 19 | 2.48 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 18 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 10 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 10 | 2.48 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 10 | 2.48 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 7 | 2.48 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 7 | 2.48 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 7 | 2.48 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 7 | 2.48 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 7 | 2.48 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 7 | 2.48 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 7 | 2.48 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 7 | 2.48 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 7 | 2.48 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 12 | 2.48 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 12 | 2.48 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 12 | 2.48 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 15 | 2.48 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 15 | 2.48 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 15 | 2.48 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 1 | 2.48 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 12 | 2.48 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 14 | 2.48 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 13 | 2.48 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 18 | 2.48 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 18 | 2.48 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 18 | 2.48 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 10 | 2.48 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 8 | 2.48 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 8 | 2.48 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 8 | 2.48 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 11 | 2.48 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 11 | 2.48 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 11 | 2.48 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 19 | 2.48 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 19 | 2.48 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 19 | 2.48 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 18 | 2.48 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 19 | 2.48 |
| (1,4928) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 19 | 2.48 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 5 | 2.48 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 7 | 2.48 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 10 | 2.48 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 16 | 2.48 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 16 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 16 | 2.48 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 9 | 2.48 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 9 | 2.48 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 9 | 2.48 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 9 | 2.48 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 9 | 2.48 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 9 | 2.48 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 9 | 2.48 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 9 | 2.48 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 9 | 2.48 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 12 | 2.48 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 8 | 2.48 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 9 | 2.48 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 17 | 2.48 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 10 | 2.48 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 10 | 2.48 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 10 | 2.48 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 10 | 2.48 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 10 | 2.48 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 10 | 2.48 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 18 | 2.48 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 18 | 2.48 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 4 | 2.48 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 4 | 2.48 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 13 | 2.48 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 13 | 2.48 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 13 | 2.48 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 9 | 2.48 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 9 | 2.48 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 9 | 2.48 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 9 | 2.48 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 9 | 2.48 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 9 | 2.48 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 9 | 2.48 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 7 | 2.48 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 7 | 2.48 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 10 | 2.48 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 10 | 2.48 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 14 | 2.48 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 14 | 2.48 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 9 | 2.48 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 9 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 9 | 2.48 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 9 | 2.48 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 14 | 2.48 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 14 | 2.48 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 3 | 2.48 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 3 | 2.48 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 15 | 2.48 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 15 | 2.48 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 11 | 2.48 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 11 | 2.48 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 20 | 2.48 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 20 | 2.48 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 20 | 2.48 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 20 | 2.48 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 12 | 2.48 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 12 | 2.48 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 12 | 2.48 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 9 | 2.48 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 9 | 2.48 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 9 | 2.48 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 9 | 2.48 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 9 | 2.48 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 9 | 2.48 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 14 | 2.48 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 14 | 2.48 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 14 | 2.48 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 14 | 2.48 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 14 | 2.48 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 14 | 2.48 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 2 | 2.48 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 2 | 2.48 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 2 | 2.48 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 5 | 2.48 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 5 | 2.48 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 5 | 2.48 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 5 | 2.48 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 5 | 2.48 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 5 | 2.48 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 5 | 2.48 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 5 | 2.48 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 5 | 2.48 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 2 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 2 | 2.48 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 3 | 2.48 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 3 | 2.48 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 3 | 2.48 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 3 | 2.48 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 3 | 2.48 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 3 | 2.48 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 14 | 2.48 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 14 | 2.48 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 14 | 2.48 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 14 | 2.48 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 5 | 2.48 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 5 | 2.48 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 5 | 2.48 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 5 | 2.48 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 5 | 2.48 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 5 | 2.48 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 9 | 2.48 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 9 | 2.48 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 9 | 2.48 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 8 | 2.48 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 20 | 2.48 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 2.48 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 9 | 2.48 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 9 | 2.48 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 9 | 2.48 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 9 | 2.48 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 9 | 2.48 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 9 | 2.48 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 4 | 2.48 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 4 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 7 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 7 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 7 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 7 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 7 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 7 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 15 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 15 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 15 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 15 | 2.48 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 15 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 15 | 2.48 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 6 | 2.48 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 6 | 2.48 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 17 | 2.48 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 17 | 2.48 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 17 | 2.48 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 15 | 2.48 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 15 | 2.48 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 11 | 2.48 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 11 | 2.48 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 19 | 2.48 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 19 | 2.48 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 4 | 2.48 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 4 | 2.48 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 10 | 2.48 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 10 | 2.48 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 12 | 2.48 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 12 | 2.48 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 13 | 2.48 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 13 | 2.48 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 16 | 2.48 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 16 | 2.48 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 2 | 2.48 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 2 | 2.48 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 11 | 2.48 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 11 | 2.48 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 16 | 2.48 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 16 | 2.48 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 5 | 2.48 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 5 | 2.48 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 6 | 2.48 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 6 | 2.48 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 12 | 2.48 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 12 | 2.48 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 12 | 2.48 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 20 | 2.48 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 17 | 2.48 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 8 | 2.48 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 16 | 2.48 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 1 | 2.48 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 10 | 2.48 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 10 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 8 | 2.48 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 7 | 2.48 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 7 | 2.48 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 7 | 2.48 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 14 | 2.48 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 14 | 2.48 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 6 | 2.48 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 16 | 2.48 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 2 | 2.48 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 2.48 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 11 | 2.48 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 11 | 2.48 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 10 | 2.48 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 10 | 2.48 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 9 | 2.48 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 9 | 2.48 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 9 | 2.48 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 12 | 2.48 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 12 | 2.48 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 12 | 2.48 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 4 | 2.48 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 10 | 2.48 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 12 | 2.48 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 19 | 2.48 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 12 | 2.48 |
| (1,2840) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 11 | 2.48 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 6 | 2.48 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 11 | 2.48 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 11 | 2.48 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 11 | 2.48 |
| (1,2672) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 3 | 2.48 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 10 | 2.48 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 6 | 2.48 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 10 | 2.48 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 6 | 2.48 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 10 | 2.48 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 16 | 2.48 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 14 | 2.48 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 14 | 2.48 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 3 | 2.48 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 8 | 2.48 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 8 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 9 | 2.48 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 9 | 2.48 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 18 | 2.48 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 18 | 2.48 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 20 | 2.48 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 20 | 2.48 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 11 | 2.48 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 17 | 2.48 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 3 | 2.48 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 8 | 2.48 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 8 | 2.48 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 8 | 2.48 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 8 | 2.48 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 8 | 2.48 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 8 | 2.48 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 4 | 2.48 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 4 | 2.48 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 4 | 2.48 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 17 | 2.48 |
| (1,2446) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 7 | 2.48 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 7 | 2.48 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 9 | 2.48 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 19 | 2.48 |
| (1,2334) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 8 | 2.48 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 10 | 2.48 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 14 | 2.48 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 9 | 2.48 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 2 | 2.48 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 14 | 2.48 |
| (1,2191) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 3 | 2.48 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 6 | 2.48 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 6 | 2.48 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 6 | 2.48 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 2 | 2.48 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 2 | 2.48 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 2 | 2.48 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 16 | 2.48 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 5 | 2.48 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 5 | 2.48 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 5 | 2.48 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 7 | 2.48 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 7 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 7 | 2.48 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 9 | 2.48 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 9 | 2.48 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 9 | 2.48 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 14 | 2.48 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 16 | 2.48 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 14 | 2.48 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 14 | 2.48 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 14 | 2.48 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 5 | 2.48 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 5 | 2.48 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 20 | 2.48 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 1 | 2.48 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 17 | 2.48 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 11 | 2.48 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 19 | 2.48 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 19 | 2.48 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 15 | 2.48 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 20 | 2.48 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 20 | 2.48 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 8 | 2.48 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 8 | 2.48 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 8 | 2.48 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 16 | 2.48 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 19 | 2.48 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 19 | 2.48 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 13 | 2.48 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 12 | 2.48 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 8 | 2.48 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 2 | 2.48 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 13 | 2.48 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 7 | 2.48 |
| (1,1444) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 6 | 2.48 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 3 | 2.48 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 3 | 2.48 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 5 | 2.48 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 5 | 2.48 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 13 | 2.48 |
| (1,1384) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 16 | 2.48 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 14 | 2.48 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 14 | 2.48 |
| (1,1364) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 14 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 15 | 2.48 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 15 | 2.48 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 15 | 2.48 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 13 | 2.48 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 13 | 2.48 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 13 | 2.48 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 18 | 2.48 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 18 | 2.48 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 18 | 2.48 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 18 | 2.48 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 18 | 2.48 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 18 | 2.48 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 14 | 2.48 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 14 | 2.48 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 6 | 2.48 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 19 | 2.48 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 20 | 2.48 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 20 | 2.48 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 20 | 2.48 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 20 | 2.48 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 20 | 2.48 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 20 | 2.48 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 20 | 2.48 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 20 | 2.48 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 20 | 2.48 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 2 | 2.48 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 2 | 2.48 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 2 | 2.48 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 2 | 2.48 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 2 | 2.48 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 2 | 2.48 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 11 | 2.48 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 11 | 2.48 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 3 | 2.48 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 3 | 2.48 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 3 | 2.48 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 2.48 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 2.48 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 2.48 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 1 | 2.48 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 1 | 2.48 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 13 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 5 | 2.48 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 5 | 2.48 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 20 | 2.48 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 6 | 2.48 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 8 | 2.48 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 14 | 2.48 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 15 | 2.48 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 18 | 2.48 |
| (1,834) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 12 | 2.48 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 17 | 2.48 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 17 | 2.48 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 20 | 2.48 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 20 | 2.48 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 15 | 2.48 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 15 | 2.48 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 2 | 2.48 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 2 | 2.48 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 2 | 2.48 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 4 | 2.48 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 11 | 2.48 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 15 | 2.48 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 15 | 2.48 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 15 | 2.48 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 3 | 2.48 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 3 | 2.48 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 3 | 2.48 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 19 | 2.48 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 18 | 2.48 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 3 | 2.48 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 3 | 2.48 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 3 | 2.48 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 8 | 2.48 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 8 | 2.48 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 8 | 2.48 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 15 | 2.48 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 15 | 2.48 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 15 | 2.48 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 17 | 2.48 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 10 | 2.48 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 2 | 2.48 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 2 | 2.48 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 2 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 5 | 2.48 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 10 | 2.48 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 10 | 2.48 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 10 | 2.48 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 10 | 2.48 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 10 | 2.48 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 10 | 2.48 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 20 | 2.48 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 20 | 2.48 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 20 | 2.48 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 3 | 2.47 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 3 | 2.47 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 5 | 2.47 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 5 | 2.47 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 12 | 2.47 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 12 | 2.47 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 12 | 2.47 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 12 | 2.47 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 12 | 2.47 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 12 | 2.47 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 10 | 2.47 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 10 | 2.47 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 10 | 2.47 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 10 | 2.47 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 10 | 2.47 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 10 | 2.47 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 12 | 2.47 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 12 | 2.47 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 2 | 2.47 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 2 | 2.47 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 2 | 2.47 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 2 | 2.47 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 10 | 2.47 |
| (1,9445) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 10 | 2.47 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 10 | 2.47 |
| (1,9445) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 10 | 2.47 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 5 | 2.47 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 5 | 2.47 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 5 | 2.47 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 5 | 2.47 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 5 | 2.47 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 5 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 18 | 2.47 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 18 | 2.47 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 18 | 2.47 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 18 | 2.47 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 18 | 2.47 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 18 | 2.47 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 5 | 2.47 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 5 | 2.47 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 9 | 2.47 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 9 | 2.47 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 15 | 2.47 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 15 | 2.47 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 19 | 2.47 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 19 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 6 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 6 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 6 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 6 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 6 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 6 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 10 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 10 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 10 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 10 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 10 | 2.47 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 10 | 2.47 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 8 | 2.47 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 8 | 2.47 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 6 | 2.47 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 6 | 2.47 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 18 | 2.47 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 18 | 2.47 |
| (1,8978) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 18 | 2.47 |
| (1,8978) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 18 | 2.47 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 18 | 2.47 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 18 | 2.47 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 20 | 2.47 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 2.47 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 16 | 2.47 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 16 | 2.47 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 7 | 2.47 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 7 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 2 | 2.47 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 2 | 2.47 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 6 | 2.47 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 6 | 2.47 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 15 | 2.47 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 15 | 2.47 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 16 | 2.47 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 16 | 2.47 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 12 | 2.47 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 11 | 2.47 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 11 | 2.47 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 11 | 2.47 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 11 | 2.47 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 11 | 2.47 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 11 | 2.47 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 11 | 2.47 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 11 | 2.47 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 11 | 2.47 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 14 | 2.47 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 12 | 2.47 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 18 | 2.47 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 18 | 2.47 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 20 | 2.47 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 20 | 2.47 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 20 | 2.47 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 20 | 2.47 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 20 | 2.47 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 20 | 2.47 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 20 | 2.47 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 20 | 2.47 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 20 | 2.47 |
| (1,8012) | 1:83:A:GLU:H | 1:85:A:ALA:H | 20 | 2.47 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 13 | 2.47 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 12 | 2.47 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 12 | 2.47 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 12 | 2.47 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 9 | 2.47 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 20 | 2.47 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 20 | 2.47 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 20 | 2.47 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 20 | 2.47 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 20 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 20 | 2.47 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 20 | 2.47 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 20 | 2.47 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 20 | 2.47 |
| (1,7612) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 17 | 2.47 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 8 | 2.47 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 12 | 2.47 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 12 | 2.47 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 3 | 2.47 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 2 | 2.47 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 2 | 2.47 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 11 | 2.47 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 18 | 2.47 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 2 | 2.47 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 20 | 2.47 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 20 | 2.47 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 20 | 2.47 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 10 | 2.47 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 20 | 2.47 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 20 | 2.47 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 3 | 2.47 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 3 | 2.47 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 6 | 2.47 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 6 | 2.47 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 15 | 2.47 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 15 | 2.47 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 7 | 2.47 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 7 | 2.47 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 8 | 2.47 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 8 | 2.47 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 3 | 2.47 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 19 | 2.47 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 19 | 2.47 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 16 | 2.47 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 14 | 2.47 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 14 | 2.47 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 14 | 2.47 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 16 | 2.47 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 16 | 2.47 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 16 | 2.47 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 1 | 2.47 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 1 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 1 | 2.47 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 6 | 2.47 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 1 | 2.47 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 1 | 2.47 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 10 | 2.47 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 10 | 2.47 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 16 | 2.47 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 17 | 2.47 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 2 | 2.47 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 3 | 2.47 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 5 | 2.47 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 5 | 2.47 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 19 | 2.47 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 3 | 2.47 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 17 | 2.47 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 13 | 2.47 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 13 | 2.47 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 13 | 2.47 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 3 | 2.47 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 3 | 2.47 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 3 | 2.47 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 17 | 2.47 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 12 | 2.47 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 12 | 2.47 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 12 | 2.47 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 19 | 2.47 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 19 | 2.47 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 19 | 2.47 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 19 | 2.47 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 6 | 2.47 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 6 | 2.47 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 6 | 2.47 |
| (1,6333) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 6 | 2.47 |
| (1,6333) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 6 | 2.47 |
| (1,6333) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 6 | 2.47 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 3 | 2.47 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 3 | 2.47 |
| (1,6328) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 3 | 2.47 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 16 | 2.47 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 16 | 2.47 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 8 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 3 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 3 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 3 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 3 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 3 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 3 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 19 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 19 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 19 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 19 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 19 | 2.47 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 19 | 2.47 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 9 | 2.47 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 2.47 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 1 | 2.47 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 1 | 2.47 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 1 | 2.47 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 20 | 2.47 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 13 | 2.47 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 13 | 2.47 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 13 | 2.47 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 13 | 2.47 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 13 | 2.47 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 13 | 2.47 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 10 | 2.47 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 10 | 2.47 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 10 | 2.47 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 6 | 2.47 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 8 | 2.47 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 8 | 2.47 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 11 | 2.47 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 7 | 2.47 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 9 | 2.47 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 9 | 2.47 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 2 | 2.47 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 2 | 2.47 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 20 | 2.47 |
| (1,5932) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 7 | 2.47 |
| (1,5932) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 7 | 2.47 |
| (1,5932) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 7 | 2.47 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 5 | 2.47 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 5 | 2.47 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 15 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 15 | 2.47 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 2 | 2.47 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 17 | 2.47 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 16 | 2.47 |
| (1,5596) | 1:100:A:GLU:H | 1:101:A:GLU:H | 3 | 2.47 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 10 | 2.47 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 16 | 2.47 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 8 | 2.47 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 6 | 2.47 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 6 | 2.47 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 6 | 2.47 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 16 | 2.47 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 16 | 2.47 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 16 | 2.47 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 5 | 2.47 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 5 | 2.47 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 5 | 2.47 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 8 | 2.47 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 1 | 2.47 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 1 | 2.47 |
| (1,5389) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 1 | 2.47 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 1 | 2.47 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 1 | 2.47 |
| (1,5389) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 1 | 2.47 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 1 | 2.47 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 1 | 2.47 |
| (1,5389) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 1 | 2.47 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 17 | 2.47 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 14 | 2.47 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 15 | 2.47 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 15 | 2.47 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 15 | 2.47 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 3 | 2.47 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 3 | 2.47 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 3 | 2.47 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 16 | 2.47 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 16 | 2.47 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 16 | 2.47 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 1 | 2.47 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 1 | 2.47 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 1 | 2.47 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 5 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 19 | 2.47 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 3 | 2.47 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 17 | 2.47 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 17 | 2.47 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 17 | 2.47 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 15 | 2.47 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 14 | 2.47 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 9 | 2.47 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 6 | 2.47 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 8 | 2.47 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 8 | 2.47 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 13 | 2.47 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 13 | 2.47 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 13 | 2.47 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 13 | 2.47 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 13 | 2.47 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 13 | 2.47 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 13 | 2.47 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 13 | 2.47 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 13 | 2.47 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 7 | 2.47 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 7 | 2.47 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 7 | 2.47 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 2 | 2.47 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 2 | 2.47 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 7 | 2.47 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 13 | 2.47 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 3 | 2.47 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 3 | 2.47 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 12 | 2.47 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 5 | 2.47 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 5 | 2.47 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 19 | 2.47 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 12 | 2.47 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 12 | 2.47 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 12 | 2.47 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 12 | 2.47 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 12 | 2.47 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 12 | 2.47 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 3 | 2.47 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 2 | 2.47 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 2 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 6 | 2.47 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 6 | 2.47 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 11 | 2.47 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 11 | 2.47 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 17 | 2.47 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 17 | 2.47 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 15 | 2.47 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 15 | 2.47 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 5 | 2.47 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 5 | 2.47 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 5 | 2.47 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 5 | 2.47 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 1 | 2.47 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 1 | 2.47 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 1 | 2.47 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 1 | 2.47 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 1 | 2.47 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 1 | 2.47 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 17 | 2.47 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 10 | 2.47 |
| (1,4430) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 10 | 2.47 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 10 | 2.47 |
| (1,4430) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 10 | 2.47 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 12 | 2.47 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 12 | 2.47 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 19 | 2.47 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 19 | 2.47 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 6 | 2.47 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 6 | 2.47 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 19 | 2.47 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 19 | 2.47 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 11 | 2.47 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 11 | 2.47 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 19 | 2.47 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 19 | 2.47 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 5 | 2.47 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 5 | 2.47 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 5 | 2.47 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 5 | 2.47 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 19 | 2.47 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 19 | 2.47 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 18 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 18 | 2.47 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 18 | 2.47 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 18 | 2.47 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 18 | 2.47 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 18 | 2.47 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 17 | 2.47 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 17 | 2.47 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 17 | 2.47 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 17 | 2.47 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 17 | 2.47 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 17 | 2.47 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 5 | 2.47 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 5 | 2.47 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 9 | 2.47 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 9 | 2.47 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 15 | 2.47 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 15 | 2.47 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 19 | 2.47 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 19 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 6 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 6 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 6 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 6 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 6 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 6 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 10 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 10 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 10 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 10 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 10 | 2.47 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 10 | 2.47 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 8 | 2.47 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 8 | 2.47 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 18 | 2.47 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 18 | 2.47 |
| (1,3952) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 18 | 2.47 |
| (1,3952) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 18 | 2.47 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 14 | 2.47 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 14 | 2.47 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 14 | 2.47 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 18 | 2.47 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 18 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 20 | 2.47 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 2.47 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 12 | 2.47 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 7 | 2.47 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 7 | 2.47 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 7 | 2.47 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 4 | 2.47 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 4 | 2.47 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 4 | 2.47 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 4 | 2.47 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 4 | 2.47 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 4 | 2.47 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 2 | 2.47 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 2 | 2.47 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 18 | 2.47 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 18 | 2.47 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 5 | 2.47 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 5 | 2.47 |
| (1,3759) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 5 | 2.47 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 5 | 2.47 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 5 | 2.47 |
| (1,3759) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 5 | 2.47 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 9 | 2.47 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 9 | 2.47 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 7 | 2.47 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 7 | 2.47 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 7 | 2.47 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 3 | 2.47 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 3 | 2.47 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 16 | 2.47 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 16 | 2.47 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 12 | 2.47 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 19 | 2.47 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 20 | 2.47 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 20 | 2.47 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 20 | 2.47 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 6 | 2.47 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 13 | 2.47 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 2.47 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 2.47 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 2.47 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 18 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 9 | 2.47 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 12 | 2.47 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 12 | 2.47 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 12 | 2.47 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 6 | 2.47 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 3 | 2.47 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 3 | 2.47 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 3 | 2.47 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 15 | 2.47 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 19 | 2.47 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 12 | 2.47 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 6 | 2.47 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 2 | 2.47 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 20 | 2.47 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 20 | 2.47 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 3 | 2.47 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 3 | 2.47 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 6 | 2.47 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 6 | 2.47 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 15 | 2.47 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 15 | 2.47 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 2 | 2.47 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 3 | 2.47 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 3 | 2.47 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 3 | 2.47 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 4 | 2.47 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 4 | 2.47 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 6 | 2.47 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 6 | 2.47 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 9 | 2.47 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 9 | 2.47 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 1 | 2.47 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 1 | 2.47 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 19 | 2.47 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 16 | 2.47 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 16 | 2.47 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 16 | 2.47 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 16 | 2.47 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 17 | 2.47 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 1 | 2.47 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 1 | 2.47 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 1 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 1 | 2.47 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 1 | 2.47 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 1 | 2.47 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 6 | 2.47 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 9 | 2.47 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 16 | 2.47 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 1 | 2.47 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 1 | 2.47 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 10 | 2.47 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 10 | 2.47 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 16 | 2.47 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 19 | 2.47 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 17 | 2.47 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 8 | 2.47 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 8 | 2.47 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 18 | 2.47 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 18 | 2.47 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 14 | 2.47 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 14 | 2.47 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 18 | 2.47 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 15 | 2.47 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 15 | 2.47 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 5 | 2.47 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 5 | 2.47 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 19 | 2.47 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 19 | 2.47 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 19 | 2.47 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 19 | 2.47 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 19 | 2.47 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 19 | 2.47 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 19 | 2.47 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 17 | 2.47 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 13 | 2.47 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 13 | 2.47 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 13 | 2.47 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 3 | 2.47 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 3 | 2.47 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 3 | 2.47 |
| (1,2296) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 4 | 2.47 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 17 | 2.47 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 3 | 2.47 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 12 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 1 | 2.47 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 19 | 2.47 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 10 | 2.47 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 13 | 2.47 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 16 | 2.47 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 18 | 2.47 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 15 | 2.47 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 15 | 2.47 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 15 | 2.47 |
| (1,2126) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 6 | 2.47 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 2.47 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 2.47 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 2.47 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.47 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.47 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.47 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 12 | 2.47 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 12 | 2.47 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 12 | 2.47 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 19 | 2.47 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 19 | 2.47 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 19 | 2.47 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 19 | 2.47 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 9 | 2.47 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 10 | 2.47 |
| (1,2058) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 17 | 2.47 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 20 | 2.47 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 20 | 2.47 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 20 | 2.47 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 20 | 2.47 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 20 | 2.47 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 20 | 2.47 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 20 | 2.47 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 20 | 2.47 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 20 | 2.47 |
| (1,2010) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 6 | 2.47 |
| (1,2010) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 6 | 2.47 |
| (1,2010) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 6 | 2.47 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 15 | 2.47 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 3 | 2.47 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 3 | 2.47 |
| (1,1998) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 3 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 18 | 2.47 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 18 | 2.47 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 18 | 2.47 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 8 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 3 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 3 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 3 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 3 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 3 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 3 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 19 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 19 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 19 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 19 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 19 | 2.47 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 19 | 2.47 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 17 | 2.47 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 12 | 2.47 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 10 | 2.47 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 9 | 2.47 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 2.47 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 1 | 2.47 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 1 | 2.47 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 1 | 2.47 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 20 | 2.47 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 11 | 2.47 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 11 | 2.47 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 11 | 2.47 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 13 | 2.47 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 13 | 2.47 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 13 | 2.47 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 13 | 2.47 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 13 | 2.47 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 13 | 2.47 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 5 | 2.47 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 5 | 2.47 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 5 | 2.47 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 2 | 2.47 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 2 | 2.47 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 2 | 2.47 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 20 | 2.47 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 20 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 10 | 2.47 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 10 | 2.47 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 10 | 2.47 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 4 | 2.47 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 4 | 2.47 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 4 | 2.47 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 6 | 2.47 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 8 | 2.47 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 7 | 2.47 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 13 | 2.47 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 8 | 2.47 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 11 | 2.47 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 7 | 2.47 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 3 | 2.47 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 3 | 2.47 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 13 | 2.47 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 13 | 2.47 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 9 | 2.47 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 9 | 2.47 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 10 | 2.47 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 10 | 2.47 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 10 | 2.47 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 6 | 2.47 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 20 | 2.47 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 5 | 2.47 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 2 | 2.47 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 4 | 2.47 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 4 | 2.47 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 3 | 2.47 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 16 | 2.47 |
| (1,1358) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 7 | 2.47 |
| (1,1358) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 7 | 2.47 |
| (1,1358) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 7 | 2.47 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 14 | 2.47 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 14 | 2.47 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 14 | 2.47 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 14 | 2.47 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 14 | 2.47 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 14 | 2.47 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 5 | 2.47 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 5 | 2.47 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 1 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 1 | 2.47 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 1 | 2.47 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 2 | 2.47 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 2 | 2.47 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 2 | 2.47 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 11 | 2.47 |
| (1,1259) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 19 | 2.47 |
| (1,1232) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 15 | 2.47 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 15 | 2.47 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 15 | 2.47 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 10 | 2.47 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 10 | 2.47 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 2 | 2.47 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 15 | 2.47 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 17 | 2.47 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 16 | 2.47 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 2 | 2.47 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 5 | 2.47 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 7 | 2.47 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 16 | 2.47 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 18 | 2.47 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 3 | 2.47 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 10 | 2.47 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 19 | 2.47 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 19 | 2.47 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 19 | 2.47 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 9 | 2.47 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 6 | 2.47 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 6 | 2.47 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 6 | 2.47 |
| (1,776) | 1:100:A:GLU:H | 1:101:A:GLU:H | 3 | 2.47 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 10 | 2.47 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 8 | 2.47 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 6 | 2.47 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 6 | 2.47 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 6 | 2.47 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 16 | 2.47 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 16 | 2.47 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 16 | 2.47 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 5 | 2.47 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 5 | 2.47 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 5 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 12 | 2.47 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 12 | 2.47 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 12 | 2.47 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 13 | 2.47 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 5 | 2.47 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 2 | 2.47 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 2 | 2.47 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 2 | 2.47 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 18 | 2.47 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 18 | 2.47 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 18 | 2.47 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 8 | 2.47 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 18 | 2.47 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 18 | 2.47 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 18 | 2.47 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 11 | 2.47 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 15 | 2.47 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 15 | 2.47 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 15 | 2.47 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 15 | 2.47 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 15 | 2.47 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 15 | 2.47 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 12 | 2.47 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 12 | 2.47 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 12 | 2.47 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 4 | 2.47 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 4 | 2.47 |
| (1,208) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 4 | 2.47 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 8 | 2.47 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 8 | 2.47 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 5 | 2.47 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 5 | 2.47 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 13 | 2.47 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 12 | 2.47 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 12 | 2.47 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 12 | 2.47 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 3 | 2.47 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 8 | 2.47 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 8 | 2.47 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 8 | 2.47 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 8 | 2.46 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 4 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,179) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 10 | 2.46 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 16 | 2.46 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 18 | 2.46 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 13 | 2.46 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 13 | 2.46 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 8 | 2.46 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 8 | 2.46 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 8 | 2.46 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 8 | 2.46 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 8 | 2.46 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 8 | 2.46 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 18 | 2.46 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 18 | 2.46 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 18 | 2.46 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 18 | 2.46 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 18 | 2.46 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 18 | 2.46 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 11 | 2.46 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 11 | 2.46 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 12 | 2.46 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 12 | 2.46 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 13 | 2.46 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 13 | 2.46 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 6 | 2.46 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 6 | 2.46 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 17 | 2.46 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 17 | 2.46 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 17 | 2.46 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 17 | 2.46 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 17 | 2.46 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 17 | 2.46 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB2 | 19 | 2.46 |
| (1,9271) | 1:102:A:ASP:HB2 | 1:104:A:GLU:HB3 | 19 | 2.46 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB2 | 19 | 2.46 |
| (1,9271) | 1:102:A:ASP:HB3 | 1:104:A:GLU:HB3 | 19 | 2.46 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 6 | 2.46 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 6 | 2.46 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 3 | 2.46 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 3 | 2.46 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 3 | 2.46 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 3 | 2.46 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 18 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 18 | 2.46 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 14 | 2.46 |
| (1,9100) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 14 | 2.46 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 14 | 2.46 |
| (1,9100) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 14 | 2.46 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 14 | 2.46 |
| (1,9100) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 14 | 2.46 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 1 | 2.46 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 1 | 2.46 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 2 | 2.46 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 2 | 2.46 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 2 | 2.46 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 2 | 2.46 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 9 | 2.46 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 9 | 2.46 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 14 | 2.46 |
| (1,8921) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 14 | 2.46 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 4 | 2.46 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 4 | 2.46 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 1 | 2.46 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 1 | 2.46 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 1 | 2.46 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 1 | 2.46 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 7 | 2.46 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 7 | 2.46 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 12 | 2.46 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 12 | 2.46 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 12 | 2.46 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 12 | 2.46 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 12 | 2.46 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 12 | 2.46 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 8 | 2.46 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 8 | 2.46 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 8 | 2.46 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 8 | 2.46 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 6 | 2.46 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 6 | 2.46 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 6 | 2.46 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 6 | 2.46 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 6 | 2.46 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 6 | 2.46 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 15 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 15 | 2.46 |
| (1,8618) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 15 | 2.46 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 13 | 2.46 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 13 | 2.46 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 8 | 2.46 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 8 | 2.46 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 11 | 2.46 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 11 | 2.46 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 11 | 2.46 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 11 | 2.46 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 6 | 2.46 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 16 | 2.46 |
| (1,7743) | 1:55:A:VAL:H | 1:126:A:SER:HA | 12 | 2.46 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 18 | 2.46 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 1 | 2.46 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 1 | 2.46 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 5 | 2.46 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 15 | 2.46 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 15 | 2.46 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 3 | 2.46 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 19 | 2.46 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 16 | 2.46 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 16 | 2.46 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 9 | 2.46 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 9 | 2.46 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 9 | 2.46 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 9 | 2.46 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 14 | 2.46 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 14 | 2.46 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 12 | 2.46 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 1 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 1 | 2.46 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 6 | 2.46 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 6 | 2.46 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 1 | 2.46 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 8 | 2.46 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 6 | 2.46 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 13 | 2.46 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 19 | 2.46 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 19 | 2.46 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 19 | 2.46 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 8 | 2.46 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 8 | 2.46 |
| (1,6882) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 8 | 2.46 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 4 | 2.46 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 4 | 2.46 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 4 | 2.46 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 2 | 2.46 |
| (1,6870) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 10 | 2.46 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 5 | 2.46 |
| (1,6826) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 7 | 2.46 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 16 | 2.46 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 6 | 2.46 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 13 | 2.46 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 6 | 2.46 |
| (1,6603) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 5 | 2.46 |
| (1,6601) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 17 | 2.46 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 20 | 2.46 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 12 | 2.46 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 12 | 2.46 |
| (1,6515) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 12 | 2.46 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 17 | 2.46 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 17 | 2.46 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 17 | 2.46 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 15 | 2.46 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 15 | 2.46 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 15 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 10 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 10 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 10 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 11 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 11 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 11 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 17 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 17 | 2.46 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 17 | 2.46 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 1 | 2.46 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 1 | 2.46 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 1 | 2.46 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 13 | 2.46 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 13 | 2.46 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 3 | 2.46 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 16 | 2.46 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 8 | 2.46 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 8 | 2.46 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 20 | 2.46 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 16 | 2.46 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 6 | 2.46 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 3 | 2.46 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 3 | 2.46 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 3 | 2.46 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 3 | 2.46 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 3 | 2.46 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 3 | 2.46 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 3 | 2.46 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 3 | 2.46 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 3 | 2.46 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 17 | 2.46 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 17 | 2.46 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 17 | 2.46 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 5 | 2.46 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 14 | 2.46 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 14 | 2.46 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 6 | 2.46 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 6 | 2.46 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 7 | 2.46 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 1 | 2.46 |
| (1,5841) | 1:119:A:ARG:H | 1:120:A:GLY:H | 19 | 2.46 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 11 | 2.46 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 20 | 2.46 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 20 | 2.46 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 20 | 2.46 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 17 | 2.46 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 9 | 2.46 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 9 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 9 | 2.46 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 1 | 2.46 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 1 | 2.46 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 17 | 2.46 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 17 | 2.46 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 4 | 2.46 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 20 | 2.46 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 19 | 2.46 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 19 | 2.46 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 12 | 2.46 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 17 | 2.46 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 18 | 2.46 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 19 | 2.46 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 17 | 2.46 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 16 | 2.46 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 17 | 2.46 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 17 | 2.46 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 17 | 2.46 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 17 | 2.46 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 17 | 2.46 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 17 | 2.46 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 17 | 2.46 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 17 | 2.46 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 17 | 2.46 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 17 | 2.46 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 17 | 2.46 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 17 | 2.46 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 17 | 2.46 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 17 | 2.46 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 17 | 2.46 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 17 | 2.46 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 17 | 2.46 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 17 | 2.46 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 4 | 2.46 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 4 | 2.46 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 4 | 2.46 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 7 | 2.46 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 7 | 2.46 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 7 | 2.46 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 1 | 2.46 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 14 | 2.46 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 7 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 8 | 2.46 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 15 | 2.46 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 15 | 2.46 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 15 | 2.46 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 15 | 2.46 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 15 | 2.46 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 15 | 2.46 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 15 | 2.46 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 15 | 2.46 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 15 | 2.46 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 6 | 2.46 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 6 | 2.46 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 6 | 2.46 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 11 | 2.46 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 11 | 2.46 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 11 | 2.46 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 16 | 2.46 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 12 | 2.46 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 16 | 2.46 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 9 | 2.46 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 16 | 2.46 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 16 | 2.46 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 16 | 2.46 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 19 | 2.46 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 9 | 2.46 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 9 | 2.46 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 9 | 2.46 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 17 | 2.46 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 6 | 2.46 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 6 | 2.46 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 6 | 2.46 |
| (1,5055) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 7 | 2.46 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 7 | 2.46 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 1 | 2.46 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 19 | 2.46 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 11 | 2.46 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 20 | 2.46 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 20 | 2.46 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 20 | 2.46 |
| (1,4827) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 9 | 2.46 |
| (1,4827) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 9 | 2.46 |
| (1,4827) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 9 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 11 | 2.46 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 11 | 2.46 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 11 | 2.46 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 11 | 2.46 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 11 | 2.46 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 11 | 2.46 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 11 | 2.46 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 11 | 2.46 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 11 | 2.46 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 20 | 2.46 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 9 | 2.46 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 9 | 2.46 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 8 | 2.46 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 8 | 2.46 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 8 | 2.46 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 8 | 2.46 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 8 | 2.46 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 8 | 2.46 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 18 | 2.46 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 18 | 2.46 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 18 | 2.46 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 18 | 2.46 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 18 | 2.46 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 18 | 2.46 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 16 | 2.46 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 16 | 2.46 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 16 | 2.46 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 16 | 2.46 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 16 | 2.46 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 16 | 2.46 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 3 | 2.46 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 3 | 2.46 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 3 | 2.46 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 1 | 2.46 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 1 | 2.46 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 1 | 2.46 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 1 | 2.46 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 1 | 2.46 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 1 | 2.46 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 10 | 2.46 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 18 | 2.46 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 18 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 8 | 2.46 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 8 | 2.46 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 14 | 2.46 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 14 | 2.46 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 15 | 2.46 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 15 | 2.46 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 19 | 2.46 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 19 | 2.46 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 6 | 2.46 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 6 | 2.46 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 17 | 2.46 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 17 | 2.46 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 17 | 2.46 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 17 | 2.46 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 17 | 2.46 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 17 | 2.46 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 4 | 2.46 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 4 | 2.46 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 4 | 2.46 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 10 | 2.46 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 10 | 2.46 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 10 | 2.46 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 10 | 2.46 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 10 | 2.46 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 10 | 2.46 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 18 | 2.46 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 18 | 2.46 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 9 | 2.46 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 11 | 2.46 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 9 | 2.46 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 9 | 2.46 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 9 | 2.46 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 9 | 2.46 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 9 | 2.46 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 9 | 2.46 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 14 | 2.46 |
| (1,4070) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 14 | 2.46 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 14 | 2.46 |
| (1,4070) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 14 | 2.46 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 14 | 2.46 |
| (1,4070) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 14 | 2.46 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 13 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 13 | 2.46 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 3 | 2.46 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 14 | 2.46 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 14 | 2.46 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 3 | 2.46 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 3 | 2.46 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 20 | 2.46 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 15 | 2.46 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 15 | 2.46 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 15 | 2.46 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 15 | 2.46 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 15 | 2.46 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 15 | 2.46 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 16 | 2.46 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 16 | 2.46 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 5 | 2.46 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 5 | 2.46 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 9 | 2.46 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 9 | 2.46 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 9 | 2.46 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 9 | 2.46 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 3 | 2.46 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 3 | 2.46 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 3 | 2.46 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 3 | 2.46 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 19 | 2.46 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 4 | 2.46 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 12 | 2.46 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 12 | 2.46 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 12 | 2.46 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 12 | 2.46 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 19 | 2.46 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 19 | 2.46 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 7 | 2.46 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 7 | 2.46 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 5 | 2.46 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 5 | 2.46 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 12 | 2.46 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 13 | 2.46 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 13 | 2.46 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 2.46 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 15 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 15 | 2.46 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 3 | 2.46 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 5 | 2.46 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 10 | 2.46 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 15 | 2.46 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 15 | 2.46 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 3 | 2.46 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 3 | 2.46 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 11 | 2.46 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 2 | 2.46 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 4 | 2.46 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 20 | 2.46 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 12 | 2.46 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 12 | 2.46 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 12 | 2.46 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 11 | 2.46 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 19 | 2.46 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 16 | 2.46 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 16 | 2.46 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 9 | 2.46 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 9 | 2.46 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 14 | 2.46 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 18 | 2.46 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 9 | 2.46 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 9 | 2.46 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 14 | 2.46 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 14 | 2.46 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 18 | 2.46 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 6 | 2.46 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 6 | 2.46 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 6 | 2.46 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 5 | 2.46 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 13 | 2.46 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 19 | 2.46 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 19 | 2.46 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 19 | 2.46 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 8 | 2.46 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 8 | 2.46 |
| (1,2878) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 8 | 2.46 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 4 | 2.46 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 4 | 2.46 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 4 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 2 | 2.46 |
| (1,2864) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 10 | 2.46 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 8 | 2.46 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 19 | 2.46 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 5 | 2.46 |
| (1,2810) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 7 | 2.46 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 16 | 2.46 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 16 | 2.46 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 8 | 2.46 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 8 | 2.46 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 13 | 2.46 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 13 | 2.46 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 13 | 2.46 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 4 | 2.46 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 6 | 2.46 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 14 | 2.46 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 14 | 2.46 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 14 | 2.46 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 14 | 2.46 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 14 | 2.46 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 14 | 2.46 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 17 | 2.46 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 15 | 2.46 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 18 | 2.46 |
| (1,2460) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 5 | 2.46 |
| (1,2458) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 17 | 2.46 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 17 | 2.46 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 12 | 2.46 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 15 | 2.46 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 12 | 2.46 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 12 | 2.46 |
| (1,2356) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 12 | 2.46 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 7 | 2.46 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 18 | 2.46 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 8 | 2.46 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 17 | 2.46 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 17 | 2.46 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 17 | 2.46 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 17 | 2.46 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 5 | 2.46 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 5 | 2.46 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 5 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 15 | 2.46 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 15 | 2.46 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 15 | 2.46 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 2.46 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 2.46 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 10 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 10 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 10 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 11 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 11 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 11 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 17 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 17 | 2.46 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 17 | 2.46 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 11 | 2.46 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 12 | 2.46 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 12 | 2.46 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 12 | 2.46 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 1 | 2.46 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 1 | 2.46 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 1 | 2.46 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 3 | 2.46 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 3 | 2.46 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 3 | 2.46 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 12 | 2.46 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 4 | 2.46 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 6 | 2.46 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 11 | 2.46 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 16 | 2.46 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 8 | 2.46 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 8 | 2.46 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 20 | 2.46 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 16 | 2.46 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 6 | 2.46 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 3 | 2.46 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 3 | 2.46 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 3 | 2.46 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 3 | 2.46 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 3 | 2.46 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 3 | 2.46 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 3 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 3 | 2.46 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 3 | 2.46 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 17 | 2.46 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 17 | 2.46 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 17 | 2.46 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 17 | 2.46 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 5 | 2.46 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 11 | 2.46 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 11 | 2.46 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 5 | 2.46 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 5 | 2.46 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 14 | 2.46 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 14 | 2.46 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 14 | 2.46 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 14 | 2.46 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 15 | 2.46 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 18 | 2.46 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 4 | 2.46 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 4 | 2.46 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 4 | 2.46 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 7 | 2.46 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 2 | 2.46 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 8 | 2.46 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 8 | 2.46 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 8 | 2.46 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 18 | 2.46 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 18 | 2.46 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 18 | 2.46 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 19 | 2.46 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 19 | 2.46 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 19 | 2.46 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 1 | 2.46 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 5 | 2.46 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 5 | 2.46 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 12 | 2.46 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 12 | 2.46 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 18 | 2.46 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 18 | 2.46 |
| (1,1216) | 1:119:A:ARG:H | 1:120:A:GLY:H | 19 | 2.46 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 19 | 2.46 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 19 | 2.46 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 8 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 19 | 2.46 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 11 | 2.46 |
| (1,1044) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 2 | 2.46 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 20 | 2.46 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 20 | 2.46 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 20 | 2.46 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 17 | 2.46 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 20 | 2.46 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 9 | 2.46 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 9 | 2.46 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 9 | 2.46 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 17 | 2.46 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 17 | 2.46 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 2 | 2.46 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 2 | 2.46 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 2 | 2.46 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 1 | 2.46 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 1 | 2.46 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 17 | 2.46 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 17 | 2.46 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 4 | 2.46 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 20 | 2.46 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 12 | 2.46 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 19 | 2.46 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 19 | 2.46 |
| (1,729) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 19 | 2.46 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 17 | 2.46 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 18 | 2.46 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 19 | 2.46 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 17 | 2.46 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 1 | 2.46 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 1 | 2.46 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 1 | 2.46 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 17 | 2.46 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 17 | 2.46 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 17 | 2.46 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 17 | 2.46 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 17 | 2.46 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 17 | 2.46 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 10 | 2.46 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 10 | 2.46 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 10 | 2.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 10 | 2.46 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 10 | 2.46 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 10 | 2.46 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 14 | 2.46 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 14 | 2.46 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 14 | 2.46 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 4 | 2.46 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 12 | 2.46 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 20 | 2.46 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 5 | 2.46 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 5 | 2.46 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 5 | 2.46 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 16 | 2.46 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 11 | 2.46 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 2 | 2.46 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 2 | 2.46 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 2 | 2.46 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 2 | 2.46 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 2 | 2.46 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 2 | 2.46 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 2 | 2.45 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 2 | 2.45 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 7 | 2.45 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 7 | 2.45 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 7 | 2.45 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 3 | 2.45 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 6 | 2.45 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 6 | 2.45 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 5 | 2.45 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 5 | 2.45 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 17 | 2.45 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 17 | 2.45 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 15 | 2.45 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 15 | 2.45 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 20 | 2.45 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 20 | 2.45 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 5 | 2.45 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 5 | 2.45 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 10 | 2.45 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 10 | 2.45 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 10 | 2.45 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 10 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 10 | 2.45 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 10 | 2.45 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 10 | 2.45 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 10 | 2.45 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 10 | 2.45 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 10 | 2.45 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 10 | 2.45 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 10 | 2.45 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 12 | 2.45 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 12 | 2.45 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 9 | 2.45 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 9 | 2.45 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 3 | 2.45 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 3 | 2.45 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 3 | 2.45 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 3 | 2.45 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 3 | 2.45 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 3 | 2.45 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 2.45 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 20 | 2.45 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 10 | 2.45 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 10 | 2.45 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 1 | 2.45 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 1 | 2.45 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 11 | 2.45 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 11 | 2.45 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 3 | 2.45 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 3 | 2.45 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 15 | 2.45 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 15 | 2.45 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 8 | 2.45 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 8 | 2.45 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 9 | 2.45 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 9 | 2.45 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 6 | 2.45 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 6 | 2.45 |
| (1,8570) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 8 | 2.45 |
| (1,8570) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 8 | 2.45 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 18 | 2.45 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 18 | 2.45 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 18 | 2.45 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 18 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 16 | 2.45 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 16 | 2.45 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 16 | 2.45 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 3 | 2.45 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 3 | 2.45 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 3 | 2.45 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 19 | 2.45 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 19 | 2.45 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 19 | 2.45 |
| (1,7784) | 1:57:A:CYS:H | 1:124:A:ALA:HA | 15 | 2.45 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 7 | 2.45 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 7 | 2.45 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 13 | 2.45 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 13 | 2.45 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 17 | 2.45 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 1 | 2.45 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 11 | 2.45 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 11 | 2.45 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 11 | 2.45 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 11 | 2.45 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 11 | 2.45 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 11 | 2.45 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 1 | 2.45 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 1 | 2.45 |
| (1,7200) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 1 | 2.45 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 15 | 2.45 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 11 | 2.45 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 12 | 2.45 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 1 | 2.45 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 1 | 2.45 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 4 | 2.45 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 4 | 2.45 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 12 | 2.45 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 12 | 2.45 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 3 | 2.45 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 19 | 2.45 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 19 | 2.45 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 15 | 2.45 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 9 | 2.45 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 17 | 2.45 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 5 | 2.45 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 5 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 5 | 2.45 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 7 | 2.45 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 7 | 2.45 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 7 | 2.45 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 16 | 2.45 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 16 | 2.45 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 16 | 2.45 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 2 | 2.45 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 12 | 2.45 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 7 | 2.45 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 7 | 2.45 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 7 | 2.45 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 20 | 2.45 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 20 | 2.45 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 20 | 2.45 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 9 | 2.45 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 18 | 2.45 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 18 | 2.45 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 10 | 2.45 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 10 | 2.45 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 10 | 2.45 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 15 | 2.45 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 7 | 2.45 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 7 | 2.45 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 7 | 2.45 |
| (1,6355) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 6 | 2.45 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 9 | 2.45 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 9 | 2.45 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 6 | 2.45 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 6 | 2.45 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 6 | 2.45 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 6 | 2.45 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 6 | 2.45 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 4 | 2.45 |
| (1,6247) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 4 | 2.45 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 3 | 2.45 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 3 | 2.45 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 3 | 2.45 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 16 | 2.45 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 16 | 2.45 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 16 | 2.45 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 18 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 18 | 2.45 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 18 | 2.45 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 12 | 2.45 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 12 | 2.45 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 12 | 2.45 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 1 | 2.45 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 1 | 2.45 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 1 | 2.45 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 3 | 2.45 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 13 | 2.45 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 5 | 2.45 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 5 | 2.45 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 5 | 2.45 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 13 | 2.45 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 10 | 2.45 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 10 | 2.45 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 10 | 2.45 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 10 | 2.45 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 15 | 2.45 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 15 | 2.45 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 15 | 2.45 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 15 | 2.45 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 15 | 2.45 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 15 | 2.45 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 15 | 2.45 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 15 | 2.45 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 15 | 2.45 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 19 | 2.45 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 19 | 2.45 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 19 | 2.45 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 19 | 2.45 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 19 | 2.45 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 19 | 2.45 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 13 | 2.45 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 13 | 2.45 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 16 | 2.45 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 16 | 2.45 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 8 | 2.45 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 12 | 2.45 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 6 | 2.45 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 10 | 2.45 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 10 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 10 | 2.45 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 7 | 2.45 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 7 | 2.45 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 7 | 2.45 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 7 | 2.45 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 7 | 2.45 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 7 | 2.45 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 20 | 2.45 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 11 | 2.45 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 4 | 2.45 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 4 | 2.45 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 4 | 2.45 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 4 | 2.45 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 4 | 2.45 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 4 | 2.45 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 4 | 2.45 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 4 | 2.45 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 4 | 2.45 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 11 | 2.45 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 11 | 2.45 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 11 | 2.45 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 17 | 2.45 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 2 | 2.45 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 10 | 2.45 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 20 | 2.45 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 20 | 2.45 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 20 | 2.45 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 7 | 2.45 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 7 | 2.45 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 7 | 2.45 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 17 | 2.45 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 3 | 2.45 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 17 | 2.45 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 7 | 2.45 |
| (1,5112) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 10 | 2.45 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 5 | 2.45 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 5 | 2.45 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 5 | 2.45 |
| (1,5040) | 1:72:A:SER:H | 1:76:A:GLU:HA | 19 | 2.45 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 8 | 2.45 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 11 | 2.45 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 10 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 10 | 2.45 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 10 | 2.45 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 10 | 2.45 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 10 | 2.45 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 10 | 2.45 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 10 | 2.45 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 10 | 2.45 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 10 | 2.45 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 10 | 2.45 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 10 | 2.45 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 10 | 2.45 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 10 | 2.45 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 2 | 2.45 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 4 | 2.45 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 20 | 2.45 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 20 | 2.45 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 20 | 2.45 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 1 | 2.45 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 9 | 2.45 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 5 | 2.45 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 16 | 2.45 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 16 | 2.45 |
| (1,4689) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 16 | 2.45 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 16 | 2.45 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 16 | 2.45 |
| (1,4689) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 16 | 2.45 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 5 | 2.45 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 5 | 2.45 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 2 | 2.45 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 2 | 2.45 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 2 | 2.45 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 13 | 2.45 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 13 | 2.45 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 11 | 2.45 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 11 | 2.45 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 11 | 2.45 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 2 | 2.45 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 9 | 2.45 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 14 | 2.45 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 14 | 2.45 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 15 | 2.45 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 15 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 5 | 2.45 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 6 | 2.45 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 15 | 2.45 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 15 | 2.45 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 4 | 2.45 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 4 | 2.45 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 4 | 2.45 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 4 | 2.45 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 9 | 2.45 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 9 | 2.45 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 9 | 2.45 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 9 | 2.45 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 9 | 2.45 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 9 | 2.45 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 3 | 2.45 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 3 | 2.45 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 4 | 2.45 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 4 | 2.45 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 13 | 2.45 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 15 | 2.45 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 15 | 2.45 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 5 | 2.45 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 5 | 2.45 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 12 | 2.45 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 12 | 2.45 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 12 | 2.45 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 12 | 2.45 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 13 | 2.45 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 9 | 2.45 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 9 | 2.45 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 9 | 2.45 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 20 | 2.45 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 20 | 2.45 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 20 | 2.45 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 20 | 2.45 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 20 | 2.45 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 20 | 2.45 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 15 | 2.45 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 15 | 2.45 |
| (1,4150) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 4 | 2.45 |
| (1,4150) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 4 | 2.45 |
| (1,4150) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 4 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 3 | 2.45 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 3 | 2.45 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 3 | 2.45 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 3 | 2.45 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 3 | 2.45 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 3 | 2.45 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 12 | 2.45 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 12 | 2.45 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 11 | 2.45 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 11 | 2.45 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 9 | 2.45 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 9 | 2.45 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 3 | 2.45 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 3 | 2.45 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 3 | 2.45 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 3 | 2.45 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 3 | 2.45 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 3 | 2.45 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 2.45 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 20 | 2.45 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 17 | 2.45 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 1 | 2.45 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 1 | 2.45 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 2.45 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 5 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 5 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 5 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 5 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 16 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 16 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 16 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 16 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 19 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 19 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 19 | 2.45 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 19 | 2.45 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 15 | 2.45 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 15 | 2.45 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 15 | 2.45 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 15 | 2.45 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 9 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 9 | 2.45 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 9 | 2.45 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 9 | 2.45 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 9 | 2.45 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 9 | 2.45 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 19 | 2.45 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 19 | 2.45 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 19 | 2.45 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 19 | 2.45 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 19 | 2.45 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 19 | 2.45 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 2.45 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 2.45 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 2.45 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 2.45 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 2.45 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 2.45 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 9 | 2.45 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 9 | 2.45 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 17 | 2.45 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 17 | 2.45 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 17 | 2.45 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 17 | 2.45 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 17 | 2.45 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 10 | 2.45 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 10 | 2.45 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 17 | 2.45 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 17 | 2.45 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 7 | 2.45 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 19 | 2.45 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 1 | 2.45 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 1 | 2.45 |
| (1,3358) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 1 | 2.45 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 19 | 2.45 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 19 | 2.45 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 13 | 2.45 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 8 | 2.45 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 15 | 2.45 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 7 | 2.45 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 11 | 2.45 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 12 | 2.45 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 6 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 19 | 2.45 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 8 | 2.45 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 8 | 2.45 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 1 | 2.45 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 1 | 2.45 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 4 | 2.45 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 4 | 2.45 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 12 | 2.45 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 12 | 2.45 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 15 | 2.45 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 9 | 2.45 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 17 | 2.45 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 5 | 2.45 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 5 | 2.45 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 11 | 2.45 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 11 | 2.45 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 16 | 2.45 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 16 | 2.45 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 5 | 2.45 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 5 | 2.45 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 5 | 2.45 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 7 | 2.45 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 7 | 2.45 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 7 | 2.45 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 7 | 2.45 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 16 | 2.45 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 16 | 2.45 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 16 | 2.45 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 15 | 2.45 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 15 | 2.45 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 15 | 2.45 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 15 | 2.45 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 15 | 2.45 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 15 | 2.45 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 3 | 2.45 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 3 | 2.45 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 2 | 2.45 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 2 | 2.45 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 7 | 2.45 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 12 | 2.45 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 12 | 2.45 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 1 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 1 | 2.45 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 7 | 2.45 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 7 | 2.45 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 7 | 2.45 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 20 | 2.45 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 20 | 2.45 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 20 | 2.45 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 12 | 2.45 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 12 | 2.45 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 12 | 2.45 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 7 | 2.45 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 7 | 2.45 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 7 | 2.45 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 20 | 2.45 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 20 | 2.45 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 20 | 2.45 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 3 | 2.45 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 1 | 2.45 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 9 | 2.45 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 18 | 2.45 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 8 | 2.45 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 14 | 2.45 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 14 | 2.45 |
| (1,2214) | 1:162:A:THR:HA | 1:162:A:THR:HB | 12 | 2.45 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 18 | 2.45 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 10 | 2.45 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 10 | 2.45 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 10 | 2.45 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 15 | 2.45 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 7 | 2.45 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 7 | 2.45 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 7 | 2.45 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 3 | 2.45 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 4 | 2.45 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 4 | 2.45 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 4 | 2.45 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 1 | 2.45 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 1 | 2.45 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 1 | 2.45 |
| (1,2036) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 6 | 2.45 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 9 | 2.45 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 9 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 6 | 2.45 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 6 | 2.45 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 6 | 2.45 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 1 | 2.45 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 1 | 2.45 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 1 | 2.45 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 4 | 2.45 |
| (1,1900) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 4 | 2.45 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 19 | 2.45 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 8 | 2.45 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 8 | 2.45 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 8 | 2.45 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 11 | 2.45 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 16 | 2.45 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 3 | 2.45 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 3 | 2.45 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 3 | 2.45 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 16 | 2.45 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 16 | 2.45 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 16 | 2.45 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 18 | 2.45 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 15 | 2.45 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 15 | 2.45 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 15 | 2.45 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 1 | 2.45 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 1 | 2.45 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 1 | 2.45 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 18 | 2.45 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 13 | 2.45 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 5 | 2.45 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 5 | 2.45 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 5 | 2.45 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 1 | 2.45 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 1 | 2.45 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 7 | 2.45 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 7 | 2.45 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 19 | 2.45 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 13 | 2.45 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 7 | 2.45 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 10 | 2.45 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 17 | 2.45 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 13 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 2 | 2.45 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 2 | 2.45 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 15 | 2.45 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 15 | 2.45 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 10 | 2.45 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 12 | 2.45 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 12 | 2.45 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 12 | 2.45 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 11 | 2.45 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 11 | 2.45 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 15 | 2.45 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 15 | 2.45 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 15 | 2.45 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 15 | 2.45 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 15 | 2.45 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 15 | 2.45 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 15 | 2.45 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 15 | 2.45 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 15 | 2.45 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 12 | 2.45 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 12 | 2.45 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 12 | 2.45 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 12 | 2.45 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 12 | 2.45 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 12 | 2.45 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 12 | 2.45 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 12 | 2.45 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 12 | 2.45 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 4 | 2.45 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 4 | 2.45 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 4 | 2.45 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 9 | 2.45 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 9 | 2.45 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 9 | 2.45 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 19 | 2.45 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 19 | 2.45 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 19 | 2.45 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 19 | 2.45 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 19 | 2.45 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 19 | 2.45 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 2 | 2.45 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 2 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 14 | 2.45 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 14 | 2.45 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 20 | 2.45 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 20 | 2.45 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 13 | 2.45 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 13 | 2.45 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 16 | 2.45 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 16 | 2.45 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 10 | 2.45 |
| (1,1097) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 10 | 2.45 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 10 | 2.45 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 8 | 2.45 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 9 | 2.45 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 8 | 2.45 |
| (1,910) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 13 | 2.45 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 11 | 2.45 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 19 | 2.45 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 20 | 2.45 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 20 | 2.45 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 20 | 2.45 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 16 | 2.45 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 16 | 2.45 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 16 | 2.45 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 16 | 2.45 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 20 | 2.45 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 8 | 2.45 |
| (1,734) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 8 | 2.45 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 12 | 2.45 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 6 | 2.45 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 10 | 2.45 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 10 | 2.45 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 10 | 2.45 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 7 | 2.45 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 7 | 2.45 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 7 | 2.45 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 7 | 2.45 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 7 | 2.45 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 7 | 2.45 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 15 | 2.45 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 15 | 2.45 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 15 | 2.45 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 20 | 2.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 16 | 2.45 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 16 | 2.45 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 16 | 2.45 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 16 | 2.45 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 16 | 2.45 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 16 | 2.45 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 12 | 2.45 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 12 | 2.45 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 12 | 2.45 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 12 | 2.45 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 12 | 2.45 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 12 | 2.45 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 15 | 2.45 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 15 | 2.45 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 15 | 2.45 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 13 | 2.45 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 13 | 2.45 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 13 | 2.45 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 2 | 2.45 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 2 | 2.45 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 2 | 2.45 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 10 | 2.45 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 2.45 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 2.45 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 2.45 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 5 | 2.44 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 2 | 2.44 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 2 | 2.44 |
| (3,64) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 10 | 2.44 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 13 | 2.44 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 2.44 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 9 | 2.44 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 9 | 2.44 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 10 | 2.44 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 10 | 2.44 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 1 | 2.44 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 1 | 2.44 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 4 | 2.44 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 4 | 2.44 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 5 | 2.44 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 5 | 2.44 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 10 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 10 | 2.44 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 16 | 2.44 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 16 | 2.44 |
| (1,9268) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 12 | 2.44 |
| (1,9268) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 12 | 2.44 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 17 | 2.44 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 17 | 2.44 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 5 | 2.44 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 5 | 2.44 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 12 | 2.44 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 12 | 2.44 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 2 | 2.44 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 2 | 2.44 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 6 | 2.44 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 6 | 2.44 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 16 | 2.44 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 16 | 2.44 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 11 | 2.44 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 11 | 2.44 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 18 | 2.44 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 18 | 2.44 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 18 | 2.44 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 18 | 2.44 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 1 | 2.44 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 1 | 2.44 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 7 | 2.44 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 7 | 2.44 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 19 | 2.44 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 19 | 2.44 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 18 | 2.44 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 18 | 2.44 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 1 | 2.44 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 1 | 2.44 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 19 | 2.44 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 19 | 2.44 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 18 | 2.44 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 18 | 2.44 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG21 | 10 | 2.44 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG22 | 10 | 2.44 |
| (1,8818) | 1:58:A:SER:HB2 | 1:162:A:THR:HG23 | 10 | 2.44 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG21 | 10 | 2.44 |
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG22 | 10 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8818) | 1:58:A:SER:HB3 | 1:162:A:THR:HG23 | 10 | 2.44 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 7 | 2.44 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 7 | 2.44 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 12 | 2.44 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 12 | 2.44 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 18 | 2.44 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 18 | 2.44 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 18 | 2.44 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 18 | 2.44 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 18 | 2.44 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 18 | 2.44 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 18 | 2.44 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 18 | 2.44 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 18 | 2.44 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 4 | 2.44 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 4 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 8 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 8 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 8 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 8 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 8 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 8 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 8 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 8 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 8 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 17 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 17 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 17 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 17 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 17 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 17 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 17 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 17 | 2.44 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 17 | 2.44 |
| (1,7869) | 1:62:A:VAL:H | 1:157:A:HIS:HA | 20 | 2.44 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD11 | 2 | 2.44 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD12 | 2 | 2.44 |
| (1,7859) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HD13 | 2 | 2.44 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD11 | 2 | 2.44 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD12 | 2 | 2.44 |
| (1,7859) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HD13 | 2 | 2.44 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD11 | 2 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD12 | 2 | 2.44 |
| (1,7859) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HD13 | 2 | 2.44 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 8 | 2.44 |
| (1,7594) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HA | 20 | 2.44 |
| (1,7594) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HA | 20 | 2.44 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 3 | 2.44 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 8 | 2.44 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 20 | 2.44 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 3 | 2.44 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 9 | 2.44 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 9 | 2.44 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 17 | 2.44 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 17 | 2.44 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 18 | 2.44 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 18 | 2.44 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 19 | 2.44 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 4 | 2.44 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 4 | 2.44 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 16 | 2.44 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 17 | 2.44 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 2 | 2.44 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 2 | 2.44 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 2 | 2.44 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 7 | 2.44 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 7 | 2.44 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 7 | 2.44 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 4 | 2.44 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 15 | 2.44 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 16 | 2.44 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 10 | 2.44 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 10 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 6 | 2.44 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 17 | 2.44 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 13 | 2.44 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 13 | 2.44 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 13 | 2.44 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 13 | 2.44 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 15 | 2.44 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 15 | 2.44 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 15 | 2.44 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 12 | 2.44 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 20 | 2.44 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 11 | 2.44 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 9 | 2.44 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 9 | 2.44 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 9 | 2.44 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 9 | 2.44 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 9 | 2.44 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 9 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 14 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 14 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 14 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 15 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 15 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 15 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 16 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 16 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 16 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 20 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 20 | 2.44 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 20 | 2.44 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 17 | 2.44 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 4 | 2.44 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 7 | 2.44 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 17 | 2.44 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 17 | 2.44 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 17 | 2.44 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 11 | 2.44 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 11 | 2.44 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 11 | 2.44 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 16 | 2.44 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 16 | 2.44 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 16 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 11 | 2.44 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 11 | 2.44 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 19 | 2.44 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 19 | 2.44 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 15 | 2.44 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 15 | 2.44 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 15 | 2.44 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 7 | 2.44 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 7 | 2.44 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 7 | 2.44 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 7 | 2.44 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 7 | 2.44 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 7 | 2.44 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 2 | 2.44 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 5 | 2.44 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 4 | 2.44 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 5 | 2.44 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 5 | 2.44 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 5 | 2.44 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 17 | 2.44 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 17 | 2.44 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 17 | 2.44 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 2 | 2.44 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 2 | 2.44 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 2 | 2.44 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 2 | 2.44 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 2 | 2.44 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 2 | 2.44 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 6 | 2.44 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 10 | 2.44 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 14 | 2.44 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 14 | 2.44 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 14 | 2.44 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 14 | 2.44 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 3 | 2.44 |
| (1,5924) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 3 | 2.44 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 10 | 2.44 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 13 | 2.44 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 16 | 2.44 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 7 | 2.44 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 11 | 2.44 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 6 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 6 | 2.44 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 16 | 2.44 |
| (1,5555) | 1:97:A:LYS:H | 1:98:A:SER:H | 9 | 2.44 |
| (1,5542) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 19 | 2.44 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 8 | 2.44 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 8 | 2.44 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 8 | 2.44 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 7 | 2.44 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 7 | 2.44 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 7 | 2.44 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 17 | 2.44 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 17 | 2.44 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 17 | 2.44 |
| (1,5443) | 1:93:A:ILE:H | 1:94:A:GLN:H | 10 | 2.44 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 8 | 2.44 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 8 | 2.44 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 8 | 2.44 |
| (1,5355) | 1:89:A:ILE:H | 1:90:A:ASN:H | 14 | 2.44 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 5 | 2.44 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 20 | 2.44 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 3 | 2.44 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 3 | 2.44 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 3 | 2.44 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 3 | 2.44 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 3 | 2.44 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 3 | 2.44 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 3 | 2.44 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 3 | 2.44 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 3 | 2.44 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 9 | 2.44 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 9 | 2.44 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 9 | 2.44 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 20 | 2.44 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 20 | 2.44 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 20 | 2.44 |
| (1,5187) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 14 | 2.44 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 6 | 2.44 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 2 | 2.44 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 2 | 2.44 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 2 | 2.44 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 15 | 2.44 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 15 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 15 | 2.44 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 7 | 2.44 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 7 | 2.44 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 7 | 2.44 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 17 | 2.44 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 17 | 2.44 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 17 | 2.44 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 3 | 2.44 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 3 | 2.44 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 3 | 2.44 |
| (1,5038) | 1:76:A:GLU:H | 1:77:A:LYS:H | 2 | 2.44 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 17 | 2.44 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 5 | 2.44 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 9 | 2.44 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 16 | 2.44 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 17 | 2.44 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 19 | 2.44 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 7 | 2.44 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 9 | 2.44 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 8 | 2.44 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 8 | 2.44 |
| (1,4914) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 8 | 2.44 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 9 | 2.44 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 19 | 2.44 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 9 | 2.44 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 12 | 2.44 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 17 | 2.44 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 12 | 2.44 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 12 | 2.44 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 12 | 2.44 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 2 | 2.44 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 4 | 2.44 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 4 | 2.44 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 4 | 2.44 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 4 | 2.44 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 4 | 2.44 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 4 | 2.44 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 9 | 2.44 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 19 | 2.44 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 19 | 2.44 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 19 | 2.44 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 13 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 2.44 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 4 | 2.44 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 4 | 2.44 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 7 | 2.44 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 9 | 2.44 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 9 | 2.44 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 2 | 2.44 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 10 | 2.44 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 10 | 2.44 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 10 | 2.44 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 10 | 2.44 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 10 | 2.44 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 10 | 2.44 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 1 | 2.44 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 1 | 2.44 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 1 | 2.44 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 1 | 2.44 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 5 | 2.44 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 11 | 2.44 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 11 | 2.44 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 16 | 2.44 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 16 | 2.44 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 9 | 2.44 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 9 | 2.44 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 9 | 2.44 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 9 | 2.44 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 9 | 2.44 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 9 | 2.44 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 1 | 2.44 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 10 | 2.44 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 10 | 2.44 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 17 | 2.44 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 17 | 2.44 |
| (1,4270) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 17 | 2.44 |
| (1,4262) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 12 | 2.44 |
| (1,4262) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 12 | 2.44 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 6 | 2.44 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 6 | 2.44 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 8 | 2.44 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 2 | 2.44 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 2 | 2.44 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 2 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 2 | 2.44 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 2 | 2.44 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 2 | 2.44 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 3 | 2.44 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 3 | 2.44 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 3 | 2.44 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 14 | 2.44 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 14 | 2.44 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 14 | 2.44 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 2 | 2.44 |
| (1,4086) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 2 | 2.44 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 2 | 2.44 |
| (1,4086) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 2 | 2.44 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 2 | 2.44 |
| (1,4086) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 2 | 2.44 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 17 | 2.44 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 12 | 2.44 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 12 | 2.44 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 7 | 2.44 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 7 | 2.44 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 18 | 2.44 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 18 | 2.44 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 2 | 2.44 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 2 | 2.44 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 6 | 2.44 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 6 | 2.44 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 16 | 2.44 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 16 | 2.44 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 9 | 2.44 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 9 | 2.44 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 9 | 2.44 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 9 | 2.44 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 9 | 2.44 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 9 | 2.44 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 16 | 2.44 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 18 | 2.44 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 18 | 2.44 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 16 | 2.44 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 16 | 2.44 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 2 | 2.44 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 2 | 2.44 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 2 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 2 | 2.44 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 17 | 2.44 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 17 | 2.44 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 17 | 2.44 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 17 | 2.44 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 11 | 2.44 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 11 | 2.44 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 19 | 2.44 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 19 | 2.44 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 17 | 2.44 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 5 | 2.44 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 5 | 2.44 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 5 | 2.44 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 5 | 2.44 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 5 | 2.44 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 5 | 2.44 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 8 | 2.44 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 8 | 2.44 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 8 | 2.44 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 9 | 2.44 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 9 | 2.44 |
| (1,3795) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 19 | 2.44 |
| (1,3773) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 19 | 2.44 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 2 | 2.44 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 2 | 2.44 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 16 | 2.44 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 16 | 2.44 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 15 | 2.44 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 11 | 2.44 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 11 | 2.44 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 17 | 2.44 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 17 | 2.44 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 4 | 2.44 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 4 | 2.44 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 20 | 2.44 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 20 | 2.44 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 5 | 2.44 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 5 | 2.44 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 19 | 2.44 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 19 | 2.44 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 19 | 2.44 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 19 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 18 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 2 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 2 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 2 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 2 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 2 | 2.44 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 2 | 2.44 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 13 | 2.44 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 17 | 2.44 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 17 | 2.44 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 4 | 2.44 |
| (1,3502) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 4 | 2.44 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 6 | 2.44 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 12 | 2.44 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 4 | 2.44 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 14 | 2.44 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 6 | 2.44 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 6 | 2.44 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 6 | 2.44 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 14 | 2.44 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 14 | 2.44 |
| (1,3252) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 4 | 2.44 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 1 | 2.44 |
| (1,3250) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 7 | 2.44 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 13 | 2.44 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 7 | 2.44 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 7 | 2.44 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 7 | 2.44 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 17 | 2.44 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 17 | 2.44 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 17 | 2.44 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 16 | 2.44 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 16 | 2.44 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 8 | 2.44 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 14 | 2.44 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 9 | 2.44 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 9 | 2.44 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 17 | 2.44 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 17 | 2.44 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 19 | 2.44 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 4 | 2.44 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 4 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 7 | 2.44 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 7 | 2.44 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 10 | 2.44 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 10 | 2.44 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 18 | 2.44 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 18 | 2.44 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 16 | 2.44 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 17 | 2.44 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 2 | 2.44 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 2 | 2.44 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 2 | 2.44 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 7 | 2.44 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 7 | 2.44 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 7 | 2.44 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 4 | 2.44 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 10 | 2.44 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 10 | 2.44 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 10 | 2.44 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 15 | 2.44 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 16 | 2.44 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 10 | 2.44 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 16 | 2.44 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 16 | 2.44 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 16 | 2.44 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 16 | 2.44 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 16 | 2.44 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 16 | 2.44 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 19 | 2.44 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 19 | 2.44 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 19 | 2.44 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 19 | 2.44 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 19 | 2.44 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 19 | 2.44 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 5 | 2.44 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 5 | 2.44 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 19 | 2.44 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 19 | 2.44 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 8 | 2.44 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 8 | 2.44 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 19 | 2.44 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 19 | 2.44 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 19 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 2 | 2.44 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 2 | 2.44 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 6 | 2.44 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 7 | 2.44 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 10 | 2.44 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 6 | 2.44 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 17 | 2.44 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 7 | 2.44 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 7 | 2.44 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 13 | 2.44 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 13 | 2.44 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 13 | 2.44 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 13 | 2.44 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 9 | 2.44 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 9 | 2.44 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 6 | 2.44 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 6 | 2.44 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 20 | 2.44 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 20 | 2.44 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 15 | 2.44 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 15 | 2.44 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 15 | 2.44 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 12 | 2.44 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 20 | 2.44 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 2 | 2.44 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 2 | 2.44 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 2 | 2.44 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 2 | 2.44 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 2 | 2.44 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 2 | 2.44 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 11 | 2.44 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 1 | 2.44 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 16 | 2.44 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 3 | 2.44 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 18 | 2.44 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 9 | 2.44 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 9 | 2.44 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 9 | 2.44 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 3 | 2.44 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 1 | 2.44 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 1 | 2.44 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 1 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 3 | 2.44 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 9 | 2.44 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 9 | 2.44 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 9 | 2.44 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 5 | 2.44 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 5 | 2.44 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 5 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 14 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 14 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 14 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 15 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 15 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 15 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 16 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 16 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 16 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 20 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 20 | 2.44 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 20 | 2.44 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 6 | 2.44 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 17 | 2.44 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 16 | 2.44 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 16 | 2.44 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 16 | 2.44 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 4 | 2.44 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 7 | 2.44 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 6 | 2.44 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 6 | 2.44 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 6 | 2.44 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 1 | 2.44 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 10 | 2.44 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 17 | 2.44 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 7 | 2.44 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 7 | 2.44 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 7 | 2.44 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 17 | 2.44 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 17 | 2.44 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 17 | 2.44 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 8 | 2.44 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 8 | 2.44 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 8 | 2.44 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 11 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 11 | 2.44 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 11 | 2.44 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 16 | 2.44 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 16 | 2.44 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 16 | 2.44 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 4 | 2.44 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 4 | 2.44 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 4 | 2.44 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 12 | 2.44 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 7 | 2.44 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 7 | 2.44 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 7 | 2.44 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 7 | 2.44 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 7 | 2.44 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 7 | 2.44 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 11 | 2.44 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 2 | 2.44 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 5 | 2.44 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 4 | 2.44 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 2.44 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 5 | 2.44 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 5 | 2.44 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 5 | 2.44 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 17 | 2.44 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 17 | 2.44 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 17 | 2.44 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 2 | 2.44 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 2 | 2.44 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 2 | 2.44 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 2 | 2.44 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 2 | 2.44 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 2 | 2.44 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 13 | 2.44 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 13 | 2.44 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 13 | 2.44 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 6 | 2.44 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 10 | 2.44 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 14 | 2.44 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 14 | 2.44 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 14 | 2.44 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 14 | 2.44 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 2 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 20 | 2.44 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 12 | 2.44 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 18 | 2.44 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 2 | 2.44 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 2 | 2.44 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 2 | 2.44 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 4 | 2.44 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 4 | 2.44 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 20 | 2.44 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 20 | 2.44 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 8 | 2.44 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 2 | 2.44 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 2 | 2.44 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 3 | 2.44 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 9 | 2.44 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 20 | 2.44 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 11 | 2.44 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 11 | 2.44 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 2 | 2.44 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 2 | 2.44 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 2 | 2.44 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 3 | 2.44 |
| (1,1348) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 3 | 2.44 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 10 | 2.44 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 13 | 2.44 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 16 | 2.44 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 8 | 2.44 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 8 | 2.44 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 7 | 2.44 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 19 | 2.44 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 19 | 2.44 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 11 | 2.44 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 6 | 2.44 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 6 | 2.44 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 17 | 2.44 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 17 | 2.44 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 17 | 2.44 |
| (1,1058) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 2 | 2.44 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 1 | 2.44 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 16 | 2.44 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 19 | 2.44 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 18 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 18 | 2.44 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 18 | 2.44 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 11 | 2.44 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 11 | 2.44 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 11 | 2.44 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 12 | 2.44 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 12 | 2.44 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 4 | 2.44 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 4 | 2.44 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 6 | 2.44 |
| (1,718) | 1:97:A:LYS:H | 1:98:A:SER:H | 9 | 2.44 |
| (1,702) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 19 | 2.44 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 8 | 2.44 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 8 | 2.44 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 8 | 2.44 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 7 | 2.44 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 7 | 2.44 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 7 | 2.44 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 15 | 2.44 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 17 | 2.44 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 17 | 2.44 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 17 | 2.44 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 14 | 2.44 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 14 | 2.44 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 14 | 2.44 |
| (1,536) | 1:93:A:ILE:H | 1:94:A:GLN:H | 10 | 2.44 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 4 | 2.44 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 4 | 2.44 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 4 | 2.44 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 11 | 2.44 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 11 | 2.44 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 11 | 2.44 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 16 | 2.44 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 18 | 2.44 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 18 | 2.44 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 18 | 2.44 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 15 | 2.44 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 19 | 2.44 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 14 | 2.44 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 14 | 2.44 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 15 | 2.44 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 15 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 8 | 2.44 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 11 | 2.44 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 11 | 2.44 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 11 | 2.44 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 9 | 2.44 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 10 | 2.44 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 10 | 2.44 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 10 | 2.44 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 4 | 2.44 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 13 | 2.43 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 17 | 2.43 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 9 | 2.43 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 11 | 2.43 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 11 | 2.43 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 11 | 2.43 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 11 | 2.43 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 11 | 2.43 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 11 | 2.43 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 13 | 2.43 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 13 | 2.43 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 17 | 2.43 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 17 | 2.43 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 17 | 2.43 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 17 | 2.43 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 17 | 2.43 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 17 | 2.43 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 9 | 2.43 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 9 | 2.43 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 17 | 2.43 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 17 | 2.43 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 2 | 2.43 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 2 | 2.43 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 13 | 2.43 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 13 | 2.43 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 16 | 2.43 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 16 | 2.43 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 2 | 2.43 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 2 | 2.43 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 1 | 2.43 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 1 | 2.43 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 6 | 2.43 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 6 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 19 | 2.43 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 19 | 2.43 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 19 | 2.43 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 19 | 2.43 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 19 | 2.43 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 19 | 2.43 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 7 | 2.43 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 7 | 2.43 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 7 | 2.43 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 7 | 2.43 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 13 | 2.43 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 13 | 2.43 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 20 | 2.43 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 20 | 2.43 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 14 | 2.43 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 14 | 2.43 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 19 | 2.43 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 19 | 2.43 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 14 | 2.43 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 14 | 2.43 |
| (1,9084) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 18 | 2.43 |
| (1,9084) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 18 | 2.43 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 7 | 2.43 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 7 | 2.43 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 19 | 2.43 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 19 | 2.43 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 5 | 2.43 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 5 | 2.43 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 5 | 2.43 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 5 | 2.43 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 12 | 2.43 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 12 | 2.43 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 6 | 2.43 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 6 | 2.43 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 6 | 2.43 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 6 | 2.43 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 1 | 2.43 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 1 | 2.43 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 1 | 2.43 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 1 | 2.43 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 9 | 2.43 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 4 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 4 | 2.43 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 4 | 2.43 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 19 | 2.43 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 7 | 2.43 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 7 | 2.43 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 7 | 2.43 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 7 | 2.43 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 7 | 2.43 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 7 | 2.43 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE1 | 16 | 2.43 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE2 | 16 | 2.43 |
| (1,8319) | 1:130:A:MET:HA | 1:130:A:MET:HE3 | 16 | 2.43 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 9 | 2.43 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 9 | 2.43 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 17 | 2.43 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 17 | 2.43 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 17 | 2.43 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 1 | 2.43 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 6 | 2.43 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 4 | 2.43 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 19 | 2.43 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 19 | 2.43 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 19 | 2.43 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 19 | 2.43 |
| (1,7889) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 12 | 2.43 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 7 | 2.43 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 12 | 2.43 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 12 | 2.43 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 12 | 2.43 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 12 | 2.43 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 12 | 2.43 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 12 | 2.43 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 12 | 2.43 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 12 | 2.43 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 12 | 2.43 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 4 | 2.43 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 1 | 2.43 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 2 | 2.43 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 19 | 2.43 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 16 | 2.43 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 16 | 2.43 |
| (1,7258) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 16 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 16 | 2.43 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 16 | 2.43 |
| (1,7258) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 16 | 2.43 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 16 | 2.43 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 16 | 2.43 |
| (1,7258) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 16 | 2.43 |
| (1,7248) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 18 | 2.43 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 15 | 2.43 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 3 | 2.43 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 3 | 2.43 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 11 | 2.43 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 11 | 2.43 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 11 | 2.43 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 2 | 2.43 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 9 | 2.43 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 4 | 2.43 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 16 | 2.43 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 16 | 2.43 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 16 | 2.43 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 10 | 2.43 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 10 | 2.43 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 10 | 2.43 |
| (1,6868) | 1:28:A:ILE:H | 1:30:A:ASN:H | 13 | 2.43 |
| (1,6794) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 17 | 2.43 |
| (1,6794) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 17 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 20 | 2.43 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 20 | 2.43 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 7 | 2.43 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 7 | 2.43 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 7 | 2.43 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 16 | 2.43 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 16 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 16 | 2.43 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 2 | 2.43 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 13 | 2.43 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 13 | 2.43 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 13 | 2.43 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 13 | 2.43 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 13 | 2.43 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 13 | 2.43 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 19 | 2.43 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 19 | 2.43 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 5 | 2.43 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 15 | 2.43 |
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 18 | 2.43 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 12 | 2.43 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 12 | 2.43 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 12 | 2.43 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 17 | 2.43 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 17 | 2.43 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 17 | 2.43 |
| (1,6594) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 20 | 2.43 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 4 | 2.43 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 11 | 2.43 |
| (1,6489) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 10 | 2.43 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 17 | 2.43 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 17 | 2.43 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 17 | 2.43 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 2 | 2.43 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 2 | 2.43 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 2 | 2.43 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 7 | 2.43 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 4 | 2.43 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 4 | 2.43 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 4 | 2.43 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 5 | 2.43 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 5 | 2.43 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 5 | 2.43 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 18 | 2.43 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 18 | 2.43 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 8 | 2.43 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 8 | 2.43 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 8 | 2.43 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 5 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 12 | 2.43 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 6 | 2.43 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 10 | 2.43 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 10 | 2.43 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 10 | 2.43 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 14 | 2.43 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 14 | 2.43 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 14 | 2.43 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 11 | 2.43 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 7 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 3 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 3 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 3 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 7 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 7 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 7 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 11 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 11 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 11 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 15 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 15 | 2.43 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 15 | 2.43 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 6 | 2.43 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 6 | 2.43 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 6 | 2.43 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 6 | 2.43 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 6 | 2.43 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 6 | 2.43 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 6 | 2.43 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 6 | 2.43 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 6 | 2.43 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 12 | 2.43 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 12 | 2.43 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 12 | 2.43 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 19 | 2.43 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 19 | 2.43 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 19 | 2.43 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 4 | 2.43 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 4 | 2.43 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 16 | 2.43 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 16 | 2.43 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 11 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 11 | 2.43 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 11 | 2.43 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 13 | 2.43 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 13 | 2.43 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 13 | 2.43 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 13 | 2.43 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 13 | 2.43 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 13 | 2.43 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 4 | 2.43 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 3 | 2.43 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 11 | 2.43 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 20 | 2.43 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 14 | 2.43 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 8 | 2.43 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 8 | 2.43 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 15 | 2.43 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 15 | 2.43 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 15 | 2.43 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 17 | 2.43 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 3 | 2.43 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 3 | 2.43 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 5 | 2.43 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 9 | 2.43 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 9 | 2.43 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 4 | 2.43 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 14 | 2.43 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 4 | 2.43 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 5 | 2.43 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 8 | 2.43 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 2 | 2.43 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 2 | 2.43 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 2 | 2.43 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 18 | 2.43 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 18 | 2.43 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 18 | 2.43 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 13 | 2.43 |
| (1,5310) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 14 | 2.43 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 20 | 2.43 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 20 | 2.43 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 20 | 2.43 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 20 | 2.43 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 20 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 20 | 2.43 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 20 | 2.43 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 20 | 2.43 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 20 | 2.43 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 19 | 2.43 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 19 | 2.43 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 19 | 2.43 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 8 | 2.43 |
| (1,5152) | 1:82:A:LYS:H | 1:83:A:GLU:H | 16 | 2.43 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 8 | 2.43 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 8 | 2.43 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 8 | 2.43 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 5 | 2.43 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 5 | 2.43 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 5 | 2.43 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 7 | 2.43 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 7 | 2.43 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 7 | 2.43 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 16 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 10 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 10 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 10 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 15 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 15 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 15 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 17 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 17 | 2.43 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 17 | 2.43 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 4 | 2.43 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 6 | 2.43 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 9 | 2.43 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 19 | 2.43 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 15 | 2.43 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 15 | 2.43 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 15 | 2.43 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 14 | 2.43 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 14 | 2.43 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 14 | 2.43 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 14 | 2.43 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 14 | 2.43 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 14 | 2.43 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 19 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 19 | 2.43 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 19 | 2.43 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 19 | 2.43 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 19 | 2.43 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 19 | 2.43 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 19 | 2.43 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 19 | 2.43 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 19 | 2.43 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 17 | 2.43 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 17 | 2.43 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 17 | 2.43 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 16 | 2.43 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 14 | 2.43 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 14 | 2.43 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 19 | 2.43 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 17 | 2.43 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 6 | 2.43 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 19 | 2.43 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 19 | 2.43 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 11 | 2.43 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 11 | 2.43 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 11 | 2.43 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 11 | 2.43 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 11 | 2.43 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 11 | 2.43 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 17 | 2.43 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 17 | 2.43 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 17 | 2.43 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 10 | 2.43 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 9 | 2.43 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 9 | 2.43 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 9 | 2.43 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 13 | 2.43 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 13 | 2.43 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 13 | 2.43 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 13 | 2.43 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 13 | 2.43 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 13 | 2.43 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 15 | 2.43 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 15 | 2.43 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 15 | 2.43 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 15 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 15 | 2.43 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 15 | 2.43 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 16 | 2.43 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 16 | 2.43 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 16 | 2.43 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 16 | 2.43 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 16 | 2.43 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 16 | 2.43 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 12 | 2.43 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 13 | 2.43 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 13 | 2.43 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 18 | 2.43 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 18 | 2.43 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 18 | 2.43 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 18 | 2.43 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 17 | 2.43 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 17 | 2.43 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 17 | 2.43 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 17 | 2.43 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 17 | 2.43 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 17 | 2.43 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 17 | 2.43 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 17 | 2.43 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 2 | 2.43 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 2 | 2.43 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 17 | 2.43 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 17 | 2.43 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 14 | 2.43 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 14 | 2.43 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 12 | 2.43 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 12 | 2.43 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 7 | 2.43 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 2 | 2.43 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 2 | 2.43 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 3 | 2.43 |
| (1,4327) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 14 | 2.43 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 1 | 2.43 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 1 | 2.43 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 6 | 2.43 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 6 | 2.43 |
| (1,4285) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 2.43 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 13 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 13 | 2.43 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 19 | 2.43 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 19 | 2.43 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 19 | 2.43 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 19 | 2.43 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 19 | 2.43 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 19 | 2.43 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 12 | 2.43 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 12 | 2.43 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 20 | 2.43 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 13 | 2.43 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 13 | 2.43 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 13 | 2.43 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 13 | 2.43 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 13 | 2.43 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 9 | 2.43 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 13 | 2.43 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 13 | 2.43 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 13 | 2.43 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 10 | 2.43 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 10 | 2.43 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 10 | 2.43 |
| (1,4090) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 2 | 2.43 |
| (1,4090) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 2 | 2.43 |
| (1,4090) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 2 | 2.43 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 14 | 2.43 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 14 | 2.43 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 19 | 2.43 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 19 | 2.43 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 14 | 2.43 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 14 | 2.43 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 11 | 2.43 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 2 | 2.43 |
| (1,4015) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 2 | 2.43 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 19 | 2.43 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 19 | 2.43 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 2 | 2.43 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 2 | 2.43 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 18 | 2.43 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 18 | 2.43 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 17 | 2.43 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 7 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 7 | 2.43 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 7 | 2.43 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 7 | 2.43 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 13 | 2.43 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 13 | 2.43 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 13 | 2.43 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 13 | 2.43 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 5 | 2.43 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 5 | 2.43 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 7 | 2.43 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 2.43 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 2.43 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 2.43 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 2.43 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 2.43 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 2.43 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 11 | 2.43 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 11 | 2.43 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 2 | 2.43 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 6 | 2.43 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 16 | 2.43 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 16 | 2.43 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 14 | 2.43 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 14 | 2.43 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 14 | 2.43 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 14 | 2.43 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 6 | 2.43 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 6 | 2.43 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 13 | 2.43 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 13 | 2.43 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 3 | 2.43 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 12 | 2.43 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 12 | 2.43 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 8 | 2.43 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 8 | 2.43 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 8 | 2.43 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 8 | 2.43 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 8 | 2.43 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 8 | 2.43 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 11 | 2.43 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 11 | 2.43 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 18 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 18 | 2.43 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 18 | 2.43 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 18 | 2.43 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 18 | 2.43 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 18 | 2.43 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 17 | 2.43 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 17 | 2.43 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 16 | 2.43 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 16 | 2.43 |
| (1,3468) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 16 | 2.43 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 16 | 2.43 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 16 | 2.43 |
| (1,3468) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 16 | 2.43 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 16 | 2.43 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 16 | 2.43 |
| (1,3468) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 16 | 2.43 |
| (1,3454) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 18 | 2.43 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 4 | 2.43 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 4 | 2.43 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 4 | 2.43 |
| (1,3375) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 4 | 2.43 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 11 | 2.43 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 11 | 2.43 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 11 | 2.43 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 11 | 2.43 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 11 | 2.43 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 11 | 2.43 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 11 | 2.43 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 11 | 2.43 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 11 | 2.43 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 15 | 2.43 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 15 | 2.43 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 15 | 2.43 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 15 | 2.43 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 15 | 2.43 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 15 | 2.43 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 15 | 2.43 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 15 | 2.43 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 15 | 2.43 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 16 | 2.43 |
| (1,3334) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 16 | 2.43 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 17 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 18 | 2.43 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 15 | 2.43 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 8 | 2.43 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 8 | 2.43 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 8 | 2.43 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 2 | 2.43 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 18 | 2.43 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 13 | 2.43 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 13 | 2.43 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 11 | 2.43 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 9 | 2.43 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 4 | 2.43 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 11 | 2.43 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 16 | 2.43 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 16 | 2.43 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 16 | 2.43 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 10 | 2.43 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 10 | 2.43 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 10 | 2.43 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 1 | 2.43 |
| (1,2858) | 1:28:A:ILE:H | 1:30:A:ASN:H | 13 | 2.43 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 11 | 2.43 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 4 | 2.43 |
| (1,2770) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 17 | 2.43 |
| (1,2770) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 17 | 2.43 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 17 | 2.43 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 17 | 2.43 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 11 | 2.43 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 11 | 2.43 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 7 | 2.43 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 7 | 2.43 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 7 | 2.43 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 16 | 2.43 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 16 | 2.43 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 16 | 2.43 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 18 | 2.43 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 2 | 2.43 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 13 | 2.43 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 13 | 2.43 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 16 | 2.43 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 16 | 2.43 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 16 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 10 | 2.43 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 10 | 2.43 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 19 | 2.43 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 19 | 2.43 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 9 | 2.43 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 9 | 2.43 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 5 | 2.43 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 15 | 2.43 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 1 | 2.43 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 4 | 2.43 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 12 | 2.43 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 12 | 2.43 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 12 | 2.43 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 17 | 2.43 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 17 | 2.43 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 17 | 2.43 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 4 | 2.43 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 4 | 2.43 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 1 | 2.43 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 10 | 2.43 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 11 | 2.43 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 2.43 |
| (1,2286) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 10 | 2.43 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 12 | 2.43 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 10 | 2.43 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 2 | 2.43 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 7 | 2.43 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 16 | 2.43 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 19 | 2.43 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 19 | 2.43 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 19 | 2.43 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 5 | 2.43 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 5 | 2.43 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 5 | 2.43 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 5 | 2.43 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 5 | 2.43 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 5 | 2.43 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 5 | 2.43 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 5 | 2.43 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 5 | 2.43 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 17 | 2.43 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 17 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 17 | 2.43 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 9 | 2.43 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 19 | 2.43 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 2 | 2.43 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 2 | 2.43 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 2 | 2.43 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 7 | 2.43 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 4 | 2.43 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 4 | 2.43 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 4 | 2.43 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 5 | 2.43 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 5 | 2.43 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 5 | 2.43 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 7 | 2.43 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 1 | 2.43 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 1 | 2.43 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 1 | 2.43 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 6 | 2.43 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 6 | 2.43 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 6 | 2.43 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 16 | 2.43 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 16 | 2.43 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 16 | 2.43 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 8 | 2.43 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 8 | 2.43 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 8 | 2.43 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 5 | 2.43 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 4 | 2.43 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 18 | 2.43 |
| (1,1884) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 18 | 2.43 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 19 | 2.43 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 12 | 2.43 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 6 | 2.43 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 10 | 2.43 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 10 | 2.43 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 10 | 2.43 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 14 | 2.43 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 14 | 2.43 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 14 | 2.43 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 11 | 2.43 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 7 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 3 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 3 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 3 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 7 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 7 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 7 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 11 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 11 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 11 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 15 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 15 | 2.43 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 15 | 2.43 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 6 | 2.43 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 6 | 2.43 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 6 | 2.43 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 6 | 2.43 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 6 | 2.43 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 6 | 2.43 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 6 | 2.43 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 6 | 2.43 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 6 | 2.43 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 12 | 2.43 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 12 | 2.43 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 12 | 2.43 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 19 | 2.43 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 19 | 2.43 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 19 | 2.43 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 4 | 2.43 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 4 | 2.43 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 16 | 2.43 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 16 | 2.43 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 11 | 2.43 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 11 | 2.43 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 11 | 2.43 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 13 | 2.43 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 13 | 2.43 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 13 | 2.43 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 13 | 2.43 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 13 | 2.43 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 13 | 2.43 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 2.43 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 2.43 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 10 | 2.43 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 1 | 2.43 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 7 | 2.43 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 4 | 2.43 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 4 | 2.43 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 3 | 2.43 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 11 | 2.43 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 20 | 2.43 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 14 | 2.43 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 8 | 2.43 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 8 | 2.43 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 15 | 2.43 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 15 | 2.43 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 15 | 2.43 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 10 | 2.43 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 17 | 2.43 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 17 | 2.43 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 19 | 2.43 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 19 | 2.43 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 19 | 2.43 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 19 | 2.43 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 19 | 2.43 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 19 | 2.43 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 3 | 2.43 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 3 | 2.43 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 5 | 2.43 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 16 | 2.43 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 9 | 2.43 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 9 | 2.43 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 9 | 2.43 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 4 | 2.43 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 2.43 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 9 | 2.43 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 9 | 2.43 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 8 | 2.43 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 2 | 2.43 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 2 | 2.43 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 2 | 2.43 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 18 | 2.43 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 18 | 2.43 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 18 | 2.43 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 1 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 18 | 2.43 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 20 | 2.43 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 7 | 2.43 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 11 | 2.43 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 11 | 2.43 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 11 | 2.43 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 17 | 2.43 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 17 | 2.43 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 17 | 2.43 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 17 | 2.43 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 17 | 2.43 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 17 | 2.43 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 17 | 2.43 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 17 | 2.43 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 17 | 2.43 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 4 | 2.43 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 4 | 2.43 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 4 | 2.43 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 14 | 2.43 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 14 | 2.43 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 14 | 2.43 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 17 | 2.43 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 17 | 2.43 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 17 | 2.43 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 17 | 2.43 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 17 | 2.43 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 17 | 2.43 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 18 | 2.43 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 18 | 2.43 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 18 | 2.43 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 7 | 2.43 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 7 | 2.43 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 7 | 2.43 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 7 | 2.43 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 7 | 2.43 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 7 | 2.43 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 7 | 2.43 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 7 | 2.43 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 7 | 2.43 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 14 | 2.43 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 13 | 2.42 |
| (3,644) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 16 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,64) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 5 | 2.42 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 2.42 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 2.42 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 13 | 2.42 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 13 | 2.42 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 20 | 2.42 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 20 | 2.42 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 20 | 2.42 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 20 | 2.42 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 8 | 2.42 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 8 | 2.42 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 19 | 2.42 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 19 | 2.42 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 7 | 2.42 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 7 | 2.42 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 11 | 2.42 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 11 | 2.42 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 6 | 2.42 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 6 | 2.42 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 6 | 2.42 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 6 | 2.42 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 6 | 2.42 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 6 | 2.42 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 6 | 2.42 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 6 | 2.42 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 6 | 2.42 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 6 | 2.42 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 12 | 2.42 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 12 | 2.42 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 12 | 2.42 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 12 | 2.42 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 17 | 2.42 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 17 | 2.42 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 17 | 2.42 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 17 | 2.42 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 20 | 2.42 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 20 | 2.42 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 20 | 2.42 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 20 | 2.42 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 20 | 2.42 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 20 | 2.42 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 3 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 3 | 2.42 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 3 | 2.42 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 3 | 2.42 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 3 | 2.42 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 3 | 2.42 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 14 | 2.42 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 14 | 2.42 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 2 | 2.42 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 2 | 2.42 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 5 | 2.42 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 5 | 2.42 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 10 | 2.42 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 10 | 2.42 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 8 | 2.42 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 8 | 2.42 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 15 | 2.42 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 15 | 2.42 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 12 | 2.42 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 12 | 2.42 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 2 | 2.42 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 2 | 2.42 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 13 | 2.42 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 13 | 2.42 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 20 | 2.42 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 20 | 2.42 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 20 | 2.42 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 20 | 2.42 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 12 | 2.42 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 12 | 2.42 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 12 | 2.42 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 12 | 2.42 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 1 | 2.42 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 1 | 2.42 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 12 | 2.42 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 14 | 2.42 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 15 | 2.42 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 13 | 2.42 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 13 | 2.42 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 13 | 2.42 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 13 | 2.42 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 8 | 2.42 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 4 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 11 | 2.42 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 9 | 2.42 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 14 | 2.42 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 19 | 2.42 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 16 | 2.42 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 17 | 2.42 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 3 | 2.42 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 6 | 2.42 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 6 | 2.42 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 18 | 2.42 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 18 | 2.42 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 15 | 2.42 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 15 | 2.42 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 20 | 2.42 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 20 | 2.42 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 19 | 2.42 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 12 | 2.42 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 2 | 2.42 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 2 | 2.42 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 1 | 2.42 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 10 | 2.42 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 10 | 2.42 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 10 | 2.42 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 13 | 2.42 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 13 | 2.42 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 13 | 2.42 |
| (1,6719) | 1:20:A:GLY:H | 1:21:A:ARG:H | 19 | 2.42 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 16 | 2.42 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 5 | 2.42 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 14 | 2.42 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 13 | 2.42 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 17 | 2.42 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 17 | 2.42 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 17 | 2.42 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 16 | 2.42 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 12 | 2.42 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 12 | 2.42 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 12 | 2.42 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 5 | 2.42 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 5 | 2.42 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 5 | 2.42 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 14 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 14 | 2.42 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 14 | 2.42 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 16 | 2.42 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 16 | 2.42 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 16 | 2.42 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 1 | 2.42 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 1 | 2.42 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 1 | 2.42 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 6 | 2.42 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 6 | 2.42 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 6 | 2.42 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 18 | 2.42 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 18 | 2.42 |
| (1,6395) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 18 | 2.42 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 1 | 2.42 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 3 | 2.42 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 3 | 2.42 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 3 | 2.42 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 20 | 2.42 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 20 | 2.42 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 20 | 2.42 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 3 | 2.42 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 9 | 2.42 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 9 | 2.42 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 20 | 2.42 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 20 | 2.42 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 16 | 2.42 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 16 | 2.42 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 16 | 2.42 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 16 | 2.42 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 16 | 2.42 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 16 | 2.42 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 9 | 2.42 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 19 | 2.42 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 12 | 2.42 |
| (1,6169) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 12 | 2.42 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 12 | 2.42 |
| (1,6169) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 12 | 2.42 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 12 | 2.42 |
| (1,6169) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 12 | 2.42 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 11 | 2.42 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 19 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 3 | 2.42 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 3 | 2.42 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 12 | 2.42 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 12 | 2.42 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 1 | 2.42 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 14 | 2.42 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 4 | 2.42 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 4 | 2.42 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 15 | 2.42 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 7 | 2.42 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 7 | 2.42 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 7 | 2.42 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 11 | 2.42 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 11 | 2.42 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 11 | 2.42 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 19 | 2.42 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 19 | 2.42 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 19 | 2.42 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 3 | 2.42 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 6 | 2.42 |
| (1,5602) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 7 | 2.42 |
| (1,5602) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 7 | 2.42 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 5 | 2.42 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 16 | 2.42 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 20 | 2.42 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 20 | 2.42 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 20 | 2.42 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 18 | 2.42 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 18 | 2.42 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 18 | 2.42 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 18 | 2.42 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 18 | 2.42 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 18 | 2.42 |
| (1,5296) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 6 | 2.42 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 11 | 2.42 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 11 | 2.42 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 11 | 2.42 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 11 | 2.42 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 11 | 2.42 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 11 | 2.42 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 11 | 2.42 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 11 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 11 | 2.42 |
| (1,5264) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 14 | 2.42 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 17 | 2.42 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 17 | 2.42 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 17 | 2.42 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 15 | 2.42 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 15 | 2.42 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 15 | 2.42 |
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 16 | 2.42 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 16 | 2.42 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 16 | 2.42 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 15 | 2.42 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 15 | 2.42 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 15 | 2.42 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 3 | 2.42 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 3 | 2.42 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 3 | 2.42 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 7 | 2.42 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 7 | 2.42 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 7 | 2.42 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 10 | 2.42 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 10 | 2.42 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 10 | 2.42 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 13 | 2.42 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 13 | 2.42 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 13 | 2.42 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 6 | 2.42 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 19 | 2.42 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 20 | 2.42 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 15 | 2.42 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 15 | 2.42 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 15 | 2.42 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 15 | 2.42 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 11 | 2.42 |
| (1,5005) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 14 | 2.42 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 9 | 2.42 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 14 | 2.42 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 1 | 2.42 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 3 | 2.42 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 13 | 2.42 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 18 | 2.42 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 20 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 20 | 2.42 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 20 | 2.42 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 12 | 2.42 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 14 | 2.42 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 20 | 2.42 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 16 | 2.42 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 14 | 2.42 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 12 | 2.42 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 12 | 2.42 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 12 | 2.42 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 2.42 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 2.42 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 17 | 2.42 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 17 | 2.42 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 17 | 2.42 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 17 | 2.42 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 17 | 2.42 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 17 | 2.42 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 8 | 2.42 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 8 | 2.42 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 8 | 2.42 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 18 | 2.42 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 19 | 2.42 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 19 | 2.42 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 19 | 2.42 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 19 | 2.42 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 19 | 2.42 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 19 | 2.42 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 8 | 2.42 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 19 | 2.42 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 19 | 2.42 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 19 | 2.42 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 19 | 2.42 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 19 | 2.42 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 19 | 2.42 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 6 | 2.42 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 6 | 2.42 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 6 | 2.42 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 6 | 2.42 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 6 | 2.42 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 6 | 2.42 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 8 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 8 | 2.42 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 19 | 2.42 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 19 | 2.42 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 7 | 2.42 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 7 | 2.42 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 13 | 2.42 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 13 | 2.42 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 11 | 2.42 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 11 | 2.42 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 17 | 2.42 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 17 | 2.42 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 6 | 2.42 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 6 | 2.42 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 6 | 2.42 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 6 | 2.42 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 6 | 2.42 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 6 | 2.42 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 8 | 2.42 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 8 | 2.42 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 12 | 2.42 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 12 | 2.42 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 12 | 2.42 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 12 | 2.42 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 2 | 2.42 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 2 | 2.42 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 2 | 2.42 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 2 | 2.42 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 2 | 2.42 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 2 | 2.42 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB2 | 20 | 2.42 |
| (1,4111) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HB3 | 20 | 2.42 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB2 | 20 | 2.42 |
| (1,4111) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HB3 | 20 | 2.42 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 3 | 2.42 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 3 | 2.42 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 3 | 2.42 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 3 | 2.42 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 3 | 2.42 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 3 | 2.42 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 3 | 2.42 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 3 | 2.42 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 3 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 3 | 2.42 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 3 | 2.42 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 3 | 2.42 |
| (1,4045) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 7 | 2.42 |
| (1,4045) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 7 | 2.42 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 2 | 2.42 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 2 | 2.42 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 9 | 2.42 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 9 | 2.42 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 9 | 2.42 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 9 | 2.42 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 9 | 2.42 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 9 | 2.42 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 10 | 2.42 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 10 | 2.42 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 9 | 2.42 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 9 | 2.42 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 9 | 2.42 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 9 | 2.42 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 4 | 2.42 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 11 | 2.42 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 12 | 2.42 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 12 | 2.42 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 9 | 2.42 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 9 | 2.42 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 2.42 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 2.42 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 2.42 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 2.42 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 2.42 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 2.42 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 2 | 2.42 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 2 | 2.42 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 5 | 2.42 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 5 | 2.42 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 15 | 2.42 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 15 | 2.42 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 8 | 2.42 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 16 | 2.42 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 16 | 2.42 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 16 | 2.42 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 2 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 2 | 2.42 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 6 | 2.42 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 6 | 2.42 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 10 | 2.42 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 10 | 2.42 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 10 | 2.42 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 10 | 2.42 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 3 | 2.42 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 3 | 2.42 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 20 | 2.42 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 20 | 2.42 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 4 | 2.42 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 4 | 2.42 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 20 | 2.42 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 20 | 2.42 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 20 | 2.42 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 20 | 2.42 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 11 | 2.42 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 11 | 2.42 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 9 | 2.42 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 9 | 2.42 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 9 | 2.42 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 9 | 2.42 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 11 | 2.42 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 11 | 2.42 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 3 | 2.42 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 3 | 2.42 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 3 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 2 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 2 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 4 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 4 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 5 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 5 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 12 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 12 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 13 | 2.42 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 13 | 2.42 |
| (1,3308) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 13 | 2.42 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 16 | 2.42 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 17 | 2.42 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 3 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 2 | 2.42 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 2 | 2.42 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 2 | 2.42 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 4 | 2.42 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 6 | 2.42 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 6 | 2.42 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 6 | 2.42 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 18 | 2.42 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 18 | 2.42 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 16 | 2.42 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 16 | 2.42 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 19 | 2.42 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 19 | 2.42 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 12 | 2.42 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 2 | 2.42 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 2 | 2.42 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 16 | 2.42 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 16 | 2.42 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 2 | 2.42 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 8 | 2.42 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 15 | 2.42 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 15 | 2.42 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 15 | 2.42 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 15 | 2.42 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 9 | 2.42 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 12 | 2.42 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 14 | 2.42 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 16 | 2.42 |
| (1,2872) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 18 | 2.42 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 8 | 2.42 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 8 | 2.42 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 8 | 2.42 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 19 | 2.42 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 19 | 2.42 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 19 | 2.42 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 1 | 2.42 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 16 | 2.42 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 16 | 2.42 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 4 | 2.42 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 4 | 2.42 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 10 | 2.42 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 10 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 10 | 2.42 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 13 | 2.42 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 13 | 2.42 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 13 | 2.42 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 13 | 2.42 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 13 | 2.42 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 13 | 2.42 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 14 | 2.42 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 14 | 2.42 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 14 | 2.42 |
| (1,2636) | 1:20:A:GLY:H | 1:21:A:ARG:H | 19 | 2.42 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 12 | 2.42 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 12 | 2.42 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 11 | 2.42 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 11 | 2.42 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 12 | 2.42 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 5 | 2.42 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 13 | 2.42 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 2 | 2.42 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 7 | 2.42 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 1 | 2.42 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 1 | 2.42 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 1 | 2.42 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 17 | 2.42 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 17 | 2.42 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 17 | 2.42 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 16 | 2.42 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 19 | 2.42 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 13 | 2.42 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 19 | 2.42 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 12 | 2.42 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 12 | 2.42 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 12 | 2.42 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 10 | 2.42 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 10 | 2.42 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 10 | 2.42 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 5 | 2.42 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 5 | 2.42 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 5 | 2.42 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 14 | 2.42 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 14 | 2.42 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 14 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 20 | 2.42 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 20 | 2.42 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 20 | 2.42 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 16 | 2.42 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 16 | 2.42 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 16 | 2.42 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 17 | 2.42 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 17 | 2.42 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 17 | 2.42 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 8 | 2.42 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 8 | 2.42 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 8 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 1 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 1 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 1 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 6 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 6 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 6 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 18 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 18 | 2.42 |
| (1,2100) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 18 | 2.42 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 1 | 2.42 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 18 | 2.42 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 18 | 2.42 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 18 | 2.42 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 3 | 2.42 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 14 | 2.42 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 19 | 2.42 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 5 | 2.42 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 5 | 2.42 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 5 | 2.42 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 3 | 2.42 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 3 | 2.42 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 3 | 2.42 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 20 | 2.42 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 20 | 2.42 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 20 | 2.42 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 16 | 2.42 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 4 | 2.42 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 17 | 2.42 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 17 | 2.42 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 17 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 17 | 2.42 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 17 | 2.42 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 17 | 2.42 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 17 | 2.42 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 17 | 2.42 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 17 | 2.42 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 8 | 2.42 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 16 | 2.42 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 16 | 2.42 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 16 | 2.42 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 16 | 2.42 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 16 | 2.42 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 16 | 2.42 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 10 | 2.42 |
| (1,1890) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 18 | 2.42 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 17 | 2.42 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 9 | 2.42 |
| (1,1842) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 9 | 2.42 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 9 | 2.42 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 19 | 2.42 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 12 | 2.42 |
| (1,1772) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 12 | 2.42 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 12 | 2.42 |
| (1,1772) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 12 | 2.42 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 12 | 2.42 |
| (1,1772) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 12 | 2.42 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 11 | 2.42 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 19 | 2.42 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 13 | 2.42 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 3 | 2.42 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 3 | 2.42 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 12 | 2.42 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 12 | 2.42 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 1 | 2.42 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 1 | 2.42 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 17 | 2.42 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 17 | 2.42 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 17 | 2.42 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 8 | 2.42 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 8 | 2.42 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 8 | 2.42 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 9 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 9 | 2.42 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 15 | 2.42 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 15 | 2.42 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 4 | 2.42 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 14 | 2.42 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 3 | 2.42 |
| (1,1404) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 1 | 2.42 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 7 | 2.42 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 2 | 2.42 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 4 | 2.42 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 4 | 2.42 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 15 | 2.42 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 8 | 2.42 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 20 | 2.42 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 20 | 2.42 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 20 | 2.42 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 7 | 2.42 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 7 | 2.42 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 7 | 2.42 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 18 | 2.42 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 8 | 2.42 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 8 | 2.42 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 11 | 2.42 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 11 | 2.42 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 11 | 2.42 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 19 | 2.42 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 19 | 2.42 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 6 | 2.42 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 6 | 2.42 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 6 | 2.42 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 12 | 2.42 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 12 | 2.42 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 12 | 2.42 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 19 | 2.42 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 2 | 2.42 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 2 | 2.42 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 2 | 2.42 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 3 | 2.42 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 6 | 2.42 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 3 | 2.42 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 7 | 2.42 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 16 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 20 | 2.42 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 5 | 2.42 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 7 | 2.42 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 2.42 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 2.42 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 3 | 2.42 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 3 | 2.42 |
| (1,788) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 7 | 2.42 |
| (1,788) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 7 | 2.42 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 13 | 2.42 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 13 | 2.42 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 13 | 2.42 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 18 | 2.42 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 18 | 2.42 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 18 | 2.42 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 20 | 2.42 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 20 | 2.42 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 20 | 2.42 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 17 | 2.42 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 14 | 2.42 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 14 | 2.42 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 7 | 2.42 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 13 | 2.42 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 9 | 2.42 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 9 | 2.42 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 9 | 2.42 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 9 | 2.42 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 18 | 2.42 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 18 | 2.42 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 18 | 2.42 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 15 | 2.42 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 15 | 2.42 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 15 | 2.42 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 5 | 2.42 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 5 | 2.42 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 5 | 2.42 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 9 | 2.42 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 7 | 2.42 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 7 | 2.42 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 7 | 2.42 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 13 | 2.42 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 15 | 2.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 11 | 2.42 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 11 | 2.42 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 11 | 2.42 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 1 | 2.42 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 1 | 2.42 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 1 | 2.42 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 3 | 2.42 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 14 | 2.41 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 8 | 2.41 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 2 | 2.41 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 7 | 2.41 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 9 | 2.41 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 1 | 2.41 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 1 | 2.41 |
| (3,64) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 17 | 2.41 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 13 | 2.41 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 13 | 2.41 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 8 | 2.41 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 8 | 2.41 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 2 | 2.41 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 2 | 2.41 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 5 | 2.41 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 5 | 2.41 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 8 | 2.41 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 8 | 2.41 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 14 | 2.41 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 14 | 2.41 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 10 | 2.41 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 10 | 2.41 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 10 | 2.41 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 10 | 2.41 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 10 | 2.41 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 10 | 2.41 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 17 | 2.41 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 17 | 2.41 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 2 | 2.41 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 2 | 2.41 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 2 | 2.41 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 2 | 2.41 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 2 | 2.41 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 2 | 2.41 |
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 13 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9301) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 13 | 2.41 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 13 | 2.41 |
| (1,9301) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 13 | 2.41 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 1 | 2.41 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 1 | 2.41 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 1 | 2.41 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 1 | 2.41 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 15 | 2.41 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 15 | 2.41 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 6 | 2.41 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 6 | 2.41 |
| (1,9220) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 6 | 2.41 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 6 | 2.41 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 6 | 2.41 |
| (1,9220) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 6 | 2.41 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 8 | 2.41 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 8 | 2.41 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 11 | 2.41 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 11 | 2.41 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 6 | 2.41 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 6 | 2.41 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 6 | 2.41 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 6 | 2.41 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 6 | 2.41 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 6 | 2.41 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 8 | 2.41 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 8 | 2.41 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 8 | 2.41 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 8 | 2.41 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 8 | 2.41 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 8 | 2.41 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 2 | 2.41 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 2 | 2.41 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 9 | 2.41 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 9 | 2.41 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 9 | 2.41 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 9 | 2.41 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 4 | 2.41 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 4 | 2.41 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 6 | 2.41 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 6 | 2.41 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 8 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 8 | 2.41 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 9 | 2.41 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 9 | 2.41 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 11 | 2.41 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 11 | 2.41 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 7 | 2.41 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 7 | 2.41 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 2 | 2.41 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 2 | 2.41 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 18 | 2.41 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 18 | 2.41 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 16 | 2.41 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 16 | 2.41 |
| (1,8784) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 2 | 2.41 |
| (1,8784) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 2 | 2.41 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 11 | 2.41 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 11 | 2.41 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 20 | 2.41 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 20 | 2.41 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 7 | 2.41 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 7 | 2.41 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 16 | 2.41 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 16 | 2.41 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 16 | 2.41 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 16 | 2.41 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 19 | 2.41 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 19 | 2.41 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 4 | 2.41 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 17 | 2.41 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 3 | 2.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 13 | 2.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 13 | 2.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 13 | 2.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 13 | 2.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 13 | 2.41 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 13 | 2.41 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 17 | 2.41 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 17 | 2.41 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 17 | 2.41 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 17 | 2.41 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 17 | 2.41 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 17 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 4 | 2.41 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 2 | 2.41 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 16 | 2.41 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 16 | 2.41 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 1 | 2.41 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 8 | 2.41 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 7 | 2.41 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 7 | 2.41 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 7 | 2.41 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 7 | 2.41 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 7 | 2.41 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 7 | 2.41 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 3 | 2.41 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 13 | 2.41 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 1 | 2.41 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 1 | 2.41 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 16 | 2.41 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 16 | 2.41 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 12 | 2.41 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 12 | 2.41 |
| (1,7270) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 12 | 2.41 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 9 | 2.41 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 1 | 2.41 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 6 | 2.41 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 14 | 2.41 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 16 | 2.41 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 16 | 2.41 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 16 | 2.41 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 2 | 2.41 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 10 | 2.41 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 10 | 2.41 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 17 | 2.41 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 17 | 2.41 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 20 | 2.41 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 20 | 2.41 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 20 | 2.41 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 1 | 2.41 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 8 | 2.41 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 19 | 2.41 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 5 | 2.41 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 5 | 2.41 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 5 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 19 | 2.41 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 7 | 2.41 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 7 | 2.41 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 1 | 2.41 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 1 | 2.41 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 1 | 2.41 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 1 | 2.41 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 4 | 2.41 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 4 | 2.41 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 4 | 2.41 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 16 | 2.41 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 16 | 2.41 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 19 | 2.41 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 7 | 2.41 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 16 | 2.41 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 16 | 2.41 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 4 | 2.41 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 19 | 2.41 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 2 | 2.41 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 16 | 2.41 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 16 | 2.41 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 16 | 2.41 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 19 | 2.41 |
| (1,6399) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 7 | 2.41 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 17 | 2.41 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 6 | 2.41 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 6 | 2.41 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 6 | 2.41 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 1 | 2.41 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 1 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 10 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 10 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 10 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 10 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 10 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 10 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 17 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 17 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 17 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 17 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 17 | 2.41 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 17 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 17 | 2.41 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 1 | 2.41 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 20 | 2.41 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 1 | 2.41 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 17 | 2.41 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 19 | 2.41 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 19 | 2.41 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 19 | 2.41 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 9 | 2.41 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 14 | 2.41 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 14 | 2.41 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 14 | 2.41 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 14 | 2.41 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 14 | 2.41 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 14 | 2.41 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 14 | 2.41 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 14 | 2.41 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 14 | 2.41 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 2 | 2.41 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 2 | 2.41 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 2 | 2.41 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 3 | 2.41 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 3 | 2.41 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 7 | 2.41 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 7 | 2.41 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 11 | 2.41 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 1 | 2.41 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 1 | 2.41 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 1 | 2.41 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 1 | 2.41 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 1 | 2.41 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 1 | 2.41 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 1 | 2.41 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 1 | 2.41 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 1 | 2.41 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 3 | 2.41 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 3 | 2.41 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 3 | 2.41 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 2 | 2.41 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 2 | 2.41 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 2 | 2.41 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 8 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 8 | 2.41 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 8 | 2.41 |
| (1,5809) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 10 | 2.41 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 5 | 2.41 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 7 | 2.41 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 7 | 2.41 |
| (1,5677) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 7 | 2.41 |
| (1,5578) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 2 | 2.41 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 9 | 2.41 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 11 | 2.41 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 3 | 2.41 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 3 | 2.41 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 3 | 2.41 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 6 | 2.41 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 6 | 2.41 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 6 | 2.41 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 3 | 2.41 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 3 | 2.41 |
| (1,5491) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 3 | 2.41 |
| (1,5478) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 4 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 4 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 4 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 4 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 15 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 15 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 15 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 16 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 16 | 2.41 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 16 | 2.41 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 20 | 2.41 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 14 | 2.41 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 14 | 2.41 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 14 | 2.41 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 20 | 2.41 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 20 | 2.41 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 20 | 2.41 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 9 | 2.41 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 9 | 2.41 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 9 | 2.41 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 17 | 2.41 |
| (1,5262) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 14 | 2.41 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 17 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 17 | 2.41 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 17 | 2.41 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 10 | 2.41 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 10 | 2.41 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 10 | 2.41 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 8 | 2.41 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 9 | 2.41 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 9 | 2.41 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 9 | 2.41 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 19 | 2.41 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 19 | 2.41 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 19 | 2.41 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 10 | 2.41 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 10 | 2.41 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 10 | 2.41 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 10 | 2.41 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 18 | 2.41 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 18 | 2.41 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 18 | 2.41 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 10 | 2.41 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 12 | 2.41 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 18 | 2.41 |
| (1,5007) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 20 | 2.41 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 4 | 2.41 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 7 | 2.41 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 15 | 2.41 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 9 | 2.41 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 6 | 2.41 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 12 | 2.41 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 13 | 2.41 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 17 | 2.41 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 16 | 2.41 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 16 | 2.41 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 16 | 2.41 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 16 | 2.41 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 20 | 2.41 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 11 | 2.41 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 13 | 2.41 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 13 | 2.41 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 3 | 2.41 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 3 | 2.41 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 3 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 3 | 2.41 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 3 | 2.41 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 9 | 2.41 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 9 | 2.41 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 1 | 2.41 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 1 | 2.41 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 1 | 2.41 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 2 | 2.41 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 2 | 2.41 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 5 | 2.41 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 5 | 2.41 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 8 | 2.41 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 8 | 2.41 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 19 | 2.41 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 19 | 2.41 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 19 | 2.41 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 19 | 2.41 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 19 | 2.41 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 19 | 2.41 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 8 | 2.41 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 4 | 2.41 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 19 | 2.41 |
| (1,4486) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 19 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 3 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 3 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 3 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 3 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 3 | 2.41 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 3 | 2.41 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 14 | 2.41 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 14 | 2.41 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 7 | 2.41 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 7 | 2.41 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 16 | 2.41 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 16 | 2.41 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 11 | 2.41 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 11 | 2.41 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 15 | 2.41 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 15 | 2.41 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 15 | 2.41 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 15 | 2.41 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 15 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 15 | 2.41 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 15 | 2.41 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 15 | 2.41 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 2 | 2.41 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 2 | 2.41 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 2 | 2.41 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 2 | 2.41 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 2 | 2.41 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 3 | 2.41 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 3 | 2.41 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 11 | 2.41 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 11 | 2.41 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 9 | 2.41 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 13 | 2.41 |
| (1,4282) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 13 | 2.41 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 13 | 2.41 |
| (1,4282) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 13 | 2.41 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 6 | 2.41 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 6 | 2.41 |
| (1,4208) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 6 | 2.41 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 6 | 2.41 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 6 | 2.41 |
| (1,4208) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 6 | 2.41 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 16 | 2.41 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 19 | 2.41 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 19 | 2.41 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 19 | 2.41 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 6 | 2.41 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 6 | 2.41 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 6 | 2.41 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 6 | 2.41 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 6 | 2.41 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 6 | 2.41 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 8 | 2.41 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 8 | 2.41 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 8 | 2.41 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 8 | 2.41 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 8 | 2.41 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 8 | 2.41 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 2 | 2.41 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 2 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 5 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 5 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 5 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 5 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 10 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 10 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 10 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 10 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 20 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 20 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 20 | 2.41 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 20 | 2.41 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 9 | 2.41 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 9 | 2.41 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 9 | 2.41 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 9 | 2.41 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 19 | 2.41 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 18 | 2.41 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 18 | 2.41 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 12 | 2.41 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 12 | 2.41 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 15 | 2.41 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 7 | 2.41 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 7 | 2.41 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 14 | 2.41 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 14 | 2.41 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 14 | 2.41 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 18 | 2.41 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 18 | 2.41 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 16 | 2.41 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 16 | 2.41 |
| (1,3748) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 2 | 2.41 |
| (1,3748) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 2 | 2.41 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 10 | 2.41 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 10 | 2.41 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 6 | 2.41 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 6 | 2.41 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 3 | 2.41 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 3 | 2.41 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 13 | 2.41 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 13 | 2.41 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 2.41 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 9 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 9 | 2.41 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 18 | 2.41 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 18 | 2.41 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 13 | 2.41 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 12 | 2.41 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 12 | 2.41 |
| (1,3482) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 12 | 2.41 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 14 | 2.41 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 6 | 2.41 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 9 | 2.41 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 18 | 2.41 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 9 | 2.41 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 2 | 2.41 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 8 | 2.41 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 8 | 2.41 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 3 | 2.41 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 11 | 2.41 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 12 | 2.41 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 12 | 2.41 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 12 | 2.41 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 4 | 2.41 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 4 | 2.41 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 5 | 2.41 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 5 | 2.41 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 20 | 2.41 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 2 | 2.41 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 10 | 2.41 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 10 | 2.41 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 17 | 2.41 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 17 | 2.41 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 10 | 2.41 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 20 | 2.41 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 20 | 2.41 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 20 | 2.41 |
| (1,2920) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 2 | 2.41 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 1 | 2.41 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 8 | 2.41 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 19 | 2.41 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 5 | 2.41 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 5 | 2.41 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 5 | 2.41 |
| (1,2822) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 18 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 6 | 2.41 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 19 | 2.41 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 7 | 2.41 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 7 | 2.41 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 15 | 2.41 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 15 | 2.41 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 15 | 2.41 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 15 | 2.41 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 15 | 2.41 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 15 | 2.41 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 14 | 2.41 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 14 | 2.41 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 14 | 2.41 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 14 | 2.41 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 14 | 2.41 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 14 | 2.41 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 4 | 2.41 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 4 | 2.41 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 4 | 2.41 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 16 | 2.41 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 1 | 2.41 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 16 | 2.41 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 2 | 2.41 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 2 | 2.41 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 16 | 2.41 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 9 | 2.41 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 16 | 2.41 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 17 | 2.41 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 17 | 2.41 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 19 | 2.41 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 19 | 2.41 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 7 | 2.41 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 7 | 2.41 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 17 | 2.41 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 17 | 2.41 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 14 | 2.41 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 14 | 2.41 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 4 | 2.41 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 19 | 2.41 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 2 | 2.41 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 12 | 2.41 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 4 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 3 | 2.41 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 5 | 2.41 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 17 | 2.41 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 16 | 2.41 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 16 | 2.41 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 16 | 2.41 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 13 | 2.41 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 10 | 2.41 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 10 | 2.41 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 10 | 2.41 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 2 | 2.41 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 2 | 2.41 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 2 | 2.41 |
| (1,2142) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 17 | 2.41 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 19 | 2.41 |
| (1,2108) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 7 | 2.41 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 17 | 2.41 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 17 | 2.41 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 17 | 2.41 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 18 | 2.41 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 18 | 2.41 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 18 | 2.41 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 17 | 2.41 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 9 | 2.41 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 9 | 2.41 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 9 | 2.41 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 11 | 2.41 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 11 | 2.41 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 11 | 2.41 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 15 | 2.41 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 15 | 2.41 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 15 | 2.41 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 19 | 2.41 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 19 | 2.41 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 19 | 2.41 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 6 | 2.41 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 6 | 2.41 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 6 | 2.41 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 4 | 2.41 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 4 | 2.41 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 4 | 2.41 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 13 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 13 | 2.41 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 13 | 2.41 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 18 | 2.41 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 18 | 2.41 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 18 | 2.41 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 15 | 2.41 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 20 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 10 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 10 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 10 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 10 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 10 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 10 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 17 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 17 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 17 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 17 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 17 | 2.41 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 17 | 2.41 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 12 | 2.41 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 12 | 2.41 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 12 | 2.41 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 12 | 2.41 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 12 | 2.41 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 12 | 2.41 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 12 | 2.41 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 12 | 2.41 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 12 | 2.41 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 17 | 2.41 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 1 | 2.41 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 1 | 2.41 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 17 | 2.41 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 19 | 2.41 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 19 | 2.41 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 19 | 2.41 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 9 | 2.41 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 14 | 2.41 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 14 | 2.41 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 14 | 2.41 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 14 | 2.41 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 14 | 2.41 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 14 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 14 | 2.41 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 14 | 2.41 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 14 | 2.41 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 2 | 2.41 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 2 | 2.41 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 2 | 2.41 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 5 | 2.41 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 5 | 2.41 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 5 | 2.41 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 12 | 2.41 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 9 | 2.41 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 9 | 2.41 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 9 | 2.41 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 13 | 2.41 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 13 | 2.41 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 13 | 2.41 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 2 | 2.41 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 11 | 2.41 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 1 | 2.41 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 4 | 2.41 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 4 | 2.41 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 3 | 2.41 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 3 | 2.41 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 14 | 2.41 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 7 | 2.41 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 17 | 2.41 |
| (1,1422) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 17 | 2.41 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 7 | 2.41 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 11 | 2.41 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 1 | 2.41 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 1 | 2.41 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 1 | 2.41 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 1 | 2.41 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 1 | 2.41 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 1 | 2.41 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 1 | 2.41 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 1 | 2.41 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 1 | 2.41 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 3 | 2.41 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 3 | 2.41 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 3 | 2.41 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 3 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 3 | 2.41 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 3 | 2.41 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 2 | 2.41 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 2 | 2.41 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 2 | 2.41 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 8 | 2.41 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 8 | 2.41 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 8 | 2.41 |
| (1,1170) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 10 | 2.41 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 5 | 2.41 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 7 | 2.41 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 7 | 2.41 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 12 | 2.41 |
| (1,940) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 7 | 2.41 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 10 | 2.41 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 15 | 2.41 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 2 | 2.41 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 5 | 2.41 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 18 | 2.41 |
| (1,900) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 19 | 2.41 |
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 11 | 2.41 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 4 | 2.41 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 4 | 2.41 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 12 | 2.41 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 11 | 2.41 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 19 | 2.41 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 19 | 2.41 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 19 | 2.41 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 3 | 2.41 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 3 | 2.41 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 3 | 2.41 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 6 | 2.41 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 6 | 2.41 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 6 | 2.41 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 3 | 2.41 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 3 | 2.41 |
| (1,628) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 3 | 2.41 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 20 | 2.41 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 12 | 2.41 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 12 | 2.41 |
| (1,586) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 4 | 2.41 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 19 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 19 | 2.41 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 19 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 4 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 4 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 4 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 15 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 15 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 15 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 16 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 16 | 2.41 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 16 | 2.41 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 17 | 2.41 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 17 | 2.41 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 17 | 2.41 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 17 | 2.41 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 17 | 2.41 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 17 | 2.41 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 4 | 2.41 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 9 | 2.41 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 16 | 2.41 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 16 | 2.41 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 16 | 2.41 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 16 | 2.41 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 16 | 2.41 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 16 | 2.41 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 10 | 2.41 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 10 | 2.41 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 10 | 2.41 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 12 | 2.4 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 12 | 2.4 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 3 | 2.4 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 3 | 2.4 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 9 | 2.4 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 9 | 2.4 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 10 | 2.4 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 10 | 2.4 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 10 | 2.4 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 10 | 2.4 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 14 | 2.4 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 14 | 2.4 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 18 | 2.4 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 18 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 18 | 2.4 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 18 | 2.4 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 18 | 2.4 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 18 | 2.4 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 11 | 2.4 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 11 | 2.4 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 11 | 2.4 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 11 | 2.4 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 11 | 2.4 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 11 | 2.4 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 3 | 2.4 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 3 | 2.4 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 4 | 2.4 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 4 | 2.4 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 10 | 2.4 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 10 | 2.4 |
| (1,9413) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 16 | 2.4 |
| (1,9413) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 16 | 2.4 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 20 | 2.4 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 20 | 2.4 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 13 | 2.4 |
| (1,9365) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 13 | 2.4 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 10 | 2.4 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 10 | 2.4 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 17 | 2.4 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 17 | 2.4 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG2 | 13 | 2.4 |
| (1,9284) | 1:103:A:PHE:HD1 | 1:104:A:GLU:HG3 | 13 | 2.4 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG2 | 13 | 2.4 |
| (1,9284) | 1:103:A:PHE:HD2 | 1:104:A:GLU:HG3 | 13 | 2.4 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 4 | 2.4 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 4 | 2.4 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 13 | 2.4 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 13 | 2.4 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 13 | 2.4 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 13 | 2.4 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 13 | 2.4 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 13 | 2.4 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 13 | 2.4 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 13 | 2.4 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 5 | 2.4 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 5 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 5 | 2.4 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 5 | 2.4 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 5 | 2.4 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 5 | 2.4 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 13 | 2.4 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 13 | 2.4 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 13 | 2.4 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 13 | 2.4 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 13 | 2.4 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 13 | 2.4 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 11 | 2.4 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 11 | 2.4 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 14 | 2.4 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 14 | 2.4 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 15 | 2.4 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 15 | 2.4 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 17 | 2.4 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 17 | 2.4 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 19 | 2.4 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 19 | 2.4 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 9 | 2.4 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 9 | 2.4 |
| (1,8887) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 15 | 2.4 |
| (1,8887) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 15 | 2.4 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 18 | 2.4 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 18 | 2.4 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 12 | 2.4 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 12 | 2.4 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 7 | 2.4 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 7 | 2.4 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 7 | 2.4 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 7 | 2.4 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 2 | 2.4 |
| (1,8782) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 2 | 2.4 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 2 | 2.4 |
| (1,8782) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 2 | 2.4 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 20 | 2.4 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 20 | 2.4 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 9 | 2.4 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 9 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 3 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 3 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 3 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 3 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 5 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 5 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 5 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 5 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 9 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 9 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 9 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 9 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 15 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 15 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 15 | 2.4 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 15 | 2.4 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 2 | 2.4 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 2 | 2.4 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB2 | 15 | 2.4 |
| (1,8643) | 1:25:A:PHE:HB2 | 1:32:A:SER:HB3 | 15 | 2.4 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB2 | 15 | 2.4 |
| (1,8643) | 1:25:A:PHE:HB3 | 1:32:A:SER:HB3 | 15 | 2.4 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 7 | 2.4 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 7 | 2.4 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 7 | 2.4 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 7 | 2.4 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 12 | 2.4 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 12 | 2.4 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 9 | 2.4 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 9 | 2.4 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 9 | 2.4 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 11 | 2.4 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 1 | 2.4 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 1 | 2.4 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 1 | 2.4 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 1 | 2.4 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 1 | 2.4 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 1 | 2.4 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 7 | 2.4 |
| (1,8292) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 7 | 2.4 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 12 | 2.4 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 15 | 2.4 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 15 | 2.4 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 15 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 5 | 2.4 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 18 | 2.4 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 18 | 2.4 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 18 | 2.4 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 17 | 2.4 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 17 | 2.4 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 17 | 2.4 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 14 | 2.4 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 14 | 2.4 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 18 | 2.4 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 18 | 2.4 |
| (1,7291) | 1:23:A:TYR:HD1 | 1:24:A:TYR:H | 11 | 2.4 |
| (1,7291) | 1:23:A:TYR:HD2 | 1:24:A:TYR:H | 11 | 2.4 |
| (1,7234) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 10 | 2.4 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 15 | 2.4 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 15 | 2.4 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 8 | 2.4 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 8 | 2.4 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 9 | 2.4 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 9 | 2.4 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 4 | 2.4 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 8 | 2.4 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 10 | 2.4 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 10 | 2.4 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 10 | 2.4 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 18 | 2.4 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 18 | 2.4 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 18 | 2.4 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 7 | 2.4 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 7 | 2.4 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 7 | 2.4 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 4 | 2.4 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 8 | 2.4 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 15 | 2.4 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 15 | 2.4 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 15 | 2.4 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 9 | 2.4 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 19 | 2.4 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 5 | 2.4 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 2 | 2.4 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 2 | 2.4 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 3 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 3 | 2.4 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 3 | 2.4 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 10 | 2.4 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 10 | 2.4 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 10 | 2.4 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 19 | 2.4 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 2 | 2.4 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 2 | 2.4 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 2 | 2.4 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 15 | 2.4 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 4 | 2.4 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 4 | 2.4 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 4 | 2.4 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 18 | 2.4 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 18 | 2.4 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 18 | 2.4 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 18 | 2.4 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 8 | 2.4 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 8 | 2.4 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 8 | 2.4 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 14 | 2.4 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 14 | 2.4 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 2 | 2.4 |
| (1,6119) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 20 | 2.4 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 13 | 2.4 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 13 | 2.4 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 13 | 2.4 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 20 | 2.4 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 20 | 2.4 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 15 | 2.4 |
| (1,5980) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 10 | 2.4 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 15 | 2.4 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 15 | 2.4 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 15 | 2.4 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 15 | 2.4 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 15 | 2.4 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 15 | 2.4 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 8 | 2.4 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 16 | 2.4 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 7 | 2.4 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 7 | 2.4 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 7 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 7 | 2.4 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 7 | 2.4 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 7 | 2.4 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 7 | 2.4 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 7 | 2.4 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 7 | 2.4 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 17 | 2.4 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 17 | 2.4 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 17 | 2.4 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 6 | 2.4 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 6 | 2.4 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 6 | 2.4 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 14 | 2.4 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 14 | 2.4 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 14 | 2.4 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 12 | 2.4 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 17 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 9 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 9 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 9 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 12 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 12 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 12 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 14 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 14 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 14 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 16 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 16 | 2.4 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 16 | 2.4 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 3 | 2.4 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 3 | 2.4 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 3 | 2.4 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 19 | 2.4 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 19 | 2.4 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 19 | 2.4 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 4 | 2.4 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 8 | 2.4 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 17 | 2.4 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 10 | 2.4 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 10 | 2.4 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 10 | 2.4 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 10 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 10 | 2.4 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 10 | 2.4 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 10 | 2.4 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 10 | 2.4 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 10 | 2.4 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 7 | 2.4 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 7 | 2.4 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 7 | 2.4 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 15 | 2.4 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 15 | 2.4 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 15 | 2.4 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 2 | 2.4 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 2 | 2.4 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 2 | 2.4 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 8 | 2.4 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 8 | 2.4 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 8 | 2.4 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 4 | 2.4 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 9 | 2.4 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 5 | 2.4 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 5 | 2.4 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 5 | 2.4 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 16 | 2.4 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 16 | 2.4 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 16 | 2.4 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 4 | 2.4 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 4 | 2.4 |
| (1,5090) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 4 | 2.4 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 3 | 2.4 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 3 | 2.4 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 3 | 2.4 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 3 | 2.4 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 5 | 2.4 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 14 | 2.4 |
| (1,4938) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 18 | 2.4 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 2 | 2.4 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 11 | 2.4 |
| (1,4861) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 9 | 2.4 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 13 | 2.4 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 13 | 2.4 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 13 | 2.4 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 8 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 9 | 2.4 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 10 | 2.4 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 15 | 2.4 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 15 | 2.4 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 15 | 2.4 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 19 | 2.4 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 19 | 2.4 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 12 | 2.4 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 12 | 2.4 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 12 | 2.4 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 10 | 2.4 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 3 | 2.4 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 3 | 2.4 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 1 | 2.4 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 1 | 2.4 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 1 | 2.4 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 5 | 2.4 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 5 | 2.4 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 9 | 2.4 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 9 | 2.4 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 5 | 2.4 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 5 | 2.4 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 5 | 2.4 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 5 | 2.4 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 5 | 2.4 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 5 | 2.4 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 10 | 2.4 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 10 | 2.4 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 11 | 2.4 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 17 | 2.4 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 17 | 2.4 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 17 | 2.4 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 17 | 2.4 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 17 | 2.4 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 17 | 2.4 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 19 | 2.4 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 19 | 2.4 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 19 | 2.4 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 19 | 2.4 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 19 | 2.4 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 19 | 2.4 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 6 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 6 | 2.4 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 6 | 2.4 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 6 | 2.4 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 17 | 2.4 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 17 | 2.4 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 17 | 2.4 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 17 | 2.4 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 4 | 2.4 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 4 | 2.4 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 10 | 2.4 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 10 | 2.4 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 1 | 2.4 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 1 | 2.4 |
| (1,4455) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 1 | 2.4 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 1 | 2.4 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 1 | 2.4 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 10 | 2.4 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 10 | 2.4 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 9 | 2.4 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 9 | 2.4 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 12 | 2.4 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 12 | 2.4 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 14 | 2.4 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 14 | 2.4 |
| (1,4396) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 16 | 2.4 |
| (1,4396) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 16 | 2.4 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 2 | 2.4 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 2 | 2.4 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 13 | 2.4 |
| (1,4370) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 13 | 2.4 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 9 | 2.4 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 9 | 2.4 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 14 | 2.4 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 14 | 2.4 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 18 | 2.4 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 18 | 2.4 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 5 | 2.4 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 5 | 2.4 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 5 | 2.4 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 5 | 2.4 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 8 | 2.4 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 8 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 8 | 2.4 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 19 | 2.4 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 19 | 2.4 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 7 | 2.4 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 7 | 2.4 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 10 | 2.4 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 10 | 2.4 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 12 | 2.4 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 12 | 2.4 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 4 | 2.4 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 4 | 2.4 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 15 | 2.4 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 19 | 2.4 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 19 | 2.4 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 19 | 2.4 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 19 | 2.4 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 19 | 2.4 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 19 | 2.4 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 13 | 2.4 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 13 | 2.4 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 13 | 2.4 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 13 | 2.4 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 13 | 2.4 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 13 | 2.4 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 5 | 2.4 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 5 | 2.4 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 5 | 2.4 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 5 | 2.4 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 5 | 2.4 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 5 | 2.4 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 9 | 2.4 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 5 | 2.4 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 5 | 2.4 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 5 | 2.4 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 5 | 2.4 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 5 | 2.4 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 5 | 2.4 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 18 | 2.4 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 18 | 2.4 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 18 | 2.4 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 18 | 2.4 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 18 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 18 | 2.4 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 15 | 2.4 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 15 | 2.4 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 4 | 2.4 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 4 | 2.4 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 5 | 2.4 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 5 | 2.4 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 19 | 2.4 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 19 | 2.4 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 1 | 2.4 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 10 | 2.4 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 10 | 2.4 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 9 | 2.4 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 9 | 2.4 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 19 | 2.4 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 19 | 2.4 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 5 | 2.4 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 20 | 2.4 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 20 | 2.4 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 7 | 2.4 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 7 | 2.4 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 7 | 2.4 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 7 | 2.4 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 13 | 2.4 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 13 | 2.4 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 1 | 2.4 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 18 | 2.4 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 18 | 2.4 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 18 | 2.4 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 18 | 2.4 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 18 | 2.4 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 2 | 2.4 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 2 | 2.4 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 3 | 2.4 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 3 | 2.4 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 10 | 2.4 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 10 | 2.4 |
| (1,3432) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 10 | 2.4 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 2 | 2.4 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 8 | 2.4 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 14 | 2.4 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 20 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 10 | 2.4 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 18 | 2.4 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 18 | 2.4 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 18 | 2.4 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 10 | 2.4 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 10 | 2.4 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 4 | 2.4 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 4 | 2.4 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 4 | 2.4 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 9 | 2.4 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 19 | 2.4 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 1 | 2.4 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 8 | 2.4 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 3 | 2.4 |
| (1,2922) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 7 | 2.4 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 6 | 2.4 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 10 | 2.4 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 10 | 2.4 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 10 | 2.4 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 18 | 2.4 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 18 | 2.4 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 18 | 2.4 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 7 | 2.4 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 7 | 2.4 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 7 | 2.4 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 2 | 2.4 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 4 | 2.4 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 1 | 2.4 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 1 | 2.4 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 8 | 2.4 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 15 | 2.4 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 15 | 2.4 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 15 | 2.4 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 9 | 2.4 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 17 | 2.4 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 2 | 2.4 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 8 | 2.4 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 19 | 2.4 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 5 | 2.4 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 3 | 2.4 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 3 | 2.4 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 16 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 16 | 2.4 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 6 | 2.4 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 6 | 2.4 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 20 | 2.4 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 20 | 2.4 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 8 | 2.4 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 8 | 2.4 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 11 | 2.4 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 11 | 2.4 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 20 | 2.4 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 20 | 2.4 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 2 | 2.4 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 2 | 2.4 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 18 | 2.4 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 12 | 2.4 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 10 | 2.4 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 3 | 2.4 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 3 | 2.4 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 3 | 2.4 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 10 | 2.4 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 10 | 2.4 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 10 | 2.4 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 19 | 2.4 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 8 | 2.4 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 4 | 2.4 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 6 | 2.4 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 12 | 2.4 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 15 | 2.4 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 2 | 2.4 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 2 | 2.4 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 2 | 2.4 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 15 | 2.4 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 17 | 2.4 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 4 | 2.4 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 4 | 2.4 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 4 | 2.4 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 2 | 2.4 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 18 | 2.4 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 18 | 2.4 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 18 | 2.4 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 18 | 2.4 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 8 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 8 | 2.4 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 8 | 2.4 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 15 | 2.4 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 14 | 2.4 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 2 | 2.4 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 4 | 2.4 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 12 | 2.4 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 2 | 2.4 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 2 | 2.4 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 2 | 2.4 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 10 | 2.4 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 10 | 2.4 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 10 | 2.4 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 1 | 2.4 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 8 | 2.4 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 14 | 2.4 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 9 | 2.4 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 2 | 2.4 |
| (1,1696) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 20 | 2.4 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 13 | 2.4 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 13 | 2.4 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 13 | 2.4 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 7 | 2.4 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 7 | 2.4 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 7 | 2.4 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 6 | 2.4 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 6 | 2.4 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 6 | 2.4 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 6 | 2.4 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 17 | 2.4 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 17 | 2.4 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 17 | 2.4 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 17 | 2.4 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 16 | 2.4 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 6 | 2.4 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 20 | 2.4 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 20 | 2.4 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 15 | 2.4 |
| (1,1456) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 10 | 2.4 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 9 | 2.4 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 9 | 2.4 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 9 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 9 | 2.4 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 9 | 2.4 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 9 | 2.4 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 8 | 2.4 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 16 | 2.4 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 7 | 2.4 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 7 | 2.4 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 7 | 2.4 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 7 | 2.4 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 7 | 2.4 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 7 | 2.4 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 7 | 2.4 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 7 | 2.4 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 7 | 2.4 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 5 | 2.4 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 5 | 2.4 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 5 | 2.4 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 16 | 2.4 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 16 | 2.4 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 16 | 2.4 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 14 | 2.4 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 14 | 2.4 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 14 | 2.4 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 17 | 2.4 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 17 | 2.4 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 17 | 2.4 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 11 | 2.4 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 11 | 2.4 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 13 | 2.4 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 13 | 2.4 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 19 | 2.4 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 19 | 2.4 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 6 | 2.4 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 6 | 2.4 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 6 | 2.4 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 14 | 2.4 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 14 | 2.4 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 14 | 2.4 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 12 | 2.4 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 2.4 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 20 | 2.4 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 5 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 5 | 2.4 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 5 | 2.4 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 11 | 2.4 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 6 | 2.4 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 8 | 2.4 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 18 | 2.4 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 18 | 2.4 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 2 | 2.4 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 2 | 2.4 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 2 | 2.4 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 2 | 2.4 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 7 | 2.4 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 2 | 2.4 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 2 | 2.4 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 2 | 2.4 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 8 | 2.4 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 8 | 2.4 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 8 | 2.4 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 20 | 2.4 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 20 | 2.4 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 20 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 9 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 9 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 9 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 12 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 12 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 12 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 14 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 14 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 14 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 16 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 16 | 2.4 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 16 | 2.4 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 19 | 2.4 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 11 | 2.4 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 3 | 2.4 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 3 | 2.4 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 3 | 2.4 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 15 | 2.4 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 15 | 2.4 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 15 | 2.4 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 3 | 2.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 3 | 2.4 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 3 | 2.4 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 19 | 2.4 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 19 | 2.4 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 19 | 2.4 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 3 | 2.4 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 3 | 2.4 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 3 | 2.4 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 16 | 2.4 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 16 | 2.4 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 16 | 2.4 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 7 | 2.4 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 13 | 2.4 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 6 | 2.4 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 3 | 2.4 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 6 | 2.4 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 6 | 2.4 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 6 | 2.4 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 5 | 2.4 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 5 | 2.4 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 5 | 2.4 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 8 | 2.4 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 8 | 2.4 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 8 | 2.4 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 8 | 2.4 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 8 | 2.4 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 8 | 2.4 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 8 | 2.4 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 12 | 2.39 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 12 | 2.39 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 12 | 2.39 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 4 | 2.39 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 12 | 2.39 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 12 | 2.39 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 16 | 2.39 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 16 | 2.39 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 8 | 2.39 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 8 | 2.39 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 9 | 2.39 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 9 | 2.39 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 9 | 2.39 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 9 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 2 | 2.39 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 2 | 2.39 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 11 | 2.39 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 11 | 2.39 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 3 | 2.39 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 3 | 2.39 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 12 | 2.39 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 12 | 2.39 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 12 | 2.39 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 12 | 2.39 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 8 | 2.39 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 8 | 2.39 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 1 | 2.39 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 1 | 2.39 |
| (1,9320) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 11 | 2.39 |
| (1,9320) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 11 | 2.39 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 16 | 2.39 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 16 | 2.39 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 3 | 2.39 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 3 | 2.39 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 10 | 2.39 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 10 | 2.39 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 10 | 2.39 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 10 | 2.39 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 10 | 2.39 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 10 | 2.39 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 19 | 2.39 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 19 | 2.39 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 19 | 2.39 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 19 | 2.39 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 10 | 2.39 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 10 | 2.39 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 10 | 2.39 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 10 | 2.39 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 12 | 2.39 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 12 | 2.39 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 17 | 2.39 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 17 | 2.39 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 19 | 2.39 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 19 | 2.39 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 19 | 2.39 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 19 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 19 | 2.39 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 19 | 2.39 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 20 | 2.39 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 20 | 2.39 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 20 | 2.39 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 2.39 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 2.39 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 2.39 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 18 | 2.39 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 18 | 2.39 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 18 | 2.39 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 18 | 2.39 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 10 | 2.39 |
| (1,8610) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 10 | 2.39 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 15 | 2.39 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 15 | 2.39 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 18 | 2.39 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 18 | 2.39 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 18 | 2.39 |
| (1,8393) | 1:140:A:ALA:H | 1:141:A:LEU:HG | 7 | 2.39 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 3 | 2.39 |
| (1,8263) | 1:119:A:ARG:HB2 | 1:120:A:GLY:H | 5 | 2.39 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 8 | 2.39 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 12 | 2.39 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 12 | 2.39 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 12 | 2.39 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 12 | 2.39 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 12 | 2.39 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 12 | 2.39 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 12 | 2.39 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 12 | 2.39 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 12 | 2.39 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 4 | 2.39 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 4 | 2.39 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 4 | 2.39 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 4 | 2.39 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 4 | 2.39 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 4 | 2.39 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 14 | 2.39 |
| (1,7333) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 14 | 2.39 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 4 | 2.39 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 8 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 1 | 2.39 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 9 | 2.39 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 9 | 2.39 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 8 | 2.39 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 15 | 2.39 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 9 | 2.39 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 9 | 2.39 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 9 | 2.39 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 12 | 2.39 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 12 | 2.39 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 12 | 2.39 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 8 | 2.39 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 8 | 2.39 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 8 | 2.39 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 10 | 2.39 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 10 | 2.39 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 10 | 2.39 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 14 | 2.39 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 14 | 2.39 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 14 | 2.39 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 18 | 2.39 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 18 | 2.39 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 18 | 2.39 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 15 | 2.39 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 17 | 2.39 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 1 | 2.39 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 1 | 2.39 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 1 | 2.39 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 5 | 2.39 |
| (1,6714) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 8 | 2.39 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 1 | 2.39 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 18 | 2.39 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 14 | 2.39 |
| (1,6565) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 20 | 2.39 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 16 | 2.39 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 15 | 2.39 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 15 | 2.39 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 15 | 2.39 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 3 | 2.39 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 3 | 2.39 |
| (1,6513) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 3 | 2.39 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 6 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 16 | 2.39 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 12 | 2.39 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 5 | 2.39 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 7 | 2.39 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 7 | 2.39 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 7 | 2.39 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 7 | 2.39 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 3 | 2.39 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 5 | 2.39 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 18 | 2.39 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 18 | 2.39 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 18 | 2.39 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 2 | 2.39 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 5 | 2.39 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 16 | 2.39 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 16 | 2.39 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 16 | 2.39 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 3 | 2.39 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 3 | 2.39 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 3 | 2.39 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 3 | 2.39 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 13 | 2.39 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 13 | 2.39 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 15 | 2.39 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 14 | 2.39 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 14 | 2.39 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 14 | 2.39 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 1 | 2.39 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 1 | 2.39 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 1 | 2.39 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 1 | 2.39 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 1 | 2.39 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 1 | 2.39 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 17 | 2.39 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 3 | 2.39 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 3 | 2.39 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 14 | 2.39 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 5 | 2.39 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 16 | 2.39 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 4 | 2.39 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 4 | 2.39 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 4 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 16 | 2.39 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 16 | 2.39 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 16 | 2.39 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 16 | 2.39 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 16 | 2.39 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 16 | 2.39 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 16 | 2.39 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 16 | 2.39 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 16 | 2.39 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 17 | 2.39 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 17 | 2.39 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 17 | 2.39 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 5 | 2.39 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 5 | 2.39 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 14 | 2.39 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 16 | 2.39 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 13 | 2.39 |
| (1,6005) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 13 | 2.39 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 1 | 2.39 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 9 | 2.39 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 9 | 2.39 |
| (1,5968) | 1:128:A:GLY:H | 1:129:A:GLN:H | 16 | 2.39 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 17 | 2.39 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 11 | 2.39 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 7 | 2.39 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 9 | 2.39 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 9 | 2.39 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 9 | 2.39 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 4 | 2.39 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 10 | 2.39 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 6 | 2.39 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 17 | 2.39 |
| (1,5572) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 12 | 2.39 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 10 | 2.39 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 10 | 2.39 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 10 | 2.39 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 10 | 2.39 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 10 | 2.39 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 10 | 2.39 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 10 | 2.39 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 10 | 2.39 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 10 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 2 | 2.39 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 2 | 2.39 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 2 | 2.39 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 12 | 2.39 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 12 | 2.39 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 12 | 2.39 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 4 | 2.39 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 4 | 2.39 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 4 | 2.39 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 5 | 2.39 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 7 | 2.39 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 7 | 2.39 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 7 | 2.39 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 7 | 2.39 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 7 | 2.39 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 7 | 2.39 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 7 | 2.39 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 7 | 2.39 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 7 | 2.39 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 18 | 2.39 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 18 | 2.39 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 18 | 2.39 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 14 | 2.39 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 14 | 2.39 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 14 | 2.39 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 14 | 2.39 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 14 | 2.39 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 14 | 2.39 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 14 | 2.39 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 14 | 2.39 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 14 | 2.39 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 2 | 2.39 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 6 | 2.39 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 6 | 2.39 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 6 | 2.39 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 13 | 2.39 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 13 | 2.39 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 13 | 2.39 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 13 | 2.39 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 13 | 2.39 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 13 | 2.39 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 3 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 3 | 2.39 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 3 | 2.39 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 6 | 2.39 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 6 | 2.39 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 6 | 2.39 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 15 | 2.39 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 15 | 2.39 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 15 | 2.39 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 19 | 2.39 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 3 | 2.39 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 16 | 2.39 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 6 | 2.39 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 6 | 2.39 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 6 | 2.39 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 5 | 2.39 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 5 | 2.39 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 5 | 2.39 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 7 | 2.39 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 7 | 2.39 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 7 | 2.39 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 9 | 2.39 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 9 | 2.39 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 9 | 2.39 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 12 | 2.39 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 12 | 2.39 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 12 | 2.39 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 6 | 2.39 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 6 | 2.39 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 6 | 2.39 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 19 | 2.39 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 11 | 2.39 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 11 | 2.39 |
| (1,5061) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 11 | 2.39 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 6 | 2.39 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 7 | 2.39 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 1 | 2.39 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 2 | 2.39 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 7 | 2.39 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 13 | 2.39 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 7 | 2.39 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 7 | 2.39 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 7 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 15 | 2.39 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 15 | 2.39 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 12 | 2.39 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 9 | 2.39 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 9 | 2.39 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 9 | 2.39 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 16 | 2.39 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 11 | 2.39 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 11 | 2.39 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 11 | 2.39 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 12 | 2.39 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 12 | 2.39 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 1 | 2.39 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 8 | 2.39 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 8 | 2.39 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 12 | 2.39 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 9 | 2.39 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 9 | 2.39 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 9 | 2.39 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 9 | 2.39 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 7 | 2.39 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 7 | 2.39 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 7 | 2.39 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 7 | 2.39 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 7 | 2.39 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 7 | 2.39 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 10 | 2.39 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 10 | 2.39 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 10 | 2.39 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 10 | 2.39 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 2 | 2.39 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 2 | 2.39 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 11 | 2.39 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 11 | 2.39 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 3 | 2.39 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 3 | 2.39 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 5 | 2.39 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 5 | 2.39 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 12 | 2.39 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 12 | 2.39 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 12 | 2.39 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 12 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 19 | 2.39 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 19 | 2.39 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 19 | 2.39 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 19 | 2.39 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 19 | 2.39 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 19 | 2.39 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 3 | 2.39 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 3 | 2.39 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 9 | 2.39 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 9 | 2.39 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 18 | 2.39 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 18 | 2.39 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 14 | 2.39 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 7 | 2.39 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 7 | 2.39 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 1 | 2.39 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 1 | 2.39 |
| (1,4335) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 16 | 2.39 |
| (1,4310) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 11 | 2.39 |
| (1,4310) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 11 | 2.39 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 16 | 2.39 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 16 | 2.39 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 10 | 2.39 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 10 | 2.39 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 10 | 2.39 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 10 | 2.39 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 10 | 2.39 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 10 | 2.39 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB2 | 2 | 2.39 |
| (1,4257) | 1:102:A:ASP:H | 1:106:A:LEU:HB3 | 2 | 2.39 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 11 | 2.39 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 11 | 2.39 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 9 | 2.39 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 9 | 2.39 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 9 | 2.39 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 17 | 2.39 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 17 | 2.39 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 17 | 2.39 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 16 | 2.39 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 12 | 2.39 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 12 | 2.39 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 12 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 13 | 2.39 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 13 | 2.39 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 13 | 2.39 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 1 | 2.39 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 1 | 2.39 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 10 | 2.39 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 10 | 2.39 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 1 | 2.39 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 1 | 2.39 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 1 | 2.39 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 19 | 2.39 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 19 | 2.39 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 19 | 2.39 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 19 | 2.39 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 19 | 2.39 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 19 | 2.39 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 3 | 2.39 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 3 | 2.39 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 3 | 2.39 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 3 | 2.39 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 3 | 2.39 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 3 | 2.39 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 12 | 2.39 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 20 | 2.39 |
| (1,3492) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 17 | 2.39 |
| (1,3492) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 17 | 2.39 |
| (1,3492) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 17 | 2.39 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 5 | 2.39 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 5 | 2.39 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 5 | 2.39 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 2 | 2.39 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 2 | 2.39 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 2 | 2.39 |
| (1,3404) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 13 | 2.39 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 5 | 2.39 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 16 | 2.39 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 4 | 2.39 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 8 | 2.39 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 7 | 2.39 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 9 | 2.39 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 9 | 2.39 |
| (1,3383) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 1 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3377) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 14 | 2.39 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 9 | 2.39 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 15 | 2.39 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 15 | 2.39 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 17 | 2.39 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 17 | 2.39 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 17 | 2.39 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 10 | 2.39 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 10 | 2.39 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 15 | 2.39 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 15 | 2.39 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 15 | 2.39 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 2 | 2.39 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 11 | 2.39 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 11 | 2.39 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 11 | 2.39 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 1 | 2.39 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 1 | 2.39 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 1 | 2.39 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 7 | 2.39 |
| (1,3106) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 15 | 2.39 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 11 | 2.39 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 15 | 2.39 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 12 | 2.39 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 12 | 2.39 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 12 | 2.39 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 8 | 2.39 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 8 | 2.39 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 8 | 2.39 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 15 | 2.39 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 14 | 2.39 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 17 | 2.39 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 16 | 2.39 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 16 | 2.39 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 10 | 2.39 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 10 | 2.39 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 10 | 2.39 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 1 | 2.39 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 1 | 2.39 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 1 | 2.39 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 5 | 2.39 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 9 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 9 | 2.39 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 15 | 2.39 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 15 | 2.39 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 12 | 2.39 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 12 | 2.39 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 16 | 2.39 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 16 | 2.39 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 17 | 2.39 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 17 | 2.39 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 17 | 2.39 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 1 | 2.39 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 9 | 2.39 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 13 | 2.39 |
| (1,2572) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 14 | 2.39 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 1 | 2.39 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 1 | 2.39 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 18 | 2.39 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 18 | 2.39 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 15 | 2.39 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 15 | 2.39 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 10 | 2.39 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 10 | 2.39 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 1 | 2.39 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 18 | 2.39 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 19 | 2.39 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 14 | 2.39 |
| (1,2426) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 20 | 2.39 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 14 | 2.39 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 14 | 2.39 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 14 | 2.39 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 7 | 2.39 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 7 | 2.39 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 7 | 2.39 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 16 | 2.39 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 15 | 2.39 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 15 | 2.39 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 15 | 2.39 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 3 | 2.39 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 3 | 2.39 |
| (1,2352) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 3 | 2.39 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 6 | 2.39 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 16 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 12 | 2.39 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 9 | 2.39 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 7 | 2.39 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 11 | 2.39 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 14 | 2.39 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 14 | 2.39 |
| (1,2160) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 14 | 2.39 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 4 | 2.39 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 4 | 2.39 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 4 | 2.39 |
| (1,2150) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 14 | 2.39 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 7 | 2.39 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 7 | 2.39 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 7 | 2.39 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 3 | 2.39 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 5 | 2.39 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 20 | 2.39 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 20 | 2.39 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 20 | 2.39 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 18 | 2.39 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 18 | 2.39 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 18 | 2.39 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 17 | 2.39 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 5 | 2.39 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 5 | 2.39 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 15 | 2.39 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 7 | 2.39 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 16 | 2.39 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 16 | 2.39 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 16 | 2.39 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 14 | 2.39 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 14 | 2.39 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 14 | 2.39 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 3 | 2.39 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 3 | 2.39 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 13 | 2.39 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 13 | 2.39 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 15 | 2.39 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 14 | 2.39 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 14 | 2.39 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 14 | 2.39 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 16 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 16 | 2.39 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 16 | 2.39 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 1 | 2.39 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 1 | 2.39 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 1 | 2.39 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 1 | 2.39 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 1 | 2.39 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 1 | 2.39 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 12 | 2.39 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 3 | 2.39 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 3 | 2.39 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 14 | 2.39 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 5 | 2.39 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 16 | 2.39 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 4 | 2.39 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 4 | 2.39 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 4 | 2.39 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 6 | 2.39 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 6 | 2.39 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 6 | 2.39 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 16 | 2.39 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 16 | 2.39 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 16 | 2.39 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 16 | 2.39 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 16 | 2.39 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 16 | 2.39 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 16 | 2.39 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 16 | 2.39 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 16 | 2.39 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 17 | 2.39 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 17 | 2.39 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 17 | 2.39 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 5 | 2.39 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 5 | 2.39 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 16 | 2.39 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 10 | 2.39 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 10 | 2.39 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 10 | 2.39 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 10 | 2.39 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 15 | 2.39 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 15 | 2.39 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 15 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 13 | 2.39 |
| (1,1508) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 13 | 2.39 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 1 | 2.39 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 20 | 2.39 |
| (1,1428) | 1:128:A:GLY:H | 1:129:A:GLN:H | 16 | 2.39 |
| (1,1396) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 3 | 2.39 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 17 | 2.39 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 7 | 2.39 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 14 | 2.39 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 14 | 2.39 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 14 | 2.39 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 17 | 2.39 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 17 | 2.39 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 17 | 2.39 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 9 | 2.39 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 9 | 2.39 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 9 | 2.39 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 2 | 2.39 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 2 | 2.39 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 4 | 2.39 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 10 | 2.39 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 16 | 2.39 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 2 | 2.39 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 12 | 2.39 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 6 | 2.39 |
| (1,812) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 18 | 2.39 |
| (1,812) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 18 | 2.39 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 9 | 2.39 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 9 | 2.39 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 8 | 2.39 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 8 | 2.39 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 8 | 2.39 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 17 | 2.39 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 10 | 2.39 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 10 | 2.39 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 10 | 2.39 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 10 | 2.39 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 10 | 2.39 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 10 | 2.39 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 10 | 2.39 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 10 | 2.39 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 10 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 17 | 2.39 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 17 | 2.39 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 17 | 2.39 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 2 | 2.39 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 2 | 2.39 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 2 | 2.39 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 12 | 2.39 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 12 | 2.39 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 12 | 2.39 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 4 | 2.39 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 4 | 2.39 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 4 | 2.39 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 5 | 2.39 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 13 | 2.39 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 10 | 2.39 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 7 | 2.39 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 7 | 2.39 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 7 | 2.39 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 7 | 2.39 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 7 | 2.39 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 7 | 2.39 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 7 | 2.39 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 7 | 2.39 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 7 | 2.39 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 18 | 2.39 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 18 | 2.39 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 18 | 2.39 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 3 | 2.39 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 3 | 2.39 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 3 | 2.39 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 3 | 2.39 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 10 | 2.39 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 10 | 2.39 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 10 | 2.39 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 7 | 2.39 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 7 | 2.39 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 7 | 2.39 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 1 | 2.39 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 11 | 2.39 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 11 | 2.39 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 11 | 2.39 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 18 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 18 | 2.39 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 18 | 2.39 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 10 | 2.39 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 10 | 2.39 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 10 | 2.39 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 16 | 2.39 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 16 | 2.39 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 16 | 2.39 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 20 | 2.38 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 20 | 2.38 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 6 | 2.38 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 17 | 2.38 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 17 | 2.38 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 3 | 2.38 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 3 | 2.38 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 3 | 2.38 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 3 | 2.38 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 19 | 2.38 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 19 | 2.38 |
| (1,9512) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 20 | 2.38 |
| (1,9512) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 2.38 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 8 | 2.38 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 8 | 2.38 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 6 | 2.38 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 6 | 2.38 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 8 | 2.38 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 8 | 2.38 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 20 | 2.38 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 20 | 2.38 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 20 | 2.38 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 20 | 2.38 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 10 | 2.38 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 10 | 2.38 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 4 | 2.38 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 4 | 2.38 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 2 | 2.38 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 2 | 2.38 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 2 | 2.38 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 2 | 2.38 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 3 | 2.38 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 3 | 2.38 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 16 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 16 | 2.38 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 7 | 2.38 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 7 | 2.38 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 1 | 2.38 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 1 | 2.38 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 1 | 2.38 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 1 | 2.38 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 3 | 2.38 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 3 | 2.38 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 3 | 2.38 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 3 | 2.38 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 17 | 2.38 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 17 | 2.38 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 13 | 2.38 |
| (1,9291) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 13 | 2.38 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 20 | 2.38 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 20 | 2.38 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 1 | 2.38 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 1 | 2.38 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 19 | 2.38 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 19 | 2.38 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 18 | 2.38 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 18 | 2.38 |
| (1,8948) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 20 | 2.38 |
| (1,8948) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 20 | 2.38 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 5 | 2.38 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 5 | 2.38 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 5 | 2.38 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 5 | 2.38 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 5 | 2.38 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 5 | 2.38 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 15 | 2.38 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 15 | 2.38 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 8 | 2.38 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 8 | 2.38 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 8 | 2.38 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 8 | 2.38 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 20 | 2.38 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 20 | 2.38 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 1 | 2.38 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 1 | 2.38 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 10 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 10 | 2.38 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 18 | 2.38 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 18 | 2.38 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 10 | 2.38 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 10 | 2.38 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 10 | 2.38 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 10 | 2.38 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 10 | 2.38 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 10 | 2.38 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 13 | 2.38 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 13 | 2.38 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 13 | 2.38 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 13 | 2.38 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 13 | 2.38 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 13 | 2.38 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 5 | 2.38 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 5 | 2.38 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 5 | 2.38 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 5 | 2.38 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 5 | 2.38 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 5 | 2.38 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 5 | 2.38 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 5 | 2.38 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 5 | 2.38 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 12 | 2.38 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 3 | 2.38 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE1 | 11 | 2.38 |
| (1,7282) | 1:13:A:LYS:HA | 1:24:A:TYR:HE2 | 11 | 2.38 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 9 | 2.38 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 3 | 2.38 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 15 | 2.38 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 9 | 2.38 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 9 | 2.38 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 3 | 2.38 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 3 | 2.38 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 20 | 2.38 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 20 | 2.38 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 20 | 2.38 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 2.38 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 1 | 2.38 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 1 | 2.38 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 14 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 14 | 2.38 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 19 | 2.38 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 2 | 2.38 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 2 | 2.38 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 2 | 2.38 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 19 | 2.38 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 19 | 2.38 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 3 | 2.38 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 13 | 2.38 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 8 | 2.38 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 20 | 2.38 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 20 | 2.38 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 20 | 2.38 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 1 | 2.38 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 14 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 1 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 1 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 1 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 2 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 2 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 2 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 12 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 12 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 12 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 16 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 16 | 2.38 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 16 | 2.38 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 2 | 2.38 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 2 | 2.38 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 2 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 15 | 2.38 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 15 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 17 | 2.38 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 17 | 2.38 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 17 | 2.38 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 10 | 2.38 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 15 | 2.38 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 8 | 2.38 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 14 | 2.38 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 18 | 2.38 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 20 | 2.38 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 20 | 2.38 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 17 | 2.38 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 12 | 2.38 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 12 | 2.38 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 12 | 2.38 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 2 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 3 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 3 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 3 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 3 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 3 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 3 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 3 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 3 | 2.38 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 3 | 2.38 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 10 | 2.38 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 10 | 2.38 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 10 | 2.38 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 12 | 2.38 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 3 | 2.38 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 3 | 2.38 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 3 | 2.38 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 2 | 2.38 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 2 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 2 | 2.38 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 9 | 2.38 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 6 | 2.38 |
| (1,6379) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 11 | 2.38 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 9 | 2.38 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 9 | 2.38 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 9 | 2.38 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 13 | 2.38 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 13 | 2.38 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 13 | 2.38 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 6 | 2.38 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 6 | 2.38 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 6 | 2.38 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 6 | 2.38 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 6 | 2.38 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 6 | 2.38 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 6 | 2.38 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 6 | 2.38 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 6 | 2.38 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 6 | 2.38 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 6 | 2.38 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 6 | 2.38 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 6 | 2.38 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 6 | 2.38 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 6 | 2.38 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 6 | 2.38 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 6 | 2.38 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 16 | 2.38 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 16 | 2.38 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 15 | 2.38 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 9 | 2.38 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 1 | 2.38 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 13 | 2.38 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 1 | 2.38 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 13 | 2.38 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 19 | 2.38 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 19 | 2.38 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 19 | 2.38 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 10 | 2.38 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 10 | 2.38 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 19 | 2.38 |
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 19 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6056) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 19 | 2.38 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 12 | 2.38 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 17 | 2.38 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 18 | 2.38 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 18 | 2.38 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 14 | 2.38 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 10 | 2.38 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 14 | 2.38 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 14 | 2.38 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 14 | 2.38 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 9 | 2.38 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 16 | 2.38 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 4 | 2.38 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 4 | 2.38 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 4 | 2.38 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 9 | 2.38 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 9 | 2.38 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 9 | 2.38 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 2 | 2.38 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 2 | 2.38 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 2 | 2.38 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 5 | 2.38 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 5 | 2.38 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 5 | 2.38 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 1 | 2.38 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 1 | 2.38 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 1 | 2.38 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 3 | 2.38 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 4 | 2.38 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 4 | 2.38 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 4 | 2.38 |
| (1,5786) | 1:115:A:SER:H | 1:116:A:ALA:H | 18 | 2.38 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 9 | 2.38 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 10 | 2.38 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 10 | 2.38 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 10 | 2.38 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 16 | 2.38 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 12 | 2.38 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 15 | 2.38 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 9 | 2.38 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 8 | 2.38 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 18 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 18 | 2.38 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 18 | 2.38 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 15 | 2.38 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 7 | 2.38 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 7 | 2.38 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 7 | 2.38 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 19 | 2.38 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 19 | 2.38 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 19 | 2.38 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 19 | 2.38 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 19 | 2.38 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 19 | 2.38 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 19 | 2.38 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 19 | 2.38 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 19 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 1 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 1 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 1 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 5 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 5 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 5 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 12 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 12 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 12 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 19 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 19 | 2.38 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 19 | 2.38 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 7 | 2.38 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 4 | 2.38 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 10 | 2.38 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 10 | 2.38 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 10 | 2.38 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 18 | 2.38 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 18 | 2.38 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 18 | 2.38 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 1 | 2.38 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 1 | 2.38 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 1 | 2.38 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 2 | 2.38 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 2 | 2.38 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 2 | 2.38 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 18 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 18 | 2.38 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 18 | 2.38 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 19 | 2.38 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 19 | 2.38 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 19 | 2.38 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 11 | 2.38 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 4 | 2.38 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 14 | 2.38 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 20 | 2.38 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 20 | 2.38 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 20 | 2.38 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 20 | 2.38 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 20 | 2.38 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 20 | 2.38 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 12 | 2.38 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 14 | 2.38 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 1 | 2.38 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 1 | 2.38 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 1 | 2.38 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 11 | 2.38 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 11 | 2.38 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 11 | 2.38 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 4 | 2.38 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 4 | 2.38 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 4 | 2.38 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 2 | 2.38 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 2 | 2.38 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 2 | 2.38 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 3 | 2.38 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 14 | 2.38 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 7 | 2.38 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 15 | 2.38 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 10 | 2.38 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 10 | 2.38 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 10 | 2.38 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 11 | 2.38 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 11 | 2.38 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 18 | 2.38 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 2 | 2.38 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 17 | 2.38 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 17 | 2.38 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 3 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 3 | 2.38 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 11 | 2.38 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 16 | 2.38 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 7 | 2.38 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 7 | 2.38 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 7 | 2.38 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 7 | 2.38 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 7 | 2.38 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 7 | 2.38 |
| (1,4498) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 20 | 2.38 |
| (1,4498) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 2.38 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 8 | 2.38 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 8 | 2.38 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 2.38 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 2.38 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 3 | 2.38 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 3 | 2.38 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 3 | 2.38 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 3 | 2.38 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 14 | 2.38 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 14 | 2.38 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 14 | 2.38 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 14 | 2.38 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 16 | 2.38 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 10 | 2.38 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 10 | 2.38 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 2 | 2.38 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 2 | 2.38 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 5 | 2.38 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 5 | 2.38 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 2 | 2.38 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 2 | 2.38 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 2 | 2.38 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 2 | 2.38 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 15 | 2.38 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 15 | 2.38 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 19 | 2.38 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 19 | 2.38 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 7 | 2.38 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 7 | 2.38 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 1 | 2.38 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 1 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 1 | 2.38 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 1 | 2.38 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 3 | 2.38 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 3 | 2.38 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 3 | 2.38 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 3 | 2.38 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 5 | 2.38 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 5 | 2.38 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 13 | 2.38 |
| (1,4276) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 13 | 2.38 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 3 | 2.38 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 3 | 2.38 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 3 | 2.38 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 3 | 2.38 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 3 | 2.38 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 3 | 2.38 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 3 | 2.38 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 1 | 2.38 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 1 | 2.38 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 20 | 2.38 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 20 | 2.38 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 5 | 2.38 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 16 | 2.38 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 16 | 2.38 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 16 | 2.38 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 16 | 2.38 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 16 | 2.38 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 16 | 2.38 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 5 | 2.38 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 5 | 2.38 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 5 | 2.38 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 5 | 2.38 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 5 | 2.38 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 5 | 2.38 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 4 | 2.38 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 19 | 2.38 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 19 | 2.38 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 17 | 2.38 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 20 | 2.38 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 20 | 2.38 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 20 | 2.38 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 20 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 17 | 2.38 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 17 | 2.38 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 19 | 2.38 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 19 | 2.38 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 19 | 2.38 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 19 | 2.38 |
| (1,3844) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 6 | 2.38 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 15 | 2.38 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 15 | 2.38 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 17 | 2.38 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 17 | 2.38 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 7 | 2.38 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 7 | 2.38 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 13 | 2.38 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 13 | 2.38 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 3 | 2.38 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 3 | 2.38 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 3 | 2.38 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 3 | 2.38 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 3 | 2.38 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 9 | 2.38 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 20 | 2.38 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 20 | 2.38 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 2 | 2.38 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 4 | 2.38 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 5 | 2.38 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 20 | 2.38 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 9 | 2.38 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 15 | 2.38 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 15 | 2.38 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 15 | 2.38 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 7 | 2.38 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 7 | 2.38 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 7 | 2.38 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 7 | 2.38 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 7 | 2.38 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 7 | 2.38 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 7 | 2.38 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 7 | 2.38 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 7 | 2.38 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 7 | 2.38 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 7 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 7 | 2.38 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 9 | 2.38 |
| (1,3332) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 9 | 2.38 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 12 | 2.38 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 16 | 2.38 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 8 | 2.38 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 12 | 2.38 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 7 | 2.38 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 7 | 2.38 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 7 | 2.38 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 3 | 2.38 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 3 | 2.38 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 3 | 2.38 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 3 | 2.38 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 3 | 2.38 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 1 | 2.38 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 2.38 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 8 | 2.38 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 2 | 2.38 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 2 | 2.38 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 19 | 2.38 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 2 | 2.38 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 2 | 2.38 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 2 | 2.38 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 19 | 2.38 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 19 | 2.38 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 19 | 2.38 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 7 | 2.38 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 8 | 2.38 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 20 | 2.38 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 20 | 2.38 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 20 | 2.38 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 1 | 2.38 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 14 | 2.38 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 2 | 2.38 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 2 | 2.38 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 2 | 2.38 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 12 | 2.38 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 12 | 2.38 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 12 | 2.38 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 3 | 2.38 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 13 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 13 | 2.38 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 12 | 2.38 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 12 | 2.38 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 12 | 2.38 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 12 | 2.38 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 12 | 2.38 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 12 | 2.38 |
| (1,2717) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 18 | 2.38 |
| (1,2717) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 18 | 2.38 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 17 | 2.38 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 17 | 2.38 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 17 | 2.38 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 10 | 2.38 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 13 | 2.38 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 15 | 2.38 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 11 | 2.38 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 5 | 2.38 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 5 | 2.38 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 6 | 2.38 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 6 | 2.38 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 19 | 2.38 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 8 | 2.38 |
| (1,2574) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 12 | 2.38 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 11 | 2.38 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 11 | 2.38 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 11 | 2.38 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 4 | 2.38 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 4 | 2.38 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 11 | 2.38 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 11 | 2.38 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 10 | 2.38 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 10 | 2.38 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 20 | 2.38 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 20 | 2.38 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 17 | 2.38 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 12 | 2.38 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 12 | 2.38 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 12 | 2.38 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 18 | 2.38 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 2 | 2.38 |
| (1,2246) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 11 | 2.38 |
| (1,2244) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 1 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 19 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 2 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 2 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 2 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 2 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 2 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 2 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 2 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 2 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 2 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 3 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 3 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 3 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 3 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 3 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 3 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 3 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 3 | 2.38 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 3 | 2.38 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 10 | 2.38 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 10 | 2.38 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 10 | 2.38 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 18 | 2.38 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 18 | 2.38 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 18 | 2.38 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 18 | 2.38 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 18 | 2.38 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 18 | 2.38 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 18 | 2.38 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 18 | 2.38 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 18 | 2.38 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 12 | 2.38 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 3 | 2.38 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 3 | 2.38 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 3 | 2.38 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 2 | 2.38 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 2 | 2.38 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 2 | 2.38 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 9 | 2.38 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 6 | 2.38 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 13 | 2.38 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 13 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 13 | 2.38 |
| (1,2076) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 11 | 2.38 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 3 | 2.38 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 3 | 2.38 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 3 | 2.38 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 20 | 2.38 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 20 | 2.38 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 20 | 2.38 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 9 | 2.38 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 9 | 2.38 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 9 | 2.38 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 13 | 2.38 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 13 | 2.38 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 13 | 2.38 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 2 | 2.38 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 2 | 2.38 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 2 | 2.38 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 12 | 2.38 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 12 | 2.38 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 12 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 6 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 6 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 6 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 6 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 6 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 6 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 6 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 6 | 2.38 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 6 | 2.38 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 16 | 2.38 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 6 | 2.38 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 6 | 2.38 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 6 | 2.38 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 6 | 2.38 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 6 | 2.38 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 6 | 2.38 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 5 | 2.38 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 16 | 2.38 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 16 | 2.38 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 15 | 2.38 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 9 | 2.38 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 1 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 13 | 2.38 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 4 | 2.38 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 1 | 2.38 |
| (1,1790) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 8 | 2.38 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 13 | 2.38 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 19 | 2.38 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 19 | 2.38 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 19 | 2.38 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 10 | 2.38 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 10 | 2.38 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 19 | 2.38 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 19 | 2.38 |
| (1,1612) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 19 | 2.38 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 9 | 2.38 |
| (1,1608) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 2.38 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 3 | 2.38 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 3 | 2.38 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 3 | 2.38 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 3 | 2.38 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 14 | 2.38 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 14 | 2.38 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 14 | 2.38 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 14 | 2.38 |
| (1,1560) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 5 | 2.38 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 12 | 2.38 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 13 | 2.38 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 17 | 2.38 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 14 | 2.38 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 10 | 2.38 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 9 | 2.38 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 16 | 2.38 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 5 | 2.38 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 5 | 2.38 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 5 | 2.38 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 5 | 2.38 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 5 | 2.38 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 5 | 2.38 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 4 | 2.38 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 4 | 2.38 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 4 | 2.38 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 9 | 2.38 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 9 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 9 | 2.38 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 2 | 2.38 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 2 | 2.38 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 2 | 2.38 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 5 | 2.38 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 5 | 2.38 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 5 | 2.38 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 13 | 2.38 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 15 | 2.38 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 15 | 2.38 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 15 | 2.38 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 1 | 2.38 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 1 | 2.38 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 1 | 2.38 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 19 | 2.38 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 19 | 2.38 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 1 | 2.38 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 1 | 2.38 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 10 | 2.38 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 10 | 2.38 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 11 | 2.38 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 11 | 2.38 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 13 | 2.38 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 3 | 2.38 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 4 | 2.38 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 4 | 2.38 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 4 | 2.38 |
| (1,1138) | 1:115:A:SER:H | 1:116:A:ALA:H | 18 | 2.38 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 9 | 2.38 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 5 | 2.38 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 10 | 2.38 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 10 | 2.38 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 10 | 2.38 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 6 | 2.38 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 6 | 2.38 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 6 | 2.38 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 8 | 2.38 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 8 | 2.38 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 8 | 2.38 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 12 | 2.38 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 9 | 2.38 |
| (1,906) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 14 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,898) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 14 | 2.38 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 6 | 2.38 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 6 | 2.38 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 12 | 2.38 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 12 | 2.38 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 12 | 2.38 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 18 | 2.38 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 18 | 2.38 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 18 | 2.38 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 15 | 2.38 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 2 | 2.38 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 8 | 2.38 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 9 | 2.38 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 13 | 2.38 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 13 | 2.38 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 13 | 2.38 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 13 | 2.38 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 13 | 2.38 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 13 | 2.38 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 13 | 2.38 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 13 | 2.38 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 13 | 2.38 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 7 | 2.38 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 7 | 2.38 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 7 | 2.38 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 10 | 2.38 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 10 | 2.38 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 10 | 2.38 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 7 | 2.38 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 13 | 2.38 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 13 | 2.38 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 13 | 2.38 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 1 | 2.38 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 16 | 2.38 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 18 | 2.38 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 9 | 2.38 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 9 | 2.38 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 9 | 2.38 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 1 | 2.38 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 1 | 2.38 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 1 | 2.38 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 17 | 2.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 17 | 2.38 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 16 | 2.38 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 16 | 2.38 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 16 | 2.38 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 9 | 2.38 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 9 | 2.38 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 9 | 2.38 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 12 | 2.38 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 12 | 2.38 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 12 | 2.38 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 18 | 2.38 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 2 | 2.37 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 6 | 2.37 |
| (4,15) | 1:15:A:MET:CB | 1:63:A:LYS:H | 1 | 2.37 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 13 | 2.37 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 13 | 2.37 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 13 | 2.37 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 2 | 2.37 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 2 | 2.37 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 9 | 2.37 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 9 | 2.37 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 15 | 2.37 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 15 | 2.37 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 19 | 2.37 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 19 | 2.37 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 7 | 2.37 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 7 | 2.37 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 1 | 2.37 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 1 | 2.37 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 12 | 2.37 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 12 | 2.37 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 19 | 2.37 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 19 | 2.37 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 6 | 2.37 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 6 | 2.37 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 19 | 2.37 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 19 | 2.37 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 15 | 2.37 |
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 15 | 2.37 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 18 | 2.37 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 18 | 2.37 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 7 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 7 | 2.37 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 10 | 2.37 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 10 | 2.37 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 5 | 2.37 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 5 | 2.37 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 3 | 2.37 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 3 | 2.37 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 13 | 2.37 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 13 | 2.37 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 12 | 2.37 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 12 | 2.37 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 14 | 2.37 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 14 | 2.37 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 6 | 2.37 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 6 | 2.37 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 8 | 2.37 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 8 | 2.37 |
| (1,8893) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 8 | 2.37 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 8 | 2.37 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 8 | 2.37 |
| (1,8893) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 8 | 2.37 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 1 | 2.37 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 1 | 2.37 |
| (1,8813) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 18 | 2.37 |
| (1,8813) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 18 | 2.37 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 8 | 2.37 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 8 | 2.37 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 17 | 2.37 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 17 | 2.37 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 3 | 2.37 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 3 | 2.37 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 3 | 2.37 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 13 | 2.37 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 13 | 2.37 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 13 | 2.37 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 16 | 2.37 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 16 | 2.37 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 16 | 2.37 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 16 | 2.37 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 16 | 2.37 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 16 | 2.37 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 1 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 6 | 2.37 |
| (1,7984) | 1:78:A:ILE:H | 1:79:A:THR:H | 7 | 2.37 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 7 | 2.37 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 13 | 2.37 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 13 | 2.37 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 12 | 2.37 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 12 | 2.37 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 15 | 2.37 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 15 | 2.37 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 3 | 2.37 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 3 | 2.37 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 3 | 2.37 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 20 | 2.37 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 17 | 2.37 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 10 | 2.37 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 15 | 2.37 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 11 | 2.37 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 11 | 2.37 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 6 | 2.37 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 6 | 2.37 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 9 | 2.37 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 1 | 2.37 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 1 | 2.37 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 14 | 2.37 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 14 | 2.37 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 15 | 2.37 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 18 | 2.37 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 4 | 2.37 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 16 | 2.37 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 5 | 2.37 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 7 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 8 | 2.37 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 8 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 8 | 2.37 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 11 | 2.37 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 18 | 2.37 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 18 | 2.37 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 9 | 2.37 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 1 | 2.37 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 1 | 2.37 |
| (1,6523) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 1 | 2.37 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 4 | 2.37 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 1 | 2.37 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 16 | 2.37 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 10 | 2.37 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 12 | 2.37 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 8 | 2.37 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 8 | 2.37 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 8 | 2.37 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 8 | 2.37 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 8 | 2.37 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 8 | 2.37 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 8 | 2.37 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 8 | 2.37 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 8 | 2.37 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 3 | 2.37 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 13 | 2.37 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 13 | 2.37 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 6 | 2.37 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 7 | 2.37 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 7 | 2.37 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 7 | 2.37 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 9 | 2.37 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 9 | 2.37 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 9 | 2.37 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 8 | 2.37 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 8 | 2.37 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 3 | 2.37 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 20 | 2.37 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 20 | 2.37 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 7 | 2.37 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 14 | 2.37 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 7 | 2.37 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 7 | 2.37 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 7 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 5 | 2.37 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 14 | 2.37 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 14 | 2.37 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 14 | 2.37 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 18 | 2.37 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 18 | 2.37 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 18 | 2.37 |
| (1,5860) | 1:120:A:GLY:H | 1:121:A:ASP:H | 15 | 2.37 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 8 | 2.37 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 9 | 2.37 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 1 | 2.37 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 17 | 2.37 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 3 | 2.37 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 2 | 2.37 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 9 | 2.37 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 9 | 2.37 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 9 | 2.37 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 20 | 2.37 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 20 | 2.37 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 20 | 2.37 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 17 | 2.37 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 1 | 2.37 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 10 | 2.37 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 10 | 2.37 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 10 | 2.37 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 17 | 2.37 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 17 | 2.37 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 17 | 2.37 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 4 | 2.37 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 4 | 2.37 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 4 | 2.37 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 11 | 2.37 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 11 | 2.37 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 11 | 2.37 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 10 | 2.37 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 10 | 2.37 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 10 | 2.37 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 1 | 2.37 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 1 | 2.37 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 1 | 2.37 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 16 | 2.37 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 16 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 16 | 2.37 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 1 | 2.37 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 3 | 2.37 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 11 | 2.37 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 7 | 2.37 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 5 | 2.37 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 5 | 2.37 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 5 | 2.37 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 19 | 2.37 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 20 | 2.37 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 11 | 2.37 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 11 | 2.37 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 20 | 2.37 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 20 | 2.37 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 20 | 2.37 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 20 | 2.37 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 20 | 2.37 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 20 | 2.37 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 20 | 2.37 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 20 | 2.37 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 20 | 2.37 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 7 | 2.37 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 7 | 2.37 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 7 | 2.37 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 7 | 2.37 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 7 | 2.37 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 7 | 2.37 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 7 | 2.37 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 7 | 2.37 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 7 | 2.37 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 8 | 2.37 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 8 | 2.37 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 8 | 2.37 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 14 | 2.37 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 19 | 2.37 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 19 | 2.37 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 19 | 2.37 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 19 | 2.37 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 8 | 2.37 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 8 | 2.37 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 8 | 2.37 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 8 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 11 | 2.37 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 15 | 2.37 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 15 | 2.37 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 19 | 2.37 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 19 | 2.37 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 14 | 2.37 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 14 | 2.37 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 20 | 2.37 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 20 | 2.37 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 10 | 2.37 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 12 | 2.37 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 12 | 2.37 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 10 | 2.37 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 10 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 16 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 16 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 16 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 16 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 18 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 18 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 18 | 2.37 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 18 | 2.37 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 15 | 2.37 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 15 | 2.37 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 18 | 2.37 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 18 | 2.37 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 6 | 2.37 |
| (1,4420) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 6 | 2.37 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 17 | 2.37 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 17 | 2.37 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 13 | 2.37 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 13 | 2.37 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 11 | 2.37 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 10 | 2.37 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 10 | 2.37 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 13 | 2.37 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 13 | 2.37 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 13 | 2.37 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 16 | 2.37 |
| (1,4161) | 1:94:A:GLN:HB2 | 1:95:A:LYS:H | 7 | 2.37 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 13 | 2.37 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 13 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 13 | 2.37 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 13 | 2.37 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 13 | 2.37 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 13 | 2.37 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 12 | 2.37 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 12 | 2.37 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 12 | 2.37 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 12 | 2.37 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 12 | 2.37 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 12 | 2.37 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 5 | 2.37 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 5 | 2.37 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 5 | 2.37 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 5 | 2.37 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 5 | 2.37 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 5 | 2.37 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 9 | 2.37 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 9 | 2.37 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 9 | 2.37 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 10 | 2.37 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 10 | 2.37 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 10 | 2.37 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 10 | 2.37 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 10 | 2.37 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 10 | 2.37 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 4 | 2.37 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 4 | 2.37 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 4 | 2.37 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 9 | 2.37 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 9 | 2.37 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 9 | 2.37 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 9 | 2.37 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 9 | 2.37 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 9 | 2.37 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 3 | 2.37 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 3 | 2.37 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 2 | 2.37 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 2 | 2.37 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 12 | 2.37 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 12 | 2.37 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 14 | 2.37 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 14 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 15 | 2.37 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 15 | 2.37 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 9 | 2.37 |
| (1,3910) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 9 | 2.37 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 6 | 2.37 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 6 | 2.37 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 18 | 2.37 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 18 | 2.37 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 18 | 2.37 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 18 | 2.37 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 8 | 2.37 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 8 | 2.37 |
| (1,3852) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 8 | 2.37 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 8 | 2.37 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 8 | 2.37 |
| (1,3852) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 8 | 2.37 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 13 | 2.37 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 13 | 2.37 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 13 | 2.37 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 13 | 2.37 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 13 | 2.37 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 13 | 2.37 |
| (1,3788) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 18 | 2.37 |
| (1,3788) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 18 | 2.37 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 8 | 2.37 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 8 | 2.37 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 3 | 2.37 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 3 | 2.37 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 2 | 2.37 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 2 | 2.37 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 13 | 2.37 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 13 | 2.37 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 18 | 2.37 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 16 | 2.37 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 16 | 2.37 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 5 | 2.37 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 5 | 2.37 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 5 | 2.37 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 5 | 2.37 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 5 | 2.37 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 5 | 2.37 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 1 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 1 | 2.37 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 1 | 2.37 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 1 | 2.37 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 1 | 2.37 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 1 | 2.37 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 9 | 2.37 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 9 | 2.37 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 19 | 2.37 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 8 | 2.37 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 20 | 2.37 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 18 | 2.37 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 1 | 2.37 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 10 | 2.37 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 17 | 2.37 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 15 | 2.37 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 17 | 2.37 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 17 | 2.37 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 11 | 2.37 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 11 | 2.37 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 1 | 2.37 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 1 | 2.37 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 19 | 2.37 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 19 | 2.37 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 1 | 2.37 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 1 | 2.37 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 14 | 2.37 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 14 | 2.37 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 15 | 2.37 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 18 | 2.37 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 7 | 2.37 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 7 | 2.37 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 6 | 2.37 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 20 | 2.37 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 5 | 2.37 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 7 | 2.37 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 4 | 2.37 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 4 | 2.37 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 4 | 2.37 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 8 | 2.37 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 17 | 2.37 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 15 | 2.37 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 11 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 20 | 2.37 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 20 | 2.37 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 20 | 2.37 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 4 | 2.37 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 4 | 2.37 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 6 | 2.37 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 6 | 2.37 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 14 | 2.37 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 14 | 2.37 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 13 | 2.37 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 13 | 2.37 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 16 | 2.37 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 16 | 2.37 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 18 | 2.37 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 18 | 2.37 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 5 | 2.37 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 5 | 2.37 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 7 | 2.37 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 7 | 2.37 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 9 | 2.37 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 10 | 2.37 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 7 | 2.37 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 4 | 2.37 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 1 | 2.37 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 1 | 2.37 |
| (1,2368) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 1 | 2.37 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 4 | 2.37 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 1 | 2.37 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 13 | 2.37 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 4 | 2.37 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 16 | 2.37 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 7 | 2.37 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 7 | 2.37 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 7 | 2.37 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 4 | 2.37 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 4 | 2.37 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 4 | 2.37 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 2.37 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 2.37 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 2.37 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 10 | 2.37 |
| (1,2066) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 8 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 16 | 2.37 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 16 | 2.37 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 16 | 2.37 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 19 | 2.37 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 19 | 2.37 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 19 | 2.37 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 19 | 2.37 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 19 | 2.37 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 19 | 2.37 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 17 | 2.37 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 8 | 2.37 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 8 | 2.37 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 8 | 2.37 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 8 | 2.37 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 8 | 2.37 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 8 | 2.37 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 8 | 2.37 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 8 | 2.37 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 8 | 2.37 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 9 | 2.37 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 9 | 2.37 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 9 | 2.37 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 6 | 2.37 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 1 | 2.37 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 8 | 2.37 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 3 | 2.37 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 13 | 2.37 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 13 | 2.37 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 12 | 2.37 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 6 | 2.37 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 7 | 2.37 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 7 | 2.37 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 7 | 2.37 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 9 | 2.37 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 9 | 2.37 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 9 | 2.37 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 8 | 2.37 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 8 | 2.37 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 3 | 2.37 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 11 | 2.37 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 11 | 2.37 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 11 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 20 | 2.37 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 20 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 16 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 16 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 16 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 16 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 18 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 18 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 18 | 2.37 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 18 | 2.37 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 3 | 2.37 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 4 | 2.37 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 5 | 2.37 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 20 | 2.37 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 16 | 2.37 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 16 | 2.37 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 7 | 2.37 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 10 | 2.37 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 16 | 2.37 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 17 | 2.37 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 10 | 2.37 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 6 | 2.37 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 14 | 2.37 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 5 | 2.37 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 14 | 2.37 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 14 | 2.37 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 14 | 2.37 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 18 | 2.37 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 18 | 2.37 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 18 | 2.37 |
| (1,1264) | 1:120:A:GLY:H | 1:121:A:ASP:H | 15 | 2.37 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 5 | 2.37 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 5 | 2.37 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 18 | 2.37 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 18 | 2.37 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 3 | 2.37 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 3 | 2.37 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 16 | 2.37 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 16 | 2.37 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 2 | 2.37 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 6 | 2.37 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 8 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 9 | 2.37 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 19 | 2.37 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 19 | 2.37 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 19 | 2.37 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 4 | 2.37 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 1 | 2.37 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 17 | 2.37 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 1 | 2.37 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 3 | 2.37 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 4 | 2.37 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 3 | 2.37 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 3 | 2.37 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 3 | 2.37 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 7 | 2.37 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 7 | 2.37 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 7 | 2.37 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 11 | 2.37 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 11 | 2.37 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 11 | 2.37 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 2 | 2.37 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 9 | 2.37 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 9 | 2.37 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 9 | 2.37 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 20 | 2.37 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 20 | 2.37 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 20 | 2.37 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 17 | 2.37 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 5 | 2.37 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 16 | 2.37 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 17 | 2.37 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 3 | 2.37 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 1 | 2.37 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 2 | 2.37 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 13 | 2.37 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 4 | 2.37 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 4 | 2.37 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 4 | 2.37 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 15 | 2.37 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 15 | 2.37 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 15 | 2.37 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 13 | 2.37 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 13 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 13 | 2.37 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 13 | 2.37 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 13 | 2.37 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 13 | 2.37 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 13 | 2.37 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 13 | 2.37 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 13 | 2.37 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 12 | 2.37 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 12 | 2.37 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 12 | 2.37 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 14 | 2.37 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 6 | 2.37 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 6 | 2.37 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 6 | 2.37 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 9 | 2.37 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 9 | 2.37 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 15 | 2.36 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 8 | 2.36 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 10 | 2.36 |
| (1,9627) | 1:161:A:ARG:HG2 | 1:162:A:THR:H | 17 | 2.36 |
| (1,9627) | 1:161:A:ARG:HG3 | 1:162:A:THR:H | 17 | 2.36 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 16 | 2.36 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 16 | 2.36 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 1 | 2.36 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 1 | 2.36 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 17 | 2.36 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 17 | 2.36 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 5 | 2.36 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 5 | 2.36 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 5 | 2.36 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 5 | 2.36 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 19 | 2.36 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 19 | 2.36 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 18 | 2.36 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 18 | 2.36 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 13 | 2.36 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 13 | 2.36 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 13 | 2.36 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 13 | 2.36 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 13 | 2.36 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 13 | 2.36 |
| (1,9476) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 5 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9476) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 5 | 2.36 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 6 | 2.36 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 6 | 2.36 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 19 | 2.36 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 19 | 2.36 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 20 | 2.36 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 20 | 2.36 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 1 | 2.36 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 1 | 2.36 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 4 | 2.36 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 4 | 2.36 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 7 | 2.36 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 7 | 2.36 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 7 | 2.36 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 7 | 2.36 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 14 | 2.36 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 14 | 2.36 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 3 | 2.36 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 3 | 2.36 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 9 | 2.36 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 9 | 2.36 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 7 | 2.36 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 7 | 2.36 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 7 | 2.36 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 7 | 2.36 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 18 | 2.36 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 18 | 2.36 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 7 | 2.36 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 7 | 2.36 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 7 | 2.36 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 7 | 2.36 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 1 | 2.36 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 1 | 2.36 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 1 | 2.36 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 1 | 2.36 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 18 | 2.36 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 18 | 2.36 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 13 | 2.36 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 13 | 2.36 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 13 | 2.36 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 13 | 2.36 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 5 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 5 | 2.36 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 17 | 2.36 |
| (1,8528) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 17 | 2.36 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 17 | 2.36 |
| (1,8528) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 17 | 2.36 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 17 | 2.36 |
| (1,8528) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 17 | 2.36 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 9 | 2.36 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 9 | 2.36 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 9 | 2.36 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 18 | 2.36 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 18 | 2.36 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 18 | 2.36 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 8 | 2.36 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 8 | 2.36 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 8 | 2.36 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB2 | 16 | 2.36 |
| (1,8133) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HB3 | 16 | 2.36 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 2 | 2.36 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 1 | 2.36 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 1 | 2.36 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 16 | 2.36 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 2 | 2.36 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 2 | 2.36 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 2 | 2.36 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 15 | 2.36 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 15 | 2.36 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 15 | 2.36 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 15 | 2.36 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 15 | 2.36 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 15 | 2.36 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 2 | 2.36 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 12 | 2.36 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 12 | 2.36 |
| (1,7526) | 1:14:A:ARG:HD3 | 1:15:A:MET:H | 1 | 2.36 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 20 | 2.36 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 20 | 2.36 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 20 | 2.36 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 20 | 2.36 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 20 | 2.36 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 20 | 2.36 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 10 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 11 | 2.36 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 20 | 2.36 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 20 | 2.36 |
| (1,7172) | 1:103:A:PHE:H | 1:104:A:GLU:H | 1 | 2.36 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 6 | 2.36 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 12 | 2.36 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 15 | 2.36 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 15 | 2.36 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 19 | 2.36 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 19 | 2.36 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 8 | 2.36 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 13 | 2.36 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 14 | 2.36 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 9 | 2.36 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 8 | 2.36 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 8 | 2.36 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 8 | 2.36 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 19 | 2.36 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 19 | 2.36 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 19 | 2.36 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 19 | 2.36 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 4 | 2.36 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 1 | 2.36 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 3 | 2.36 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 1 | 2.36 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 17 | 2.36 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 2 | 2.36 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 19 | 2.36 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 15 | 2.36 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 15 | 2.36 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 15 | 2.36 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 20 | 2.36 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 18 | 2.36 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 18 | 2.36 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 18 | 2.36 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 4 | 2.36 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 4 | 2.36 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 4 | 2.36 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 2 | 2.36 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 2 | 2.36 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 2 | 2.36 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 4 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 4 | 2.36 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 4 | 2.36 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 5 | 2.36 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 6 | 2.36 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 16 | 2.36 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 11 | 2.36 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 9 | 2.36 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 18 | 2.36 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 18 | 2.36 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 18 | 2.36 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 18 | 2.36 |
| (1,6193) | 1:143:A:THR:H | 1:143:A:THR:HB | 8 | 2.36 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 17 | 2.36 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 8 | 2.36 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 8 | 2.36 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 10 | 2.36 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 10 | 2.36 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 10 | 2.36 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 18 | 2.36 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 18 | 2.36 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 9 | 2.36 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 9 | 2.36 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 9 | 2.36 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 2 | 2.36 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 11 | 2.36 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 15 | 2.36 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 18 | 2.36 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 13 | 2.36 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 20 | 2.36 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 20 | 2.36 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 3 | 2.36 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 20 | 2.36 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 3 | 2.36 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 10 | 2.36 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 15 | 2.36 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 17 | 2.36 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 17 | 2.36 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 17 | 2.36 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 4 | 2.36 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 16 | 2.36 |
| (1,5877) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 1 | 2.36 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 16 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 16 | 2.36 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 16 | 2.36 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 17 | 2.36 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 17 | 2.36 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 17 | 2.36 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 20 | 2.36 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 20 | 2.36 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 20 | 2.36 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 4 | 2.36 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 4 | 2.36 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 4 | 2.36 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 19 | 2.36 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 7 | 2.36 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 7 | 2.36 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 7 | 2.36 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 18 | 2.36 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 18 | 2.36 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 18 | 2.36 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 14 | 2.36 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 3 | 2.36 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 3 | 2.36 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 3 | 2.36 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 4 | 2.36 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 4 | 2.36 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 4 | 2.36 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 4 | 2.36 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 1 | 2.36 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 7 | 2.36 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 10 | 2.36 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 15 | 2.36 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 19 | 2.36 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 6 | 2.36 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 6 | 2.36 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 6 | 2.36 |
| (1,5403) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 19 | 2.36 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 3 | 2.36 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 3 | 2.36 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 3 | 2.36 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 8 | 2.36 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 8 | 2.36 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 8 | 2.36 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 8 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 8 | 2.36 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 8 | 2.36 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 17 | 2.36 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 17 | 2.36 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 17 | 2.36 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 5 | 2.36 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 14 | 2.36 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 14 | 2.36 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 14 | 2.36 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 14 | 2.36 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 14 | 2.36 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 14 | 2.36 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 14 | 2.36 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 14 | 2.36 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 14 | 2.36 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 4 | 2.36 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 4 | 2.36 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 4 | 2.36 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 13 | 2.36 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 13 | 2.36 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 13 | 2.36 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 2 | 2.36 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 2 | 2.36 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 2 | 2.36 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 12 | 2.36 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 12 | 2.36 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 12 | 2.36 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 8 | 2.36 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 8 | 2.36 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 8 | 2.36 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 13 | 2.36 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 13 | 2.36 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 13 | 2.36 |
| (1,5228) | 1:86:A:LEU:H | 1:87:A:GLU:H | 18 | 2.36 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 1 | 2.36 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 2 | 2.36 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 16 | 2.36 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 5 | 2.36 |
| (1,5081) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 8 | 2.36 |
| (1,5081) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 8 | 2.36 |
| (1,5081) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 8 | 2.36 |
| (1,5059) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 10 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 9 | 2.36 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 9 | 2.36 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 9 | 2.36 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 6 | 2.36 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 8 | 2.36 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 8 | 2.36 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 8 | 2.36 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 17 | 2.36 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 17 | 2.36 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 17 | 2.36 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 17 | 2.36 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 17 | 2.36 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 17 | 2.36 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 17 | 2.36 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 17 | 2.36 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 17 | 2.36 |
| (1,4817) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 16 | 2.36 |
| (1,4817) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 16 | 2.36 |
| (1,4817) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 16 | 2.36 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 6 | 2.36 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 17 | 2.36 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 3 | 2.36 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 3 | 2.36 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 3 | 2.36 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 17 | 2.36 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 17 | 2.36 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 17 | 2.36 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 19 | 2.36 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 19 | 2.36 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 19 | 2.36 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 19 | 2.36 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 13 | 2.36 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 13 | 2.36 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 13 | 2.36 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 13 | 2.36 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 13 | 2.36 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 13 | 2.36 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 2 | 2.36 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 2 | 2.36 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 2 | 2.36 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 2 | 2.36 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 2 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 2 | 2.36 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 16 | 2.36 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 16 | 2.36 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 19 | 2.36 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 14 | 2.36 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 14 | 2.36 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 14 | 2.36 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 14 | 2.36 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 14 | 2.36 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 14 | 2.36 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 19 | 2.36 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 19 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 2 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 2 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 2 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 2 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 4 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 4 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 4 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 4 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 5 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 5 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 5 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 5 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 8 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 8 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 8 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 8 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 12 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 12 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 12 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 12 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 13 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 13 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 13 | 2.36 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 13 | 2.36 |
| (1,4468) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 5 | 2.36 |
| (1,4468) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 5 | 2.36 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 2 | 2.36 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 2 | 2.36 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 16 | 2.36 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 16 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 15 | 2.36 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 15 | 2.36 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 19 | 2.36 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 19 | 2.36 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 20 | 2.36 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 20 | 2.36 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 14 | 2.36 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 14 | 2.36 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 12 | 2.36 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 12 | 2.36 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 12 | 2.36 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 12 | 2.36 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 12 | 2.36 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 12 | 2.36 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 5 | 2.36 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 2 | 2.36 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 2 | 2.36 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 2 | 2.36 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 2 | 2.36 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 2 | 2.36 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 2 | 2.36 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 15 | 2.36 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 15 | 2.36 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 15 | 2.36 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 14 | 2.36 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 4 | 2.36 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 4 | 2.36 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 14 | 2.36 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 3 | 2.36 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 3 | 2.36 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 7 | 2.36 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 7 | 2.36 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 17 | 2.36 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 17 | 2.36 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 12 | 2.36 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 12 | 2.36 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 4 | 2.36 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 4 | 2.36 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 4 | 2.36 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 12 | 2.36 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 12 | 2.36 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 12 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 12 | 2.36 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 12 | 2.36 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 12 | 2.36 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 19 | 2.36 |
| (1,3771) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 19 | 2.36 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 10 | 2.36 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 10 | 2.36 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 10 | 2.36 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 10 | 2.36 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 12 | 2.36 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 12 | 2.36 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 2.36 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 2.36 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 16 | 2.36 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 16 | 2.36 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 16 | 2.36 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 16 | 2.36 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 2 | 2.36 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 17 | 2.36 |
| (1,3490) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 17 | 2.36 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 17 | 2.36 |
| (1,3490) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 17 | 2.36 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 17 | 2.36 |
| (1,3490) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 17 | 2.36 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 16 | 2.36 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 16 | 2.36 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 16 | 2.36 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 8 | 2.36 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 8 | 2.36 |
| (1,3442) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 15 | 2.36 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 14 | 2.36 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 11 | 2.36 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 11 | 2.36 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 11 | 2.36 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 8 | 2.36 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 20 | 2.36 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 20 | 2.36 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 3 | 2.36 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 3 | 2.36 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 3 | 2.36 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 14 | 2.36 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 19 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 14 | 2.36 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 14 | 2.36 |
| (1,3288) | 1:103:A:PHE:H | 1:104:A:GLU:H | 1 | 2.36 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 3 | 2.36 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 9 | 2.36 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 17 | 2.36 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 17 | 2.36 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 6 | 2.36 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 12 | 2.36 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 15 | 2.36 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 15 | 2.36 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 19 | 2.36 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 19 | 2.36 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 8 | 2.36 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 13 | 2.36 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 14 | 2.36 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 20 | 2.36 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 20 | 2.36 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 8 | 2.36 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 8 | 2.36 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 8 | 2.36 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 19 | 2.36 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 7 | 2.36 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 16 | 2.36 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 16 | 2.36 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 16 | 2.36 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 9 | 2.36 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 15 | 2.36 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 16 | 2.36 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 18 | 2.36 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 19 | 2.36 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 4 | 2.36 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 11 | 2.36 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 13 | 2.36 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 13 | 2.36 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 13 | 2.36 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 13 | 2.36 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 1 | 2.36 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 3 | 2.36 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 1 | 2.36 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 15 | 2.36 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 17 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 12 | 2.36 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 3 | 2.36 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 3 | 2.36 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 6 | 2.36 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 6 | 2.36 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 11 | 2.36 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 11 | 2.36 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 2 | 2.36 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 5 | 2.36 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 5 | 2.36 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 2 | 2.36 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 2 | 2.36 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 5 | 2.36 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 5 | 2.36 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 1 | 2.36 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 1 | 2.36 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 18 | 2.36 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 18 | 2.36 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 19 | 2.36 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 19 | 2.36 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 19 | 2.36 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 19 | 2.36 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 2 | 2.36 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 18 | 2.36 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 14 | 2.36 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 5 | 2.36 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 18 | 2.36 |
| (1,2312) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 15 | 2.36 |
| (1,2282) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 20 | 2.36 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 15 | 2.36 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 15 | 2.36 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 15 | 2.36 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 20 | 2.36 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 18 | 2.36 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 18 | 2.36 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 18 | 2.36 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 17 | 2.36 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 17 | 2.36 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 17 | 2.36 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 6 | 2.36 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 6 | 2.36 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 6 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 4 | 2.36 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 4 | 2.36 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 4 | 2.36 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 1 | 2.36 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 1 | 2.36 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 1 | 2.36 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 14 | 2.36 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 14 | 2.36 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 14 | 2.36 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 17 | 2.36 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 17 | 2.36 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 17 | 2.36 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 5 | 2.36 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 5 | 2.36 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 5 | 2.36 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 5 | 2.36 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 6 | 2.36 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 16 | 2.36 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 11 | 2.36 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 11 | 2.36 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 11 | 2.36 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 11 | 2.36 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 9 | 2.36 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 13 | 2.36 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 2 | 2.36 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 6 | 2.36 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 9 | 2.36 |
| (1,1804) | 1:143:A:THR:H | 1:143:A:THR:HB | 8 | 2.36 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 8 | 2.36 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 8 | 2.36 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 2 | 2.36 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 17 | 2.36 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 8 | 2.36 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 8 | 2.36 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 19 | 2.36 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 19 | 2.36 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 19 | 2.36 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 19 | 2.36 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 19 | 2.36 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 19 | 2.36 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 14 | 2.36 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 10 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 10 | 2.36 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 10 | 2.36 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 18 | 2.36 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 18 | 2.36 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 2 | 2.36 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 11 | 2.36 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 14 | 2.36 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 1 | 2.36 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 1 | 2.36 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 1 | 2.36 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 16 | 2.36 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 16 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 2 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 2 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 2 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 2 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 4 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 4 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 4 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 4 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 5 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 5 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 5 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 5 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 8 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 8 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 8 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 8 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 12 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 12 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 12 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 12 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 13 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 13 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 13 | 2.36 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 13 | 2.36 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 1 | 2.36 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 6 | 2.36 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 7 | 2.36 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 15 | 2.36 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 18 | 2.36 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 13 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 12 | 2.36 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 12 | 2.36 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 3 | 2.36 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 7 | 2.36 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 3 | 2.36 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 10 | 2.36 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 13 | 2.36 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 15 | 2.36 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 3 | 2.36 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 6 | 2.36 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 6 | 2.36 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 6 | 2.36 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 6 | 2.36 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 6 | 2.36 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 6 | 2.36 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 4 | 2.36 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 16 | 2.36 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 12 | 2.36 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 12 | 2.36 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 12 | 2.36 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 16 | 2.36 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 16 | 2.36 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 16 | 2.36 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 17 | 2.36 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 17 | 2.36 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 17 | 2.36 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 20 | 2.36 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 20 | 2.36 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 20 | 2.36 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 19 | 2.36 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 4 | 2.36 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 4 | 2.36 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 4 | 2.36 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 19 | 2.36 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 8 | 2.36 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 12 | 2.36 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 12 | 2.36 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 7 | 2.36 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 7 | 2.36 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 7 | 2.36 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 18 | 2.36 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 18 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 18 | 2.36 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 1 | 2.36 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 8 | 2.36 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 8 | 2.36 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 8 | 2.36 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 12 | 2.36 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 17 | 2.36 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 7 | 2.36 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 7 | 2.36 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 7 | 2.36 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 9 | 2.36 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 5 | 2.36 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 5 | 2.36 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 12 | 2.36 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 12 | 2.36 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 14 | 2.36 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 11 | 2.36 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 11 | 2.36 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 3 | 2.36 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 3 | 2.36 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 3 | 2.36 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 4 | 2.36 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 4 | 2.36 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 4 | 2.36 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 4 | 2.36 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 1 | 2.36 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 7 | 2.36 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 10 | 2.36 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 15 | 2.36 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 19 | 2.36 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 11 | 2.36 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 17 | 2.36 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 6 | 2.36 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 6 | 2.36 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 6 | 2.36 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 6 | 2.36 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 4 | 2.36 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 4 | 2.36 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 4 | 2.36 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 17 | 2.36 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 6 | 2.36 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 9 | 2.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 13 | 2.36 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 13 | 2.36 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 13 | 2.36 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 6 | 2.36 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 4 | 2.36 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 17 | 2.36 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 16 | 2.36 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 16 | 2.36 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 16 | 2.36 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 15 | 2.36 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 15 | 2.36 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 15 | 2.36 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 19 | 2.36 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 19 | 2.36 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 19 | 2.36 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 19 | 2.36 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 19 | 2.36 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 19 | 2.36 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 19 | 2.36 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 19 | 2.36 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 19 | 2.36 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 17 | 2.36 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 5 | 2.36 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 5 | 2.36 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 5 | 2.36 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 10 | 2.36 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 10 | 2.36 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 10 | 2.36 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 18 | 2.36 |
| (4,284) | 1:98:A:SER:CB | 1:6:A:LYS:H | 9 | 2.35 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 13 | 2.35 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 13 | 2.35 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 4 | 2.35 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 7 | 2.35 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 18 | 2.35 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 18 | 2.35 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 14 | 2.35 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 14 | 2.35 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 14 | 2.35 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 14 | 2.35 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 14 | 2.35 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 14 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 14 | 2.35 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 14 | 2.35 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 7 | 2.35 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 7 | 2.35 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 3 | 2.35 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 3 | 2.35 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 17 | 2.35 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 17 | 2.35 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 6 | 2.35 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 6 | 2.35 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 11 | 2.35 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 11 | 2.35 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 4 | 2.35 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 4 | 2.35 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 4 | 2.35 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 4 | 2.35 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 4 | 2.35 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 4 | 2.35 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 10 | 2.35 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 10 | 2.35 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 19 | 2.35 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 19 | 2.35 |
| (1,9500) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 19 | 2.35 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 19 | 2.35 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 19 | 2.35 |
| (1,9500) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 19 | 2.35 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 20 | 2.35 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 20 | 2.35 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 13 | 2.35 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 13 | 2.35 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 13 | 2.35 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 13 | 2.35 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 8 | 2.35 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 8 | 2.35 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 16 | 2.35 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 16 | 2.35 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 14 | 2.35 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 14 | 2.35 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 18 | 2.35 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 18 | 2.35 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 12 | 2.35 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 12 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 18 | 2.35 |
| (1,9256) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 18 | 2.35 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 18 | 2.35 |
| (1,9256) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 18 | 2.35 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 2 | 2.35 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 2 | 2.35 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 4 | 2.35 |
| (1,9171) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 4 | 2.35 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 4 | 2.35 |
| (1,9171) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 4 | 2.35 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 4 | 2.35 |
| (1,9171) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 4 | 2.35 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 8 | 2.35 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 8 | 2.35 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 8 | 2.35 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 8 | 2.35 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 8 | 2.35 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 8 | 2.35 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 15 | 2.35 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 15 | 2.35 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 15 | 2.35 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 15 | 2.35 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 15 | 2.35 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 15 | 2.35 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 8 | 2.35 |
| (1,9107) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 8 | 2.35 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 8 | 2.35 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 8 | 2.35 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 14 | 2.35 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 14 | 2.35 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 11 | 2.35 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 11 | 2.35 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 2 | 2.35 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 2 | 2.35 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 8 | 2.35 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 8 | 2.35 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 9 | 2.35 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 9 | 2.35 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 10 | 2.35 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 10 | 2.35 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 10 | 2.35 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 10 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 10 | 2.35 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 10 | 2.35 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.35 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.35 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.35 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.35 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.35 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.35 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 6 | 2.35 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 6 | 2.35 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 2.35 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 2.35 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 19 | 2.35 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 19 | 2.35 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 5 | 2.35 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 5 | 2.35 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 1 | 2.35 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 1 | 2.35 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 8 | 2.35 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 8 | 2.35 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 3 | 2.35 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 3 | 2.35 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 3 | 2.35 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 3 | 2.35 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 3 | 2.35 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 3 | 2.35 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 3 | 2.35 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 11 | 2.35 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 9 | 2.35 |
| (1,7636) | 1:27:A:HIS:H | 1:27:A:HIS:HD2 | 11 | 2.35 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 19 | 2.35 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 1 | 2.35 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 1 | 2.35 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 1 | 2.35 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 14 | 2.35 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 14 | 2.35 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 14 | 2.35 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 14 | 2.35 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 14 | 2.35 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 14 | 2.35 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 6 | 2.35 |
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 13 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7179) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 20 | 2.35 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 6 | 2.35 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 6 | 2.35 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 2 | 2.35 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 2 | 2.35 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 5 | 2.35 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 20 | 2.35 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 6 | 2.35 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 13 | 2.35 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 14 | 2.35 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 9 | 2.35 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 16 | 2.35 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 19 | 2.35 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 19 | 2.35 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 19 | 2.35 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 1 | 2.35 |
| (1,6793) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 16 | 2.35 |
| (1,6793) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 16 | 2.35 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 13 | 2.35 |
| (1,6775) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 14 | 2.35 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 5 | 2.35 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 7 | 2.35 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 9 | 2.35 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 18 | 2.35 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 13 | 2.35 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 5 | 2.35 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 10 | 2.35 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 9 | 2.35 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 18 | 2.35 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 8 | 2.35 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 8 | 2.35 |
| (1,6448) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 8 | 2.35 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 8 | 2.35 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 5 | 2.35 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 5 | 2.35 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 5 | 2.35 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 8 | 2.35 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 12 | 2.35 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 12 | 2.35 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 12 | 2.35 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 17 | 2.35 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 9 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 9 | 2.35 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 20 | 2.35 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 20 | 2.35 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 7 | 2.35 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 14 | 2.35 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 14 | 2.35 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 14 | 2.35 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 2 | 2.35 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 17 | 2.35 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 19 | 2.35 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 19 | 2.35 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 19 | 2.35 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 19 | 2.35 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 19 | 2.35 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 19 | 2.35 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 19 | 2.35 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 19 | 2.35 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 19 | 2.35 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 17 | 2.35 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 16 | 2.35 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 16 | 2.35 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 10 | 2.35 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 10 | 2.35 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 10 | 2.35 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 17 | 2.35 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 17 | 2.35 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 17 | 2.35 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 20 | 2.35 |
| (1,5768) | 1:112:A:ASP:H | 1:113:A:CYS:H | 9 | 2.35 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 20 | 2.35 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 18 | 2.35 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 12 | 2.35 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 12 | 2.35 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 12 | 2.35 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 5 | 2.35 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 5 | 2.35 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 8 | 2.35 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 8 | 2.35 |
| (1,5576) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 12 | 2.35 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 3 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 8 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 8 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 8 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 13 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 13 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 13 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 19 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 19 | 2.35 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 19 | 2.35 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 7 | 2.35 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 7 | 2.35 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 15 | 2.35 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 15 | 2.35 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 15 | 2.35 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 15 | 2.35 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 15 | 2.35 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 15 | 2.35 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 15 | 2.35 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 15 | 2.35 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 15 | 2.35 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 5 | 2.35 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 5 | 2.35 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 5 | 2.35 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 2 | 2.35 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 2 | 2.35 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 2 | 2.35 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 6 | 2.35 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 6 | 2.35 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 6 | 2.35 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 2 | 2.35 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 2 | 2.35 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 2 | 2.35 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 16 | 2.35 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 16 | 2.35 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 16 | 2.35 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 17 | 2.35 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 17 | 2.35 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 17 | 2.35 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 2 | 2.35 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 2 | 2.35 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 2 | 2.35 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 16 | 2.35 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 16 | 2.35 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 16 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 11 | 2.35 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 4 | 2.35 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 4 | 2.35 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 4 | 2.35 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 16 | 2.35 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 16 | 2.35 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 16 | 2.35 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 2 | 2.35 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 2 | 2.35 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 2 | 2.35 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 20 | 2.35 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 20 | 2.35 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 20 | 2.35 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 6 | 2.35 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 6 | 2.35 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 6 | 2.35 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 12 | 2.35 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 12 | 2.35 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 12 | 2.35 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 11 | 2.35 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 11 | 2.35 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 11 | 2.35 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 4 | 2.35 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 4 | 2.35 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 12 | 2.35 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 12 | 2.35 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 12 | 2.35 |
| (1,5115) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 3 | 2.35 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 20 | 2.35 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 20 | 2.35 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 20 | 2.35 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 9 | 2.35 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 11 | 2.35 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 6 | 2.35 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 8 | 2.35 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 4 | 2.35 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 4 | 2.35 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 4 | 2.35 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 4 | 2.35 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 4 | 2.35 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 4 | 2.35 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 4 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 4 | 2.35 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 4 | 2.35 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 1 | 2.35 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 1 | 2.35 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 1 | 2.35 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 1 | 2.35 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 1 | 2.35 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 1 | 2.35 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 1 | 2.35 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 1 | 2.35 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 1 | 2.35 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 11 | 2.35 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 11 | 2.35 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 11 | 2.35 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 4 | 2.35 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 4 | 2.35 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 4 | 2.35 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 18 | 2.35 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 13 | 2.35 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 16 | 2.35 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 9 | 2.35 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 12 | 2.35 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 19 | 2.35 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 19 | 2.35 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 12 | 2.35 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 12 | 2.35 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 12 | 2.35 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 7 | 2.35 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 7 | 2.35 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 3 | 2.35 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 3 | 2.35 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 17 | 2.35 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 17 | 2.35 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 2 | 2.35 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 2 | 2.35 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 2 | 2.35 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 2 | 2.35 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 2 | 2.35 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 2 | 2.35 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 6 | 2.35 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 6 | 2.35 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 6 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 6 | 2.35 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 6 | 2.35 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 6 | 2.35 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 10 | 2.35 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 10 | 2.35 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 15 | 2.35 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 15 | 2.35 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 15 | 2.35 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 15 | 2.35 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 8 | 2.35 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 8 | 2.35 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 16 | 2.35 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 16 | 2.35 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 10 | 2.35 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 10 | 2.35 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 1 | 2.35 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 1 | 2.35 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 1 | 2.35 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 1 | 2.35 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 1 | 2.35 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 1 | 2.35 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 13 | 2.35 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 13 | 2.35 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 14 | 2.35 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 14 | 2.35 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 18 | 2.35 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 18 | 2.35 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 1 | 2.35 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 11 | 2.35 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 11 | 2.35 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 11 | 2.35 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 11 | 2.35 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 11 | 2.35 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 11 | 2.35 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 18 | 2.35 |
| (1,4248) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 18 | 2.35 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 18 | 2.35 |
| (1,4248) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 18 | 2.35 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 2 | 2.35 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 2 | 2.35 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 2 | 2.35 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 2 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 6 | 2.35 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 6 | 2.35 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 2 | 2.35 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 2 | 2.35 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 20 | 2.35 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 20 | 2.35 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 20 | 2.35 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 20 | 2.35 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 7 | 2.35 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 7 | 2.35 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 6 | 2.35 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 6 | 2.35 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 4 | 2.35 |
| (1,4148) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 4 | 2.35 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 4 | 2.35 |
| (1,4148) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 4 | 2.35 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 4 | 2.35 |
| (1,4148) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 4 | 2.35 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 8 | 2.35 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 8 | 2.35 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 8 | 2.35 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 18 | 2.35 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 18 | 2.35 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 18 | 2.35 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 8 | 2.35 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 8 | 2.35 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 8 | 2.35 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 8 | 2.35 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 8 | 2.35 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 8 | 2.35 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 15 | 2.35 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 15 | 2.35 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 15 | 2.35 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 15 | 2.35 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 15 | 2.35 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 15 | 2.35 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 2.35 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 2.35 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 2.35 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 8 | 2.35 |
| (1,4076) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 8 | 2.35 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 14 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 14 | 2.35 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 8 | 2.35 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 8 | 2.35 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 2 | 2.35 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 2 | 2.35 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 2 | 2.35 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 2 | 2.35 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 2 | 2.35 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 2 | 2.35 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 5 | 2.35 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 2 | 2.35 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 2 | 2.35 |
| (1,3897) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 14 | 2.35 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 8 | 2.35 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 8 | 2.35 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 7 | 2.35 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 7 | 2.35 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 1 | 2.35 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 1 | 2.35 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 1 | 2.35 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 2.35 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 2.35 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 2.35 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.35 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.35 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.35 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.35 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.35 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.35 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 19 | 2.35 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 10 | 2.35 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 2.35 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 2.35 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 2.35 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 2.35 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 18 | 2.35 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 18 | 2.35 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 13 | 2.35 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 2 | 2.35 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 2 | 2.35 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 1 | 2.35 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 1 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 1 | 2.35 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 1 | 2.35 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 4 | 2.35 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 4 | 2.35 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 4 | 2.35 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 4 | 2.35 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 10 | 2.35 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 10 | 2.35 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 10 | 2.35 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 10 | 2.35 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 8 | 2.35 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 8 | 2.35 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 14 | 2.35 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 14 | 2.35 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 20 | 2.35 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 3 | 2.35 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 9 | 2.35 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 18 | 2.35 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 7 | 2.35 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 1 | 2.35 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 1 | 2.35 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 1 | 2.35 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 7 | 2.35 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 6 | 2.35 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 6 | 2.35 |
| (1,3108) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 4 | 2.35 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 5 | 2.35 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 20 | 2.35 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 13 | 2.35 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 14 | 2.35 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 9 | 2.35 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 16 | 2.35 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 7 | 2.35 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 7 | 2.35 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 7 | 2.35 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 19 | 2.35 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 19 | 2.35 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 19 | 2.35 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 5 | 2.35 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 5 | 2.35 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 5 | 2.35 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 10 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 1 | 2.35 |
| (1,2768) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 16 | 2.35 |
| (1,2768) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 16 | 2.35 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 14 | 2.35 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 13 | 2.35 |
| (1,2730) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 14 | 2.35 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 2 | 2.35 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 8 | 2.35 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 5 | 2.35 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 17 | 2.35 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 1 | 2.35 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 13 | 2.35 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 10 | 2.35 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 10 | 2.35 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 13 | 2.35 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 3 | 2.35 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 3 | 2.35 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 1 | 2.35 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 1 | 2.35 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 8 | 2.35 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 8 | 2.35 |
| (1,2484) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 13 | 2.35 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 1 | 2.35 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 5 | 2.35 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 6 | 2.35 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 9 | 2.35 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 7 | 2.35 |
| (1,2366) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 20 | 2.35 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 18 | 2.35 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 4 | 2.35 |
| (1,2284) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 11 | 2.35 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 12 | 2.35 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 8 | 2.35 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 8 | 2.35 |
| (1,2202) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 8 | 2.35 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 5 | 2.35 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 5 | 2.35 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 5 | 2.35 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 8 | 2.35 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 5 | 2.35 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 5 | 2.35 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 5 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 8 | 2.35 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 12 | 2.35 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 12 | 2.35 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 12 | 2.35 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 20 | 2.35 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 20 | 2.35 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 20 | 2.35 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 11 | 2.35 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 4 | 2.35 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 17 | 2.35 |
| (1,2032) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 13 | 2.35 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 4 | 2.35 |
| (1,2027) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 4 | 2.35 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 20 | 2.35 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 20 | 2.35 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 5 | 2.35 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 14 | 2.35 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 13 | 2.35 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 5 | 2.35 |
| (1,1798) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 13 | 2.35 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 7 | 2.35 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 14 | 2.35 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 14 | 2.35 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 14 | 2.35 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 1 | 2.35 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 20 | 2.35 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 20 | 2.35 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 20 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 2 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 2 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 5 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 5 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 8 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 8 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 12 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 12 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 13 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 13 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 18 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 18 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 19 | 2.35 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 19 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 2 | 2.35 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 2 | 2.35 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 10 | 2.35 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 17 | 2.35 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 2 | 2.35 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 17 | 2.35 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 12 | 2.35 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 8 | 2.35 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 8 | 2.35 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 5 | 2.35 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 8 | 2.35 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 3 | 2.35 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 9 | 2.35 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 12 | 2.35 |
| (1,1376) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 18 | 2.35 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 8 | 2.35 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 9 | 2.35 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 14 | 2.35 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 15 | 2.35 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 15 | 2.35 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 19 | 2.35 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 19 | 2.35 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 19 | 2.35 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 19 | 2.35 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 19 | 2.35 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 19 | 2.35 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 19 | 2.35 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 19 | 2.35 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 19 | 2.35 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 15 | 2.35 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 17 | 2.35 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 16 | 2.35 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 16 | 2.35 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 10 | 2.35 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 10 | 2.35 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 10 | 2.35 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 17 | 2.35 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 17 | 2.35 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 17 | 2.35 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 20 | 2.35 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 8 | 2.35 |
| (1,1114) | 1:112:A:ASP:H | 1:113:A:CYS:H | 9 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 19 | 2.35 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 15 | 2.35 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 14 | 2.35 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 14 | 2.35 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 14 | 2.35 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 20 | 2.35 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 15 | 2.35 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 15 | 2.35 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 15 | 2.35 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 18 | 2.35 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 12 | 2.35 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 12 | 2.35 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 12 | 2.35 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 4 | 2.35 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 1 | 2.35 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 14 | 2.35 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 15 | 2.35 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 18 | 2.35 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 18 | 2.35 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 6 | 2.35 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 6 | 2.35 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 5 | 2.35 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 5 | 2.35 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 4 | 2.35 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 16 | 2.35 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 3 | 2.35 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 4 | 2.35 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 4 | 2.35 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 4 | 2.35 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 14 | 2.35 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 14 | 2.35 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 14 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 8 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 8 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 8 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 13 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 13 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 13 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 19 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 19 | 2.35 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 19 | 2.35 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 13 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 13 | 2.35 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 13 | 2.35 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 7 | 2.35 |
| (1,622) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 3 | 2.35 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 6 | 2.35 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 5 | 2.35 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 5 | 2.35 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 5 | 2.35 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 5 | 2.35 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 5 | 2.35 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 5 | 2.35 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 19 | 2.35 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 19 | 2.35 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 19 | 2.35 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 19 | 2.35 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 19 | 2.35 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 19 | 2.35 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 9 | 2.35 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 9 | 2.35 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 9 | 2.35 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 7 | 2.35 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 7 | 2.35 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 7 | 2.35 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 19 | 2.35 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 19 | 2.35 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 19 | 2.35 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 8 | 2.35 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 8 | 2.35 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 8 | 2.35 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 17 | 2.35 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 1 | 2.35 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 1 | 2.35 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 1 | 2.35 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 1 | 2.35 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 1 | 2.35 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 1 | 2.35 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 1 | 2.35 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 1 | 2.35 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 1 | 2.35 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 10 | 2.35 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 10 | 2.35 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 10 | 2.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 20 | 2.35 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 16 | 2.35 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 8 | 2.35 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 12 | 2.34 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 13 | 2.34 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 6 | 2.34 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 18 | 2.34 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 18 | 2.34 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 17 | 2.34 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 17 | 2.34 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 9 | 2.34 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 9 | 2.34 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 9 | 2.34 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 9 | 2.34 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 9 | 2.34 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 9 | 2.34 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 6 | 2.34 |
| (1,9611) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 6 | 2.34 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 15 | 2.34 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 15 | 2.34 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 4 | 2.34 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 4 | 2.34 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 7 | 2.34 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 7 | 2.34 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 7 | 2.34 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 7 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 3 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 3 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 3 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 3 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 3 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 3 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 7 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 7 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 7 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 7 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 7 | 2.34 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 7 | 2.34 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 1 | 2.34 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 1 | 2.34 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 8 | 2.34 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 8 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 9 | 2.34 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 9 | 2.34 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 9 | 2.34 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 9 | 2.34 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 9 | 2.34 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 9 | 2.34 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 2 | 2.34 |
| (1,9126) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 2 | 2.34 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 2 | 2.34 |
| (1,9126) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 2 | 2.34 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 2 | 2.34 |
| (1,9126) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 2 | 2.34 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 8 | 2.34 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 8 | 2.34 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 5 | 2.34 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 5 | 2.34 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 15 | 2.34 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 15 | 2.34 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 11 | 2.34 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 11 | 2.34 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 17 | 2.34 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 17 | 2.34 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 3 | 2.34 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 3 | 2.34 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 11 | 2.34 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 11 | 2.34 |
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 9 | 2.34 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 9 | 2.34 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 17 | 2.34 |
| (1,8962) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 17 | 2.34 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 11 | 2.34 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 11 | 2.34 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 15 | 2.34 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 15 | 2.34 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 15 | 2.34 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 15 | 2.34 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 15 | 2.34 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 15 | 2.34 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 5 | 2.34 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 5 | 2.34 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 14 | 2.34 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 14 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 14 | 2.34 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 14 | 2.34 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 2 | 2.34 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 2 | 2.34 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 8 | 2.34 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 8 | 2.34 |
| (1,8613) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 18 | 2.34 |
| (1,8613) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 18 | 2.34 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 10 | 2.34 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 10 | 2.34 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 10 | 2.34 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 10 | 2.34 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 12 | 2.34 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 12 | 2.34 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 2 | 2.34 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 2 | 2.34 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 3 | 2.34 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 3 | 2.34 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 3 | 2.34 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 19 | 2.34 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 9 | 2.34 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 9 | 2.34 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 9 | 2.34 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 17 | 2.34 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 13 | 2.34 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 9 | 2.34 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 9 | 2.34 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 20 | 2.34 |
| (1,7634) | 1:27:A:HIS:HB2 | 1:28:A:ILE:H | 14 | 2.34 |
| (1,7634) | 1:27:A:HIS:HB3 | 1:28:A:ILE:H | 14 | 2.34 |
| (1,7619) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 7 | 2.34 |
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 19 | 2.34 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 19 | 2.34 |
| (1,7476) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 13 | 2.34 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 12 | 2.34 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 17 | 2.34 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 2 | 2.34 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 4 | 2.34 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 4 | 2.34 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 20 | 2.34 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 20 | 2.34 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 7 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 7 | 2.34 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 10 | 2.34 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 5 | 2.34 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 8 | 2.34 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 13 | 2.34 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 12 | 2.34 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 12 | 2.34 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 2 | 2.34 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 4 | 2.34 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 13 | 2.34 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 13 | 2.34 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 19 | 2.34 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 19 | 2.34 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 1 | 2.34 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 1 | 2.34 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 1 | 2.34 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 7 | 2.34 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 7 | 2.34 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 7 | 2.34 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 4 | 2.34 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 13 | 2.34 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 4 | 2.34 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 3 | 2.34 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 8 | 2.34 |
| (1,6716) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 16 | 2.34 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 12 | 2.34 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 12 | 2.34 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 15 | 2.34 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 1 | 2.34 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 1 | 2.34 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 3 | 2.34 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 3 | 2.34 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 8 | 2.34 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 8 | 2.34 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 8 | 2.34 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 8 | 2.34 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 9 | 2.34 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 19 | 2.34 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 19 | 2.34 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 19 | 2.34 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 14 | 2.34 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 11 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 5 | 2.34 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 16 | 2.34 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 14 | 2.34 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 14 | 2.34 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 3 | 2.34 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 3 | 2.34 |
| (1,6331) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 3 | 2.34 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 3 | 2.34 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 1 | 2.34 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 1 | 2.34 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 4 | 2.34 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 4 | 2.34 |
| (1,6273) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 4 | 2.34 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 20 | 2.34 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 20 | 2.34 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 20 | 2.34 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 20 | 2.34 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 20 | 2.34 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 8 | 2.34 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 17 | 2.34 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 8 | 2.34 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 3 | 2.34 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 12 | 2.34 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 8 | 2.34 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 8 | 2.34 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 8 | 2.34 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 8 | 2.34 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 8 | 2.34 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 8 | 2.34 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 8 | 2.34 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 8 | 2.34 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 8 | 2.34 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 7 | 2.34 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 7 | 2.34 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 5 | 2.34 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 5 | 2.34 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 5 | 2.34 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 5 | 2.34 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 5 | 2.34 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 5 | 2.34 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 12 | 2.34 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 12 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 5 | 2.34 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 7 | 2.34 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 20 | 2.34 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 4 | 2.34 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 4 | 2.34 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 4 | 2.34 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 18 | 2.34 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 18 | 2.34 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 18 | 2.34 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 12 | 2.34 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 12 | 2.34 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 12 | 2.34 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 17 | 2.34 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 17 | 2.34 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 17 | 2.34 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 20 | 2.34 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 20 | 2.34 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 20 | 2.34 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 16 | 2.34 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 16 | 2.34 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 9 | 2.34 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 9 | 2.34 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 9 | 2.34 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 19 | 2.34 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 19 | 2.34 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 19 | 2.34 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 16 | 2.34 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 16 | 2.34 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 16 | 2.34 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 15 | 2.34 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 2 | 2.34 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 17 | 2.34 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 5 | 2.34 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 14 | 2.34 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 14 | 2.34 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 14 | 2.34 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 13 | 2.34 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 13 | 2.34 |
| (1,5513) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 13 | 2.34 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 17 | 2.34 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 5 | 2.34 |
| (1,5502) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 11 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5487) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 6 | 2.34 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 14 | 2.34 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 14 | 2.34 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 14 | 2.34 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 14 | 2.34 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 14 | 2.34 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 14 | 2.34 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 14 | 2.34 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 14 | 2.34 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 14 | 2.34 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 14 | 2.34 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 14 | 2.34 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 14 | 2.34 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 1 | 2.34 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 1 | 2.34 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 1 | 2.34 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 1 | 2.34 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 1 | 2.34 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 1 | 2.34 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 1 | 2.34 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 1 | 2.34 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 1 | 2.34 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 11 | 2.34 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 11 | 2.34 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 11 | 2.34 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 8 | 2.34 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 8 | 2.34 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 8 | 2.34 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 4 | 2.34 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 4 | 2.34 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 4 | 2.34 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 19 | 2.34 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 19 | 2.34 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 19 | 2.34 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 9 | 2.34 |
| (1,5318) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 15 | 2.34 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 9 | 2.34 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 9 | 2.34 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 9 | 2.34 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 9 | 2.34 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 9 | 2.34 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 9 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 9 | 2.34 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 9 | 2.34 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 9 | 2.34 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 7 | 2.34 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 7 | 2.34 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 7 | 2.34 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 12 | 2.34 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 12 | 2.34 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 12 | 2.34 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 13 | 2.34 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 13 | 2.34 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 13 | 2.34 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 3 | 2.34 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 3 | 2.34 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 3 | 2.34 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 15 | 2.34 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 15 | 2.34 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 15 | 2.34 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 17 | 2.34 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 17 | 2.34 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 17 | 2.34 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 14 | 2.34 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 14 | 2.34 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 14 | 2.34 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 11 | 2.34 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 13 | 2.34 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 13 | 2.34 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 13 | 2.34 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 3 | 2.34 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 3 | 2.34 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 3 | 2.34 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 2 | 2.34 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 2 | 2.34 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 2 | 2.34 |
| (1,4926) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 17 | 2.34 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 3 | 2.34 |
| (1,4851) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 15 | 2.34 |
| (1,4851) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 15 | 2.34 |
| (1,4851) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 15 | 2.34 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 2 | 2.34 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 2 | 2.34 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 2 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 1 | 2.34 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 1 | 2.34 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 1 | 2.34 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 7 | 2.34 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 7 | 2.34 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 8 | 2.34 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 8 | 2.34 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 8 | 2.34 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 18 | 2.34 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 18 | 2.34 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 9 | 2.34 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 9 | 2.34 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 9 | 2.34 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 9 | 2.34 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 9 | 2.34 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 9 | 2.34 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 6 | 2.34 |
| (1,4602) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 6 | 2.34 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 15 | 2.34 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 15 | 2.34 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 13 | 2.34 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 13 | 2.34 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 12 | 2.34 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 12 | 2.34 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 16 | 2.34 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 16 | 2.34 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 8 | 2.34 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 8 | 2.34 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 8 | 2.34 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 8 | 2.34 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 8 | 2.34 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 8 | 2.34 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 15 | 2.34 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 15 | 2.34 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 15 | 2.34 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 15 | 2.34 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 19 | 2.34 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 19 | 2.34 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 19 | 2.34 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 19 | 2.34 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 11 | 2.34 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 11 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 11 | 2.34 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 15 | 2.34 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 2 | 2.34 |
| (1,4342) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 2 | 2.34 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 16 | 2.34 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 16 | 2.34 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 16 | 2.34 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 16 | 2.34 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 18 | 2.34 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 18 | 2.34 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 4 | 2.34 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 10 | 2.34 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 10 | 2.34 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 10 | 2.34 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 10 | 2.34 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 6 | 2.34 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 6 | 2.34 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 6 | 2.34 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 6 | 2.34 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 11 | 2.34 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 6 | 2.34 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 6 | 2.34 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 8 | 2.34 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 8 | 2.34 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 5 | 2.34 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 5 | 2.34 |
| (1,4106) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 5 | 2.34 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 9 | 2.34 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 9 | 2.34 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 9 | 2.34 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 9 | 2.34 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 9 | 2.34 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 9 | 2.34 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 2 | 2.34 |
| (1,4088) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 2 | 2.34 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 2 | 2.34 |
| (1,4088) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 2 | 2.34 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 2 | 2.34 |
| (1,4088) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 2 | 2.34 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 19 | 2.34 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 19 | 2.34 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 19 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 19 | 2.34 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 19 | 2.34 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 19 | 2.34 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 12 | 2.34 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 7 | 2.34 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 7 | 2.34 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 15 | 2.34 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 15 | 2.34 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 3 | 2.34 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 3 | 2.34 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 11 | 2.34 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 11 | 2.34 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 17 | 2.34 |
| (1,3938) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 17 | 2.34 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 11 | 2.34 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 11 | 2.34 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 10 | 2.34 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 11 | 2.34 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 11 | 2.34 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 5 | 2.34 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 5 | 2.34 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 15 | 2.34 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 15 | 2.34 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 15 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 6 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 6 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 6 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 6 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 6 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 6 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 17 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 17 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 17 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 17 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 17 | 2.34 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 17 | 2.34 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 12 | 2.34 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 12 | 2.34 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 4 | 2.34 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 4 | 2.34 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 17 | 2.34 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 8 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 8 | 2.34 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 13 | 2.34 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 3 | 2.34 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 3 | 2.34 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 5 | 2.34 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 5 | 2.34 |
| (1,3560) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 18 | 2.34 |
| (1,3560) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 18 | 2.34 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 4 | 2.34 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 4 | 2.34 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 4 | 2.34 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 4 | 2.34 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 4 | 2.34 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 4 | 2.34 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 16 | 2.34 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 16 | 2.34 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 2 | 2.34 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 2 | 2.34 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 2 | 2.34 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 11 | 2.34 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 14 | 2.34 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 8 | 2.34 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 8 | 2.34 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 18 | 2.34 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 18 | 2.34 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 18 | 2.34 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 5 | 2.34 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 8 | 2.34 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 4 | 2.34 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 4 | 2.34 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 8 | 2.34 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 11 | 2.34 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 11 | 2.34 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 7 | 2.34 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 7 | 2.34 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 7 | 2.34 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 20 | 2.34 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 20 | 2.34 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 6 | 2.34 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 12 | 2.34 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 5 | 2.34 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 8 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 13 | 2.34 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 12 | 2.34 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 12 | 2.34 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 2 | 2.34 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 19 | 2.34 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 19 | 2.34 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 1 | 2.34 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 1 | 2.34 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 1 | 2.34 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 4 | 2.34 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 13 | 2.34 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 4 | 2.34 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 9 | 2.34 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 9 | 2.34 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 9 | 2.34 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 9 | 2.34 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 9 | 2.34 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 9 | 2.34 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 9 | 2.34 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 9 | 2.34 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 11 | 2.34 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 11 | 2.34 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 11 | 2.34 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 11 | 2.34 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 11 | 2.34 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 11 | 2.34 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 12 | 2.34 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 12 | 2.34 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 12 | 2.34 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 12 | 2.34 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 12 | 2.34 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 12 | 2.34 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 12 | 2.34 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 12 | 2.34 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 12 | 2.34 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 11 | 2.34 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 3 | 2.34 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 1 | 2.34 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 8 | 2.34 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 6 | 2.34 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 6 | 2.34 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 10 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 10 | 2.34 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 11 | 2.34 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 11 | 2.34 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 16 | 2.34 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 12 | 2.34 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 12 | 2.34 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 6 | 2.34 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 18 | 2.34 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 18 | 2.34 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 18 | 2.34 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 15 | 2.34 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 5 | 2.34 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 5 | 2.34 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 1 | 2.34 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 1 | 2.34 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 1 | 2.34 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 1 | 2.34 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 3 | 2.34 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 3 | 2.34 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 3 | 2.34 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 3 | 2.34 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 8 | 2.34 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 8 | 2.34 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 8 | 2.34 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 8 | 2.34 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 9 | 2.34 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 3 | 2.34 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 12 | 2.34 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 10 | 2.34 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 10 | 2.34 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 10 | 2.34 |
| (1,2232) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 14 | 2.34 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 19 | 2.34 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 19 | 2.34 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 19 | 2.34 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 16 | 2.34 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 16 | 2.34 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 16 | 2.34 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 8 | 2.34 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 9 | 2.34 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 9 | 2.34 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 9 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 2 | 2.34 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 2 | 2.34 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 2 | 2.34 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 14 | 2.34 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 4 | 2.34 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 4 | 2.34 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 4 | 2.34 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 11 | 2.34 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 11 | 2.34 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 11 | 2.34 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 11 | 2.34 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 13 | 2.34 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 13 | 2.34 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 13 | 2.34 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 2 | 2.34 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 16 | 2.34 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 3 | 2.34 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 3 | 2.34 |
| (1,2008) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 3 | 2.34 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 3 | 2.34 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 1 | 2.34 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 1 | 2.34 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 8 | 2.34 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 8 | 2.34 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 8 | 2.34 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 4 | 2.34 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 4 | 2.34 |
| (1,1940) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 4 | 2.34 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 20 | 2.34 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 2 | 2.34 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 2 | 2.34 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 2 | 2.34 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 8 | 2.34 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 17 | 2.34 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 8 | 2.34 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 8 | 2.34 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 4 | 2.34 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 4 | 2.34 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 4 | 2.34 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 3 | 2.34 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 12 | 2.34 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 8 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 8 | 2.34 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 8 | 2.34 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 8 | 2.34 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 8 | 2.34 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 8 | 2.34 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 8 | 2.34 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 8 | 2.34 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 8 | 2.34 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 7 | 2.34 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 7 | 2.34 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 18 | 2.34 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 18 | 2.34 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 18 | 2.34 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 5 | 2.34 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 5 | 2.34 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 5 | 2.34 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 5 | 2.34 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 5 | 2.34 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 5 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 5 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 5 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 8 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 8 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 11 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 11 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 12 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 12 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 13 | 2.34 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 13 | 2.34 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 15 | 2.34 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 15 | 2.34 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 15 | 2.34 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 15 | 2.34 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 19 | 2.34 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 19 | 2.34 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 19 | 2.34 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 19 | 2.34 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 12 | 2.34 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 8 | 2.34 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 8 | 2.34 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 12 | 2.34 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 9 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 1 | 2.34 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 6 | 2.34 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 5 | 2.34 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 7 | 2.34 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 20 | 2.34 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 4 | 2.34 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 4 | 2.34 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 4 | 2.34 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 18 | 2.34 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 18 | 2.34 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 18 | 2.34 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 12 | 2.34 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 12 | 2.34 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 12 | 2.34 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 17 | 2.34 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 17 | 2.34 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 17 | 2.34 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 20 | 2.34 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 20 | 2.34 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 20 | 2.34 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 10 | 2.34 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 10 | 2.34 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 6 | 2.34 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 6 | 2.34 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 7 | 2.34 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 15 | 2.34 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 15 | 2.34 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 9 | 2.34 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 9 | 2.34 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 9 | 2.34 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 19 | 2.34 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 19 | 2.34 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 19 | 2.34 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 16 | 2.34 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 16 | 2.34 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 16 | 2.34 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 18 | 2.34 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 15 | 2.34 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 5 | 2.34 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 2 | 2.34 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 8 | 2.34 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 8 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 8 | 2.34 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 17 | 2.34 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 16 | 2.34 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 16 | 2.34 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 16 | 2.34 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 16 | 2.34 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 5 | 2.34 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 2 | 2.34 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 5 | 2.34 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 14 | 2.34 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 20 | 2.34 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 20 | 2.34 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 9 | 2.34 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 9 | 2.34 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 9 | 2.34 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 14 | 2.34 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 14 | 2.34 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 14 | 2.34 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG21 | 13 | 2.34 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG22 | 13 | 2.34 |
| (1,666) | 1:96:A:ILE:HA | 1:96:A:ILE:HG23 | 13 | 2.34 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 17 | 2.34 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 5 | 2.34 |
| (1,652) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 11 | 2.34 |
| (1,612) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 6 | 2.34 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 14 | 2.34 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 14 | 2.34 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 14 | 2.34 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 14 | 2.34 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 14 | 2.34 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 14 | 2.34 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 14 | 2.34 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 14 | 2.34 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 14 | 2.34 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 14 | 2.34 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 14 | 2.34 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 14 | 2.34 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 15 | 2.34 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 15 | 2.34 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 15 | 2.34 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 15 | 2.34 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 14 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 14 | 2.34 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 14 | 2.34 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 2 | 2.34 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 2 | 2.34 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 2 | 2.34 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 3 | 2.34 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 5 | 2.34 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 5 | 2.34 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 5 | 2.34 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 6 | 2.34 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 6 | 2.34 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 6 | 2.34 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 17 | 2.34 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 17 | 2.34 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 17 | 2.34 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 6 | 2.34 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 16 | 2.34 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 16 | 2.34 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 16 | 2.34 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 16 | 2.34 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 16 | 2.34 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 16 | 2.34 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 3 | 2.33 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 5 | 2.33 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 7 | 2.33 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 2 | 2.33 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 2 | 2.33 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 2 | 2.33 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 2 | 2.33 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 2 | 2.33 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 2 | 2.33 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE1 | 7 | 2.33 |
| (1,9515) | 1:138:A:SER:HB2 | 1:139:A:PHE:HE2 | 7 | 2.33 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE1 | 7 | 2.33 |
| (1,9515) | 1:138:A:SER:HB3 | 1:139:A:PHE:HE2 | 7 | 2.33 |
| (1,9486) | 1:133:A:PRO:HB2 | 1:152:A:THR:HA | 3 | 2.33 |
| (1,9486) | 1:133:A:PRO:HB3 | 1:152:A:THR:HA | 3 | 2.33 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 9 | 2.33 |
| (1,9434) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 9 | 2.33 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 18 | 2.33 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 18 | 2.33 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 18 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 18 | 2.33 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 8 | 2.33 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 8 | 2.33 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 13 | 2.33 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 13 | 2.33 |
| (1,9335) | 1:108:A:SER:HB2 | 1:119:A:ARG:H | 12 | 2.33 |
| (1,9335) | 1:108:A:SER:HB3 | 1:119:A:ARG:H | 12 | 2.33 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 8 | 2.33 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 8 | 2.33 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 4 | 2.33 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 4 | 2.33 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 14 | 2.33 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 14 | 2.33 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 14 | 2.33 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 14 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 2.33 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 2.33 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 2 | 2.33 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 2 | 2.33 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 14 | 2.33 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 14 | 2.33 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 14 | 2.33 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 14 | 2.33 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 14 | 2.33 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 14 | 2.33 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 16 | 2.33 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 16 | 2.33 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 16 | 2.33 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 16 | 2.33 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 16 | 2.33 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 16 | 2.33 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 13 | 2.33 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 13 | 2.33 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 11 | 2.33 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 11 | 2.33 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 11 | 2.33 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 11 | 2.33 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 6 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 6 | 2.33 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 7 | 2.33 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 7 | 2.33 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 3 | 2.33 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 3 | 2.33 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 3 | 2.33 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 3 | 2.33 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 3 | 2.33 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 3 | 2.33 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 14 | 2.33 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 14 | 2.33 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 14 | 2.33 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 14 | 2.33 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 10 | 2.33 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 10 | 2.33 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 18 | 2.33 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 18 | 2.33 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 6 | 2.33 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 6 | 2.33 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 13 | 2.33 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 13 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 6 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 6 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 6 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 6 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 9 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 9 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 9 | 2.33 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 9 | 2.33 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 4 | 2.33 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 4 | 2.33 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 15 | 2.33 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 15 | 2.33 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 15 | 2.33 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 15 | 2.33 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 15 | 2.33 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 15 | 2.33 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 8 | 2.33 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 11 | 2.33 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 2 | 2.33 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 14 | 2.33 |
| (1,7883) | 1:65:A:SER:H | 1:81:A:THR:H | 8 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 3 | 2.33 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 12 | 2.33 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 15 | 2.33 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 16 | 2.33 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 15 | 2.33 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 15 | 2.33 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 15 | 2.33 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 4 | 2.33 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 4 | 2.33 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 4 | 2.33 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 12 | 2.33 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 14 | 2.33 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 13 | 2.33 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 5 | 2.33 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 15 | 2.33 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 3 | 2.33 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 4 | 2.33 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 4 | 2.33 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 3 | 2.33 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 15 | 2.33 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 14 | 2.33 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 14 | 2.33 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 14 | 2.33 |
| (1,6918) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 9 | 2.33 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 4 | 2.33 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 4 | 2.33 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 4 | 2.33 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 4 | 2.33 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 4 | 2.33 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 4 | 2.33 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 4 | 2.33 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 14 | 2.33 |
| (1,6832) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 16 | 2.33 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 8 | 2.33 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 19 | 2.33 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 3 | 2.33 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 3 | 2.33 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 14 | 2.33 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 8 | 2.33 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 8 | 2.33 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 11 | 2.33 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 17 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 4 | 2.33 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 6 | 2.33 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 6 | 2.33 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 6 | 2.33 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 6 | 2.33 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 6 | 2.33 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 6 | 2.33 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 6 | 2.33 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 6 | 2.33 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 6 | 2.33 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 6 | 2.33 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 6 | 2.33 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 6 | 2.33 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 20 | 2.33 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 20 | 2.33 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 20 | 2.33 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 5 | 2.33 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 19 | 2.33 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 19 | 2.33 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 19 | 2.33 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 10 | 2.33 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 10 | 2.33 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 10 | 2.33 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 17 | 2.33 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 4 | 2.33 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 4 | 2.33 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 4 | 2.33 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 5 | 2.33 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 5 | 2.33 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 5 | 2.33 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 10 | 2.33 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 10 | 2.33 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 10 | 2.33 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 7 | 2.33 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 7 | 2.33 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 17 | 2.33 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 17 | 2.33 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 5 | 2.33 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 5 | 2.33 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 5 | 2.33 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 7 | 2.33 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 7 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 10 | 2.33 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 10 | 2.33 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 4 | 2.33 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 16 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 1 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 1 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 1 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 1 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 1 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 1 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 1 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 1 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 1 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 17 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 17 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 17 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 17 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 17 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 17 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 17 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 17 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 17 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 19 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 19 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 19 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 19 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 19 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 19 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 19 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 19 | 2.33 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 19 | 2.33 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 1 | 2.33 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 10 | 2.33 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 10 | 2.33 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 5 | 2.33 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 5 | 2.33 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 5 | 2.33 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 6 | 2.33 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 6 | 2.33 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 6 | 2.33 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 3 | 2.33 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 3 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 3 | 2.33 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 14 | 2.33 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 14 | 2.33 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 14 | 2.33 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 17 | 2.33 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 2 | 2.33 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 8 | 2.33 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 16 | 2.33 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 6 | 2.33 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 12 | 2.33 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 1 | 2.33 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 1 | 2.33 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 1 | 2.33 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 16 | 2.33 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 16 | 2.33 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 16 | 2.33 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 16 | 2.33 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 12 | 2.33 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 12 | 2.33 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 20 | 2.33 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 20 | 2.33 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 14 | 2.33 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 10 | 2.33 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 10 | 2.33 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 10 | 2.33 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 1 | 2.33 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 1 | 2.33 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 1 | 2.33 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 20 | 2.33 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 20 | 2.33 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 20 | 2.33 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 10 | 2.33 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 10 | 2.33 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 10 | 2.33 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 5 | 2.33 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 5 | 2.33 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 5 | 2.33 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 5 | 2.33 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 5 | 2.33 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 5 | 2.33 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 17 | 2.33 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 17 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 17 | 2.33 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 17 | 2.33 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 17 | 2.33 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 17 | 2.33 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 17 | 2.33 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 17 | 2.33 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 17 | 2.33 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 13 | 2.33 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 13 | 2.33 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 13 | 2.33 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 7 | 2.33 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 7 | 2.33 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 7 | 2.33 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 4 | 2.33 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 4 | 2.33 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 4 | 2.33 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 11 | 2.33 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 11 | 2.33 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 11 | 2.33 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 18 | 2.33 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 18 | 2.33 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 18 | 2.33 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 6 | 2.33 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 6 | 2.33 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 6 | 2.33 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 14 | 2.33 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 14 | 2.33 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 14 | 2.33 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 4 | 2.33 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 4 | 2.33 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 4 | 2.33 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 15 | 2.33 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 19 | 2.33 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 9 | 2.33 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 19 | 2.33 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 19 | 2.33 |
| (1,5098) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 19 | 2.33 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 11 | 2.33 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 11 | 2.33 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 11 | 2.33 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 15 | 2.33 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 15 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 15 | 2.33 |
| (1,5053) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 10 | 2.33 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 17 | 2.33 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 18 | 2.33 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 5 | 2.33 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 5 | 2.33 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 5 | 2.33 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 5 | 2.33 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 5 | 2.33 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 5 | 2.33 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 16 | 2.33 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 16 | 2.33 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 16 | 2.33 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 6 | 2.33 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 5 | 2.33 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 14 | 2.33 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 8 | 2.33 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 11 | 2.33 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 5 | 2.33 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 5 | 2.33 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 5 | 2.33 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 3 | 2.33 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 3 | 2.33 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 4 | 2.33 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 4 | 2.33 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 4 | 2.33 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 4 | 2.33 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 4 | 2.33 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 4 | 2.33 |
| (1,4521) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 17 | 2.33 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 1 | 2.33 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 1 | 2.33 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 1 | 2.33 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 11 | 2.33 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 11 | 2.33 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 16 | 2.33 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 16 | 2.33 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 9 | 2.33 |
| (1,4472) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 9 | 2.33 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 9 | 2.33 |
| (1,4472) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 9 | 2.33 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 13 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 13 | 2.33 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 13 | 2.33 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 13 | 2.33 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 1 | 2.33 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 1 | 2.33 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 1 | 2.33 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 1 | 2.33 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 14 | 2.33 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 14 | 2.33 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 14 | 2.33 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 14 | 2.33 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 1 | 2.33 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 1 | 2.33 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 7 | 2.33 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 7 | 2.33 |
| (1,4388) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 18 | 2.33 |
| (1,4388) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 18 | 2.33 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 9 | 2.33 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 9 | 2.33 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 2 | 2.33 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 2 | 2.33 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 2 | 2.33 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 10 | 2.33 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 10 | 2.33 |
| (1,4193) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 14 | 2.33 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 18 | 2.33 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 18 | 2.33 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 17 | 2.33 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 17 | 2.33 |
| (1,4133) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 1 | 2.33 |
| (1,4133) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 1 | 2.33 |
| (1,4133) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 1 | 2.33 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 19 | 2.33 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 19 | 2.33 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 19 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 2.33 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 2.33 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 13 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 13 | 2.33 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 13 | 2.33 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 15 | 2.33 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 9 | 2.33 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 2 | 2.33 |
| (1,4039) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 2 | 2.33 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 2 | 2.33 |
| (1,4039) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 2 | 2.33 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 2 | 2.33 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 2 | 2.33 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 14 | 2.33 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 14 | 2.33 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 14 | 2.33 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 14 | 2.33 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 14 | 2.33 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 14 | 2.33 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 8 | 2.33 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 8 | 2.33 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 8 | 2.33 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 8 | 2.33 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 8 | 2.33 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 8 | 2.33 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 7 | 2.33 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 7 | 2.33 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 7 | 2.33 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 7 | 2.33 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 7 | 2.33 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 7 | 2.33 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 13 | 2.33 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 13 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 3 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 3 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 8 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 8 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 10 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 10 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 12 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 12 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 13 | 2.33 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 13 | 2.33 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 6 | 2.33 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 6 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 15 | 2.33 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 4 | 2.33 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 8 | 2.33 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 8 | 2.33 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 14 | 2.33 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 14 | 2.33 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 3 | 2.33 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 3 | 2.33 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 18 | 2.33 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 18 | 2.33 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 5 | 2.33 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 5 | 2.33 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 7 | 2.33 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 15 | 2.33 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 15 | 2.33 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 20 | 2.33 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 20 | 2.33 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 20 | 2.33 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 20 | 2.33 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 20 | 2.33 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 20 | 2.33 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 12 | 2.33 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 2.33 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 12 | 2.33 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 2 | 2.33 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 3 | 2.33 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 3 | 2.33 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 16 | 2.33 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 16 | 2.33 |
| (1,3422) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 15 | 2.33 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 2.33 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 2.33 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 2.33 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 2 | 2.33 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 2 | 2.33 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 12 | 2.33 |
| (1,3248) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 20 | 2.33 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 5 | 2.33 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 16 | 2.33 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 16 | 2.33 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 16 | 2.33 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 9 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 9 | 2.33 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 9 | 2.33 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 15 | 2.33 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 2.33 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 3 | 2.33 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 4 | 2.33 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 4 | 2.33 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 3 | 2.33 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 13 | 2.33 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 13 | 2.33 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 14 | 2.33 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 14 | 2.33 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 14 | 2.33 |
| (1,2924) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 9 | 2.33 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 4 | 2.33 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 4 | 2.33 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 4 | 2.33 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 18 | 2.33 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 18 | 2.33 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 18 | 2.33 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 19 | 2.33 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 4 | 2.33 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 14 | 2.33 |
| (1,2816) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 16 | 2.33 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 7 | 2.33 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 8 | 2.33 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 19 | 2.33 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 3 | 2.33 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 12 | 2.33 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 12 | 2.33 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 3 | 2.33 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 14 | 2.33 |
| (1,2654) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 7 | 2.33 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 3 | 2.33 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 3 | 2.33 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 10 | 2.33 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 19 | 2.33 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 13 | 2.33 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 13 | 2.33 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 5 | 2.33 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 5 | 2.33 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 8 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 8 | 2.33 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 7 | 2.33 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 19 | 2.33 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 17 | 2.33 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 4 | 2.33 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 6 | 2.33 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 6 | 2.33 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 6 | 2.33 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 6 | 2.33 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 6 | 2.33 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 6 | 2.33 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 6 | 2.33 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 6 | 2.33 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 6 | 2.33 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 6 | 2.33 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 6 | 2.33 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 6 | 2.33 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 20 | 2.33 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 20 | 2.33 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 20 | 2.33 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 3 | 2.33 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 5 | 2.33 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 13 | 2.33 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 13 | 2.33 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 13 | 2.33 |
| (1,2146) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 5 | 2.33 |
| (1,2146) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 5 | 2.33 |
| (1,2146) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 5 | 2.33 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 19 | 2.33 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 19 | 2.33 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 19 | 2.33 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 10 | 2.33 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 10 | 2.33 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 10 | 2.33 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 1 | 2.33 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 1 | 2.33 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 1 | 2.33 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 17 | 2.33 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 4 | 2.33 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 4 | 2.33 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 4 | 2.33 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 5 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 5 | 2.33 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 5 | 2.33 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 12 | 2.33 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 12 | 2.33 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 12 | 2.33 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 13 | 2.33 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 13 | 2.33 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 13 | 2.33 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 11 | 2.33 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 11 | 2.33 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 11 | 2.33 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 6 | 2.33 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 6 | 2.33 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 6 | 2.33 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 8 | 2.33 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 10 | 2.33 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 10 | 2.33 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 10 | 2.33 |
| (1,2050) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 10 | 2.33 |
| (1,2050) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 10 | 2.33 |
| (1,2050) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 10 | 2.33 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 8 | 2.33 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 8 | 2.33 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 8 | 2.33 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 4 | 2.33 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 16 | 2.33 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 16 | 2.33 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 16 | 2.33 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 16 | 2.33 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 9 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 1 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 1 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 1 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 1 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 1 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 1 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 1 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 1 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 1 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 17 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 17 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 17 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 17 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 17 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 17 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 17 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 17 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 17 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 19 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 19 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 19 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 19 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 19 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 19 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 19 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 19 | 2.33 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 19 | 2.33 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 20 | 2.33 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 15 | 2.33 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 15 | 2.33 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 15 | 2.33 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 17 | 2.33 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 10 | 2.33 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 9 | 2.33 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 13 | 2.33 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 15 | 2.33 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 10 | 2.33 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 5 | 2.33 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 5 | 2.33 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 5 | 2.33 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 6 | 2.33 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 6 | 2.33 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 6 | 2.33 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 12 | 2.33 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 3 | 2.33 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 3 | 2.33 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 3 | 2.33 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 14 | 2.33 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 14 | 2.33 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 14 | 2.33 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 2 | 2.33 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 17 | 2.33 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 6 | 2.33 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 6 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 16 | 2.33 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 16 | 2.33 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 9 | 2.33 |
| (1,1562) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 9 | 2.33 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 9 | 2.33 |
| (1,1562) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 9 | 2.33 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 12 | 2.33 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 2 | 2.33 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 12 | 2.33 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 12 | 2.33 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 2 | 2.33 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 12 | 2.33 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 2 | 2.33 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 8 | 2.33 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 16 | 2.33 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 9 | 2.33 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 7 | 2.33 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 10 | 2.33 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 11 | 2.33 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 11 | 2.33 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 11 | 2.33 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 11 | 2.33 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 11 | 2.33 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 11 | 2.33 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 6 | 2.33 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 12 | 2.33 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 1 | 2.33 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 1 | 2.33 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 1 | 2.33 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 16 | 2.33 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 16 | 2.33 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 16 | 2.33 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 1 | 2.33 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 1 | 2.33 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 8 | 2.33 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 8 | 2.33 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 20 | 2.33 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 20 | 2.33 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 17 | 2.33 |
| (1,1234) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 17 | 2.33 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 13 | 2.33 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 13 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 5 | 2.33 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 5 | 2.33 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 5 | 2.33 |
| (1,1108) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 2 | 2.33 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 10 | 2.33 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 17 | 2.33 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 17 | 2.33 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 17 | 2.33 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 13 | 2.33 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 13 | 2.33 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 13 | 2.33 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 16 | 2.33 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 4 | 2.33 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 15 | 2.33 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 5 | 2.33 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 18 | 2.33 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 18 | 2.33 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 12 | 2.33 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 12 | 2.33 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 20 | 2.33 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 20 | 2.33 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 10 | 2.33 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 1 | 2.33 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 14 | 2.33 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 10 | 2.33 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 10 | 2.33 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 10 | 2.33 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 1 | 2.33 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 1 | 2.33 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 1 | 2.33 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 20 | 2.33 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 20 | 2.33 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 20 | 2.33 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 2 | 2.33 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 2 | 2.33 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 2 | 2.33 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 2 | 2.33 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 2 | 2.33 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 2 | 2.33 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 18 | 2.33 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 18 | 2.33 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 18 | 2.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 18 | 2.33 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 18 | 2.33 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 18 | 2.33 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 18 | 2.33 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 18 | 2.33 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 18 | 2.33 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 19 | 2.33 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 15 | 2.33 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 15 | 2.33 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 15 | 2.33 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 3 | 2.33 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 16 | 2.33 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 16 | 2.33 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 15 | 2.33 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 11 | 2.33 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 11 | 2.33 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 11 | 2.33 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 20 | 2.33 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 20 | 2.33 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 20 | 2.33 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 6 | 2.33 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 6 | 2.33 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 6 | 2.33 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 14 | 2.33 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 14 | 2.33 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 14 | 2.33 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 5 | 2.33 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 5 | 2.33 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 5 | 2.33 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 12 | 2.33 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 12 | 2.33 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 12 | 2.33 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 4 | 2.33 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 4 | 2.33 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 4 | 2.33 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 19 | 2.32 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 7 | 2.32 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 4 | 2.32 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 4 | 2.32 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 18 | 2.32 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 11 | 2.32 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 13 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 13 | 2.32 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 13 | 2.32 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 13 | 2.32 |
| (3,409) | 1:61:A:LEU:H | 1:157:A:HIS:H | 17 | 2.32 |
| (1,9538) | 1:142:A:ARG:HB2 | 1:145:A:GLU:HB2 | 7 | 2.32 |
| (1,9538) | 1:142:A:ARG:HB3 | 1:145:A:GLU:HB2 | 7 | 2.32 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 7 | 2.32 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 7 | 2.32 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 7 | 2.32 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 7 | 2.32 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 7 | 2.32 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 7 | 2.32 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 2 | 2.32 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 2 | 2.32 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 2 | 2.32 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 2 | 2.32 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 2 | 2.32 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 2 | 2.32 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 6 | 2.32 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 6 | 2.32 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 6 | 2.32 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 6 | 2.32 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 4 | 2.32 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 4 | 2.32 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 3 | 2.32 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 3 | 2.32 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 15 | 2.32 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 15 | 2.32 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 15 | 2.32 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 15 | 2.32 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 4 | 2.32 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 4 | 2.32 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 8 | 2.32 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 8 | 2.32 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 9 | 2.32 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 9 | 2.32 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 3 | 2.32 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 3 | 2.32 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 6 | 2.32 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 6 | 2.32 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 15 | 2.32 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 15 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 8 | 2.32 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 8 | 2.32 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 19 | 2.32 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 19 | 2.32 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 19 | 2.32 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 19 | 2.32 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 19 | 2.32 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 19 | 2.32 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 20 | 2.32 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 20 | 2.32 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 4 | 2.32 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 4 | 2.32 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 4 | 2.32 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 4 | 2.32 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 2 | 2.32 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 2 | 2.32 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 3 | 2.32 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 3 | 2.32 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 16 | 2.32 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 16 | 2.32 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 16 | 2.32 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 16 | 2.32 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 16 | 2.32 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 16 | 2.32 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 6 | 2.32 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 6 | 2.32 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 6 | 2.32 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 6 | 2.32 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 6 | 2.32 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 6 | 2.32 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 9 | 2.32 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 9 | 2.32 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 9 | 2.32 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 9 | 2.32 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 16 | 2.32 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 16 | 2.32 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 16 | 2.32 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 16 | 2.32 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 5 | 2.32 |
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 5 | 2.32 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 13 | 2.32 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 13 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 14 | 2.32 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 14 | 2.32 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 20 | 2.32 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 20 | 2.32 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 20 | 2.32 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 20 | 2.32 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 7 | 2.32 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 7 | 2.32 |
| (1,8520) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 7 | 2.32 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 7 | 2.32 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 7 | 2.32 |
| (1,8520) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 7 | 2.32 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 8 | 2.32 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 8 | 2.32 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 8 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 10 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 10 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 10 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 10 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 10 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 10 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 10 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 10 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 10 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 11 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 11 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 11 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 11 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 11 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 11 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 11 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 11 | 2.32 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 11 | 2.32 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 4 | 2.32 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 4 | 2.32 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 4 | 2.32 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 17 | 2.32 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 12 | 2.32 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 2 | 2.32 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 2 | 2.32 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 4 | 2.32 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 4 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 4 | 2.32 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 4 | 2.32 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 4 | 2.32 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 4 | 2.32 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 4 | 2.32 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 4 | 2.32 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 4 | 2.32 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 8 | 2.32 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 8 | 2.32 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 9 | 2.32 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 9 | 2.32 |
| (1,7381) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 9 | 2.32 |
| (1,7336) | 1:89:A:ILE:H | 1:89:A:ILE:HB | 18 | 2.32 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 7 | 2.32 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 11 | 2.32 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 14 | 2.32 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 14 | 2.32 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 10 | 2.32 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 10 | 2.32 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 2 | 2.32 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 2 | 2.32 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 7 | 2.32 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 11 | 2.32 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 11 | 2.32 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 3 | 2.32 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 3 | 2.32 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 6 | 2.32 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 9 | 2.32 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 17 | 2.32 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 16 | 2.32 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 4 | 2.32 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 7 | 2.32 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 12 | 2.32 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 4 | 2.32 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 5 | 2.32 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 6 | 2.32 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 5 | 2.32 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 5 | 2.32 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 5 | 2.32 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 5 | 2.32 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 2.32 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 1 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 15 | 2.32 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 20 | 2.32 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 7 | 2.32 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 7 | 2.32 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 2 | 2.32 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 3 | 2.32 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 3 | 2.32 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 3 | 2.32 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 20 | 2.32 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 2 | 2.32 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 15 | 2.32 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 1 | 2.32 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 1 | 2.32 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 1 | 2.32 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 7 | 2.32 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 7 | 2.32 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 7 | 2.32 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 15 | 2.32 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 20 | 2.32 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 20 | 2.32 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 20 | 2.32 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 19 | 2.32 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 19 | 2.32 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 19 | 2.32 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 1 | 2.32 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 1 | 2.32 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 10 | 2.32 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 10 | 2.32 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 16 | 2.32 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 16 | 2.32 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 17 | 2.32 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 17 | 2.32 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 1 | 2.32 |
| (1,6227) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 18 | 2.32 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 19 | 2.32 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 7 | 2.32 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 1 | 2.32 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 6 | 2.32 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 6 | 2.32 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 6 | 2.32 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 6 | 2.32 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 6 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 6 | 2.32 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 6 | 2.32 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 6 | 2.32 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 6 | 2.32 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 15 | 2.32 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 15 | 2.32 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 15 | 2.32 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 6 | 2.32 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 6 | 2.32 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 3 | 2.32 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 3 | 2.32 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 8 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 2 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 2 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 2 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 2 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 2 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 2 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 15 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 15 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 15 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 15 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 15 | 2.32 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 15 | 2.32 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 9 | 2.32 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 11 | 2.32 |
| (1,6001) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 6 | 2.32 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 13 | 2.32 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 13 | 2.32 |
| (1,5978) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 9 | 2.32 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 14 | 2.32 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 1 | 2.32 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 15 | 2.32 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 2 | 2.32 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 2 | 2.32 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 5 | 2.32 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 5 | 2.32 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 5 | 2.32 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 1 | 2.32 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 1 | 2.32 |
| (1,5823) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 1 | 2.32 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 6 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 6 | 2.32 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 6 | 2.32 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 9 | 2.32 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 9 | 2.32 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 9 | 2.32 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 8 | 2.32 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 8 | 2.32 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 20 | 2.32 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 5 | 2.32 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 5 | 2.32 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 5 | 2.32 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 4 | 2.32 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 4 | 2.32 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 4 | 2.32 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 8 | 2.32 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 8 | 2.32 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 13 | 2.32 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 13 | 2.32 |
| (1,5580) | 1:99:A:GLY:H | 1:100:A:GLU:H | 2 | 2.32 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 10 | 2.32 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 1 | 2.32 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 1 | 2.32 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 1 | 2.32 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 1 | 2.32 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 1 | 2.32 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 1 | 2.32 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 1 | 2.32 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 1 | 2.32 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 1 | 2.32 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 11 | 2.32 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 11 | 2.32 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 11 | 2.32 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 16 | 2.32 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 16 | 2.32 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 16 | 2.32 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 3 | 2.32 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 3 | 2.32 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 3 | 2.32 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 6 | 2.32 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 6 | 2.32 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 6 | 2.32 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 20 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 20 | 2.32 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 20 | 2.32 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 1 | 2.32 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 1 | 2.32 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 1 | 2.32 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 12 | 2.32 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 12 | 2.32 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 12 | 2.32 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 10 | 2.32 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 10 | 2.32 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 10 | 2.32 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 1 | 2.32 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 1 | 2.32 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 1 | 2.32 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 10 | 2.32 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 10 | 2.32 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 10 | 2.32 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 19 | 2.32 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 19 | 2.32 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 19 | 2.32 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 3 | 2.32 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 3 | 2.32 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 3 | 2.32 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 8 | 2.32 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 8 | 2.32 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 8 | 2.32 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 19 | 2.32 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 19 | 2.32 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 19 | 2.32 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 8 | 2.32 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 2 | 2.32 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 2 | 2.32 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 2 | 2.32 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 10 | 2.32 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 3 | 2.32 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 10 | 2.32 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 3 | 2.32 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 3 | 2.32 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 3 | 2.32 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 3 | 2.32 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 3 | 2.32 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 3 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 3 | 2.32 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 3 | 2.32 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 3 | 2.32 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 5 | 2.32 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 1 | 2.32 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 8 | 2.32 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 8 | 2.32 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 8 | 2.32 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 16 | 2.32 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 16 | 2.32 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 16 | 2.32 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 13 | 2.32 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 3 | 2.32 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 1 | 2.32 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 1 | 2.32 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 2.32 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 7 | 2.32 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 7 | 2.32 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 7 | 2.32 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 7 | 2.32 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 7 | 2.32 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 7 | 2.32 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 16 | 2.32 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 16 | 2.32 |
| (1,4505) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 16 | 2.32 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 4 | 2.32 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 4 | 2.32 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 3 | 2.32 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 3 | 2.32 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 4 | 2.32 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 4 | 2.32 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 6 | 2.32 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 6 | 2.32 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 9 | 2.32 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 9 | 2.32 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 13 | 2.32 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 3 | 2.32 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 3 | 2.32 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 13 | 2.32 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 13 | 2.32 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 13 | 2.32 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 13 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 13 | 2.32 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 13 | 2.32 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 11 | 2.32 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 11 | 2.32 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 2 | 2.32 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 2 | 2.32 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 5 | 2.32 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 5 | 2.32 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 5 | 2.32 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 2 | 2.32 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 2 | 2.32 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 2 | 2.32 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 2 | 2.32 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 2 | 2.32 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 2 | 2.32 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 17 | 2.32 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 17 | 2.32 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 17 | 2.32 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 13 | 2.32 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 13 | 2.32 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 13 | 2.32 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 13 | 2.32 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 13 | 2.32 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 13 | 2.32 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 14 | 2.32 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 14 | 2.32 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 14 | 2.32 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 19 | 2.32 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 19 | 2.32 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 19 | 2.32 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 19 | 2.32 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 19 | 2.32 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 19 | 2.32 |
| (1,4002) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 18 | 2.32 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 15 | 2.32 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 7 | 2.32 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 7 | 2.32 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 2 | 2.32 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 2 | 2.32 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 18 | 2.32 |
| (1,3894) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 9 | 2.32 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 3 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 3 | 2.32 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 6 | 2.32 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 6 | 2.32 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 6 | 2.32 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 6 | 2.32 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 15 | 2.32 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 15 | 2.32 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 15 | 2.32 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 15 | 2.32 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 15 | 2.32 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 15 | 2.32 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 5 | 2.32 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 15 | 2.32 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 15 | 2.32 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 13 | 2.32 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 13 | 2.32 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 13 | 2.32 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 13 | 2.32 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 6 | 2.32 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 6 | 2.32 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 13 | 2.32 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 13 | 2.32 |
| (1,3534) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 12 | 2.32 |
| (1,3534) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 12 | 2.32 |
| (1,3534) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 12 | 2.32 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 19 | 2.32 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 19 | 2.32 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 19 | 2.32 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 19 | 2.32 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 19 | 2.32 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 19 | 2.32 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 3 | 2.32 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 3 | 2.32 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 15 | 2.32 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 11 | 2.32 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 14 | 2.32 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 16 | 2.32 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 11 | 2.32 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 10 | 2.32 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 10 | 2.32 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 10 | 2.32 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 14 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 4 | 2.32 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 14 | 2.32 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 14 | 2.32 |
| (1,3170) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 17 | 2.32 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 6 | 2.32 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 6 | 2.32 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 6 | 2.32 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 2.32 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 2.32 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 2.32 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 4 | 2.32 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 4 | 2.32 |
| (1,3138) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 11 | 2.32 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 10 | 2.32 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 10 | 2.32 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 17 | 2.32 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 11 | 2.32 |
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 11 | 2.32 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 3 | 2.32 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 3 | 2.32 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 6 | 2.32 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 9 | 2.32 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 17 | 2.32 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 14 | 2.32 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 14 | 2.32 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 13 | 2.32 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 4 | 2.32 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 7 | 2.32 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 14 | 2.32 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 14 | 2.32 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 14 | 2.32 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 12 | 2.32 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 20 | 2.32 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 4 | 2.32 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 5 | 2.32 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 6 | 2.32 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 5 | 2.32 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 5 | 2.32 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 5 | 2.32 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 5 | 2.32 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 12 | 2.32 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 12 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 1 | 2.32 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 6 | 2.32 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 6 | 2.32 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 9 | 2.32 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 14 | 2.32 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 20 | 2.32 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 4 | 2.32 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 4 | 2.32 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 4 | 2.32 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 4 | 2.32 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 4 | 2.32 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 19 | 2.32 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 19 | 2.32 |
| (1,2622) | 1:17:A:ARG:HB2 | 1:17:A:ARG:HG2 | 11 | 2.32 |
| (1,2622) | 1:17:A:ARG:HB3 | 1:17:A:ARG:HG2 | 11 | 2.32 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 15 | 2.32 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 20 | 2.32 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 16 | 2.32 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 16 | 2.32 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 16 | 2.32 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 16 | 2.32 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 16 | 2.32 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 7 | 2.32 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 7 | 2.32 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 18 | 2.32 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 18 | 2.32 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 20 | 2.32 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 20 | 2.32 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 20 | 2.32 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 2 | 2.32 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 3 | 2.32 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 3 | 2.32 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 3 | 2.32 |
| (1,2402) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 13 | 2.32 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 2 | 2.32 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 20 | 2.32 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 10 | 2.32 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 15 | 2.32 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 15 | 2.32 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 1 | 2.32 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 1 | 2.32 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 1 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 7 | 2.32 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 7 | 2.32 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 7 | 2.32 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 4 | 2.32 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 4 | 2.32 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 4 | 2.32 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 15 | 2.32 |
| (1,2158) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 4 | 2.32 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 20 | 2.32 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 20 | 2.32 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 20 | 2.32 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 12 | 2.32 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 19 | 2.32 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 19 | 2.32 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 19 | 2.32 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 2 | 2.32 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 2 | 2.32 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 2 | 2.32 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 16 | 2.32 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 16 | 2.32 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 16 | 2.32 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 14 | 2.32 |
| (1,1876) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 7 | 2.32 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 1 | 2.32 |
| (1,1858) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 18 | 2.32 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 3 | 2.32 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 3 | 2.32 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 3 | 2.32 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 19 | 2.32 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 20 | 2.32 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 7 | 2.32 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 8 | 2.32 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 8 | 2.32 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 8 | 2.32 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 1 | 2.32 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 6 | 2.32 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 6 | 2.32 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 6 | 2.32 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 6 | 2.32 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 6 | 2.32 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 6 | 2.32 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 6 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 6 | 2.32 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 6 | 2.32 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 15 | 2.32 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 15 | 2.32 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 15 | 2.32 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 6 | 2.32 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 6 | 2.32 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 3 | 2.32 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 3 | 2.32 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 8 | 2.32 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 10 | 2.32 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 10 | 2.32 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 10 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 2 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 2 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 2 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 2 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 2 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 2 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 15 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 15 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 15 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 15 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 15 | 2.32 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 15 | 2.32 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 20 | 2.32 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 9 | 2.32 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 11 | 2.32 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 9 | 2.32 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 1 | 2.32 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 1 | 2.32 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 10 | 2.32 |
| (1,1506) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 4 | 2.32 |
| (1,1498) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 6 | 2.32 |
| (1,1452) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 9 | 2.32 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 11 | 2.32 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 14 | 2.32 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 1 | 2.32 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 14 | 2.32 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 14 | 2.32 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 2 | 2.32 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 2 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 10 | 2.32 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 10 | 2.32 |
| (1,1282) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 10 | 2.32 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 5 | 2.32 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 5 | 2.32 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 5 | 2.32 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 6 | 2.32 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 6 | 2.32 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 13 | 2.32 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 13 | 2.32 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 1 | 2.32 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 1 | 2.32 |
| (1,1198) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 1 | 2.32 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 6 | 2.32 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 6 | 2.32 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 6 | 2.32 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 9 | 2.32 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 9 | 2.32 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 9 | 2.32 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 8 | 2.32 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 8 | 2.32 |
| (1,1030) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 3 | 2.32 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 4 | 2.32 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 20 | 2.32 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 2 | 2.32 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 5 | 2.32 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 7 | 2.32 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 9 | 2.32 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 20 | 2.32 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 5 | 2.32 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 5 | 2.32 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 5 | 2.32 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 5 | 2.32 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 15 | 2.32 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 15 | 2.32 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 12 | 2.32 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 12 | 2.32 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 5 | 2.32 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 5 | 2.32 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 8 | 2.32 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 8 | 2.32 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 13 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 13 | 2.32 |
| (1,760) | 1:99:A:GLY:H | 1:100:A:GLU:H | 2 | 2.32 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 15 | 2.32 |
| (1,753) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 15 | 2.32 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 13 | 2.32 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 13 | 2.32 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 13 | 2.32 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 10 | 2.32 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 20 | 2.32 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 20 | 2.32 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 20 | 2.32 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 17 | 2.32 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 1 | 2.32 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 1 | 2.32 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 1 | 2.32 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 1 | 2.32 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 1 | 2.32 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 1 | 2.32 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 1 | 2.32 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 1 | 2.32 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 1 | 2.32 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 12 | 2.32 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 12 | 2.32 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 12 | 2.32 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 11 | 2.32 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 11 | 2.32 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 11 | 2.32 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 13 | 2.32 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 13 | 2.32 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 13 | 2.32 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 13 | 2.32 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 13 | 2.32 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 13 | 2.32 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 13 | 2.32 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 13 | 2.32 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 13 | 2.32 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 20 | 2.32 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 20 | 2.32 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 20 | 2.32 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 6 | 2.32 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 8 | 2.32 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 15 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 10 | 2.32 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 20 | 2.32 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 20 | 2.32 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 20 | 2.32 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 20 | 2.32 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 20 | 2.32 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 20 | 2.32 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 18 | 2.31 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 18 | 2.31 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 10 | 2.31 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 8 | 2.31 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 8 | 2.31 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 11 | 2.31 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 11 | 2.31 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 1 | 2.31 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 1 | 2.31 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 18 | 2.31 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 18 | 2.31 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 18 | 2.31 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 18 | 2.31 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 2.31 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 2.31 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 7 | 2.31 |
| (1,9430) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 7 | 2.31 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 10 | 2.31 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 10 | 2.31 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 18 | 2.31 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 18 | 2.31 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 17 | 2.31 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 17 | 2.31 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 18 | 2.31 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 18 | 2.31 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 5 | 2.31 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 5 | 2.31 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 1 | 2.31 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 1 | 2.31 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 9 | 2.31 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 9 | 2.31 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 9 | 2.31 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 9 | 2.31 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 18 | 2.31 |
| (1,8970) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 18 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 18 | 2.31 |
| (1,8907) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 18 | 2.31 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 17 | 2.31 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 17 | 2.31 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 6 | 2.31 |
| (1,8884) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 6 | 2.31 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 5 | 2.31 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 5 | 2.31 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 16 | 2.31 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 16 | 2.31 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 19 | 2.31 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 19 | 2.31 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 19 | 2.31 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 19 | 2.31 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 6 | 2.31 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 6 | 2.31 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 2 | 2.31 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 2 | 2.31 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 7 | 2.31 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 7 | 2.31 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 14 | 2.31 |
| (1,8587) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 14 | 2.31 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 5 | 2.31 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 5 | 2.31 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 5 | 2.31 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 5 | 2.31 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 19 | 2.31 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 19 | 2.31 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 19 | 2.31 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 19 | 2.31 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 9 | 2.31 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 9 | 2.31 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 14 | 2.31 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 14 | 2.31 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 14 | 2.31 |
| (1,8311) | 1:130:A:MET:H | 1:131:A:GLN:H | 11 | 2.31 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 4 | 2.31 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 12 | 2.31 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 12 | 2.31 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD2 | 13 | 2.31 |
| (1,8251) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HD3 | 13 | 2.31 |
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD2 | 13 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8251) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HD3 | 13 | 2.31 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD2 | 13 | 2.31 |
| (1,8251) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HD3 | 13 | 2.31 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 10 | 2.31 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 8 | 2.31 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 12 | 2.31 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 12 | 2.31 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 12 | 2.31 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 12 | 2.31 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 5 | 2.31 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 5 | 2.31 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 5 | 2.31 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 5 | 2.31 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 5 | 2.31 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 5 | 2.31 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 5 | 2.31 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 5 | 2.31 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 5 | 2.31 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 4 | 2.31 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 6 | 2.31 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 6 | 2.31 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 6 | 2.31 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 6 | 2.31 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 6 | 2.31 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 6 | 2.31 |
| (1,7541) | 1:15:A:MET:HA | 1:23:A:TYR:H | 13 | 2.31 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 12 | 2.31 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 12 | 2.31 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 12 | 2.31 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 17 | 2.31 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 17 | 2.31 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 17 | 2.31 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 10 | 2.31 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 10 | 2.31 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 10 | 2.31 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 10 | 2.31 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 10 | 2.31 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 10 | 2.31 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 6 | 2.31 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 6 | 2.31 |
| (1,7289) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 1 | 2.31 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 5 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 20 | 2.31 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 6 | 2.31 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 6 | 2.31 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 1 | 2.31 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 2 | 2.31 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 2 | 2.31 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 5 | 2.31 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 5 | 2.31 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 16 | 2.31 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 10 | 2.31 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 10 | 2.31 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 5 | 2.31 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 5 | 2.31 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 19 | 2.31 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 5 | 2.31 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 9 | 2.31 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 5 | 2.31 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 5 | 2.31 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 5 | 2.31 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 13 | 2.31 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 13 | 2.31 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 13 | 2.31 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 2 | 2.31 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 20 | 2.31 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 12 | 2.31 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 15 | 2.31 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 2 | 2.31 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 3 | 2.31 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 3 | 2.31 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 3 | 2.31 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 3 | 2.31 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 5 | 2.31 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 5 | 2.31 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 14 | 2.31 |
| (1,6637) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 14 | 2.31 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 10 | 2.31 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 20 | 2.31 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 10 | 2.31 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 2 | 2.31 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 2 | 2.31 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 2 | 2.31 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 11 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 10 | 2.31 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 5 | 2.31 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 5 | 2.31 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 5 | 2.31 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 10 | 2.31 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 11 | 2.31 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 9 | 2.31 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 9 | 2.31 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 9 | 2.31 |
| (1,6322) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 15 | 2.31 |
| (1,6322) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 15 | 2.31 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 11 | 2.31 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 11 | 2.31 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 14 | 2.31 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 14 | 2.31 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 9 | 2.31 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 9 | 2.31 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 12 | 2.31 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 18 | 2.31 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 18 | 2.31 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 18 | 2.31 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 12 | 2.31 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 6 | 2.31 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 6 | 2.31 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 12 | 2.31 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 11 | 2.31 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 1 | 2.31 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 1 | 2.31 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 1 | 2.31 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 11 | 2.31 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 11 | 2.31 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 11 | 2.31 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 15 | 2.31 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 15 | 2.31 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 15 | 2.31 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 20 | 2.31 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 20 | 2.31 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 20 | 2.31 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 6 | 2.31 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 6 | 2.31 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 19 | 2.31 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 12 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 4 | 2.31 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 4 | 2.31 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 14 | 2.31 |
| (1,5888) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 18 | 2.31 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 14 | 2.31 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 14 | 2.31 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 14 | 2.31 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 2 | 2.31 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 7 | 2.31 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 18 | 2.31 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 7 | 2.31 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 7 | 2.31 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 7 | 2.31 |
| (1,5714) | 1:107:A:ALA:H | 1:108:A:SER:H | 13 | 2.31 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 12 | 2.31 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 12 | 2.31 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 12 | 2.31 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 11 | 2.31 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 14 | 2.31 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 1 | 2.31 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 1 | 2.31 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 1 | 2.31 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 1 | 2.31 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 17 | 2.31 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 17 | 2.31 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 17 | 2.31 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 13 | 2.31 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 7 | 2.31 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 7 | 2.31 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 7 | 2.31 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 10 | 2.31 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 10 | 2.31 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 10 | 2.31 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 17 | 2.31 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 17 | 2.31 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 17 | 2.31 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 13 | 2.31 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 13 | 2.31 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 13 | 2.31 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 4 | 2.31 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 4 | 2.31 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 4 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 4 | 2.31 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 4 | 2.31 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 4 | 2.31 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 4 | 2.31 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 4 | 2.31 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 4 | 2.31 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 16 | 2.31 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 16 | 2.31 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 16 | 2.31 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 1 | 2.31 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 1 | 2.31 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 1 | 2.31 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 9 | 2.31 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 2 | 2.31 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 2 | 2.31 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 2 | 2.31 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 6 | 2.31 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 17 | 2.31 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 17 | 2.31 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 17 | 2.31 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 14 | 2.31 |
| (1,4993) | 1:73:A:TRP:H | 1:74:A:ARG:H | 1 | 2.31 |
| (1,4954) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 10 | 2.31 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 2 | 2.31 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 9 | 2.31 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 9 | 2.31 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 9 | 2.31 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 9 | 2.31 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 9 | 2.31 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 9 | 2.31 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 3 | 2.31 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 16 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 5 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 5 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 5 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 5 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 5 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 5 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 5 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 5 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 5 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 9 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 9 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 9 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 9 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 9 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 9 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 9 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 9 | 2.31 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 9 | 2.31 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 14 | 2.31 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 5 | 2.31 |
| (1,4758) | 1:57:A:CYS:HA | 1:162:A:THR:H | 16 | 2.31 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 15 | 2.31 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 19 | 2.31 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 7 | 2.31 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 7 | 2.31 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 7 | 2.31 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 7 | 2.31 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 16 | 2.31 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 16 | 2.31 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 16 | 2.31 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 6 | 2.31 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 6 | 2.31 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 8 | 2.31 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 5 | 2.31 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 8 | 2.31 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 8 | 2.31 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 12 | 2.31 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 12 | 2.31 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 11 | 2.31 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 11 | 2.31 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 19 | 2.31 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 19 | 2.31 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 19 | 2.31 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 19 | 2.31 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 19 | 2.31 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 19 | 2.31 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 1 | 2.31 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 1 | 2.31 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 17 | 2.31 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 17 | 2.31 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 2.31 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 18 | 2.31 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 7 | 2.31 |
| (1,4416) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 7 | 2.31 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 20 | 2.31 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 20 | 2.31 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 17 | 2.31 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 17 | 2.31 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 17 | 2.31 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 17 | 2.31 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 2.31 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 2.31 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 2.31 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 12 | 2.31 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 12 | 2.31 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 12 | 2.31 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 5 | 2.31 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 5 | 2.31 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 5 | 2.31 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 1 | 2.31 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 1 | 2.31 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 6 | 2.31 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 20 | 2.31 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 20 | 2.31 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 18 | 2.31 |
| (1,3942) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 18 | 2.31 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 8 | 2.31 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 8 | 2.31 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 8 | 2.31 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 8 | 2.31 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 12 | 2.31 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 12 | 2.31 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 17 | 2.31 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 17 | 2.31 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 2 | 2.31 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 2 | 2.31 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 6 | 2.31 |
| (1,3842) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 6 | 2.31 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 2.31 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 2.31 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 2.31 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 2.31 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 2.31 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 20 | 2.31 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 20 | 2.31 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 20 | 2.31 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 20 | 2.31 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 7 | 2.31 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 7 | 2.31 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 14 | 2.31 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 14 | 2.31 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 20 | 2.31 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 2 | 2.31 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 2 | 2.31 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 4 | 2.31 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 15 | 2.31 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 15 | 2.31 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 6 | 2.31 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 5 | 2.31 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 20 | 2.31 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 4 | 2.31 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 6 | 2.31 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 6 | 2.31 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 19 | 2.31 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 3 | 2.31 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 2 | 2.31 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 2 | 2.31 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 2 | 2.31 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 20 | 2.31 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 20 | 2.31 |
| (1,3278) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 18 | 2.31 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 3 | 2.31 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 17 | 2.31 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 12 | 2.31 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 2 | 2.31 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 1 | 2.31 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 15 | 2.31 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 15 | 2.31 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 15 | 2.31 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 2 | 2.31 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 2 | 2.31 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 5 | 2.31 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 5 | 2.31 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 16 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 5 | 2.31 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 5 | 2.31 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 19 | 2.31 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 5 | 2.31 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 5 | 2.31 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 5 | 2.31 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 5 | 2.31 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 13 | 2.31 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 13 | 2.31 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 13 | 2.31 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 2 | 2.31 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 17 | 2.31 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 20 | 2.31 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 12 | 2.31 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 15 | 2.31 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 3 | 2.31 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 3 | 2.31 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 2 | 2.31 |
| (1,2634) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 6 | 2.31 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 4 | 2.31 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 5 | 2.31 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 5 | 2.31 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 9 | 2.31 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 9 | 2.31 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 11 | 2.31 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 11 | 2.31 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 4 | 2.31 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 4 | 2.31 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 11 | 2.31 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 11 | 2.31 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 18 | 2.31 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 18 | 2.31 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 3 | 2.31 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 3 | 2.31 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 3 | 2.31 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 3 | 2.31 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 10 | 2.31 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 10 | 2.31 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 5 | 2.31 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 5 | 2.31 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 14 | 2.31 |
| (1,2502) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 14 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 10 | 2.31 |
| (1,2414) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 8 | 2.31 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 8 | 2.31 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 2 | 2.31 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 2 | 2.31 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 2 | 2.31 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 11 | 2.31 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 15 | 2.31 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 10 | 2.31 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 1 | 2.31 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 6 | 2.31 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 9 | 2.31 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 9 | 2.31 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 9 | 2.31 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 9 | 2.31 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 9 | 2.31 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 9 | 2.31 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 9 | 2.31 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 9 | 2.31 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 9 | 2.31 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 19 | 2.31 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 19 | 2.31 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 19 | 2.31 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 14 | 2.31 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 5 | 2.31 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 5 | 2.31 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 5 | 2.31 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 10 | 2.31 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 11 | 2.31 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 9 | 2.31 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 9 | 2.31 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 9 | 2.31 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 9 | 2.31 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 9 | 2.31 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 9 | 2.31 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 3 | 2.31 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 20 | 2.31 |
| (1,1992) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 15 | 2.31 |
| (1,1992) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 15 | 2.31 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 9 | 2.31 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 9 | 2.31 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 2.31 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 2.31 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 12 | 2.31 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 9 | 2.31 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 9 | 2.31 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 9 | 2.31 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 16 | 2.31 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 16 | 2.31 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 16 | 2.31 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 12 | 2.31 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 6 | 2.31 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 12 | 2.31 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 9 | 2.31 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 11 | 2.31 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 9 | 2.31 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 9 | 2.31 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 9 | 2.31 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 1 | 2.31 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 1 | 2.31 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 1 | 2.31 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 11 | 2.31 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 11 | 2.31 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 11 | 2.31 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 15 | 2.31 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 15 | 2.31 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 15 | 2.31 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 20 | 2.31 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 20 | 2.31 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 20 | 2.31 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 6 | 2.31 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 6 | 2.31 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 6 | 2.31 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 19 | 2.31 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 9 | 2.31 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 11 | 2.31 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 13 | 2.31 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 18 | 2.31 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 11 | 2.31 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 6 | 2.31 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 6 | 2.31 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 17 | 2.31 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 17 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 12 | 2.31 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 13 | 2.31 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 2 | 2.31 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 15 | 2.31 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 9 | 2.31 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 4 | 2.31 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 4 | 2.31 |
| (1,1302) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 18 | 2.31 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 14 | 2.31 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 14 | 2.31 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 14 | 2.31 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 2 | 2.31 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 7 | 2.31 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 15 | 2.31 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 15 | 2.31 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 5 | 2.31 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 5 | 2.31 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 5 | 2.31 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 5 | 2.31 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 5 | 2.31 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 5 | 2.31 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 7 | 2.31 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 7 | 2.31 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 7 | 2.31 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 13 | 2.31 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 13 | 2.31 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 13 | 2.31 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 18 | 2.31 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 15 | 2.31 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 15 | 2.31 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 15 | 2.31 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 7 | 2.31 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 7 | 2.31 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 7 | 2.31 |
| (1,996) | 1:107:A:ALA:H | 1:108:A:SER:H | 13 | 2.31 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 11 | 2.31 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 13 | 2.31 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 16 | 2.31 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 18 | 2.31 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 1 | 2.31 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 14 | 2.31 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 8 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 14 | 2.31 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 1 | 2.31 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 11 | 2.31 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 1 | 2.31 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 1 | 2.31 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 1 | 2.31 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 1 | 2.31 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 17 | 2.31 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 17 | 2.31 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 17 | 2.31 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 13 | 2.31 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 7 | 2.31 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 18 | 2.31 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 13 | 2.31 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 9 | 2.31 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 5 | 2.31 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 3 | 2.31 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 3 | 2.31 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 3 | 2.31 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 3 | 2.31 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 3 | 2.31 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 17 | 2.31 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 17 | 2.31 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 14 | 2.31 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 2 | 2.31 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 2 | 2.31 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 14 | 2.31 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 14 | 2.31 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 14 | 2.31 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 17 | 2.31 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 17 | 2.31 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 17 | 2.31 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 19 | 2.31 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 19 | 2.31 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 19 | 2.31 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 11 | 2.31 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 14 | 2.31 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 14 | 2.31 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 14 | 2.31 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 2 | 2.3 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 2 | 2.3 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 2 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 2 | 2.3 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 13 | 2.3 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 13 | 2.3 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 13 | 2.3 |
| (3,206) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 14 | 2.3 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 1 | 2.3 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 1 | 2.3 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 1 | 2.3 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 1 | 2.3 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 20 | 2.3 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 20 | 2.3 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 20 | 2.3 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 20 | 2.3 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 20 | 2.3 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 20 | 2.3 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 9 | 2.3 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 9 | 2.3 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 10 | 2.3 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 10 | 2.3 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 15 | 2.3 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 15 | 2.3 |
| (1,9337) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 3 | 2.3 |
| (1,9337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 3 | 2.3 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 4 | 2.3 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 4 | 2.3 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 2 | 2.3 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 2 | 2.3 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 12 | 2.3 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 12 | 2.3 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 12 | 2.3 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 12 | 2.3 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 13 | 2.3 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 13 | 2.3 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 18 | 2.3 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 18 | 2.3 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 13 | 2.3 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 13 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 2 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 2 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 2 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 2 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 2 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 2 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 10 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 10 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 10 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 10 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 10 | 2.3 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 10 | 2.3 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 10 | 2.3 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 10 | 2.3 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 15 | 2.3 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 15 | 2.3 |
| (1,9027) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 18 | 2.3 |
| (1,9027) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 18 | 2.3 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 6 | 2.3 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 6 | 2.3 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 6 | 2.3 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 6 | 2.3 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 17 | 2.3 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 17 | 2.3 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 17 | 2.3 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 17 | 2.3 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 5 | 2.3 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 5 | 2.3 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 13 | 2.3 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 13 | 2.3 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 1 | 2.3 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 1 | 2.3 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 1 | 2.3 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 3 | 2.3 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 6 | 2.3 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 6 | 2.3 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 6 | 2.3 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 14 | 2.3 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 14 | 2.3 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 19 | 2.3 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 19 | 2.3 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 7 | 2.3 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 12 | 2.3 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 12 | 2.3 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 16 | 2.3 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 16 | 2.3 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 4 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 14 | 2.3 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 18 | 2.3 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 2 | 2.3 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 2 | 2.3 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 1 | 2.3 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 7 | 2.3 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 7 | 2.3 |
| (1,7114) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 17 | 2.3 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 17 | 2.3 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 17 | 2.3 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 12 | 2.3 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 13 | 2.3 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 17 | 2.3 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 17 | 2.3 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 18 | 2.3 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 18 | 2.3 |
| (1,7001) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 12 | 2.3 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 2 | 2.3 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 2 | 2.3 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 2 | 2.3 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 8 | 2.3 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 11 | 2.3 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 14 | 2.3 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 1 | 2.3 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 12 | 2.3 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 7 | 2.3 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 7 | 2.3 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 7 | 2.3 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 7 | 2.3 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 8 | 2.3 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 20 | 2.3 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 1 | 2.3 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 11 | 2.3 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 11 | 2.3 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 11 | 2.3 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 11 | 2.3 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 3 | 2.3 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 10 | 2.3 |
| (1,6508) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 7 | 2.3 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 15 | 2.3 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 3 | 2.3 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 3 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 3 | 2.3 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 13 | 2.3 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 5 | 2.3 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 5 | 2.3 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 5 | 2.3 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 6 | 2.3 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 12 | 2.3 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 7 | 2.3 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 18 | 2.3 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 18 | 2.3 |
| (1,6361) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 18 | 2.3 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 11 | 2.3 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 13 | 2.3 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 13 | 2.3 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 13 | 2.3 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 18 | 2.3 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 18 | 2.3 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 18 | 2.3 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 20 | 2.3 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 20 | 2.3 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 20 | 2.3 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 19 | 2.3 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 19 | 2.3 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 18 | 2.3 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 18 | 2.3 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 2 | 2.3 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 5 | 2.3 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 16 | 2.3 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 10 | 2.3 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 10 | 2.3 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 10 | 2.3 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 10 | 2.3 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 10 | 2.3 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 10 | 2.3 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 10 | 2.3 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 10 | 2.3 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 10 | 2.3 |
| (1,6096) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 7 | 2.3 |
| (1,6096) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 7 | 2.3 |
| (1,6096) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 7 | 2.3 |
| (1,6031) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 7 | 2.3 |
| (1,6031) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 7 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 15 | 2.3 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 19 | 2.3 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 19 | 2.3 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 9 | 2.3 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 9 | 2.3 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 9 | 2.3 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 14 | 2.3 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 14 | 2.3 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 14 | 2.3 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 14 | 2.3 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 10 | 2.3 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 10 | 2.3 |
| (1,5472) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 10 | 2.3 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 10 | 2.3 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 10 | 2.3 |
| (1,5472) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 10 | 2.3 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 10 | 2.3 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 10 | 2.3 |
| (1,5472) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 10 | 2.3 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 14 | 2.3 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 14 | 2.3 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 14 | 2.3 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 14 | 2.3 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 14 | 2.3 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 14 | 2.3 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 14 | 2.3 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 14 | 2.3 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 14 | 2.3 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 18 | 2.3 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 18 | 2.3 |
| (1,5338) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 18 | 2.3 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 9 | 2.3 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 9 | 2.3 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 9 | 2.3 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 15 | 2.3 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 15 | 2.3 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 15 | 2.3 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 20 | 2.3 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 20 | 2.3 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 20 | 2.3 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 4 | 2.3 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 4 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 4 | 2.3 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 17 | 2.3 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 17 | 2.3 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 17 | 2.3 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 14 | 2.3 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 14 | 2.3 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 14 | 2.3 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 20 | 2.3 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 2 | 2.3 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 2 | 2.3 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 14 | 2.3 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 7 | 2.3 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 7 | 2.3 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 7 | 2.3 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 20 | 2.3 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 8 | 2.3 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 8 | 2.3 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 8 | 2.3 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 12 | 2.3 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 20 | 2.3 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 8 | 2.3 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 5 | 2.3 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 20 | 2.3 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 4 | 2.3 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 4 | 2.3 |
| (1,4800) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 4 | 2.3 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 8 | 2.3 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 20 | 2.3 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 20 | 2.3 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 20 | 2.3 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 5 | 2.3 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 10 | 2.3 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 18 | 2.3 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 19 | 2.3 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 3 | 2.3 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 3 | 2.3 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 3 | 2.3 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 20 | 2.3 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 1 | 2.3 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 1 | 2.3 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 7 | 2.3 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 7 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 7 | 2.3 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 9 | 2.3 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 9 | 2.3 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 15 | 2.3 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 15 | 2.3 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 15 | 2.3 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 10 | 2.3 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 10 | 2.3 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 10 | 2.3 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 10 | 2.3 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 10 | 2.3 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 10 | 2.3 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 9 | 2.3 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 20 | 2.3 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 20 | 2.3 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 20 | 2.3 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 20 | 2.3 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 20 | 2.3 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 20 | 2.3 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 20 | 2.3 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 20 | 2.3 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 20 | 2.3 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 20 | 2.3 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 1 | 2.3 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 1 | 2.3 |
| (1,4453) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 1 | 2.3 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 1 | 2.3 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 1 | 2.3 |
| (1,4453) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 1 | 2.3 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 9 | 2.3 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 9 | 2.3 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 6 | 2.3 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 6 | 2.3 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 6 | 2.3 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 11 | 2.3 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 13 | 2.3 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 13 | 2.3 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 13 | 2.3 |
| (1,4326) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 3 | 2.3 |
| (1,4326) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 3 | 2.3 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 15 | 2.3 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 15 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 2 | 2.3 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 17 | 2.3 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 4 | 2.3 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 4 | 2.3 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 9 | 2.3 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 9 | 2.3 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 9 | 2.3 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 9 | 2.3 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 12 | 2.3 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 12 | 2.3 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 12 | 2.3 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 12 | 2.3 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 12 | 2.3 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 12 | 2.3 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 17 | 2.3 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 11 | 2.3 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 11 | 2.3 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 11 | 2.3 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 18 | 2.3 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 18 | 2.3 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 18 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 2 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 2 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 2 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 2 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 2 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 2 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 10 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 10 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 10 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 10 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 10 | 2.3 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 10 | 2.3 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 10 | 2.3 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 10 | 2.3 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 16 | 2.3 |
| (1,4000) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 18 | 2.3 |
| (1,4000) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 18 | 2.3 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 6 | 2.3 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 6 | 2.3 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 6 | 2.3 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 6 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 13 | 2.3 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 13 | 2.3 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 18 | 2.3 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 18 | 2.3 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 2 | 2.3 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 2 | 2.3 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 9 | 2.3 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 9 | 2.3 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 9 | 2.3 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 13 | 2.3 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 13 | 2.3 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 12 | 2.3 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 7 | 2.3 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 7 | 2.3 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 4 | 2.3 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 4 | 2.3 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 5 | 2.3 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 5 | 2.3 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 5 | 2.3 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 5 | 2.3 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 5 | 2.3 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 5 | 2.3 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 5 | 2.3 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 1 | 2.3 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 1 | 2.3 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 11 | 2.3 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 11 | 2.3 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 18 | 2.3 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 18 | 2.3 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 18 | 2.3 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 8 | 2.3 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 1 | 2.3 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 16 | 2.3 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 7 | 2.3 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 7 | 2.3 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 3 | 2.3 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 1 | 2.3 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 1 | 2.3 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 1 | 2.3 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 19 | 2.3 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 19 | 2.3 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 19 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 19 | 2.3 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 19 | 2.3 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 19 | 2.3 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 19 | 2.3 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 19 | 2.3 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 19 | 2.3 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 8 | 2.3 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 13 | 2.3 |
| (1,3276) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 18 | 2.3 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 20 | 2.3 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 3 | 2.3 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 3 | 2.3 |
| (1,3200) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 17 | 2.3 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 17 | 2.3 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 17 | 2.3 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 15 | 2.3 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 15 | 2.3 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 15 | 2.3 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 3 | 2.3 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 5 | 2.3 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 6 | 2.3 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 12 | 2.3 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 13 | 2.3 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 12 | 2.3 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 12 | 2.3 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 12 | 2.3 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 17 | 2.3 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 17 | 2.3 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 18 | 2.3 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 18 | 2.3 |
| (1,3044) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 12 | 2.3 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 9 | 2.3 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 2 | 2.3 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 2 | 2.3 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 2 | 2.3 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 8 | 2.3 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 11 | 2.3 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 14 | 2.3 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 20 | 2.3 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 20 | 2.3 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 20 | 2.3 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 1 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 5 | 2.3 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 12 | 2.3 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 16 | 2.3 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 16 | 2.3 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 16 | 2.3 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 16 | 2.3 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 4 | 2.3 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 4 | 2.3 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 8 | 2.3 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 20 | 2.3 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 3 | 2.3 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 5 | 2.3 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 8 | 2.3 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 9 | 2.3 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 10 | 2.3 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 12 | 2.3 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 14 | 2.3 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 15 | 2.3 |
| (1,2632) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 16 | 2.3 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 15 | 2.3 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 15 | 2.3 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 1 | 2.3 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 6 | 2.3 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 6 | 2.3 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 15 | 2.3 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 15 | 2.3 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 20 | 2.3 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 20 | 2.3 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 1 | 2.3 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 1 | 2.3 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 11 | 2.3 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 11 | 2.3 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 11 | 2.3 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 11 | 2.3 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 16 | 2.3 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 16 | 2.3 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 16 | 2.3 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 3 | 2.3 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 11 | 2.3 |
| (1,2347) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 7 | 2.3 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 15 | 2.3 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 20 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 9 | 2.3 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 14 | 2.3 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 3 | 2.3 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 3 | 2.3 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 3 | 2.3 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 13 | 2.3 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 5 | 2.3 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 5 | 2.3 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 5 | 2.3 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 6 | 2.3 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 12 | 2.3 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 7 | 2.3 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 18 | 2.3 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 18 | 2.3 |
| (1,2044) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 18 | 2.3 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 15 | 2.3 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 15 | 2.3 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 15 | 2.3 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 17 | 2.3 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 17 | 2.3 |
| (1,2040) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 17 | 2.3 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 9 | 2.3 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 9 | 2.3 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 9 | 2.3 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 2 | 2.3 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 2 | 2.3 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 2 | 2.3 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 18 | 2.3 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 18 | 2.3 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 5 | 2.3 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 5 | 2.3 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 5 | 2.3 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 18 | 2.3 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 18 | 2.3 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 18 | 2.3 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 1 | 2.3 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 4 | 2.3 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 6 | 2.3 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 7 | 2.3 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 10 | 2.3 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 11 | 2.3 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 18 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 19 | 2.3 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 4 | 2.3 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 2 | 2.3 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 2 | 2.3 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 4 | 2.3 |
| (1,1818) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 18 | 2.3 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 2 | 2.3 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 16 | 2.3 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 8 | 2.3 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 8 | 2.3 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 8 | 2.3 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 10 | 2.3 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 10 | 2.3 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 10 | 2.3 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 10 | 2.3 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 10 | 2.3 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 10 | 2.3 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 10 | 2.3 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 10 | 2.3 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 10 | 2.3 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 3 | 2.3 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 3 | 2.3 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 3 | 2.3 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 3 | 2.3 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 3 | 2.3 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 3 | 2.3 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 3 | 2.3 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 3 | 2.3 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 3 | 2.3 |
| (1,1668) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 7 | 2.3 |
| (1,1668) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 7 | 2.3 |
| (1,1668) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 7 | 2.3 |
| (1,1578) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 7 | 2.3 |
| (1,1578) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 7 | 2.3 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 3 | 2.3 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 3 | 2.3 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 10 | 2.3 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 10 | 2.3 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 14 | 2.3 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 14 | 2.3 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 2 | 2.3 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 5 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 8 | 2.3 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 15 | 2.3 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 15 | 2.3 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 18 | 2.3 |
| (1,1496) | 1:131:A:GLN:H | 1:131:A:GLN:HA | 19 | 2.3 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 18 | 2.3 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 18 | 2.3 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 18 | 2.3 |
| (1,1432) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 10 | 2.3 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 6 | 2.3 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 4 | 2.3 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 8 | 2.3 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 20 | 2.3 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 20 | 2.3 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 4 | 2.3 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 4 | 2.3 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 4 | 2.3 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 9 | 2.3 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 9 | 2.3 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 9 | 2.3 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 3 | 2.3 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 3 | 2.3 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 13 | 2.3 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 13 | 2.3 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 13 | 2.3 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 12 | 2.3 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 20 | 2.3 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 1 | 2.3 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 1 | 2.3 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 1 | 2.3 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 12 | 2.3 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 14 | 2.3 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 14 | 2.3 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 14 | 2.3 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 7 | 2.3 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 11 | 2.3 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 13 | 2.3 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 18 | 2.3 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 20 | 2.3 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 7 | 2.3 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 5 | 2.3 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 5 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 12 | 2.3 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 12 | 2.3 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 3 | 2.3 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 6 | 2.3 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 8 | 2.3 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 9 | 2.3 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 13 | 2.3 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 15 | 2.3 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 17 | 2.3 |
| (1,756) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 19 | 2.3 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 6 | 2.3 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 6 | 2.3 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 6 | 2.3 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 6 | 2.3 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 6 | 2.3 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 6 | 2.3 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 18 | 2.3 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 14 | 2.3 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 15 | 2.3 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 11 | 2.3 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 10 | 2.3 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 10 | 2.3 |
| (1,576) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 10 | 2.3 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 10 | 2.3 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 10 | 2.3 |
| (1,576) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 10 | 2.3 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 10 | 2.3 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 10 | 2.3 |
| (1,576) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 10 | 2.3 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 2 | 2.3 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 2 | 2.3 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 2 | 2.3 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 2 | 2.3 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 12 | 2.3 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 12 | 2.3 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 12 | 2.3 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 15 | 2.3 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 15 | 2.3 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 15 | 2.3 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 4 | 2.3 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 4 | 2.3 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 4 | 2.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 15 | 2.3 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 15 | 2.3 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 15 | 2.3 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 19 | 2.3 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 13 | 2.3 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 7 | 2.3 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 7 | 2.3 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 7 | 2.3 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 16 | 2.3 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 12 | 2.3 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 12 | 2.3 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 12 | 2.3 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 20 | 2.3 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 7 | 2.3 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 7 | 2.3 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 7 | 2.3 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 18 | 2.3 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 17 | 2.3 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 17 | 2.3 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 17 | 2.3 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 1 | 2.3 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 1 | 2.3 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 1 | 2.3 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 6 | 2.3 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 6 | 2.3 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 5 | 2.3 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 5 | 2.3 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 12 | 2.29 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 12 | 2.29 |
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 12 | 2.29 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 12 | 2.29 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 16 | 2.29 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 16 | 2.29 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 3 | 2.29 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 3 | 2.29 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 18 | 2.29 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 18 | 2.29 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 11 | 2.29 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 11 | 2.29 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 4 | 2.29 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 4 | 2.29 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 4 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 4 | 2.29 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 4 | 2.29 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 4 | 2.29 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 1 | 2.29 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 1 | 2.29 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 10 | 2.29 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 10 | 2.29 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 2 | 2.29 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 2 | 2.29 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 2 | 2.29 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 2 | 2.29 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 18 | 2.29 |
| (1,9403) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 18 | 2.29 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 18 | 2.29 |
| (1,9403) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 18 | 2.29 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 7 | 2.29 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 7 | 2.29 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 6 | 2.29 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 6 | 2.29 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 19 | 2.29 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 19 | 2.29 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 20 | 2.29 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 20 | 2.29 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 20 | 2.29 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 20 | 2.29 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 11 | 2.29 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 11 | 2.29 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 18 | 2.29 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 18 | 2.29 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 18 | 2.29 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 18 | 2.29 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 11 | 2.29 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 11 | 2.29 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 2 | 2.29 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 2 | 2.29 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 4 | 2.29 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 4 | 2.29 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 13 | 2.29 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 13 | 2.29 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 12 | 2.29 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 12 | 2.29 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 12 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 12 | 2.29 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 12 | 2.29 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 12 | 2.29 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 1 | 2.29 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 1 | 2.29 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 16 | 2.29 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 16 | 2.29 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 12 | 2.29 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 12 | 2.29 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 18 | 2.29 |
| (1,9024) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 18 | 2.29 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 5 | 2.29 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 5 | 2.29 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 7 | 2.29 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 7 | 2.29 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 19 | 2.29 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 19 | 2.29 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 10 | 2.29 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 10 | 2.29 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 20 | 2.29 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 20 | 2.29 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 11 | 2.29 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 11 | 2.29 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 11 | 2.29 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 11 | 2.29 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 11 | 2.29 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 11 | 2.29 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 12 | 2.29 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 12 | 2.29 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 10 | 2.29 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 10 | 2.29 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 15 | 2.29 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 15 | 2.29 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 15 | 2.29 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 15 | 2.29 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 7 | 2.29 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 7 | 2.29 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 6 | 2.29 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 6 | 2.29 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 11 | 2.29 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 11 | 2.29 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 11 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 9 | 2.29 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 17 | 2.29 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 14 | 2.29 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 5 | 2.29 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 5 | 2.29 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 15 | 2.29 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 15 | 2.29 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 15 | 2.29 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 15 | 2.29 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 9 | 2.29 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 12 | 2.29 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 20 | 2.29 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 1 | 2.29 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 1 | 2.29 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 9 | 2.29 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 9 | 2.29 |
| (1,7583) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 8 | 2.29 |
| (1,7522) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 17 | 2.29 |
| (1,7417) | 1:7:A:LEU:HD11 | 1:11:A:TRP:H | 14 | 2.29 |
| (1,7417) | 1:7:A:LEU:HD12 | 1:11:A:TRP:H | 14 | 2.29 |
| (1,7417) | 1:7:A:LEU:HD13 | 1:11:A:TRP:H | 14 | 2.29 |
| (1,7275) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 15 | 2.29 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 8 | 2.29 |
| (1,7131) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 7 | 2.29 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 11 | 2.29 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 19 | 2.29 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 19 | 2.29 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 16 | 2.29 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 2 | 2.29 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 2 | 2.29 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 17 | 2.29 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 12 | 2.29 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 7 | 2.29 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 12 | 2.29 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 12 | 2.29 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 11 | 2.29 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 3 | 2.29 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 18 | 2.29 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 20 | 2.29 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 11 | 2.29 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 11 | 2.29 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 11 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 2 | 2.29 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 15 | 2.29 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 17 | 2.29 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 17 | 2.29 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 17 | 2.29 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 1 | 2.29 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 9 | 2.29 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 18 | 2.29 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 11 | 2.29 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 17 | 2.29 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 18 | 2.29 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 18 | 2.29 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 18 | 2.29 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 18 | 2.29 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 10 | 2.29 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 10 | 2.29 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 19 | 2.29 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 10 | 2.29 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 10 | 2.29 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 10 | 2.29 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 11 | 2.29 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 20 | 2.29 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 4 | 2.29 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 4 | 2.29 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 4 | 2.29 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 5 | 2.29 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 5 | 2.29 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 5 | 2.29 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 10 | 2.29 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 10 | 2.29 |
| (1,6441) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 10 | 2.29 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 10 | 2.29 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 10 | 2.29 |
| (1,6441) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 10 | 2.29 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 10 | 2.29 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 10 | 2.29 |
| (1,6441) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 10 | 2.29 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 3 | 2.29 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 3 | 2.29 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 3 | 2.29 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 7 | 2.29 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 14 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 14 | 2.29 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 14 | 2.29 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 8 | 2.29 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 9 | 2.29 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 4 | 2.29 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 4 | 2.29 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 13 | 2.29 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 13 | 2.29 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 13 | 2.29 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 13 | 2.29 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 13 | 2.29 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 13 | 2.29 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 13 | 2.29 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 13 | 2.29 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 13 | 2.29 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 15 | 2.29 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 15 | 2.29 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 18 | 2.29 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 18 | 2.29 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 14 | 2.29 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 5 | 2.29 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 5 | 2.29 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 5 | 2.29 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 5 | 2.29 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 5 | 2.29 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 5 | 2.29 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 5 | 2.29 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 5 | 2.29 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 5 | 2.29 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 7 | 2.29 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 7 | 2.29 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 20 | 2.29 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 19 | 2.29 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 19 | 2.29 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 19 | 2.29 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 19 | 2.29 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 19 | 2.29 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 15 | 2.29 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 15 | 2.29 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 1 | 2.29 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 1 | 2.29 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 1 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 14 | 2.29 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 14 | 2.29 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 14 | 2.29 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 13 | 2.29 |
| (1,5780) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 13 | 2.29 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 1 | 2.29 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 2 | 2.29 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 20 | 2.29 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 20 | 2.29 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 20 | 2.29 |
| (1,5697) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 7 | 2.29 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 4 | 2.29 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 4 | 2.29 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 4 | 2.29 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 4 | 2.29 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 4 | 2.29 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 4 | 2.29 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 16 | 2.29 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 16 | 2.29 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 19 | 2.29 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 1 | 2.29 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 6 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 10 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 10 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 10 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 10 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 10 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 10 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 10 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 10 | 2.29 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 10 | 2.29 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 6 | 2.29 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 6 | 2.29 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 6 | 2.29 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 6 | 2.29 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 6 | 2.29 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 6 | 2.29 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 6 | 2.29 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 6 | 2.29 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 6 | 2.29 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 5 | 2.29 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 12 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 12 | 2.29 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 12 | 2.29 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 13 | 2.29 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 13 | 2.29 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 13 | 2.29 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 13 | 2.29 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 13 | 2.29 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 13 | 2.29 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 13 | 2.29 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 13 | 2.29 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 13 | 2.29 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 13 | 2.29 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 13 | 2.29 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 13 | 2.29 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 19 | 2.29 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 19 | 2.29 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 19 | 2.29 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 14 | 2.29 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 13 | 2.29 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 13 | 2.29 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 13 | 2.29 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 17 | 2.29 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 17 | 2.29 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 17 | 2.29 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 6 | 2.29 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 6 | 2.29 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 6 | 2.29 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 6 | 2.29 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 17 | 2.29 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 12 | 2.29 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 18 | 2.29 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 18 | 2.29 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 18 | 2.29 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 2 | 2.29 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 7 | 2.29 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 18 | 2.29 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 20 | 2.29 |
| (1,4924) | 1:65:A:SER:H | 1:65:A:SER:HA | 16 | 2.29 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 20 | 2.29 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 15 | 2.29 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 9 | 2.29 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 9 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 9 | 2.29 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 9 | 2.29 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 18 | 2.29 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 18 | 2.29 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 18 | 2.29 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 4 | 2.29 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 4 | 2.29 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 4 | 2.29 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 4 | 2.29 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 16 | 2.29 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 16 | 2.29 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 16 | 2.29 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 16 | 2.29 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 17 | 2.29 |
| (1,4629) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 17 | 2.29 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 16 | 2.29 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 4 | 2.29 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 4 | 2.29 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 16 | 2.29 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 16 | 2.29 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 3 | 2.29 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 3 | 2.29 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 18 | 2.29 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 18 | 2.29 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 7 | 2.29 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 7 | 2.29 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 11 | 2.29 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 11 | 2.29 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 10 | 2.29 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 10 | 2.29 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 20 | 2.29 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 20 | 2.29 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 6 | 2.29 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 6 | 2.29 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 18 | 2.29 |
| (1,4386) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 18 | 2.29 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 18 | 2.29 |
| (1,4386) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 18 | 2.29 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 11 | 2.29 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 11 | 2.29 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 7 | 2.29 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 7 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 11 | 2.29 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 11 | 2.29 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 16 | 2.29 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 16 | 2.29 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 16 | 2.29 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 16 | 2.29 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 15 | 2.29 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 15 | 2.29 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 10 | 2.29 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 10 | 2.29 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 12 | 2.29 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 12 | 2.29 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 12 | 2.29 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 12 | 2.29 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 12 | 2.29 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 12 | 2.29 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 1 | 2.29 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 1 | 2.29 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 12 | 2.29 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 12 | 2.29 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 7 | 2.29 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 12 | 2.29 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 16 | 2.29 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 16 | 2.29 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 20 | 2.29 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 20 | 2.29 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 10 | 2.29 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 10 | 2.29 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 12 | 2.29 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 12 | 2.29 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 2 | 2.29 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 2 | 2.29 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 2 | 2.29 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 2 | 2.29 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 2 | 2.29 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 2 | 2.29 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 9 | 2.29 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 9 | 2.29 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 9 | 2.29 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 9 | 2.29 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 9 | 2.29 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 9 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 8 | 2.29 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 1 | 2.29 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 4 | 2.29 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 4 | 2.29 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 15 | 2.29 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 15 | 2.29 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 6 | 2.29 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 6 | 2.29 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 20 | 2.29 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 20 | 2.29 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 12 | 2.29 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 12 | 2.29 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 12 | 2.29 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 12 | 2.29 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 1 | 2.29 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 2 | 2.29 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 2 | 2.29 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 2 | 2.29 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 8 | 2.29 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 20 | 2.29 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 11 | 2.29 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 11 | 2.29 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 11 | 2.29 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 14 | 2.29 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 14 | 2.29 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 14 | 2.29 |
| (1,3314) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 20 | 2.29 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 5 | 2.29 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 2 | 2.29 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 10 | 2.29 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 1 | 2.29 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 5 | 2.29 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 19 | 2.29 |
| (1,3228) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 7 | 2.29 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 11 | 2.29 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 11 | 2.29 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 11 | 2.29 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 14 | 2.29 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 14 | 2.29 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 14 | 2.29 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 10 | 2.29 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 10 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 19 | 2.29 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 19 | 2.29 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 16 | 2.29 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 13 | 2.29 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 17 | 2.29 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 11 | 2.29 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 16 | 2.29 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 12 | 2.29 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 12 | 2.29 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 2 | 2.29 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 12 | 2.29 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 11 | 2.29 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 11 | 2.29 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 3 | 2.29 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 18 | 2.29 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 20 | 2.29 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 8 | 2.29 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 11 | 2.29 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 11 | 2.29 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 11 | 2.29 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 11 | 2.29 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 2 | 2.29 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 15 | 2.29 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 17 | 2.29 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 17 | 2.29 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 17 | 2.29 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 1 | 2.29 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 10 | 2.29 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 10 | 2.29 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 10 | 2.29 |
| (1,2842) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 7 | 2.29 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 18 | 2.29 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 18 | 2.29 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 18 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 1 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 1 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 1 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 1 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 1 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 1 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 10 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 10 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 10 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 10 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 10 | 2.29 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 10 | 2.29 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 14 | 2.29 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 14 | 2.29 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 5 | 2.29 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 5 | 2.29 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 5 | 2.29 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 5 | 2.29 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 5 | 2.29 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 5 | 2.29 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 20 | 2.29 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 20 | 2.29 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 17 | 2.29 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 17 | 2.29 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 17 | 2.29 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 18 | 2.29 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 2.29 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 18 | 2.29 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 11 | 2.29 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 17 | 2.29 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 13 | 2.29 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 13 | 2.29 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 3 | 2.29 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 3 | 2.29 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 16 | 2.29 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 16 | 2.29 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 18 | 2.29 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 18 | 2.29 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 18 | 2.29 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 18 | 2.29 |
| (1,2518) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 13 | 2.29 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 10 | 2.29 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 10 | 2.29 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 19 | 2.29 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 6 | 2.29 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 10 | 2.29 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 10 | 2.29 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 10 | 2.29 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 11 | 2.29 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 20 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 1 | 2.29 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 8 | 2.29 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 12 | 2.29 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 1 | 2.29 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 2 | 2.29 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 8 | 2.29 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 9 | 2.29 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 15 | 2.29 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 20 | 2.29 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 17 | 2.29 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 17 | 2.29 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 17 | 2.29 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 4 | 2.29 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 4 | 2.29 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 4 | 2.29 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 5 | 2.29 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 5 | 2.29 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 5 | 2.29 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 6 | 2.29 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 10 | 2.29 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 10 | 2.29 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 10 | 2.29 |
| (1,2172) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 10 | 2.29 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 10 | 2.29 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 10 | 2.29 |
| (1,2172) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 10 | 2.29 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 10 | 2.29 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 10 | 2.29 |
| (1,2172) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 10 | 2.29 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 11 | 2.29 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 11 | 2.29 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 11 | 2.29 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 10 | 2.29 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 10 | 2.29 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 10 | 2.29 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 3 | 2.29 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 3 | 2.29 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 3 | 2.29 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 7 | 2.29 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 14 | 2.29 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 14 | 2.29 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 14 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 8 | 2.29 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 9 | 2.29 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 13 | 2.29 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 13 | 2.29 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 13 | 2.29 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 13 | 2.29 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 13 | 2.29 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 13 | 2.29 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 8 | 2.29 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 8 | 2.29 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 8 | 2.29 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 2 | 2.29 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 4 | 2.29 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 5 | 2.29 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 8 | 2.29 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 9 | 2.29 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 12 | 2.29 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 20 | 2.29 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 13 | 2.29 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 13 | 2.29 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 13 | 2.29 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 13 | 2.29 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 13 | 2.29 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 13 | 2.29 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 13 | 2.29 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 13 | 2.29 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 13 | 2.29 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 2 | 2.29 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 2 | 2.29 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 2 | 2.29 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 4 | 2.29 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 4 | 2.29 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 4 | 2.29 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 2 | 2.29 |
| (1,1930) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 3 | 2.29 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 13 | 2.29 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 7 | 2.29 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 9 | 2.29 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 9 | 2.29 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 16 | 2.29 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 16 | 2.29 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 16 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 14 | 2.29 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 7 | 2.29 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 7 | 2.29 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 6 | 2.29 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 7 | 2.29 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 17 | 2.29 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 17 | 2.29 |
| (1,1554) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 4 | 2.29 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 20 | 2.29 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 15 | 2.29 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 7 | 2.29 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 7 | 2.29 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 2 | 2.29 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 2 | 2.29 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 2 | 2.29 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 12 | 2.29 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 18 | 2.29 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 19 | 2.29 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 17 | 2.29 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 17 | 2.29 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 12 | 2.29 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 13 | 2.29 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 16 | 2.29 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 20 | 2.29 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 16 | 2.29 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 16 | 2.29 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 16 | 2.29 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 17 | 2.29 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 19 | 2.29 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 2 | 2.29 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 17 | 2.29 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 19 | 2.29 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 15 | 2.29 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 15 | 2.29 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 1 | 2.29 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 1 | 2.29 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 1 | 2.29 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 14 | 2.29 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 14 | 2.29 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 14 | 2.29 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 14 | 2.29 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 14 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 14 | 2.29 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 14 | 2.29 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 14 | 2.29 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 14 | 2.29 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 13 | 2.29 |
| (1,1132) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 13 | 2.29 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 2 | 2.29 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 7 | 2.29 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 7 | 2.29 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 7 | 2.29 |
| (1,974) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 7 | 2.29 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 4 | 2.29 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 13 | 2.29 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 17 | 2.29 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 1 | 2.29 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 8 | 2.29 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 10 | 2.29 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 15 | 2.29 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 17 | 2.29 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 8 | 2.29 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 12 | 2.29 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 17 | 2.29 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 19 | 2.29 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 11 | 2.29 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 9 | 2.29 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 9 | 2.29 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 1 | 2.29 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 1 | 2.29 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 16 | 2.29 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 16 | 2.29 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 19 | 2.29 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 13 | 2.29 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 13 | 2.29 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 13 | 2.29 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 16 | 2.29 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 5 | 2.29 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 5 | 2.29 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 5 | 2.29 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 5 | 2.29 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 5 | 2.29 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 5 | 2.29 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 1 | 2.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,647) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 14 | 2.29 |
| (1,624) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 10 | 2.29 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 20 | 2.29 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 1 | 2.29 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 1 | 2.29 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 1 | 2.29 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 16 | 2.29 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 16 | 2.29 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 16 | 2.29 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 16 | 2.29 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 16 | 2.29 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 16 | 2.29 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 16 | 2.29 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 16 | 2.29 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 16 | 2.29 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 2 | 2.29 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 13 | 2.29 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 20 | 2.29 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 10 | 2.29 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 10 | 2.29 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 11 | 2.29 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 16 | 2.29 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 16 | 2.29 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 16 | 2.29 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 1 | 2.29 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 1 | 2.29 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 1 | 2.29 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 15 | 2.29 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 15 | 2.29 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 15 | 2.29 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 18 | 2.29 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 18 | 2.29 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 18 | 2.29 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 20 | 2.29 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 20 | 2.29 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 20 | 2.29 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 20 | 2.28 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 5 | 2.28 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 9 | 2.28 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 3 | 2.28 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 3 | 2.28 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 7 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 7 | 2.28 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 14 | 2.28 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 14 | 2.28 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 2 | 2.28 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 2 | 2.28 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 1 | 2.28 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 1 | 2.28 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 7 | 2.28 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 7 | 2.28 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 6 | 2.28 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 6 | 2.28 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 8 | 2.28 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 8 | 2.28 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 18 | 2.28 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 18 | 2.28 |
| (1,9294) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 19 | 2.28 |
| (1,9294) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 19 | 2.28 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 9 | 2.28 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 9 | 2.28 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 13 | 2.28 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 13 | 2.28 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 10 | 2.28 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 10 | 2.28 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 14 | 2.28 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 14 | 2.28 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 13 | 2.28 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 13 | 2.28 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 1 | 2.28 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 1 | 2.28 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 5 | 2.28 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 5 | 2.28 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 12 | 2.28 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 12 | 2.28 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 17 | 2.28 |
| (1,8925) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 17 | 2.28 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 13 | 2.28 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 13 | 2.28 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 14 | 2.28 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 14 | 2.28 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 14 | 2.28 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 14 | 2.28 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 14 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 14 | 2.28 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 11 | 2.28 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 11 | 2.28 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 11 | 2.28 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 11 | 2.28 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 11 | 2.28 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 11 | 2.28 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 2.28 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 2.28 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 2.28 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 2.28 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 2.28 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 2.28 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 4 | 2.28 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 4 | 2.28 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 5 | 2.28 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 5 | 2.28 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 15 | 2.28 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 15 | 2.28 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 17 | 2.28 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 17 | 2.28 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 17 | 2.28 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 17 | 2.28 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 9 | 2.28 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 9 | 2.28 |
| (1,8424) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 2 | 2.28 |
| (1,8424) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 2 | 2.28 |
| (1,8424) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 2 | 2.28 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 11 | 2.28 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 11 | 2.28 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 11 | 2.28 |
| (1,7961) | 1:77:A:LYS:H | 1:78:A:ILE:H | 17 | 2.28 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 16 | 2.28 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG21 | 8 | 2.28 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG22 | 8 | 2.28 |
| (1,7379) | 1:146:A:MET:HG3 | 1:158:A:ILE:HG23 | 8 | 2.28 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 9 | 2.28 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 13 | 2.28 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 5 | 2.28 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 13 | 2.28 |
| (1,7112) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 20 | 2.28 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 19 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 19 | 2.28 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 15 | 2.28 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 6 | 2.28 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 8 | 2.28 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 4 | 2.28 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 7 | 2.28 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 14 | 2.28 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 16 | 2.28 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 18 | 2.28 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 20 | 2.28 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 11 | 2.28 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 11 | 2.28 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 1 | 2.28 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 6 | 2.28 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 13 | 2.28 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 14 | 2.28 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 16 | 2.28 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 18 | 2.28 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 19 | 2.28 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 9 | 2.28 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 9 | 2.28 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 9 | 2.28 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 3 | 2.28 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 3 | 2.28 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 3 | 2.28 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 6 | 2.28 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 6 | 2.28 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 6 | 2.28 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 15 | 2.28 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 15 | 2.28 |
| (1,6902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 15 | 2.28 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 8 | 2.28 |
| (1,6816) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 7 | 2.28 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 9 | 2.28 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 13 | 2.28 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 3 | 2.28 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 8 | 2.28 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 1 | 2.28 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 4 | 2.28 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 5 | 2.28 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 19 | 2.28 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 11 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 11 | 2.28 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 11 | 2.28 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 1 | 2.28 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 14 | 2.28 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 18 | 2.28 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 2 | 2.28 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 2 | 2.28 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 2 | 2.28 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 1 | 2.28 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 10 | 2.28 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 20 | 2.28 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 9 | 2.28 |
| (1,6347) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 9 | 2.28 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 9 | 2.28 |
| (1,6347) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 9 | 2.28 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 9 | 2.28 |
| (1,6347) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 9 | 2.28 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 15 | 2.28 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 15 | 2.28 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 15 | 2.28 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 10 | 2.28 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 14 | 2.28 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 14 | 2.28 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 5 | 2.28 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 20 | 2.28 |
| (1,6152) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 15 | 2.28 |
| (1,6110) | 1:138:A:SER:H | 1:139:A:PHE:H | 16 | 2.28 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 16 | 2.28 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 16 | 2.28 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 16 | 2.28 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 6 | 2.28 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 6 | 2.28 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 6 | 2.28 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 18 | 2.28 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 18 | 2.28 |
| (1,6092) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 18 | 2.28 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 9 | 2.28 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 9 | 2.28 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 6 | 2.28 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 18 | 2.28 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 16 | 2.28 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 3 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 19 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 14 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 14 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 14 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 14 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 14 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 14 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 14 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 14 | 2.28 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 14 | 2.28 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 12 | 2.28 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 12 | 2.28 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 12 | 2.28 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 2 | 2.28 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 2 | 2.28 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 2 | 2.28 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 4 | 2.28 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 4 | 2.28 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 4 | 2.28 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 15 | 2.28 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 11 | 2.28 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 11 | 2.28 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 19 | 2.28 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 19 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 1 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 3 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 5 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 6 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 7 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 8 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 9 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 10 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 11 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 12 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 13 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 14 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 15 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 17 | 2.28 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 20 | 2.28 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 3 | 2.28 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 3 | 2.28 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 16 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 16 | 2.28 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 16 | 2.28 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 7 | 2.28 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 16 | 2.28 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 16 | 2.28 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 16 | 2.28 |
| (1,5589) | 1:98:A:SER:H | 1:100:A:GLU:H | 18 | 2.28 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 3 | 2.28 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 13 | 2.28 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 5 | 2.28 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 5 | 2.28 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 5 | 2.28 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 11 | 2.28 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 11 | 2.28 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 11 | 2.28 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 20 | 2.28 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 10 | 2.28 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 10 | 2.28 |
| (1,5448) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 10 | 2.28 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 9 | 2.28 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 13 | 2.28 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 13 | 2.28 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 13 | 2.28 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 17 | 2.28 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 3 | 2.28 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 11 | 2.28 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 11 | 2.28 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 11 | 2.28 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 11 | 2.28 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 11 | 2.28 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 11 | 2.28 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 11 | 2.28 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 11 | 2.28 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 11 | 2.28 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 11 | 2.28 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 4 | 2.28 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 4 | 2.28 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 4 | 2.28 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 15 | 2.28 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 15 | 2.28 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 15 | 2.28 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 20 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 20 | 2.28 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 20 | 2.28 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 11 | 2.28 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 11 | 2.28 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 11 | 2.28 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 2 | 2.28 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 9 | 2.28 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 9 | 2.28 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 9 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 6 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 6 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 6 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 6 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 6 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 6 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 6 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 6 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 6 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 15 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 15 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 15 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 15 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 15 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 15 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 15 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 15 | 2.28 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 15 | 2.28 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 8 | 2.28 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 8 | 2.28 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 8 | 2.28 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 8 | 2.28 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 8 | 2.28 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 8 | 2.28 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 8 | 2.28 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 8 | 2.28 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 8 | 2.28 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 2 | 2.28 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 2 | 2.28 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 2 | 2.28 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 18 | 2.28 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 18 | 2.28 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 18 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 12 | 2.28 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 12 | 2.28 |
| (1,5236) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 12 | 2.28 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 17 | 2.28 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 17 | 2.28 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 17 | 2.28 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 5 | 2.28 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 10 | 2.28 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 20 | 2.28 |
| (1,5177) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 17 | 2.28 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 4 | 2.28 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 12 | 2.28 |
| (1,5096) | 1:79:A:THR:H | 1:79:A:THR:HA | 13 | 2.28 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 7 | 2.28 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 7 | 2.28 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 7 | 2.28 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 5 | 2.28 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 6 | 2.28 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 19 | 2.28 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 19 | 2.28 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 19 | 2.28 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 19 | 2.28 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 19 | 2.28 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 19 | 2.28 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 19 | 2.28 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 19 | 2.28 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 19 | 2.28 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 19 | 2.28 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 19 | 2.28 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 19 | 2.28 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 19 | 2.28 |
| (1,4853) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 5 | 2.28 |
| (1,4853) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 5 | 2.28 |
| (1,4853) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 5 | 2.28 |
| (1,4840) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 4 | 2.28 |
| (1,4699) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 12 | 2.28 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 8 | 2.28 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 6 | 2.28 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 6 | 2.28 |
| (1,4693) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 6 | 2.28 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 15 | 2.28 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 9 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 9 | 2.28 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 9 | 2.28 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 9 | 2.28 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 15 | 2.28 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 14 | 2.28 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 14 | 2.28 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 4 | 2.28 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 4 | 2.28 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 3 | 2.28 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 3 | 2.28 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 2 | 2.28 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 2 | 2.28 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 10 | 2.28 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 10 | 2.28 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 10 | 2.28 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 10 | 2.28 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 13 | 2.28 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 13 | 2.28 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 6 | 2.28 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 6 | 2.28 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 14 | 2.28 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 14 | 2.28 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 8 | 2.28 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 8 | 2.28 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 18 | 2.28 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 18 | 2.28 |
| (1,4280) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 19 | 2.28 |
| (1,4280) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 19 | 2.28 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 7 | 2.28 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 7 | 2.28 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 7 | 2.28 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 7 | 2.28 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 7 | 2.28 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 7 | 2.28 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 9 | 2.28 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 9 | 2.28 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 7 | 2.28 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 7 | 2.28 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 7 | 2.28 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 12 | 2.28 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 12 | 2.28 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 12 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 12 | 2.28 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 10 | 2.28 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 12 | 2.28 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 1 | 2.28 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 1 | 2.28 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 1 | 2.28 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 1 | 2.28 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 1 | 2.28 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 1 | 2.28 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 4 | 2.28 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 4 | 2.28 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 4 | 2.28 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 12 | 2.28 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 12 | 2.28 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 12 | 2.28 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 13 | 2.28 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 13 | 2.28 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 20 | 2.28 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 20 | 2.28 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 8 | 2.28 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 8 | 2.28 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 8 | 2.28 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 8 | 2.28 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 8 | 2.28 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 8 | 2.28 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 5 | 2.28 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 16 | 2.28 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 16 | 2.28 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 10 | 2.28 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 10 | 2.28 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 10 | 2.28 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 10 | 2.28 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 10 | 2.28 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 10 | 2.28 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 5 | 2.28 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 5 | 2.28 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 12 | 2.28 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 12 | 2.28 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 17 | 2.28 |
| (1,3890) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 17 | 2.28 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 13 | 2.28 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 13 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 2.28 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 2.28 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 2.28 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 2.28 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 2.28 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 2.28 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 4 | 2.28 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 4 | 2.28 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 5 | 2.28 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 5 | 2.28 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 15 | 2.28 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 15 | 2.28 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 10 | 2.28 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 9 | 2.28 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 9 | 2.28 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 15 | 2.28 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 3 | 2.28 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 18 | 2.28 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 18 | 2.28 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 18 | 2.28 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 3 | 2.28 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 5 | 2.28 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 12 | 2.28 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 6 | 2.28 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 6 | 2.28 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 6 | 2.28 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 2 | 2.28 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 7 | 2.28 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 15 | 2.28 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 2 | 2.28 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 2 | 2.28 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 2 | 2.28 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 2 | 2.28 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 2 | 2.28 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 2 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 1 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 1 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 1 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 1 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 1 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 1 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 11 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 11 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 11 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 11 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 11 | 2.28 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 11 | 2.28 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 8 | 2.28 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 15 | 2.28 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 15 | 2.28 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 18 | 2.28 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 18 | 2.28 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 13 | 2.28 |
| (1,3198) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 20 | 2.28 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 18 | 2.28 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 18 | 2.28 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 18 | 2.28 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 4 | 2.28 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 16 | 2.28 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 19 | 2.28 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 19 | 2.28 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 19 | 2.28 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 2 | 2.28 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 5 | 2.28 |
| (1,3118) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 17 | 2.28 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 6 | 2.28 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 8 | 2.28 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 1 | 2.28 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 3 | 2.28 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 4 | 2.28 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 7 | 2.28 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 9 | 2.28 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 10 | 2.28 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 11 | 2.28 |
| (1,3082) | 1:38:A:SER:H | 1:38:A:SER:HA | 18 | 2.28 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 1 | 2.28 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 4 | 2.28 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 5 | 2.28 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 7 | 2.28 |
| (1,3038) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 10 | 2.28 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 1 | 2.28 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 3 | 2.28 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 4 | 2.28 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 6 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 11 | 2.28 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 13 | 2.28 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 15 | 2.28 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 16 | 2.28 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 19 | 2.28 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 1 | 2.28 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 18 | 2.28 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 2 | 2.28 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 3 | 2.28 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 5 | 2.28 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 10 | 2.28 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 17 | 2.28 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 1 | 2.28 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 6 | 2.28 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 13 | 2.28 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 14 | 2.28 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 16 | 2.28 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 18 | 2.28 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 19 | 2.28 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 3 | 2.28 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 3 | 2.28 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 3 | 2.28 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 6 | 2.28 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 6 | 2.28 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 6 | 2.28 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 15 | 2.28 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 15 | 2.28 |
| (1,2902) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 15 | 2.28 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 10 | 2.28 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 10 | 2.28 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 10 | 2.28 |
| (1,2892) | 1:29:A:THR:H | 1:29:A:THR:HA | 7 | 2.28 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 20 | 2.28 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 20 | 2.28 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 20 | 2.28 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 8 | 2.28 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 10 | 2.28 |
| (1,2798) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 7 | 2.28 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 9 | 2.28 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 7 | 2.28 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 17 | 2.28 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 19 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 19 | 2.28 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 19 | 2.28 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 19 | 2.28 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 19 | 2.28 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 10 | 2.28 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 10 | 2.28 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 16 | 2.28 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 16 | 2.28 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 17 | 2.28 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 17 | 2.28 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 17 | 2.28 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 13 | 2.28 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 2 | 2.28 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 2 | 2.28 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 3 | 2.28 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 8 | 2.28 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 1 | 2.28 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 1 | 2.28 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 1 | 2.28 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 17 | 2.28 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 17 | 2.28 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 2 | 2.28 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 2 | 2.28 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 1 | 2.28 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 12 | 2.28 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 12 | 2.28 |
| (1,2420) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 18 | 2.28 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 5 | 2.28 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 19 | 2.28 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 15 | 2.28 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 2 | 2.28 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 4 | 2.28 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 7 | 2.28 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 13 | 2.28 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 15 | 2.28 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 16 | 2.28 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 19 | 2.28 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 17 | 2.28 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 17 | 2.28 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 17 | 2.28 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 3 | 2.28 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 5 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 6 | 2.28 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 7 | 2.28 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 10 | 2.28 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 11 | 2.28 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 13 | 2.28 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 16 | 2.28 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 17 | 2.28 |
| (1,2268) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 18 | 2.28 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 11 | 2.28 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 11 | 2.28 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 11 | 2.28 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 4 | 2.28 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 1 | 2.28 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 14 | 2.28 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 18 | 2.28 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 16 | 2.28 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 16 | 2.28 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 16 | 2.28 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 2 | 2.28 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 2 | 2.28 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 2 | 2.28 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 2 | 2.28 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 2 | 2.28 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 2 | 2.28 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 10 | 2.28 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 20 | 2.28 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 6 | 2.28 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 9 | 2.28 |
| (1,2026) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 9 | 2.28 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 9 | 2.28 |
| (1,2026) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 9 | 2.28 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 9 | 2.28 |
| (1,2026) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 9 | 2.28 |
| (1,2020) | 1:154:A:SER:H | 1:154:A:SER:HA | 20 | 2.28 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 20 | 2.28 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 20 | 2.28 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 20 | 2.28 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 13 | 2.28 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 15 | 2.28 |
| (1,2000) | 1:152:A:THR:H | 1:152:A:THR:HA | 18 | 2.28 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 7 | 2.28 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 7 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 7 | 2.28 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 2 | 2.28 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 2 | 2.28 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 2 | 2.28 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 2 | 2.28 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 2 | 2.28 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 2 | 2.28 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 2 | 2.28 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 2 | 2.28 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 2 | 2.28 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 8 | 2.28 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 8 | 2.28 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 8 | 2.28 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 3 | 2.28 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 5 | 2.28 |
| (1,1750) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 15 | 2.28 |
| (1,1682) | 1:138:A:SER:H | 1:139:A:PHE:H | 16 | 2.28 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 6 | 2.28 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 6 | 2.28 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 6 | 2.28 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 18 | 2.28 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 18 | 2.28 |
| (1,1664) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 18 | 2.28 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 9 | 2.28 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 9 | 2.28 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 6 | 2.28 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 10 | 2.28 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 10 | 2.28 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 19 | 2.28 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 19 | 2.28 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 18 | 2.28 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 8 | 2.28 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 8 | 2.28 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 8 | 2.28 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 13 | 2.28 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 13 | 2.28 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 13 | 2.28 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 15 | 2.28 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 15 | 2.28 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 15 | 2.28 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 16 | 2.28 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 3 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 2.28 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 2 | 2.28 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 4 | 2.28 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 8 | 2.28 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 11 | 2.28 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 13 | 2.28 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 14 | 2.28 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 20 | 2.28 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 3 | 2.28 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 5 | 2.28 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 19 | 2.28 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 3 | 2.28 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 6 | 2.28 |
| (1,1366) | 1:126:A:SER:H | 1:126:A:SER:HA | 18 | 2.28 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 5 | 2.28 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 5 | 2.28 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 15 | 2.28 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 15 | 2.28 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 19 | 2.28 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 19 | 2.28 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 19 | 2.28 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 19 | 2.28 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 19 | 2.28 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 19 | 2.28 |
| (1,1316) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 3 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 14 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 14 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 14 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 14 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 14 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 14 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 14 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 14 | 2.28 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 14 | 2.28 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 12 | 2.28 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 12 | 2.28 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 12 | 2.28 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 2 | 2.28 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 2 | 2.28 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 2 | 2.28 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 4 | 2.28 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 4 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 4 | 2.28 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 15 | 2.28 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 17 | 2.28 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 17 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 1 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 3 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 5 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 6 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 7 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 8 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 9 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 10 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 11 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 12 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 13 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 14 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 15 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 17 | 2.28 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 20 | 2.28 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 15 | 2.28 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 3 | 2.28 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 3 | 2.28 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 16 | 2.28 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 16 | 2.28 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 16 | 2.28 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 7 | 2.28 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 3 | 2.28 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 3 | 2.28 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 3 | 2.28 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 14 | 2.28 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 14 | 2.28 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 14 | 2.28 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 14 | 2.28 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 14 | 2.28 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 14 | 2.28 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 3 | 2.28 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 3 | 2.28 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 3 | 2.28 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 5 | 2.28 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 5 | 2.28 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 5 | 2.28 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 1 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 8 | 2.28 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 12 | 2.28 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 4 | 2.28 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 3 | 2.28 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 6 | 2.28 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 6 | 2.28 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 6 | 2.28 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 6 | 2.28 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 16 | 2.28 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 10 | 2.28 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 2 | 2.28 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 2 | 2.28 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 8 | 2.28 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 15 | 2.28 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 15 | 2.28 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 15 | 2.28 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 5 | 2.28 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 5 | 2.28 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 5 | 2.28 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 11 | 2.28 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 11 | 2.28 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 11 | 2.28 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 20 | 2.28 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 1 | 2.28 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 1 | 2.28 |
| (1,596) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 1 | 2.28 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 10 | 2.28 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 10 | 2.28 |
| (1,542) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 10 | 2.28 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 9 | 2.28 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 18 | 2.28 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 18 | 2.28 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 18 | 2.28 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 7 | 2.28 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 18 | 2.28 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 1 | 2.28 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 10 | 2.28 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 10 | 2.28 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 10 | 2.28 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 2 | 2.28 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 11 | 2.28 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 11 | 2.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 11 | 2.28 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 6 | 2.28 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 6 | 2.28 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 6 | 2.28 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 8 | 2.28 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 9 | 2.27 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 4 | 2.27 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 7 | 2.27 |
| (4,44) | 1:15:A:MET:CB | 1:97:A:LYS:H | 13 | 2.27 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 8 | 2.27 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 6 | 2.27 |
| (3,386) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 9 | 2.27 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 19 | 2.27 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 19 | 2.27 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 19 | 2.27 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 19 | 2.27 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 19 | 2.27 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 19 | 2.27 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 15 | 2.27 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 15 | 2.27 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 15 | 2.27 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 15 | 2.27 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 15 | 2.27 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 15 | 2.27 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 12 | 2.27 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 12 | 2.27 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 12 | 2.27 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 12 | 2.27 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 12 | 2.27 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 12 | 2.27 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 14 | 2.27 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 14 | 2.27 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 10 | 2.27 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 10 | 2.27 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 3 | 2.27 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 3 | 2.27 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 19 | 2.27 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 19 | 2.27 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 7 | 2.27 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 7 | 2.27 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 20 | 2.27 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 20 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 12 | 2.27 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 12 | 2.27 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 16 | 2.27 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 16 | 2.27 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 7 | 2.27 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 7 | 2.27 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 2 | 2.27 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 2 | 2.27 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 16 | 2.27 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 16 | 2.27 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 4 | 2.27 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 4 | 2.27 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 14 | 2.27 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 14 | 2.27 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 15 | 2.27 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 15 | 2.27 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 17 | 2.27 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 17 | 2.27 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 6 | 2.27 |
| (1,8898) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 6 | 2.27 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 14 | 2.27 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 14 | 2.27 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 14 | 2.27 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 14 | 2.27 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 14 | 2.27 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 14 | 2.27 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 4 | 2.27 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 4 | 2.27 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 4 | 2.27 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 4 | 2.27 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 2 | 2.27 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 2 | 2.27 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 2 | 2.27 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 2 | 2.27 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 8 | 2.27 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 8 | 2.27 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 17 | 2.27 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 17 | 2.27 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 16 | 2.27 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 16 | 2.27 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 4 | 2.27 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 4 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 4 | 2.27 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 4 | 2.27 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 11 | 2.27 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 11 | 2.27 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 1 | 2.27 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 1 | 2.27 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 1 | 2.27 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 1 | 2.27 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 13 | 2.27 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 13 | 2.27 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 13 | 2.27 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 12 | 2.27 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 12 | 2.27 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 12 | 2.27 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 11 | 2.27 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 17 | 2.27 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 11 | 2.27 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 11 | 2.27 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 18 | 2.27 |
| (1,8141) | 1:96:A:ILE:H | 1:97:A:LYS:HG2 | 9 | 2.27 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 13 | 2.27 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 11 | 2.27 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 11 | 2.27 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 11 | 2.27 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 4 | 2.27 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 20 | 2.27 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 20 | 2.27 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 20 | 2.27 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 20 | 2.27 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 20 | 2.27 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 20 | 2.27 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 13 | 2.27 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 6 | 2.27 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 6 | 2.27 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 12 | 2.27 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 6 | 2.27 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 6 | 2.27 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 12 | 2.27 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 12 | 2.27 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 13 | 2.27 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 13 | 2.27 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 17 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 10 | 2.27 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 10 | 2.27 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 10 | 2.27 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 18 | 2.27 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 8 | 2.27 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 8 | 2.27 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 8 | 2.27 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 10 | 2.27 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 10 | 2.27 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 2 | 2.27 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 2 | 2.27 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 8 | 2.27 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 8 | 2.27 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 15 | 2.27 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 15 | 2.27 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 20 | 2.27 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 20 | 2.27 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 13 | 2.27 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 13 | 2.27 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 17 | 2.27 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 17 | 2.27 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 3 | 2.27 |
| (1,7040) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 5 | 2.27 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 3 | 2.27 |
| (1,6993) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 19 | 2.27 |
| (1,6954) | 1:34:A:TRP:H | 1:35:A:GLU:H | 17 | 2.27 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 3 | 2.27 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 5 | 2.27 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 10 | 2.27 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 11 | 2.27 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 12 | 2.27 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 17 | 2.27 |
| (1,6912) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 20 | 2.27 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 12 | 2.27 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 4 | 2.27 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 11 | 2.27 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 19 | 2.27 |
| (1,6667) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 9 | 2.27 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 6 | 2.27 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 6 | 2.27 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 6 | 2.27 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 6 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 11 | 2.27 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 11 | 2.27 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 14 | 2.27 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 14 | 2.27 |
| (1,6474) | 1:1:A:MET:HA | 1:2:A:ALA:H | 1 | 2.27 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 14 | 2.27 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 14 | 2.27 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 14 | 2.27 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 10 | 2.27 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 2 | 2.27 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 3 | 2.27 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 19 | 2.27 |
| (1,6425) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 11 | 2.27 |
| (1,6425) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 11 | 2.27 |
| (1,6425) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 11 | 2.27 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 2.27 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 2.27 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 2.27 |
| (1,6312) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 2 | 2.27 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 20 | 2.27 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 12 | 2.27 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 12 | 2.27 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 12 | 2.27 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 18 | 2.27 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 5 | 2.27 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 9 | 2.27 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 9 | 2.27 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 12 | 2.27 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 12 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 12 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 12 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 15 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 15 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 16 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 16 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 18 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 18 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 19 | 2.27 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 19 | 2.27 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 13 | 2.27 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 13 | 2.27 |
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 9 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6003) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 9 | 2.27 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 7 | 2.27 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 5 | 2.27 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 12 | 2.27 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 7 | 2.27 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 11 | 2.27 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 11 | 2.27 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 11 | 2.27 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 11 | 2.27 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 11 | 2.27 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 11 | 2.27 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 11 | 2.27 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 11 | 2.27 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 11 | 2.27 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 6 | 2.27 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 2 | 2.27 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 4 | 2.27 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 16 | 2.27 |
| (1,5837) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 18 | 2.27 |
| (1,5774) | 1:113:A:CYS:HA | 1:114:A:SER:H | 10 | 2.27 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 9 | 2.27 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 13 | 2.27 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 20 | 2.27 |
| (1,5668) | 1:105:A:SER:H | 1:106:A:LEU:H | 13 | 2.27 |
| (1,5589) | 1:98:A:SER:H | 1:100:A:GLU:H | 12 | 2.27 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 18 | 2.27 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 7 | 2.27 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 7 | 2.27 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 7 | 2.27 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 16 | 2.27 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 8 | 2.27 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 14 | 2.27 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 4 | 2.27 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 13 | 2.27 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 8 | 2.27 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 20 | 2.27 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 20 | 2.27 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 20 | 2.27 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 4 | 2.27 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 4 | 2.27 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 4 | 2.27 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 12 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 12 | 2.27 |
| (1,5102) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 12 | 2.27 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 1 | 2.27 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 14 | 2.27 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 16 | 2.27 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 16 | 2.27 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 16 | 2.27 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 15 | 2.27 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 15 | 2.27 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 13 | 2.27 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 1 | 2.27 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 3 | 2.27 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 4 | 2.27 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 1 | 2.27 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 1 | 2.27 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 1 | 2.27 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 1 | 2.27 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 1 | 2.27 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 1 | 2.27 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 2 | 2.27 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 2 | 2.27 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 19 | 2.27 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 19 | 2.27 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 19 | 2.27 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 19 | 2.27 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 19 | 2.27 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 19 | 2.27 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 3 | 2.27 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 11 | 2.27 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 11 | 2.27 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 15 | 2.27 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 15 | 2.27 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 15 | 2.27 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 15 | 2.27 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 15 | 2.27 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 15 | 2.27 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 3 | 2.27 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 3 | 2.27 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 3 | 2.27 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 3 | 2.27 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 3 | 2.27 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 3 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 15 | 2.27 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 14 | 2.27 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 14 | 2.27 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 14 | 2.27 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 14 | 2.27 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 14 | 2.27 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 14 | 2.27 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 9 | 2.27 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 9 | 2.27 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 12 | 2.27 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 12 | 2.27 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 18 | 2.27 |
| (1,4394) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 18 | 2.27 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 3 | 2.27 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 3 | 2.27 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 19 | 2.27 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 19 | 2.27 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 8 | 2.27 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 8 | 2.27 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 8 | 2.27 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 8 | 2.27 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 4 | 2.27 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 4 | 2.27 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 15 | 2.27 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 15 | 2.27 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 15 | 2.27 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 15 | 2.27 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 15 | 2.27 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 15 | 2.27 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 15 | 2.27 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 15 | 2.27 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 5 | 2.27 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 14 | 2.27 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 14 | 2.27 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 14 | 2.27 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 14 | 2.27 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 6 | 2.27 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 6 | 2.27 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 6 | 2.27 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 17 | 2.27 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 17 | 2.27 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 17 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 17 | 2.27 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 17 | 2.27 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 17 | 2.27 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 5 | 2.27 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 5 | 2.27 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 7 | 2.27 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 7 | 2.27 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 16 | 2.27 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 16 | 2.27 |
| (1,3968) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 10 | 2.27 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 8 | 2.27 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 8 | 2.27 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 4 | 2.27 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 18 | 2.27 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 18 | 2.27 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 18 | 2.27 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 4 | 2.27 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 4 | 2.27 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 14 | 2.27 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 14 | 2.27 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 15 | 2.27 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 15 | 2.27 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 6 | 2.27 |
| (1,3858) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 6 | 2.27 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 14 | 2.27 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 14 | 2.27 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 14 | 2.27 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 14 | 2.27 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 14 | 2.27 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 14 | 2.27 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 11 | 2.27 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 9 | 2.27 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 9 | 2.27 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 8 | 2.27 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 8 | 2.27 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 2 | 2.27 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 2 | 2.27 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 2 | 2.27 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 16 | 2.27 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 16 | 2.27 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 3 | 2.27 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 3 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 8 | 2.27 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 8 | 2.27 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 9 | 2.27 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 9 | 2.27 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 13 | 2.27 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 13 | 2.27 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 1 | 2.27 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 2 | 2.27 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 2 | 2.27 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 4 | 2.27 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 8 | 2.27 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 8 | 2.27 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 8 | 2.27 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 14 | 2.27 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 14 | 2.27 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 14 | 2.27 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 8 | 2.27 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 8 | 2.27 |
| (1,3382) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 1 | 2.27 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 10 | 2.27 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 10 | 2.27 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 10 | 2.27 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 13 | 2.27 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 13 | 2.27 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 13 | 2.27 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 2 | 2.27 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 16 | 2.27 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 18 | 2.27 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 20 | 2.27 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 20 | 2.27 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 5 | 2.27 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 5 | 2.27 |
| (1,3136) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 19 | 2.27 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 3 | 2.27 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 10 | 2.27 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 12 | 2.27 |
| (1,3132) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 20 | 2.27 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 10 | 2.27 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 10 | 2.27 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 2 | 2.27 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 2 | 2.27 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 8 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 8 | 2.27 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 13 | 2.27 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 16 | 2.27 |
| (1,3034) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 19 | 2.27 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 7 | 2.27 |
| (1,3002) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 10 | 2.27 |
| (1,2974) | 1:34:A:TRP:H | 1:35:A:GLU:H | 17 | 2.27 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 10 | 2.27 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 13 | 2.27 |
| (1,2944) | 1:32:A:SER:H | 1:32:A:SER:HA | 19 | 2.27 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 3 | 2.27 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 5 | 2.27 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 10 | 2.27 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 11 | 2.27 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 12 | 2.27 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 17 | 2.27 |
| (1,2914) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 20 | 2.27 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 12 | 2.27 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 1 | 2.27 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 5 | 2.27 |
| (1,2778) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 10 | 2.27 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 18 | 2.27 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 18 | 2.27 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 18 | 2.27 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 18 | 2.27 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 18 | 2.27 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 18 | 2.27 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 4 | 2.27 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 11 | 2.27 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 9 | 2.27 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 9 | 2.27 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 11 | 2.27 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 19 | 2.27 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 6 | 2.27 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 6 | 2.27 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 12 | 2.27 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 12 | 2.27 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 16 | 2.27 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 16 | 2.27 |
| (1,2556) | 1:14:A:ARG:HA | 1:14:A:ARG:HB3 | 9 | 2.27 |
| (1,2542) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 11 | 2.27 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 12 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 12 | 2.27 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 10 | 2.27 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 10 | 2.27 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 6 | 2.27 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 6 | 2.27 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 6 | 2.27 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 6 | 2.27 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 11 | 2.27 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 11 | 2.27 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 14 | 2.27 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 14 | 2.27 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 13 | 2.27 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 7 | 2.27 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 10 | 2.27 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 6 | 2.27 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 17 | 2.27 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 12 | 2.27 |
| (1,2308) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 11 | 2.27 |
| (1,2254) | 1:1:A:MET:HA | 1:2:A:ALA:H | 1 | 2.27 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 4 | 2.27 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 4 | 2.27 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 4 | 2.27 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 4 | 2.27 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 4 | 2.27 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 4 | 2.27 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 4 | 2.27 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 4 | 2.27 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 4 | 2.27 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 14 | 2.27 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 14 | 2.27 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 14 | 2.27 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 2 | 2.27 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 3 | 2.27 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 19 | 2.27 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 10 | 2.27 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 10 | 2.27 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 10 | 2.27 |
| (1,2140) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 11 | 2.27 |
| (1,2140) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 11 | 2.27 |
| (1,2140) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 11 | 2.27 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 2.27 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 2.27 |
| (1,2060) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 18 | 2.27 |
| (1,2060) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 18 | 2.27 |
| (1,2060) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 18 | 2.27 |
| (1,1984) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 2 | 2.27 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 20 | 2.27 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 20 | 2.27 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 20 | 2.27 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 5 | 2.27 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 12 | 2.27 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 19 | 2.27 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 18 | 2.27 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 4 | 2.27 |
| (1,1856) | 1:146:A:MET:H | 1:146:A:MET:HA | 16 | 2.27 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 5 | 2.27 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 18 | 2.27 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 18 | 2.27 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 9 | 2.27 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 9 | 2.27 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 9 | 2.27 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 9 | 2.27 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 9 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 12 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 12 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 15 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 15 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 16 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 16 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 18 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 18 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 19 | 2.27 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 19 | 2.27 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 13 | 2.27 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 13 | 2.27 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 9 | 2.27 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 9 | 2.27 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 15 | 2.27 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 15 | 2.27 |
| (1,1540) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 8 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 3 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 3 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 4 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 4 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 5 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 5 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 8 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 8 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 12 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 12 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 13 | 2.27 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 13 | 2.27 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 4 | 2.27 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 4 | 2.27 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 9 | 2.27 |
| (1,1502) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 9 | 2.27 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 12 | 2.27 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 12 | 2.27 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 12 | 2.27 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 7 | 2.27 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 12 | 2.27 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 1 | 2.27 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 5 | 2.27 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 6 | 2.27 |
| (1,1434) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 15 | 2.27 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 1 | 2.27 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 13 | 2.27 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 5 | 2.27 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 11 | 2.27 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 11 | 2.27 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 12 | 2.27 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 7 | 2.27 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 11 | 2.27 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 11 | 2.27 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 11 | 2.27 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 11 | 2.27 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 11 | 2.27 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 11 | 2.27 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 11 | 2.27 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 11 | 2.27 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 11 | 2.27 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 3 | 2.27 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 5 | 2.27 |
| (1,1272) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 9 | 2.27 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 6 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 4 | 2.27 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 4 | 2.27 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 7 | 2.27 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 7 | 2.27 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 9 | 2.27 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 9 | 2.27 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 2 | 2.27 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 4 | 2.27 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 16 | 2.27 |
| (1,1212) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 18 | 2.27 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 2.27 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 10 | 2.27 |
| (1,1124) | 1:113:A:CYS:HA | 1:114:A:SER:H | 10 | 2.27 |
| (1,1122) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 11 | 2.27 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 20 | 2.27 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 9 | 2.27 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 16 | 2.27 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 14 | 2.27 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 14 | 2.27 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 14 | 2.27 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 10 | 2.27 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 16 | 2.27 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 20 | 2.27 |
| (1,920) | 1:105:A:SER:H | 1:106:A:LEU:H | 13 | 2.27 |
| (1,911) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 13 | 2.27 |
| (1,904) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 9 | 2.27 |
| (1,896) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 12 | 2.27 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 15 | 2.27 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 15 | 2.27 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 15 | 2.27 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 2 | 2.27 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 6 | 2.27 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 6 | 2.27 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 20 | 2.27 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 13 | 2.27 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 6 | 2.27 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 6 | 2.27 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 6 | 2.27 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 16 | 2.27 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 16 | 2.27 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 16 | 2.27 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 18 | 2.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 7 | 2.27 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 7 | 2.27 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 7 | 2.27 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 16 | 2.27 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 8 | 2.27 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 4 | 2.27 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 4 | 2.27 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 4 | 2.27 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 14 | 2.27 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 14 | 2.27 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 14 | 2.27 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 19 | 2.27 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 19 | 2.27 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 19 | 2.27 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 1 | 2.27 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 4 | 2.27 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 6 | 2.27 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 10 | 2.27 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 1 | 2.27 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 17 | 2.27 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 17 | 2.27 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 17 | 2.27 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 19 | 2.27 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 19 | 2.27 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 19 | 2.27 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 6 | 2.27 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 6 | 2.27 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 6 | 2.27 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 17 | 2.26 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 3 | 2.26 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 1 | 2.26 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 14 | 2.26 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 14 | 2.26 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 16 | 2.26 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 16 | 2.26 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 4 | 2.26 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 4 | 2.26 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 1 | 2.26 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 1 | 2.26 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 17 | 2.26 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 17 | 2.26 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 9 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 9 | 2.26 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 8 | 2.26 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 8 | 2.26 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 4 | 2.26 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 4 | 2.26 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 17 | 2.26 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 17 | 2.26 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 15 | 2.26 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 15 | 2.26 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 11 | 2.26 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 11 | 2.26 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 14 | 2.26 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 14 | 2.26 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 16 | 2.26 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 16 | 2.26 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 16 | 2.26 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 16 | 2.26 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 12 | 2.26 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 12 | 2.26 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 15 | 2.26 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 15 | 2.26 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 5 | 2.26 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 5 | 2.26 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 4 | 2.26 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 4 | 2.26 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 9 | 2.26 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 9 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 8 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 8 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 8 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 8 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 10 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 10 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 10 | 2.26 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 10 | 2.26 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 11 | 2.26 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 11 | 2.26 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 8 | 2.26 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 8 | 2.26 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 5 | 2.26 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 5 | 2.26 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 11 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 11 | 2.26 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 17 | 2.26 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 17 | 2.26 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 20 | 2.26 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 2.26 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 5 | 2.26 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 5 | 2.26 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 16 | 2.26 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 16 | 2.26 |
| (1,9073) | 1:83:A:GLU:HG2 | 1:84:A:GLU:H | 12 | 2.26 |
| (1,9073) | 1:83:A:GLU:HG3 | 1:84:A:GLU:H | 12 | 2.26 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 11 | 2.26 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 11 | 2.26 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 20 | 2.26 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 20 | 2.26 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 20 | 2.26 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 20 | 2.26 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 7 | 2.26 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 7 | 2.26 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 9 | 2.26 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 9 | 2.26 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 18 | 2.26 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 18 | 2.26 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 17 | 2.26 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 17 | 2.26 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 17 | 2.26 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 17 | 2.26 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 17 | 2.26 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 17 | 2.26 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 17 | 2.26 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 17 | 2.26 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 17 | 2.26 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 17 | 2.26 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 11 | 2.26 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 11 | 2.26 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 20 | 2.26 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 20 | 2.26 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 9 | 2.26 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 9 | 2.26 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 8 | 2.26 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 8 | 2.26 |
| (1,8666) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HD2 | 1 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8666) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HD2 | 1 | 2.26 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 11 | 2.26 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 11 | 2.26 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 3 | 2.26 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 3 | 2.26 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 3 | 2.26 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 3 | 2.26 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 10 | 2.26 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 10 | 2.26 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB2 | 9 | 2.26 |
| (1,8376) | 1:137:A:ALA:HB1 | 1:147:A:SER:HB3 | 9 | 2.26 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB2 | 9 | 2.26 |
| (1,8376) | 1:137:A:ALA:HB2 | 1:147:A:SER:HB3 | 9 | 2.26 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB2 | 9 | 2.26 |
| (1,8376) | 1:137:A:ALA:HB3 | 1:147:A:SER:HB3 | 9 | 2.26 |
| (1,8322) | 1:131:A:GLN:H | 1:132:A:LYS:H | 14 | 2.26 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 4 | 2.26 |
| (1,8302) | 1:127:A:ARG:HA | 1:127:A:ARG:HD2 | 1 | 2.26 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 2 | 2.26 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 1 | 2.26 |
| (1,7611) | 1:26:A:ASN:H | 1:30:A:ASN:HA | 7 | 2.26 |
| (1,7576) | 1:24:A:TYR:HB3 | 1:25:A:PHE:H | 17 | 2.26 |
| (1,7574) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 14 | 2.26 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 14 | 2.26 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 6 | 2.26 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 5 | 2.26 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 5 | 2.26 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 11 | 2.26 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 11 | 2.26 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 5 | 2.26 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 5 | 2.26 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 20 | 2.26 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 20 | 2.26 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 16 | 2.26 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 16 | 2.26 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 8 | 2.26 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 8 | 2.26 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 16 | 2.26 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 16 | 2.26 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 13 | 2.26 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 13 | 2.26 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 13 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 6 | 2.26 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 6 | 2.26 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 3 | 2.26 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 3 | 2.26 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 7 | 2.26 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 1 | 2.26 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 13 | 2.26 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 13 | 2.26 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 19 | 2.26 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 14 | 2.26 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 19 | 2.26 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 19 | 2.26 |
| (1,6766) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 19 | 2.26 |
| (1,6766) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 19 | 2.26 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 4 | 2.26 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 4 | 2.26 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 4 | 2.26 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 6 | 2.26 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 2 | 2.26 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 2 | 2.26 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 2 | 2.26 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 2 | 2.26 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 9 | 2.26 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 9 | 2.26 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 7 | 2.26 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 14 | 2.26 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 15 | 2.26 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 20 | 2.26 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 10 | 2.26 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 14 | 2.26 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 14 | 2.26 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 14 | 2.26 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 7 | 2.26 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 7 | 2.26 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 7 | 2.26 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 7 | 2.26 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 7 | 2.26 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 7 | 2.26 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 7 | 2.26 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 7 | 2.26 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 7 | 2.26 |
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 3 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6349) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 3 | 2.26 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 8 | 2.26 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 8 | 2.26 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 11 | 2.26 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 14 | 2.26 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 2 | 2.26 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 10 | 2.26 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 16 | 2.26 |
| (1,6187) | 1:142:A:ARG:HA | 1:143:A:THR:H | 3 | 2.26 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 4 | 2.26 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 17 | 2.26 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 8 | 2.26 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 8 | 2.26 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 6 | 2.26 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 6 | 2.26 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 10 | 2.26 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 10 | 2.26 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 1 | 2.26 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 1 | 2.26 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 10 | 2.26 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 3 | 2.26 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 4 | 2.26 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 9 | 2.26 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 20 | 2.26 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 20 | 2.26 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 20 | 2.26 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 20 | 2.26 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 3 | 2.26 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 3 | 2.26 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 3 | 2.26 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 2 | 2.26 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 2 | 2.26 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 1 | 2.26 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 4 | 2.26 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 4 | 2.26 |
| (1,5574) | 1:98:A:SER:H | 1:99:A:GLY:H | 6 | 2.26 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 1 | 2.26 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 1 | 2.26 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 1 | 2.26 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 1 | 2.26 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 1 | 2.26 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 1 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 1 | 2.26 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 1 | 2.26 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 1 | 2.26 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 12 | 2.26 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 2 | 2.26 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 5 | 2.26 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 13 | 2.26 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 1 | 2.26 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 1 | 2.26 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 1 | 2.26 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 20 | 2.26 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 13 | 2.26 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 13 | 2.26 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 13 | 2.26 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 9 | 2.26 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 9 | 2.26 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 9 | 2.26 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 6 | 2.26 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 6 | 2.26 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 6 | 2.26 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 6 | 2.26 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 6 | 2.26 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 6 | 2.26 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 2 | 2.26 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 2 | 2.26 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 2 | 2.26 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 3 | 2.26 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 15 | 2.26 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 9 | 2.26 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 12 | 2.26 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 12 | 2.26 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 12 | 2.26 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 14 | 2.26 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 14 | 2.26 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 14 | 2.26 |
| (1,4999) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 5 | 2.26 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 4 | 2.26 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 16 | 2.26 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 15 | 2.26 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 4 | 2.26 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 4 | 2.26 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 6 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 6 | 2.26 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 6 | 2.26 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 6 | 2.26 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 6 | 2.26 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 6 | 2.26 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 6 | 2.26 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 6 | 2.26 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 6 | 2.26 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 3 | 2.26 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 4 | 2.26 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 19 | 2.26 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 7 | 2.26 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 8 | 2.26 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 4 | 2.26 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 4 | 2.26 |
| (1,4606) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 3 | 2.26 |
| (1,4606) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 3 | 2.26 |
| (1,4606) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 3 | 2.26 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 1 | 2.26 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 1 | 2.26 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 17 | 2.26 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 17 | 2.26 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 7 | 2.26 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 7 | 2.26 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 7 | 2.26 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 8 | 2.26 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 8 | 2.26 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 4 | 2.26 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 4 | 2.26 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 4 | 2.26 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 9 | 2.26 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 9 | 2.26 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 4 | 2.26 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 4 | 2.26 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 19 | 2.26 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 19 | 2.26 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 16 | 2.26 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 16 | 2.26 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 16 | 2.26 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 16 | 2.26 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 1 | 2.26 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 1 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 1 | 2.26 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 1 | 2.26 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 1 | 2.26 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 1 | 2.26 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 4 | 2.26 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 4 | 2.26 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 17 | 2.26 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 17 | 2.26 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 15 | 2.26 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 15 | 2.26 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 3 | 2.26 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 3 | 2.26 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 6 | 2.26 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 6 | 2.26 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 6 | 2.26 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 6 | 2.26 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 7 | 2.26 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 7 | 2.26 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 15 | 2.26 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 15 | 2.26 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 15 | 2.26 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 2 | 2.26 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 2 | 2.26 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 2 | 2.26 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 2 | 2.26 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 2 | 2.26 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 2 | 2.26 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 15 | 2.26 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 15 | 2.26 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 12 | 2.26 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 12 | 2.26 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 15 | 2.26 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 15 | 2.26 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 5 | 2.26 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 5 | 2.26 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 15 | 2.26 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 15 | 2.26 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 13 | 2.26 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 6 | 2.26 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 6 | 2.26 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 17 | 2.26 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 17 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 3 | 2.26 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 3 | 2.26 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 3 | 2.26 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 2.26 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 2.26 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 2.26 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 5 | 2.26 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 5 | 2.26 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 5 | 2.26 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 18 | 2.26 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 18 | 2.26 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 18 | 2.26 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 18 | 2.26 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 18 | 2.26 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 18 | 2.26 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 14 | 2.26 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 14 | 2.26 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 14 | 2.26 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 14 | 2.26 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 14 | 2.26 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 14 | 2.26 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 2.26 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 2.26 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 11 | 2.26 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 11 | 2.26 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 17 | 2.26 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 17 | 2.26 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 20 | 2.26 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 2.26 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 18 | 2.26 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 18 | 2.26 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 18 | 2.26 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 2 | 2.26 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 6 | 2.26 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 6 | 2.26 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 7 | 2.26 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 7 | 2.26 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 9 | 2.26 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 9 | 2.26 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 6 | 2.26 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 6 | 2.26 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 7 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 7 | 2.26 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 18 | 2.26 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 18 | 2.26 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 4 | 2.26 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 4 | 2.26 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 4 | 2.26 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 4 | 2.26 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 4 | 2.26 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 4 | 2.26 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 10 | 2.26 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 10 | 2.26 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 5 | 2.26 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 5 | 2.26 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 9 | 2.26 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 9 | 2.26 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 16 | 2.26 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 16 | 2.26 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 16 | 2.26 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 10 | 2.26 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 10 | 2.26 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 10 | 2.26 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 10 | 2.26 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 19 | 2.26 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 15 | 2.26 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 9 | 2.26 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 9 | 2.26 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 9 | 2.26 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 19 | 2.26 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 19 | 2.26 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 19 | 2.26 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 6 | 2.26 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 16 | 2.26 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 7 | 2.26 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 8 | 2.26 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 11 | 2.26 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 5 | 2.26 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 10 | 2.26 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 4 | 2.26 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 13 | 2.26 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 13 | 2.26 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 6 | 2.26 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 6 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 13 | 2.26 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 7 | 2.26 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 3 | 2.26 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 3 | 2.26 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 8 | 2.26 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 8 | 2.26 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 10 | 2.26 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 1 | 2.26 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 13 | 2.26 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 9 | 2.26 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 18 | 2.26 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 18 | 2.26 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 18 | 2.26 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 13 | 2.26 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 19 | 2.26 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 10 | 2.26 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 14 | 2.26 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 13 | 2.26 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 13 | 2.26 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 16 | 2.26 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 16 | 2.26 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 15 | 2.26 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 15 | 2.26 |
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 6 | 2.26 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 12 | 2.26 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 12 | 2.26 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 12 | 2.26 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 2 | 2.26 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 2 | 2.26 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 2 | 2.26 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 2 | 2.26 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 9 | 2.26 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 9 | 2.26 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 19 | 2.26 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 19 | 2.26 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 7 | 2.26 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 16 | 2.26 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 15 | 2.26 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 10 | 2.26 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 19 | 2.26 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 7 | 2.26 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 7 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 7 | 2.26 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 2 | 2.26 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 2 | 2.26 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 2 | 2.26 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 2 | 2.26 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 17 | 2.26 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 6 | 2.26 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 6 | 2.26 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 6 | 2.26 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 14 | 2.26 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 14 | 2.26 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 14 | 2.26 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 7 | 2.26 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 7 | 2.26 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 7 | 2.26 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 3 | 2.26 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 3 | 2.26 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 3 | 2.26 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 7 | 2.26 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 7 | 2.26 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 7 | 2.26 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 7 | 2.26 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 7 | 2.26 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 7 | 2.26 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 7 | 2.26 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 7 | 2.26 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 7 | 2.26 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 8 | 2.26 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 8 | 2.26 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 8 | 2.26 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 2 | 2.26 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 14 | 2.26 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 11 | 2.26 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 14 | 2.26 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 1 | 2.26 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 16 | 2.26 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 10 | 2.26 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 10 | 2.26 |
| (1,1794) | 1:142:A:ARG:HA | 1:143:A:THR:H | 3 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 7 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 7 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 7 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 7 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 7 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 7 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 10 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 10 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 10 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 10 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 10 | 2.26 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 10 | 2.26 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 6 | 2.26 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 17 | 2.26 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 11 | 2.26 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 11 | 2.26 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 11 | 2.26 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 8 | 2.26 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 8 | 2.26 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 6 | 2.26 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 6 | 2.26 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 10 | 2.26 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 10 | 2.26 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 1 | 2.26 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 1 | 2.26 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 9 | 2.26 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 4 | 2.26 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 4 | 2.26 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 9 | 2.26 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 9 | 2.26 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 16 | 2.26 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 16 | 2.26 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 10 | 2.26 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 3 | 2.26 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 17 | 2.26 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 12 | 2.26 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 14 | 2.26 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 18 | 2.26 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 19 | 2.26 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 20 | 2.26 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 6 | 2.26 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 12 | 2.26 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 20 | 2.26 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 20 | 2.26 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 20 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 4 | 2.26 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 9 | 2.26 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 20 | 2.26 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 4 | 2.26 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 11 | 2.26 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 3 | 2.26 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 3 | 2.26 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 3 | 2.26 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 2 | 2.26 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 2 | 2.26 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 18 | 2.26 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 11 | 2.26 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 15 | 2.26 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 19 | 2.26 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 5 | 2.26 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 5 | 2.26 |
| (1,858) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 5 | 2.26 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 10 | 2.26 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 1 | 2.26 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 3 | 2.26 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 3 | 2.26 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 2.26 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 2.26 |
| (1,746) | 1:98:A:SER:H | 1:99:A:GLY:H | 6 | 2.26 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 7 | 2.26 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 11 | 2.26 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 1 | 2.26 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 1 | 2.26 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 1 | 2.26 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 1 | 2.26 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 1 | 2.26 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 1 | 2.26 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 1 | 2.26 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 1 | 2.26 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 1 | 2.26 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 1 | 2.26 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 1 | 2.26 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 1 | 2.26 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 12 | 2.26 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 6 | 2.26 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 14 | 2.26 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 9 | 2.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 9 | 2.26 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 9 | 2.26 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 2 | 2.26 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 5 | 2.26 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 19 | 2.26 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 6 | 2.26 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 20 | 2.26 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 20 | 2.26 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 20 | 2.26 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 4 | 2.26 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 19 | 2.26 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 19 | 2.26 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 19 | 2.26 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 18 | 2.26 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 18 | 2.26 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 18 | 2.26 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 17 | 2.26 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 3 | 2.26 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 1 | 2.26 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 1 | 2.26 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 1 | 2.26 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 6 | 2.26 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 6 | 2.26 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 6 | 2.26 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 19 | 2.26 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 19 | 2.26 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 8 | 2.26 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 11 | 2.26 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 17 | 2.25 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 5 | 2.25 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 4 | 2.25 |
| (1,9616) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 4 | 2.25 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 8 | 2.25 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 8 | 2.25 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 19 | 2.25 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 19 | 2.25 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 10 | 2.25 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 10 | 2.25 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 14 | 2.25 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 14 | 2.25 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 5 | 2.25 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 5 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 7 | 2.25 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 7 | 2.25 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 13 | 2.25 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 13 | 2.25 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 20 | 2.25 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 2.25 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 2 | 2.25 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 2 | 2.25 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 17 | 2.25 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 17 | 2.25 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 17 | 2.25 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 17 | 2.25 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 17 | 2.25 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 17 | 2.25 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG2 | 13 | 2.25 |
| (1,9305) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HG3 | 13 | 2.25 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG2 | 13 | 2.25 |
| (1,9305) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HG3 | 13 | 2.25 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 5 | 2.25 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 5 | 2.25 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 2 | 2.25 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 2 | 2.25 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 16 | 2.25 |
| (1,9266) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 16 | 2.25 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 1 | 2.25 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 1 | 2.25 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 4 | 2.25 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 4 | 2.25 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 7 | 2.25 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 7 | 2.25 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 14 | 2.25 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 14 | 2.25 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 12 | 2.25 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 12 | 2.25 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 5 | 2.25 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 5 | 2.25 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 7 | 2.25 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 7 | 2.25 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 18 | 2.25 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 18 | 2.25 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 19 | 2.25 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 19 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 7 | 2.25 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 7 | 2.25 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 17 | 2.25 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 17 | 2.25 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 20 | 2.25 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 20 | 2.25 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 13 | 2.25 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 13 | 2.25 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 10 | 2.25 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 10 | 2.25 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 12 | 2.25 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 12 | 2.25 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 14 | 2.25 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 14 | 2.25 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 20 | 2.25 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 20 | 2.25 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 10 | 2.25 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 10 | 2.25 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 14 | 2.25 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 14 | 2.25 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 18 | 2.25 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 18 | 2.25 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 15 | 2.25 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 8 | 2.25 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 9 | 2.25 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 12 | 2.25 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 15 | 2.25 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 15 | 2.25 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 15 | 2.25 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 15 | 2.25 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 15 | 2.25 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 15 | 2.25 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 15 | 2.25 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 15 | 2.25 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 15 | 2.25 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 6 | 2.25 |
| (1,7599) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 7 | 2.25 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 5 | 2.25 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 11 | 2.25 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 11 | 2.25 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 11 | 2.25 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 11 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 11 | 2.25 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 11 | 2.25 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 9 | 2.25 |
| (1,7307) | 1:40:A:ASN:HA | 1:41:A:SER:H | 16 | 2.25 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 6 | 2.25 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 6 | 2.25 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 4 | 2.25 |
| (1,7224) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 5 | 2.25 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 15 | 2.25 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 15 | 2.25 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 15 | 2.25 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 2 | 2.25 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 2 | 2.25 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 13 | 2.25 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 13 | 2.25 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 7 | 2.25 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 3 | 2.25 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 3 | 2.25 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 15 | 2.25 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 15 | 2.25 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 5 | 2.25 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 5 | 2.25 |
| (1,7032) | 1:38:A:SER:HA | 1:39:A:GLY:H | 5 | 2.25 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 2 | 2.25 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 2 | 2.25 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 5 | 2.25 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 3 | 2.25 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 10 | 2.25 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 10 | 2.25 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 10 | 2.25 |
| (1,6900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 8 | 2.25 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 5 | 2.25 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 5 | 2.25 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 5 | 2.25 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 6 | 2.25 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 6 | 2.25 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 6 | 2.25 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 1 | 2.25 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 13 | 2.25 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 11 | 2.25 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 11 | 2.25 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 2 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 14 | 2.25 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 6 | 2.25 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 3 | 2.25 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 15 | 2.25 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 15 | 2.25 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 15 | 2.25 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 5 | 2.25 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 17 | 2.25 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 17 | 2.25 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 17 | 2.25 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 11 | 2.25 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 11 | 2.25 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 11 | 2.25 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 19 | 2.25 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 19 | 2.25 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 19 | 2.25 |
| (1,6411) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 2 | 2.25 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 12 | 2.25 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 5 | 2.25 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 5 | 2.25 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 1 | 2.25 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 11 | 2.25 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 17 | 2.25 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 6 | 2.25 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 6 | 2.25 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 10 | 2.25 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 10 | 2.25 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 10 | 2.25 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 10 | 2.25 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 10 | 2.25 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 10 | 2.25 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 10 | 2.25 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 10 | 2.25 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 10 | 2.25 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 5 | 2.25 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 14 | 2.25 |
| (1,6266) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 14 | 2.25 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 14 | 2.25 |
| (1,6266) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 14 | 2.25 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 14 | 2.25 |
| (1,6266) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 14 | 2.25 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 7 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 9 | 2.25 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 18 | 2.25 |
| (1,6203) | 1:144:A:GLY:H | 1:145:A:GLU:H | 16 | 2.25 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 7 | 2.25 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 7 | 2.25 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 7 | 2.25 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 7 | 2.25 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 4 | 2.25 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 4 | 2.25 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 4 | 2.25 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 2 | 2.25 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 2 | 2.25 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 4 | 2.25 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 4 | 2.25 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 14 | 2.25 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 14 | 2.25 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 20 | 2.25 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 20 | 2.25 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 20 | 2.25 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 19 | 2.25 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 5 | 2.25 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 4 | 2.25 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 14 | 2.25 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 3 | 2.25 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 13 | 2.25 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 14 | 2.25 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 5 | 2.25 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 5 | 2.25 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 5 | 2.25 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 6 | 2.25 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 6 | 2.25 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 6 | 2.25 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 17 | 2.25 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 17 | 2.25 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 17 | 2.25 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 9 | 2.25 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 9 | 2.25 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 9 | 2.25 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 1 | 2.25 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 1 | 2.25 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 1 | 2.25 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 9 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 9 | 2.25 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 9 | 2.25 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 9 | 2.25 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 4 | 2.25 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 4 | 2.25 |
| (1,5656) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 4 | 2.25 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 5 | 2.25 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 5 | 2.25 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 9 | 2.25 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 9 | 2.25 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 13 | 2.25 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 13 | 2.25 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 12 | 2.25 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 2 | 2.25 |
| (1,5439) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 12 | 2.25 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 19 | 2.25 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 5 | 2.25 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 5 | 2.25 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 5 | 2.25 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 9 | 2.25 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 9 | 2.25 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 9 | 2.25 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 19 | 2.25 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 19 | 2.25 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 19 | 2.25 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 7 | 2.25 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 7 | 2.25 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 7 | 2.25 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 13 | 2.25 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 13 | 2.25 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 13 | 2.25 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 13 | 2.25 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 13 | 2.25 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 13 | 2.25 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 13 | 2.25 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 13 | 2.25 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 13 | 2.25 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 3 | 2.25 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 3 | 2.25 |
| (1,5244) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 3 | 2.25 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 3 | 2.25 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 17 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5222) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 17 | 2.25 |
| (1,5222) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 17 | 2.25 |
| (1,5222) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 17 | 2.25 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 16 | 2.25 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 14 | 2.25 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 1 | 2.25 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 1 | 2.25 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 1 | 2.25 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 3 | 2.25 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 7 | 2.25 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 11 | 2.25 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 11 | 2.25 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 11 | 2.25 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 13 | 2.25 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 13 | 2.25 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 13 | 2.25 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 5 | 2.25 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 2 | 2.25 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 2 | 2.25 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 2 | 2.25 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 2 | 2.25 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 2 | 2.25 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 2 | 2.25 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 2 | 2.25 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 2 | 2.25 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 2 | 2.25 |
| (1,4774) | 1:58:A:SER:HA | 1:59:A:HIS:H | 1 | 2.25 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 14 | 2.25 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 11 | 2.25 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 9 | 2.25 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 9 | 2.25 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 9 | 2.25 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 9 | 2.25 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 2 | 2.25 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 2 | 2.25 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 2 | 2.25 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 2 | 2.25 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 2 | 2.25 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 2 | 2.25 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 1 | 2.25 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 14 | 2.25 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 20 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 20 | 2.25 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 20 | 2.25 |
| (1,4655) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 17 | 2.25 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 18 | 2.25 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 2 | 2.25 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 12 | 2.25 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 12 | 2.25 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 12 | 2.25 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 12 | 2.25 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 12 | 2.25 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 12 | 2.25 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 19 | 2.25 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 19 | 2.25 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 5 | 2.25 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 5 | 2.25 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 7 | 2.25 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 7 | 2.25 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 13 | 2.25 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 13 | 2.25 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 14 | 2.25 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 1 | 2.25 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 1 | 2.25 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 11 | 2.25 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 3 | 2.25 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 3 | 2.25 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 3 | 2.25 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 3 | 2.25 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 7 | 2.25 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 2 | 2.25 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 2 | 2.25 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 11 | 2.25 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 5 | 2.25 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 5 | 2.25 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 12 | 2.25 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 12 | 2.25 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 7 | 2.25 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 7 | 2.25 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 17 | 2.25 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 17 | 2.25 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 20 | 2.25 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 20 | 2.25 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 1 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 1 | 2.25 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 6 | 2.25 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 6 | 2.25 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 13 | 2.25 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 13 | 2.25 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 8 | 2.25 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 2 | 2.25 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 2 | 2.25 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 3 | 2.25 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 3 | 2.25 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 5 | 2.25 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 5 | 2.25 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 5 | 2.25 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 5 | 2.25 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 5 | 2.25 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 5 | 2.25 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 5 | 2.25 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 5 | 2.25 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 5 | 2.25 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 2.25 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 2.25 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 2.25 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 2.25 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 2.25 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 2.25 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 2.25 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 2.25 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 2.25 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 1 | 2.25 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 17 | 2.25 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 17 | 2.25 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 17 | 2.25 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 16 | 2.25 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 16 | 2.25 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 16 | 2.25 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 16 | 2.25 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 16 | 2.25 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 16 | 2.25 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 20 | 2.25 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 20 | 2.25 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 4 | 2.25 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 11 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 11 | 2.25 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 11 | 2.25 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 11 | 2.25 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 9 | 2.25 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 9 | 2.25 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 11 | 2.25 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 11 | 2.25 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 14 | 2.25 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 14 | 2.25 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 4 | 2.25 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 4 | 2.25 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 4 | 2.25 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 4 | 2.25 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 4 | 2.25 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 4 | 2.25 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 15 | 2.25 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 15 | 2.25 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 1 | 2.25 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 1 | 2.25 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 1 | 2.25 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 1 | 2.25 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 1 | 2.25 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 1 | 2.25 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 20 | 2.25 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 20 | 2.25 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 5 | 2.25 |
| (1,3527) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 5 | 2.25 |
| (1,3527) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 5 | 2.25 |
| (1,3444) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 2 | 2.25 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 2 | 2.25 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 2 | 2.25 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 2 | 2.25 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 10 | 2.25 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 10 | 2.25 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 10 | 2.25 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 4 | 2.25 |
| (1,3398) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 5 | 2.25 |
| (1,3396) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 12 | 2.25 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 18 | 2.25 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 3 | 2.25 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 12 | 2.25 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 15 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 15 | 2.25 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 2 | 2.25 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 2 | 2.25 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 14 | 2.25 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 14 | 2.25 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 12 | 2.25 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 12 | 2.25 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 13 | 2.25 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 13 | 2.25 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 7 | 2.25 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 3 | 2.25 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 3 | 2.25 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 3 | 2.25 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 2 | 2.25 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 2 | 2.25 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 12 | 2.25 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 12 | 2.25 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 3 | 2.25 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 11 | 2.25 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 10 | 2.25 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 10 | 2.25 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 10 | 2.25 |
| (1,2900) | 1:29:A:THR:HA | 1:29:A:THR:HB | 8 | 2.25 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 6 | 2.25 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 6 | 2.25 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 6 | 2.25 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 12 | 2.25 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 12 | 2.25 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 12 | 2.25 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 1 | 2.25 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 13 | 2.25 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 13 | 2.25 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 6 | 2.25 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 6 | 2.25 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 9 | 2.25 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 9 | 2.25 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 18 | 2.25 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 18 | 2.25 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 11 | 2.25 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 11 | 2.25 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 15 | 2.25 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 15 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 5 | 2.25 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 5 | 2.25 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 14 | 2.25 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 2 | 2.25 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 14 | 2.25 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 16 | 2.25 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 16 | 2.25 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 16 | 2.25 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 7 | 2.25 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 7 | 2.25 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 6 | 2.25 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 3 | 2.25 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 6 | 2.25 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 20 | 2.25 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 15 | 2.25 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 3 | 2.25 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 15 | 2.25 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 5 | 2.25 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 17 | 2.25 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 17 | 2.25 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 17 | 2.25 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 11 | 2.25 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 11 | 2.25 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 11 | 2.25 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 19 | 2.25 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 19 | 2.25 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 19 | 2.25 |
| (1,2124) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 2 | 2.25 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 13 | 2.25 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 13 | 2.25 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 13 | 2.25 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 12 | 2.25 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 5 | 2.25 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 13 | 2.25 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 13 | 2.25 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 13 | 2.25 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 12 | 2.25 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 1 | 2.25 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 11 | 2.25 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 17 | 2.25 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 6 | 2.25 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 6 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 10 | 2.25 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 10 | 2.25 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 10 | 2.25 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 10 | 2.25 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 10 | 2.25 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 10 | 2.25 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 10 | 2.25 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 10 | 2.25 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 10 | 2.25 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 18 | 2.25 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 18 | 2.25 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 18 | 2.25 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 5 | 2.25 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 5 | 2.25 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 5 | 2.25 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 14 | 2.25 |
| (1,1924) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 14 | 2.25 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 14 | 2.25 |
| (1,1924) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 14 | 2.25 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 14 | 2.25 |
| (1,1924) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 14 | 2.25 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 10 | 2.25 |
| (1,1822) | 1:144:A:GLY:H | 1:145:A:GLU:H | 16 | 2.25 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 7 | 2.25 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 7 | 2.25 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 7 | 2.25 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 7 | 2.25 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 5 | 2.25 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 4 | 2.25 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 4 | 2.25 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 4 | 2.25 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 2 | 2.25 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 2 | 2.25 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 4 | 2.25 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 4 | 2.25 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 14 | 2.25 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 14 | 2.25 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 19 | 2.25 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 2 | 2.25 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 2 | 2.25 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 14 | 2.25 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 14 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 11 | 2.25 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 11 | 2.25 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 5 | 2.25 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 4 | 2.25 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 14 | 2.25 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 17 | 2.25 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 17 | 2.25 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 17 | 2.25 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 11 | 2.25 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 11 | 2.25 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 7 | 2.25 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 7 | 2.25 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 8 | 2.25 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 16 | 2.25 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 4 | 2.25 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 4 | 2.25 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 4 | 2.25 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 4 | 2.25 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 4 | 2.25 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 4 | 2.25 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 13 | 2.25 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 18 | 2.25 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 18 | 2.25 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 18 | 2.25 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 18 | 2.25 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 18 | 2.25 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 18 | 2.25 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 14 | 2.25 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 5 | 2.25 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 5 | 2.25 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 5 | 2.25 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 6 | 2.25 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 6 | 2.25 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 6 | 2.25 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 17 | 2.25 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 17 | 2.25 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 17 | 2.25 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 9 | 2.25 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 9 | 2.25 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 9 | 2.25 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 1 | 2.25 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 1 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 1 | 2.25 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 14 | 2.25 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 14 | 2.25 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 9 | 2.25 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 9 | 2.25 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 9 | 2.25 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 2 | 2.25 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 7 | 2.25 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 9 | 2.25 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 14 | 2.25 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 9 | 2.25 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 4 | 2.25 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 4 | 2.25 |
| (1,892) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 4 | 2.25 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 4 | 2.25 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 4 | 2.25 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 4 | 2.25 |
| (1,848) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 3 | 2.25 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 5 | 2.25 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 17 | 2.25 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 18 | 2.25 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 14 | 2.25 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 14 | 2.25 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 9 | 2.25 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 1 | 2.25 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 17 | 2.25 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 8 | 2.25 |
| (1,686) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 10 | 2.25 |
| (1,686) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 10 | 2.25 |
| (1,686) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 10 | 2.25 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 12 | 2.25 |
| (1,532) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 12 | 2.25 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 19 | 2.25 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 19 | 2.25 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 19 | 2.25 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 19 | 2.25 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 19 | 2.25 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 19 | 2.25 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 16 | 2.25 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 16 | 2.25 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 16 | 2.25 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 11 | 2.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 15 | 2.25 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 1 | 2.25 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 1 | 2.25 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 1 | 2.25 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 4 | 2.25 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 4 | 2.25 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 4 | 2.25 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 13 | 2.25 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 13 | 2.25 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 13 | 2.25 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 13 | 2.25 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 13 | 2.25 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 13 | 2.25 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 19 | 2.25 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 19 | 2.25 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 7 | 2.25 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 7 | 2.25 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 7 | 2.25 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 3 | 2.25 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 3 | 2.25 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 3 | 2.25 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 14 | 2.25 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 5 | 2.24 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 15 | 2.24 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 14 | 2.24 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 13 | 2.24 |
| (4,96) | 1:15:A:MET:CB | 1:157:A:HIS:H | 15 | 2.24 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 9 | 2.24 |
| (3,852) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 18 | 2.24 |
| (3,852) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 18 | 2.24 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 10 | 2.24 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 10 | 2.24 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 14 | 2.24 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 14 | 2.24 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 3 | 2.24 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 3 | 2.24 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 13 | 2.24 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 13 | 2.24 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 15 | 2.24 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 15 | 2.24 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 18 | 2.24 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 18 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 1 | 2.24 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 1 | 2.24 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 3 | 2.24 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 3 | 2.24 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 6 | 2.24 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 6 | 2.24 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 20 | 2.24 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 20 | 2.24 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 4 | 2.24 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 4 | 2.24 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 5 | 2.24 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 5 | 2.24 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 16 | 2.24 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 16 | 2.24 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 20 | 2.24 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 20 | 2.24 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 5 | 2.24 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 5 | 2.24 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 5 | 2.24 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 5 | 2.24 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 15 | 2.24 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 15 | 2.24 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 9 | 2.24 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 9 | 2.24 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 15 | 2.24 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 15 | 2.24 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 15 | 2.24 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 15 | 2.24 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 6 | 2.24 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 6 | 2.24 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 10 | 2.24 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 10 | 2.24 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 3 | 2.24 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 3 | 2.24 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 15 | 2.24 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 15 | 2.24 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 15 | 2.24 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 15 | 2.24 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 15 | 2.24 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 15 | 2.24 |
| (1,8889) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 12 | 2.24 |
| (1,8889) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 12 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 2 | 2.24 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 2 | 2.24 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 2 | 2.24 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 2 | 2.24 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 18 | 2.24 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 18 | 2.24 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 3 | 2.24 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 3 | 2.24 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 2 | 2.24 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 2 | 2.24 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 2 | 2.24 |
| (1,8336) | 1:132:A:LYS:HD2 | 1:133:A:PRO:HD3 | 10 | 2.24 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 4 | 2.24 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 7 | 2.24 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 7 | 2.24 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 7 | 2.24 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 16 | 2.24 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 11 | 2.24 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 14 | 2.24 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 15 | 2.24 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 17 | 2.24 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 17 | 2.24 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 6 | 2.24 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 6 | 2.24 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 6 | 2.24 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 8 | 2.24 |
| (1,7663) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 11 | 2.24 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 6 | 2.24 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 4 | 2.24 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 9 | 2.24 |
| (1,7454) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 12 | 2.24 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 5 | 2.24 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 6 | 2.24 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 6 | 2.24 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 6 | 2.24 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD1 | 14 | 2.24 |
| (1,7341) | 1:89:A:ILE:HA | 1:92:A:TYR:HD2 | 14 | 2.24 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 18 | 2.24 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 8 | 2.24 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 8 | 2.24 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 8 | 2.24 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 12 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 12 | 2.24 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 14 | 2.24 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 20 | 2.24 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 20 | 2.24 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 20 | 2.24 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 17 | 2.24 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 17 | 2.24 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 1 | 2.24 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 14 | 2.24 |
| (1,6972) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 14 | 2.24 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 19 | 2.24 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 6 | 2.24 |
| (1,6842) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 13 | 2.24 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 17 | 2.24 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 9 | 2.24 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 9 | 2.24 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 19 | 2.24 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 19 | 2.24 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 11 | 2.24 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 5 | 2.24 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 5 | 2.24 |
| (1,6741) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 5 | 2.24 |
| (1,6727) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 12 | 2.24 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 6 | 2.24 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 6 | 2.24 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 20 | 2.24 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 20 | 2.24 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 12 | 2.24 |
| (1,6529) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 2 | 2.24 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 19 | 2.24 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 9 | 2.24 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 15 | 2.24 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 15 | 2.24 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 15 | 2.24 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 1 | 2.24 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 18 | 2.24 |
| (1,6387) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 13 | 2.24 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 3 | 2.24 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB2 | 15 | 2.24 |
| (1,6320) | 1:151:A:PHE:HA | 1:151:A:PHE:HB3 | 15 | 2.24 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 7 | 2.24 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 10 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 4 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 4 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 4 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 4 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 4 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 4 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 4 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 4 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 4 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 12 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 12 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 12 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 12 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 12 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 12 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 12 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 12 | 2.24 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 12 | 2.24 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 2 | 2.24 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 1 | 2.24 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 8 | 2.24 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 9 | 2.24 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 7 | 2.24 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 3 | 2.24 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 15 | 2.24 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 19 | 2.24 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 19 | 2.24 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 19 | 2.24 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 2 | 2.24 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 2 | 2.24 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 2 | 2.24 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 8 | 2.24 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 8 | 2.24 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 8 | 2.24 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 19 | 2.24 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 5 | 2.24 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 5 | 2.24 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 5 | 2.24 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 8 | 2.24 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 8 | 2.24 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 8 | 2.24 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 17 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 17 | 2.24 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 17 | 2.24 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 9 | 2.24 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 16 | 2.24 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 2 | 2.24 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 18 | 2.24 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 2 | 2.24 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 2 | 2.24 |
| (1,5903) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 2 | 2.24 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 2 | 2.24 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 2 | 2.24 |
| (1,5903) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 2 | 2.24 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 14 | 2.24 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 14 | 2.24 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 14 | 2.24 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 20 | 2.24 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 20 | 2.24 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 20 | 2.24 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 3 | 2.24 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 2 | 2.24 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 2 | 2.24 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 2 | 2.24 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 13 | 2.24 |
| (1,5813) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 13 | 2.24 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 14 | 2.24 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 2 | 2.24 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 17 | 2.24 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 7 | 2.24 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 7 | 2.24 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 15 | 2.24 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 15 | 2.24 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 17 | 2.24 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 17 | 2.24 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 15 | 2.24 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 15 | 2.24 |
| (1,5523) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 15 | 2.24 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 13 | 2.24 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 8 | 2.24 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 4 | 2.24 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 4 | 2.24 |
| (1,5387) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 4 | 2.24 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 4 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 4 | 2.24 |
| (1,5387) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 4 | 2.24 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 4 | 2.24 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 4 | 2.24 |
| (1,5387) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 4 | 2.24 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 7 | 2.24 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 7 | 2.24 |
| (1,5377) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 7 | 2.24 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 7 | 2.24 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 7 | 2.24 |
| (1,5377) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 7 | 2.24 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 7 | 2.24 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 7 | 2.24 |
| (1,5377) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 7 | 2.24 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 9 | 2.24 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 9 | 2.24 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 9 | 2.24 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 9 | 2.24 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 9 | 2.24 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 9 | 2.24 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 9 | 2.24 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 9 | 2.24 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 9 | 2.24 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 14 | 2.24 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 14 | 2.24 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 14 | 2.24 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 15 | 2.24 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 15 | 2.24 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 15 | 2.24 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 13 | 2.24 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 9 | 2.24 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 2 | 2.24 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 16 | 2.24 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 16 | 2.24 |
| (1,5013) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 16 | 2.24 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 2 | 2.24 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 6 | 2.24 |
| (1,4997) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 13 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 7 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 7 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 7 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 7 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 7 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 7 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 7 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 7 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 7 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 12 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 12 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 12 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 12 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 12 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 12 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 12 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 12 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 12 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 14 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 14 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 14 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 14 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 14 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 14 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 14 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 14 | 2.24 |
| (1,4874) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 14 | 2.24 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 12 | 2.24 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 5 | 2.24 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 5 | 2.24 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 5 | 2.24 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 5 | 2.24 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 17 | 2.24 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 11 | 2.24 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 3 | 2.24 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 14 | 2.24 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 14 | 2.24 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 2 | 2.24 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 2 | 2.24 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 2 | 2.24 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 2 | 2.24 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 2 | 2.24 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 2 | 2.24 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 3 | 2.24 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 3 | 2.24 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 6 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 6 | 2.24 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 6 | 2.24 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 6 | 2.24 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 6 | 2.24 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 6 | 2.24 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 13 | 2.24 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 13 | 2.24 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 13 | 2.24 |
| (1,4490) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 17 | 2.24 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 1 | 2.24 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 1 | 2.24 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 3 | 2.24 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 3 | 2.24 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 6 | 2.24 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 6 | 2.24 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 20 | 2.24 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 20 | 2.24 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 6 | 2.24 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 6 | 2.24 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 7 | 2.24 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 7 | 2.24 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 15 | 2.24 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 15 | 2.24 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 19 | 2.24 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 19 | 2.24 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 6 | 2.24 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 14 | 2.24 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 16 | 2.24 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 16 | 2.24 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 1 | 2.24 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 1 | 2.24 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 15 | 2.24 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 15 | 2.24 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 11 | 2.24 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 11 | 2.24 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 6 | 2.24 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 6 | 2.24 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 10 | 2.24 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 10 | 2.24 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 10 | 2.24 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 10 | 2.24 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 17 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 17 | 2.24 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 9 | 2.24 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 9 | 2.24 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 9 | 2.24 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 9 | 2.24 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 9 | 2.24 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 9 | 2.24 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 10 | 2.24 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 10 | 2.24 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 4 | 2.24 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 4 | 2.24 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 4 | 2.24 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 10 | 2.24 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 10 | 2.24 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 10 | 2.24 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 10 | 2.24 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 7 | 2.24 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 2.24 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 1 | 2.24 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 1 | 2.24 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 1 | 2.24 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 1 | 2.24 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 16 | 2.24 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 20 | 2.24 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 3 | 2.24 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 3 | 2.24 |
| (1,3509) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 14 | 2.24 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 18 | 2.24 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 18 | 2.24 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 18 | 2.24 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 9 | 2.24 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 10 | 2.24 |
| (1,3254) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 13 | 2.24 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 9 | 2.24 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 5 | 2.24 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 6 | 2.24 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 6 | 2.24 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 2 | 2.24 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 15 | 2.24 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 20 | 2.24 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 20 | 2.24 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 20 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 17 | 2.24 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 17 | 2.24 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 2 | 2.24 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 2 | 2.24 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 3 | 2.24 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 3 | 2.24 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 15 | 2.24 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 15 | 2.24 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 18 | 2.24 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 18 | 2.24 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 14 | 2.24 |
| (1,3004) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 14 | 2.24 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 19 | 2.24 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 1 | 2.24 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 1 | 2.24 |
| (1,2862) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 1 | 2.24 |
| (1,2826) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 13 | 2.24 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 15 | 2.24 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 17 | 2.24 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 19 | 2.24 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 19 | 2.24 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 19 | 2.24 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 19 | 2.24 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 17 | 2.24 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 17 | 2.24 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 9 | 2.24 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 9 | 2.24 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 19 | 2.24 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 19 | 2.24 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 5 | 2.24 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 5 | 2.24 |
| (1,2676) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 5 | 2.24 |
| (1,2660) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 12 | 2.24 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 3 | 2.24 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 1 | 2.24 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 1 | 2.24 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 12 | 2.24 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 12 | 2.24 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 6 | 2.24 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 6 | 2.24 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 6 | 2.24 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 20 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 20 | 2.24 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 13 | 2.24 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 13 | 2.24 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 13 | 2.24 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 14 | 2.24 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 2 | 2.24 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 20 | 2.24 |
| (1,2374) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 2 | 2.24 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 19 | 2.24 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 12 | 2.24 |
| (1,2324) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 8 | 2.24 |
| (1,2234) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 14 | 2.24 |
| (1,2234) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 14 | 2.24 |
| (1,2234) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 14 | 2.24 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 9 | 2.24 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 3 | 2.24 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 3 | 2.24 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 3 | 2.24 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 19 | 2.24 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 19 | 2.24 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 19 | 2.24 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 13 | 2.24 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 13 | 2.24 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 13 | 2.24 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 15 | 2.24 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 15 | 2.24 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 15 | 2.24 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 1 | 2.24 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 18 | 2.24 |
| (1,2090) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 13 | 2.24 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 4 | 2.24 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 4 | 2.24 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 4 | 2.24 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 13 | 2.24 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 13 | 2.24 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 13 | 2.24 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 18 | 2.24 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 18 | 2.24 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 18 | 2.24 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 3 | 2.24 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 9 | 2.24 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 7 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 10 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 4 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 4 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 4 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 4 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 4 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 4 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 4 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 4 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 4 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 12 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 12 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 12 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 12 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 12 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 12 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 12 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 12 | 2.24 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 12 | 2.24 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 5 | 2.24 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 8 | 2.24 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 8 | 2.24 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 8 | 2.24 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 20 | 2.24 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 20 | 2.24 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 20 | 2.24 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 2 | 2.24 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 15 | 2.24 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 11 | 2.24 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 9 | 2.24 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 7 | 2.24 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 11 | 2.24 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 11 | 2.24 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 11 | 2.24 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 16 | 2.24 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 16 | 2.24 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 16 | 2.24 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 19 | 2.24 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 19 | 2.24 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 19 | 2.24 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 7 | 2.24 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 7 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 2 | 2.24 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 2 | 2.24 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 2 | 2.24 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 8 | 2.24 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 8 | 2.24 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 8 | 2.24 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 19 | 2.24 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 5 | 2.24 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 5 | 2.24 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 5 | 2.24 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 5 | 2.24 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 5 | 2.24 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 5 | 2.24 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 5 | 2.24 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 5 | 2.24 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 5 | 2.24 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 5 | 2.24 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 5 | 2.24 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 5 | 2.24 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 8 | 2.24 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 8 | 2.24 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 8 | 2.24 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 17 | 2.24 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 17 | 2.24 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 17 | 2.24 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 16 | 2.24 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 9 | 2.24 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 16 | 2.24 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 14 | 2.24 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 14 | 2.24 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 14 | 2.24 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 2 | 2.24 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 2 | 2.24 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 15 | 2.24 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 15 | 2.24 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 6 | 2.24 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 10 | 2.24 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 2 | 2.24 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 18 | 2.24 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 3 | 2.24 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 3 | 2.24 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 12 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 7 | 2.24 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 7 | 2.24 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 10 | 2.24 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 10 | 2.24 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 18 | 2.24 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 11 | 2.24 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 2 | 2.24 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 2 | 2.24 |
| (1,1320) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 2 | 2.24 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 2 | 2.24 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 2 | 2.24 |
| (1,1320) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 2 | 2.24 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 14 | 2.24 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 14 | 2.24 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 14 | 2.24 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 20 | 2.24 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 20 | 2.24 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 20 | 2.24 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 3 | 2.24 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 2 | 2.24 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 2 | 2.24 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 2 | 2.24 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 13 | 2.24 |
| (1,1176) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 13 | 2.24 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 7 | 2.24 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 7 | 2.24 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 7 | 2.24 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 14 | 2.24 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 2 | 2.24 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 3 | 2.24 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 6 | 2.24 |
| (1,936) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 18 | 2.24 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 4 | 2.24 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 17 | 2.24 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 13 | 2.24 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 13 | 2.24 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 13 | 2.24 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 13 | 2.24 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 13 | 2.24 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 13 | 2.24 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 4 | 2.24 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 4 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 15 | 2.24 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 7 | 2.24 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 7 | 2.24 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 15 | 2.24 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 15 | 2.24 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 17 | 2.24 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 17 | 2.24 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 15 | 2.24 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 15 | 2.24 |
| (1,678) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 15 | 2.24 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 3 | 2.24 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 8 | 2.24 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 13 | 2.24 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 13 | 2.24 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 13 | 2.24 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 7 | 2.24 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 7 | 2.24 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 7 | 2.24 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 1 | 2.24 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 1 | 2.24 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 1 | 2.24 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 13 | 2.24 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 19 | 2.24 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 19 | 2.24 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 19 | 2.24 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 4 | 2.24 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 12 | 2.24 |
| (1,258) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 12 | 2.24 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 13 | 2.24 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 13 | 2.24 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 13 | 2.24 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 8 | 2.24 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 17 | 2.24 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 17 | 2.24 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 17 | 2.24 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 17 | 2.24 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 17 | 2.24 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 17 | 2.24 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 6 | 2.24 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 6 | 2.24 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 6 | 2.24 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 19 | 2.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 12 | 2.24 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 12 | 2.24 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 12 | 2.24 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 8 | 2.24 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 8 | 2.24 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 4 | 2.23 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 20 | 2.23 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 14 | 2.23 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 14 | 2.23 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 20 | 2.23 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 20 | 2.23 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 6 | 2.23 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 6 | 2.23 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 13 | 2.23 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 13 | 2.23 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 4 | 2.23 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 4 | 2.23 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 4 | 2.23 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 4 | 2.23 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 4 | 2.23 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 4 | 2.23 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 11 | 2.23 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 11 | 2.23 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 9 | 2.23 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 9 | 2.23 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 20 | 2.23 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 20 | 2.23 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 4 | 2.23 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 4 | 2.23 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 8 | 2.23 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 8 | 2.23 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 8 | 2.23 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 8 | 2.23 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 8 | 2.23 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 8 | 2.23 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 4 | 2.23 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 4 | 2.23 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 12 | 2.23 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 12 | 2.23 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 8 | 2.23 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 8 | 2.23 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 18 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 18 | 2.23 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 9 | 2.23 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 9 | 2.23 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 4 | 2.23 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 4 | 2.23 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 4 | 2.23 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 4 | 2.23 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 19 | 2.23 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 19 | 2.23 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 19 | 2.23 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 19 | 2.23 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 20 | 2.23 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 20 | 2.23 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 13 | 2.23 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 13 | 2.23 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 20 | 2.23 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 20 | 2.23 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 19 | 2.23 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 19 | 2.23 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 3 | 2.23 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 3 | 2.23 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 16 | 2.23 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 16 | 2.23 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 4 | 2.23 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 4 | 2.23 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 1 | 2.23 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 1 | 2.23 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 16 | 2.23 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 16 | 2.23 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 16 | 2.23 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 16 | 2.23 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 12 | 2.23 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 12 | 2.23 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 6 | 2.23 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 6 | 2.23 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 6 | 2.23 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 6 | 2.23 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 10 | 2.23 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 10 | 2.23 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 9 | 2.23 |
| (1,8714) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 9 | 2.23 |
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 9 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8714) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 9 | 2.23 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 7 | 2.23 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 7 | 2.23 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 9 | 2.23 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 9 | 2.23 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 11 | 2.23 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 11 | 2.23 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 11 | 2.23 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 11 | 2.23 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 14 | 2.23 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 14 | 2.23 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 16 | 2.23 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 16 | 2.23 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 20 | 2.23 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 20 | 2.23 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 20 | 2.23 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 20 | 2.23 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD2 | 12 | 2.23 |
| (1,8600) | 1:13:A:LYS:H | 1:13:A:LYS:HD3 | 12 | 2.23 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 19 | 2.23 |
| (1,7946) | 1:73:A:TRP:HE3 | 1:74:A:ARG:H | 20 | 2.23 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 15 | 2.23 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 15 | 2.23 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 15 | 2.23 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 15 | 2.23 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 18 | 2.23 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 15 | 2.23 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 19 | 2.23 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 19 | 2.23 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 19 | 2.23 |
| (1,7222) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 6 | 2.23 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 14 | 2.23 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 14 | 2.23 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 8 | 2.23 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 8 | 2.23 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 13 | 2.23 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 15 | 2.23 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 15 | 2.23 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 4 | 2.23 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 7 | 2.23 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 7 | 2.23 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 17 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 17 | 2.23 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 14 | 2.23 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 14 | 2.23 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 16 | 2.23 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 13 | 2.23 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 13 | 2.23 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 19 | 2.23 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 19 | 2.23 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 15 | 2.23 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 1 | 2.23 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 15 | 2.23 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 15 | 2.23 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 15 | 2.23 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 3 | 2.23 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 3 | 2.23 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 3 | 2.23 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 8 | 2.23 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 8 | 2.23 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 8 | 2.23 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 13 | 2.23 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 13 | 2.23 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 13 | 2.23 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 14 | 2.23 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 12 | 2.23 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 13 | 2.23 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 3 | 2.23 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 4 | 2.23 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 14 | 2.23 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 14 | 2.23 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 14 | 2.23 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 14 | 2.23 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 9 | 2.23 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 16 | 2.23 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 11 | 2.23 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 5 | 2.23 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 5 | 2.23 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 5 | 2.23 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 13 | 2.23 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 13 | 2.23 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 13 | 2.23 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 13 | 2.23 |
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 13 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6458) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 13 | 2.23 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 12 | 2.23 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 9 | 2.23 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 12 | 2.23 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 12 | 2.23 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 12 | 2.23 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 20 | 2.23 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 20 | 2.23 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 20 | 2.23 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 13 | 2.23 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 13 | 2.23 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 13 | 2.23 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 1 | 2.23 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 2 | 2.23 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 2 | 2.23 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 14 | 2.23 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 4 | 2.23 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 19 | 2.23 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 18 | 2.23 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 18 | 2.23 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 18 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 1 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 1 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 1 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 7 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 7 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 7 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 16 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 16 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 16 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 19 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 19 | 2.23 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 19 | 2.23 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 8 | 2.23 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 8 | 2.23 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 8 | 2.23 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 8 | 2.23 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 8 | 2.23 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 8 | 2.23 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 14 | 2.23 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 16 | 2.23 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 18 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 2 | 2.23 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 9 | 2.23 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 4 | 2.23 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 5 | 2.23 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 15 | 2.23 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 1 | 2.23 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 7 | 2.23 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 7 | 2.23 |
| (1,5874) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 7 | 2.23 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 10 | 2.23 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 10 | 2.23 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 17 | 2.23 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 17 | 2.23 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 17 | 2.23 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 13 | 2.23 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 13 | 2.23 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 13 | 2.23 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 14 | 2.23 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 14 | 2.23 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 14 | 2.23 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 6 | 2.23 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 6 | 2.23 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 14 | 2.23 |
| (1,5598) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 14 | 2.23 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 18 | 2.23 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 13 | 2.23 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 10 | 2.23 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 15 | 2.23 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 17 | 2.23 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 17 | 2.23 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 17 | 2.23 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 17 | 2.23 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 17 | 2.23 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 17 | 2.23 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 17 | 2.23 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 17 | 2.23 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 17 | 2.23 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 3 | 2.23 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 3 | 2.23 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 3 | 2.23 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 8 | 2.23 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 8 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 8 | 2.23 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 17 | 2.23 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 17 | 2.23 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 17 | 2.23 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 1 | 2.23 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 1 | 2.23 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 1 | 2.23 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 1 | 2.23 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 1 | 2.23 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 1 | 2.23 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 1 | 2.23 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 1 | 2.23 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 1 | 2.23 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 3 | 2.23 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 3 | 2.23 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 3 | 2.23 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 15 | 2.23 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 15 | 2.23 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 15 | 2.23 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD21 | 20 | 2.23 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD22 | 20 | 2.23 |
| (1,5248) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD23 | 20 | 2.23 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD11 | 5 | 2.23 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD12 | 5 | 2.23 |
| (1,5246) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HD13 | 5 | 2.23 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 10 | 2.23 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 12 | 2.23 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 3 | 2.23 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 3 | 2.23 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 3 | 2.23 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 4 | 2.23 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 9 | 2.23 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 9 | 2.23 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 9 | 2.23 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 14 | 2.23 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 15 | 2.23 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 6 | 2.23 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 18 | 2.23 |
| (1,4936) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 20 | 2.23 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 7 | 2.23 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 16 | 2.23 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 14 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 14 | 2.23 |
| (1,4691) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 14 | 2.23 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 10 | 2.23 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 10 | 2.23 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 10 | 2.23 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 10 | 2.23 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 3 | 2.23 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 11 | 2.23 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 17 | 2.23 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 17 | 2.23 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 14 | 2.23 |
| (1,4614) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 14 | 2.23 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 6 | 2.23 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 6 | 2.23 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 13 | 2.23 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 13 | 2.23 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 4 | 2.23 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 4 | 2.23 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 4 | 2.23 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 4 | 2.23 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 4 | 2.23 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 4 | 2.23 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 11 | 2.23 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 11 | 2.23 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 3 | 2.23 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 3 | 2.23 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 3 | 2.23 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 3 | 2.23 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 3 | 2.23 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 3 | 2.23 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 11 | 2.23 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 11 | 2.23 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 11 | 2.23 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 11 | 2.23 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 8 | 2.23 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 8 | 2.23 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 8 | 2.23 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 8 | 2.23 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 8 | 2.23 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 8 | 2.23 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 1 | 2.23 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 1 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 2 | 2.23 |
| (1,4356) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 2 | 2.23 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 2 | 2.23 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 15 | 2.23 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 19 | 2.23 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 19 | 2.23 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 19 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 7 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 7 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 11 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 11 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 13 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 13 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 14 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 14 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 18 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 18 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 20 | 2.23 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 20 | 2.23 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 16 | 2.23 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 2.23 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 11 | 2.23 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 11 | 2.23 |
| (1,4172) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 4 | 2.23 |
| (1,4172) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 4 | 2.23 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 11 | 2.23 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 11 | 2.23 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 5 | 2.23 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 5 | 2.23 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 5 | 2.23 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 5 | 2.23 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 5 | 2.23 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 5 | 2.23 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 19 | 2.23 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 19 | 2.23 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 19 | 2.23 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 19 | 2.23 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 19 | 2.23 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 19 | 2.23 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 3 | 2.23 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 3 | 2.23 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 16 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 16 | 2.23 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 10 | 2.23 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 10 | 2.23 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 4 | 2.23 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 4 | 2.23 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 6 | 2.23 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 5 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 1 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 1 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 1 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 1 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 4 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 4 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 4 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 4 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 10 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 10 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 10 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 10 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 11 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 11 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 11 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 11 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 12 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 12 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 12 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 12 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 14 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 14 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 14 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 14 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE21 | 15 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG2 | 1:66:A:GLN:HE22 | 15 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE21 | 15 | 2.23 |
| (1,3876) | 1:66:A:GLN:HG3 | 1:66:A:GLN:HE22 | 15 | 2.23 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 14 | 2.23 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 14 | 2.23 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 15 | 2.23 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 15 | 2.23 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 11 | 2.23 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 11 | 2.23 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 11 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 7 | 2.23 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 7 | 2.23 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 7 | 2.23 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 7 | 2.23 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 7 | 2.23 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 7 | 2.23 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 5 | 2.23 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 5 | 2.23 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 5 | 2.23 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 12 | 2.23 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 12 | 2.23 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 6 | 2.23 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 6 | 2.23 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE21 | 11 | 2.23 |
| (1,3688) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 11 | 2.23 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE21 | 11 | 2.23 |
| (1,3688) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 11 | 2.23 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 7 | 2.23 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 7 | 2.23 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 15 | 2.23 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 15 | 2.23 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 20 | 2.23 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 20 | 2.23 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 20 | 2.23 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 20 | 2.23 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 19 | 2.23 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 19 | 2.23 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 12 | 2.23 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 12 | 2.23 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 18 | 2.23 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 18 | 2.23 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 18 | 2.23 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 18 | 2.23 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 18 | 2.23 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 18 | 2.23 |
| (1,3545) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 14 | 2.23 |
| (1,3545) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 14 | 2.23 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 6 | 2.23 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 6 | 2.23 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 13 | 2.23 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 13 | 2.23 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 1 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 3 | 2.23 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 14 | 2.23 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 14 | 2.23 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 15 | 2.23 |
| (1,3243) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 8 | 2.23 |
| (1,3243) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 8 | 2.23 |
| (1,3243) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 8 | 2.23 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 1 | 2.23 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 1 | 2.23 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 8 | 2.23 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 8 | 2.23 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 15 | 2.23 |
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 15 | 2.23 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 16 | 2.23 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 13 | 2.23 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 13 | 2.23 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 19 | 2.23 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 19 | 2.23 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 15 | 2.23 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 15 | 2.23 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 15 | 2.23 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 15 | 2.23 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 15 | 2.23 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 3 | 2.23 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 3 | 2.23 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 3 | 2.23 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 8 | 2.23 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 8 | 2.23 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 8 | 2.23 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 13 | 2.23 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 13 | 2.23 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 13 | 2.23 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 3 | 2.23 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 14 | 2.23 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 12 | 2.23 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 1 | 2.23 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 1 | 2.23 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 1 | 2.23 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 1 | 2.23 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 1 | 2.23 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 1 | 2.23 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 3 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 3 | 2.23 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 9 | 2.23 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 2 | 2.23 |
| (1,2658) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 8 | 2.23 |
| (1,2640) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 18 | 2.23 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 4 | 2.23 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 14 | 2.23 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 14 | 2.23 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 14 | 2.23 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 14 | 2.23 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 9 | 2.23 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 11 | 2.23 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 5 | 2.23 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 5 | 2.23 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 5 | 2.23 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 5 | 2.23 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 13 | 2.23 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 13 | 2.23 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 13 | 2.23 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 16 | 2.23 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 13 | 2.23 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 13 | 2.23 |
| (1,2216) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 13 | 2.23 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 12 | 2.23 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 9 | 2.23 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 14 | 2.23 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 14 | 2.23 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 14 | 2.23 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 12 | 2.23 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 12 | 2.23 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 12 | 2.23 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 12 | 2.23 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 12 | 2.23 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 12 | 2.23 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 20 | 2.23 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 20 | 2.23 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 20 | 2.23 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 13 | 2.23 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 13 | 2.23 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 13 | 2.23 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 1 | 2.23 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 14 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 1 | 2.23 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 1 | 2.23 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 1 | 2.23 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 14 | 2.23 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 14 | 2.23 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 14 | 2.23 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 7 | 2.23 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 7 | 2.23 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 7 | 2.23 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 7 | 2.23 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 7 | 2.23 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 7 | 2.23 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 7 | 2.23 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 7 | 2.23 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 7 | 2.23 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 4 | 2.23 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 4 | 2.23 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 4 | 2.23 |
| (1,1874) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 16 | 2.23 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 4 | 2.23 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 19 | 2.23 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 1 | 2.23 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 1 | 2.23 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 1 | 2.23 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 1 | 2.23 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 1 | 2.23 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 1 | 2.23 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 18 | 2.23 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 18 | 2.23 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 18 | 2.23 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 8 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 1 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 1 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 1 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 7 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 7 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 7 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 16 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 16 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 16 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 19 | 2.23 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 19 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 19 | 2.23 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 8 | 2.23 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 8 | 2.23 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 8 | 2.23 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 8 | 2.23 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 8 | 2.23 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 8 | 2.23 |
| (1,1558) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 16 | 2.23 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 14 | 2.23 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 16 | 2.23 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 18 | 2.23 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 2 | 2.23 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 9 | 2.23 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 17 | 2.23 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 17 | 2.23 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 17 | 2.23 |
| (1,1414) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 9 | 2.23 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 18 | 2.23 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 18 | 2.23 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 4 | 2.23 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 5 | 2.23 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 15 | 2.23 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 1 | 2.23 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 7 | 2.23 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 7 | 2.23 |
| (1,1280) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 7 | 2.23 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 3 | 2.23 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 14 | 2.23 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 14 | 2.23 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 17 | 2.23 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 17 | 2.23 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 17 | 2.23 |
| (1,1055) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 1 | 2.23 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 5 | 2.23 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 19 | 2.23 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 19 | 2.23 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 19 | 2.23 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 19 | 2.23 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 19 | 2.23 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 19 | 2.23 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 19 | 2.23 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 19 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 19 | 2.23 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 6 | 2.23 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 6 | 2.23 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 14 | 2.23 |
| (1,778) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 14 | 2.23 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 6 | 2.23 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 4 | 2.23 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 20 | 2.23 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 18 | 2.23 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 16 | 2.23 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 2.23 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 11 | 2.23 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 18 | 2.23 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 14 | 2.23 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 2.23 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 2.23 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 2.23 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 11 | 2.23 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 11 | 2.23 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 11 | 2.23 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 11 | 2.23 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 11 | 2.23 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 11 | 2.23 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 6 | 2.23 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 6 | 2.23 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 6 | 2.23 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 2 | 2.23 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 2 | 2.23 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 2 | 2.23 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 4 | 2.23 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 4 | 2.23 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 4 | 2.23 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 4 | 2.23 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 4 | 2.23 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 4 | 2.23 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 10 | 2.23 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 10 | 2.23 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 10 | 2.23 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 17 | 2.23 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 17 | 2.23 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 17 | 2.23 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 11 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 11 | 2.23 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 11 | 2.23 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 11 | 2.23 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 11 | 2.23 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 11 | 2.23 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 11 | 2.23 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 11 | 2.23 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 11 | 2.23 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 1 | 2.23 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 19 | 2.23 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 18 | 2.23 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 18 | 2.23 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 18 | 2.23 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 14 | 2.23 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 6 | 2.23 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 6 | 2.23 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 6 | 2.23 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 17 | 2.23 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 6 | 2.23 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 6 | 2.23 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 6 | 2.23 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 7 | 2.23 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 17 | 2.23 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 1 | 2.23 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 1 | 2.23 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 1 | 2.23 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 12 | 2.23 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 12 | 2.23 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 12 | 2.23 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 13 | 2.23 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 13 | 2.23 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 13 | 2.23 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 5 | 2.23 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 5 | 2.23 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 5 | 2.23 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 8 | 2.23 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 8 | 2.23 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 8 | 2.23 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 5 | 2.23 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 5 | 2.23 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 5 | 2.23 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 16 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 7 | 2.22 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 19 | 2.22 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 13 | 2.22 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 13 | 2.22 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 13 | 2.22 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 13 | 2.22 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 13 | 2.22 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 13 | 2.22 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 13 | 2.22 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 13 | 2.22 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 13 | 2.22 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 17 | 2.22 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 17 | 2.22 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 2 | 2.22 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 2 | 2.22 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 12 | 2.22 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 12 | 2.22 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 4 | 2.22 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 4 | 2.22 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 4 | 2.22 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 4 | 2.22 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 2 | 2.22 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 2 | 2.22 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 2 | 2.22 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 2 | 2.22 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 18 | 2.22 |
| (1,9395) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 18 | 2.22 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 17 | 2.22 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 17 | 2.22 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 17 | 2.22 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 17 | 2.22 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 1 | 2.22 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 1 | 2.22 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 1 | 2.22 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 1 | 2.22 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 2 | 2.22 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 2 | 2.22 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 16 | 2.22 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 16 | 2.22 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 10 | 2.22 |
| (1,9202) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 10 | 2.22 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 3 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 3 | 2.22 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 6 | 2.22 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 6 | 2.22 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 18 | 2.22 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 18 | 2.22 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 12 | 2.22 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 12 | 2.22 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 12 | 2.22 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 12 | 2.22 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 13 | 2.22 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 13 | 2.22 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 13 | 2.22 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 13 | 2.22 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 1 | 2.22 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 1 | 2.22 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 20 | 2.22 |
| (1,8960) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 20 | 2.22 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 17 | 2.22 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 17 | 2.22 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 3 | 2.22 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 3 | 2.22 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 8 | 2.22 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 8 | 2.22 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 18 | 2.22 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 18 | 2.22 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 4 | 2.22 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 4 | 2.22 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 2 | 2.22 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 2 | 2.22 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 2 | 2.22 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 2 | 2.22 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 2 | 2.22 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 2 | 2.22 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 15 | 2.22 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 15 | 2.22 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 3 | 2.22 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 3 | 2.22 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 3 | 2.22 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 3 | 2.22 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 8 | 2.22 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 8 | 2.22 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 8 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 8 | 2.22 |
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 12 | 2.22 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 12 | 2.22 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 4 | 2.22 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 4 | 2.22 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 4 | 2.22 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 4 | 2.22 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 8 | 2.22 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 8 | 2.22 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 11 | 2.22 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 11 | 2.22 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 16 | 2.22 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 16 | 2.22 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 12 | 2.22 |
| (1,8582) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 12 | 2.22 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 12 | 2.22 |
| (1,8582) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 12 | 2.22 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 12 | 2.22 |
| (1,8582) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 12 | 2.22 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 1 | 2.22 |
| (1,8556) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 1 | 2.22 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 6 | 2.22 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 6 | 2.22 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 17 | 2.22 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 17 | 2.22 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 17 | 2.22 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 9 | 2.22 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 1 | 2.22 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 1 | 2.22 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 1 | 2.22 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 13 | 2.22 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 13 | 2.22 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 13 | 2.22 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 13 | 2.22 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 13 | 2.22 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 13 | 2.22 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 1 | 2.22 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 1 | 2.22 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 19 | 2.22 |
| (1,8232) | 1:113:A:CYS:H | 1:114:A:SER:H | 20 | 2.22 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 20 | 2.22 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG21 | 5 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG22 | 5 | 2.22 |
| (1,7973) | 1:77:A:LYS:HD2 | 1:79:A:THR:HG23 | 5 | 2.22 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG21 | 5 | 2.22 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG22 | 5 | 2.22 |
| (1,7973) | 1:77:A:LYS:HD3 | 1:79:A:THR:HG23 | 5 | 2.22 |
| (1,7877) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 13 | 2.22 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE1 | 2 | 2.22 |
| (1,7790) | 1:58:A:SER:HB2 | 1:103:A:PHE:HE2 | 2 | 2.22 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE1 | 2 | 2.22 |
| (1,7790) | 1:58:A:SER:HB3 | 1:103:A:PHE:HE2 | 2 | 2.22 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 16 | 2.22 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 16 | 2.22 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 16 | 2.22 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 16 | 2.22 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 16 | 2.22 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 16 | 2.22 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 15 | 2.22 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 15 | 2.22 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 3 | 2.22 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 20 | 2.22 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 18 | 2.22 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 18 | 2.22 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 9 | 2.22 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 9 | 2.22 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 20 | 2.22 |
| (1,6966) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 13 | 2.22 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 20 | 2.22 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 20 | 2.22 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 20 | 2.22 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 20 | 2.22 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 5 | 2.22 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 19 | 2.22 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 20 | 2.22 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 4 | 2.22 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 4 | 2.22 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 4 | 2.22 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 4 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 12 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 12 | 2.22 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 12 | 2.22 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 2 | 2.22 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 9 | 2.22 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 16 | 2.22 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 18 | 2.22 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 9 | 2.22 |
| (1,6721) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 14 | 2.22 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 20 | 2.22 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 20 | 2.22 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 20 | 2.22 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 20 | 2.22 |
| (1,6594) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 1 | 2.22 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 3 | 2.22 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 6 | 2.22 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 1 | 2.22 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 13 | 2.22 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 13 | 2.22 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 13 | 2.22 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 11 | 2.22 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 4 | 2.22 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 4 | 2.22 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 4 | 2.22 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 8 | 2.22 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 8 | 2.22 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 8 | 2.22 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 20 | 2.22 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 7 | 2.22 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 13 | 2.22 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 19 | 2.22 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 20 | 2.22 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 20 | 2.22 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 20 | 2.22 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 20 | 2.22 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 20 | 2.22 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 20 | 2.22 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 20 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 20 | 2.22 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 20 | 2.22 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 6 | 2.22 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 11 | 2.22 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 4 | 2.22 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 4 | 2.22 |
| (1,6253) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 4 | 2.22 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 4 | 2.22 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 4 | 2.22 |
| (1,6253) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 4 | 2.22 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 4 | 2.22 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 4 | 2.22 |
| (1,6253) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 4 | 2.22 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 19 | 2.22 |
| (1,6126) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 8 | 2.22 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 1 | 2.22 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 1 | 2.22 |
| (1,6102) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 1 | 2.22 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 1 | 2.22 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 1 | 2.22 |
| (1,6102) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 1 | 2.22 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 1 | 2.22 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 1 | 2.22 |
| (1,6102) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 1 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 9 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 9 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 9 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 10 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 10 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 10 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 15 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 15 | 2.22 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 15 | 2.22 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 8 | 2.22 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 16 | 2.22 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 16 | 2.22 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 16 | 2.22 |
| (1,5896) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 17 | 2.22 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 7 | 2.22 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 19 | 2.22 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 5 | 2.22 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 5 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 5 | 2.22 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 6 | 2.22 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 6 | 2.22 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 6 | 2.22 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 8 | 2.22 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 6 | 2.22 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 10 | 2.22 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 11 | 2.22 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 20 | 2.22 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 20 | 2.22 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 15 | 2.22 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 15 | 2.22 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 15 | 2.22 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 15 | 2.22 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 15 | 2.22 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 15 | 2.22 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 15 | 2.22 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 15 | 2.22 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 15 | 2.22 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 14 | 2.22 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 2 | 2.22 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 2 | 2.22 |
| (1,5361) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 2 | 2.22 |
| (1,5294) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 18 | 2.22 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 3 | 2.22 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 3 | 2.22 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 3 | 2.22 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 3 | 2.22 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 3 | 2.22 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 3 | 2.22 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 3 | 2.22 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 3 | 2.22 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 3 | 2.22 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 1 | 2.22 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 5 | 2.22 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 3 | 2.22 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 3 | 2.22 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 3 | 2.22 |
| (1,5175) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 15 | 2.22 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 14 | 2.22 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 11 | 2.22 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 16 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 10 | 2.22 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 4 | 2.22 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 14 | 2.22 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 4 | 2.22 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 9 | 2.22 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 3 | 2.22 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 3 | 2.22 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 11 | 2.22 |
| (1,4766) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 8 | 2.22 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 4 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 14 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 14 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 14 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 14 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 14 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 14 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 17 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 17 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 17 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 17 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 17 | 2.22 |
| (1,4683) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 17 | 2.22 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 2 | 2.22 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 17 | 2.22 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 18 | 2.22 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 18 | 2.22 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 6 | 2.22 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 4 | 2.22 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 6 | 2.22 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 20 | 2.22 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 20 | 2.22 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 13 | 2.22 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 13 | 2.22 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 13 | 2.22 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 13 | 2.22 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 13 | 2.22 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 13 | 2.22 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 1 | 2.22 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 1 | 2.22 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 1 | 2.22 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 1 | 2.22 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 1 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 1 | 2.22 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 11 | 2.22 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 17 | 2.22 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 17 | 2.22 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 12 | 2.22 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 12 | 2.22 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 2 | 2.22 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 2 | 2.22 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 12 | 2.22 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 12 | 2.22 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 11 | 2.22 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 11 | 2.22 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 11 | 2.22 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 11 | 2.22 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 11 | 2.22 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 11 | 2.22 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 13 | 2.22 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 13 | 2.22 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 13 | 2.22 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 13 | 2.22 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 11 | 2.22 |
| (1,4299) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 11 | 2.22 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 20 | 2.22 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 20 | 2.22 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 20 | 2.22 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 20 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 1 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 1 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 8 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 8 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 10 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 10 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 15 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 15 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 17 | 2.22 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 17 | 2.22 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 15 | 2.22 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 15 | 2.22 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 15 | 2.22 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 8 | 2.22 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 8 | 2.22 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 12 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 12 | 2.22 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 17 | 2.22 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 17 | 2.22 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 19 | 2.22 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 19 | 2.22 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 10 | 2.22 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 10 | 2.22 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 10 | 2.22 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 10 | 2.22 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 10 | 2.22 |
| (1,4190) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 10 | 2.22 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 15 | 2.22 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 15 | 2.22 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 20 | 2.22 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 20 | 2.22 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 20 | 2.22 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 20 | 2.22 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 20 | 2.22 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 20 | 2.22 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 1 | 2.22 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 1 | 2.22 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 20 | 2.22 |
| (1,3936) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 20 | 2.22 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 18 | 2.22 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 4 | 2.22 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 4 | 2.22 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 15 | 2.22 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 10 | 2.22 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 2 | 2.22 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 2 | 2.22 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 2 | 2.22 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 2 | 2.22 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 2 | 2.22 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 2 | 2.22 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 9 | 2.22 |
| (1,3612) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 2 | 2.22 |
| (1,3612) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 2 | 2.22 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 16 | 2.22 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 16 | 2.22 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 12 | 2.22 |
| (1,3532) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 12 | 2.22 |
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 12 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3532) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 12 | 2.22 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 12 | 2.22 |
| (1,3532) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 12 | 2.22 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 1 | 2.22 |
| (1,3520) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 1 | 2.22 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 15 | 2.22 |
| (1,3402) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 19 | 2.22 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 9 | 2.22 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 14 | 2.22 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 15 | 2.22 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 6 | 2.22 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 6 | 2.22 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 10 | 2.22 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 10 | 2.22 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 18 | 2.22 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 18 | 2.22 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 15 | 2.22 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 15 | 2.22 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 20 | 2.22 |
| (1,3140) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 20 | 2.22 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 6 | 2.22 |
| (1,2996) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 13 | 2.22 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 7 | 2.22 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 18 | 2.22 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 18 | 2.22 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 18 | 2.22 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 20 | 2.22 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 20 | 2.22 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 20 | 2.22 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 4 | 2.22 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 20 | 2.22 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 5 | 2.22 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 8 | 2.22 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 17 | 2.22 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 19 | 2.22 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 20 | 2.22 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 13 | 2.22 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 13 | 2.22 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 13 | 2.22 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 13 | 2.22 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 13 | 2.22 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 13 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 4 | 2.22 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 4 | 2.22 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 4 | 2.22 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 4 | 2.22 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 1 | 2.22 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 1 | 2.22 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 1 | 2.22 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 1 | 2.22 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 1 | 2.22 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 1 | 2.22 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 2 | 2.22 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 16 | 2.22 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 14 | 2.22 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 18 | 2.22 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 9 | 2.22 |
| (1,2648) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 14 | 2.22 |
| (1,2646) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 4 | 2.22 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 8 | 2.22 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 8 | 2.22 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 8 | 2.22 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 8 | 2.22 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 17 | 2.22 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 17 | 2.22 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 20 | 2.22 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 20 | 2.22 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 20 | 2.22 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 20 | 2.22 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 11 | 2.22 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 12 | 2.22 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 20 | 2.22 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 20 | 2.22 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 20 | 2.22 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 1 | 2.22 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 13 | 2.22 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 13 | 2.22 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 13 | 2.22 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 11 | 2.22 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 4 | 2.22 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 4 | 2.22 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 4 | 2.22 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 16 | 2.22 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 16 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 16 | 2.22 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 8 | 2.22 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 8 | 2.22 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 8 | 2.22 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 20 | 2.22 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 7 | 2.22 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 20 | 2.22 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 20 | 2.22 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 5 | 2.22 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 5 | 2.22 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 5 | 2.22 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 4 | 2.22 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 5 | 2.22 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 18 | 2.22 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 13 | 2.22 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 19 | 2.22 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 20 | 2.22 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 20 | 2.22 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 20 | 2.22 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 20 | 2.22 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 20 | 2.22 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 20 | 2.22 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 20 | 2.22 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 20 | 2.22 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 20 | 2.22 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 14 | 2.22 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 14 | 2.22 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 14 | 2.22 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 14 | 2.22 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 14 | 2.22 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 14 | 2.22 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 14 | 2.22 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 14 | 2.22 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 14 | 2.22 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 5 | 2.22 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 5 | 2.22 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 5 | 2.22 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 6 | 2.22 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 5 | 2.22 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 5 | 2.22 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 5 | 2.22 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 4 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 4 | 2.22 |
| (1,1906) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 4 | 2.22 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 4 | 2.22 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 4 | 2.22 |
| (1,1906) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 4 | 2.22 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 4 | 2.22 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 4 | 2.22 |
| (1,1906) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 4 | 2.22 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 8 | 2.22 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 17 | 2.22 |
| (1,1716) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 8 | 2.22 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 1 | 2.22 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 1 | 2.22 |
| (1,1674) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 1 | 2.22 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 1 | 2.22 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 1 | 2.22 |
| (1,1674) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 1 | 2.22 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 1 | 2.22 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 1 | 2.22 |
| (1,1674) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 1 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 9 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 9 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 9 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 10 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 10 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 10 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 15 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 15 | 2.22 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 15 | 2.22 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 8 | 2.22 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 7 | 2.22 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 11 | 2.22 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 3 | 2.22 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 3 | 2.22 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 3 | 2.22 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 7 | 2.22 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 7 | 2.22 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 7 | 2.22 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 4 | 2.22 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 4 | 2.22 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 19 | 2.22 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 19 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 16 | 2.22 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 16 | 2.22 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 16 | 2.22 |
| (1,1310) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 17 | 2.22 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 5 | 2.22 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 7 | 2.22 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 19 | 2.22 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 5 | 2.22 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 5 | 2.22 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 5 | 2.22 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 6 | 2.22 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 6 | 2.22 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 6 | 2.22 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 3 | 2.22 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 3 | 2.22 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 3 | 2.22 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 18 | 2.22 |
| (1,855) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 12 | 2.22 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 19 | 2.22 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 8 | 2.22 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 6 | 2.22 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 10 | 2.22 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 11 | 2.22 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 6 | 2.22 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 15 | 2.22 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 15 | 2.22 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 15 | 2.22 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 15 | 2.22 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 15 | 2.22 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 15 | 2.22 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 15 | 2.22 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 15 | 2.22 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 15 | 2.22 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 14 | 2.22 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 10 | 2.22 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 10 | 2.22 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 10 | 2.22 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 11 | 2.22 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 11 | 2.22 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 11 | 2.22 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 17 | 2.22 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 1 | 2.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 16 | 2.22 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 16 | 2.22 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 16 | 2.22 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 18 | 2.22 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 14 | 2.22 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 16 | 2.22 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 16 | 2.22 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 16 | 2.22 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 14 | 2.22 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 14 | 2.22 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 14 | 2.22 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 11 | 2.22 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 11 | 2.22 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 13 | 2.21 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 9 | 2.21 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 18 | 2.21 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 11 | 2.21 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 1 | 2.21 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 1 | 2.21 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 7 | 2.21 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 7 | 2.21 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 2 | 2.21 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 2 | 2.21 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 4 | 2.21 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 4 | 2.21 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 12 | 2.21 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 12 | 2.21 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 18 | 2.21 |
| (1,9556) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 18 | 2.21 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 6 | 2.21 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 6 | 2.21 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 9 | 2.21 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 9 | 2.21 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 11 | 2.21 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 11 | 2.21 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 5 | 2.21 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 5 | 2.21 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 3 | 2.21 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 3 | 2.21 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 19 | 2.21 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 19 | 2.21 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 2 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 2 | 2.21 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 7 | 2.21 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 7 | 2.21 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 16 | 2.21 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 16 | 2.21 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 10 | 2.21 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 10 | 2.21 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 11 | 2.21 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 11 | 2.21 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 17 | 2.21 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 17 | 2.21 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 11 | 2.21 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 11 | 2.21 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 13 | 2.21 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 13 | 2.21 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 13 | 2.21 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 13 | 2.21 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 13 | 2.21 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 13 | 2.21 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 2 | 2.21 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 2 | 2.21 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 7 | 2.21 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 7 | 2.21 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 19 | 2.21 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 19 | 2.21 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 3 | 2.21 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 3 | 2.21 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 3 | 2.21 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 3 | 2.21 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 5 | 2.21 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 5 | 2.21 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 4 | 2.21 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 4 | 2.21 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 13 | 2.21 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 13 | 2.21 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 5 | 2.21 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 5 | 2.21 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 5 | 2.21 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 5 | 2.21 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 19 | 2.21 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 19 | 2.21 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 10 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 10 | 2.21 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 10 | 2.21 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 10 | 2.21 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 10 | 2.21 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 10 | 2.21 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 12 | 2.21 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 12 | 2.21 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 8 | 2.21 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 8 | 2.21 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 8 | 2.21 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 8 | 2.21 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 14 | 2.21 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 14 | 2.21 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 14 | 2.21 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 14 | 2.21 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 16 | 2.21 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 16 | 2.21 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 16 | 2.21 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 1 | 2.21 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 1 | 2.21 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 1 | 2.21 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 4 | 2.21 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 13 | 2.21 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 14 | 2.21 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 7 | 2.21 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 14 | 2.21 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 4 | 2.21 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 4 | 2.21 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 8 | 2.21 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 8 | 2.21 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 8 | 2.21 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 8 | 2.21 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 8 | 2.21 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 8 | 2.21 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 8 | 2.21 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 8 | 2.21 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 8 | 2.21 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 4 | 2.21 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE2 | 20 | 2.21 |
| (1,8007) | 1:82:A:LYS:HA | 1:82:A:LYS:HE3 | 20 | 2.21 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 8 | 2.21 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 12 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 14 | 2.21 |
| (1,7474) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 20 | 2.21 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 11 | 2.21 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 19 | 2.21 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 19 | 2.21 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 19 | 2.21 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 19 | 2.21 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 19 | 2.21 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 19 | 2.21 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 4 | 2.21 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 4 | 2.21 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 9 | 2.21 |
| (1,7244) | 1:24:A:TYR:H | 1:33:A:GLN:H | 15 | 2.21 |
| (1,7226) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 2 | 2.21 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 18 | 2.21 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 2 | 2.21 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 2 | 2.21 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 13 | 2.21 |
| (1,7070) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 13 | 2.21 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 19 | 2.21 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 19 | 2.21 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 12 | 2.21 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 12 | 2.21 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 10 | 2.21 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 12 | 2.21 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 14 | 2.21 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 6 | 2.21 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 6 | 2.21 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 6 | 2.21 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 7 | 2.21 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 7 | 2.21 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 7 | 2.21 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 6 | 2.21 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 6 | 2.21 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 6 | 2.21 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 9 | 2.21 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 9 | 2.21 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 9 | 2.21 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 11 | 2.21 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 11 | 2.21 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 11 | 2.21 |
| (1,6856) | 1:27:A:HIS:H | 1:28:A:ILE:H | 1 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 1 | 2.21 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 15 | 2.21 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 16 | 2.21 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 16 | 2.21 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 16 | 2.21 |
| (1,6659) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 4 | 2.21 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 15 | 2.21 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 15 | 2.21 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 15 | 2.21 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 15 | 2.21 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 2 | 2.21 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 8 | 2.21 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 12 | 2.21 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 9 | 2.21 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 10 | 2.21 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 17 | 2.21 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 17 | 2.21 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 17 | 2.21 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 6 | 2.21 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 14 | 2.21 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 6 | 2.21 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 17 | 2.21 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 9 | 2.21 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 9 | 2.21 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 9 | 2.21 |
| (1,6431) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 20 | 2.21 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 16 | 2.21 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 16 | 2.21 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 16 | 2.21 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 16 | 2.21 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 16 | 2.21 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 16 | 2.21 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 16 | 2.21 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 16 | 2.21 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 16 | 2.21 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 4 | 2.21 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 5 | 2.21 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 9 | 2.21 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 12 | 2.21 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 12 | 2.21 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 12 | 2.21 |
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 1 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 18 | 2.21 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 20 | 2.21 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 1 | 2.21 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 11 | 2.21 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 15 | 2.21 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 17 | 2.21 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 13 | 2.21 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 13 | 2.21 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 5 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 11 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 11 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 11 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 13 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 13 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 13 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 18 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 18 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 18 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 20 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 20 | 2.21 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 20 | 2.21 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 7 | 2.21 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 17 | 2.21 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 17 | 2.21 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 18 | 2.21 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 1 | 2.21 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 1 | 2.21 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 1 | 2.21 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 10 | 2.21 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 10 | 2.21 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 10 | 2.21 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 8 | 2.21 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 8 | 2.21 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 8 | 2.21 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 8 | 2.21 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 8 | 2.21 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 8 | 2.21 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 8 | 2.21 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 8 | 2.21 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 8 | 2.21 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 10 | 2.21 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 10 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 10 | 2.21 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 3 | 2.21 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 3 | 2.21 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 3 | 2.21 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 11 | 2.21 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 4 | 2.21 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 3 | 2.21 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 3 | 2.21 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 3 | 2.21 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 3 | 2.21 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 3 | 2.21 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 3 | 2.21 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 5 | 2.21 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 5 | 2.21 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 5 | 2.21 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 7 | 2.21 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 7 | 2.21 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 6 | 2.21 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 20 | 2.21 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 9 | 2.21 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 1 | 2.21 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 1 | 2.21 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 1 | 2.21 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 5 | 2.21 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 5 | 2.21 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 5 | 2.21 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 7 | 2.21 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 15 | 2.21 |
| (1,5166) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 2 | 2.21 |
| (1,5150) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 3 | 2.21 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 19 | 2.21 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 8 | 2.21 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 19 | 2.21 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 18 | 2.21 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 18 | 2.21 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 18 | 2.21 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 18 | 2.21 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 18 | 2.21 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 18 | 2.21 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 18 | 2.21 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 18 | 2.21 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 18 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 11 | 2.21 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 11 | 2.21 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 11 | 2.21 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 11 | 2.21 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 11 | 2.21 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 11 | 2.21 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 11 | 2.21 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 11 | 2.21 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 11 | 2.21 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 15 | 2.21 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 15 | 2.21 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 15 | 2.21 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 15 | 2.21 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 15 | 2.21 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 15 | 2.21 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 15 | 2.21 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 15 | 2.21 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 15 | 2.21 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 18 | 2.21 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 9 | 2.21 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 12 | 2.21 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 14 | 2.21 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 2 | 2.21 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 2 | 2.21 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 1 | 2.21 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 1 | 2.21 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 7 | 2.21 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 7 | 2.21 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 17 | 2.21 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 6 | 2.21 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 6 | 2.21 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 9 | 2.21 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 9 | 2.21 |
| (1,4499) | 1:138:A:SER:HB2 | 1:141:A:LEU:H | 8 | 2.21 |
| (1,4499) | 1:138:A:SER:HB3 | 1:141:A:LEU:H | 8 | 2.21 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 17 | 2.21 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 17 | 2.21 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 17 | 2.21 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 17 | 2.21 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 9 | 2.21 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 9 | 2.21 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 11 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 11 | 2.21 |
| (1,4442) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 12 | 2.21 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 10 | 2.21 |
| (1,4410) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 10 | 2.21 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 9 | 2.21 |
| (1,4344) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 18 | 2.21 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 15 | 2.21 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 3 | 2.21 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 3 | 2.21 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 6 | 2.21 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 6 | 2.21 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 16 | 2.21 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 16 | 2.21 |
| (1,4242) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 18 | 2.21 |
| (1,4242) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 18 | 2.21 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 5 | 2.21 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 5 | 2.21 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 5 | 2.21 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 15 | 2.21 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 15 | 2.21 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 15 | 2.21 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 4 | 2.21 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 4 | 2.21 |
| (1,4183) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 13 | 2.21 |
| (1,4181) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 13 | 2.21 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 12 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 3 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 3 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 3 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 3 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 3 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 3 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 16 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 16 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 16 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 16 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 16 | 2.21 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 16 | 2.21 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 14 | 2.21 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 14 | 2.21 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 14 | 2.21 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 13 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 13 | 2.21 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 13 | 2.21 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 13 | 2.21 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 13 | 2.21 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 13 | 2.21 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 10 | 2.21 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 10 | 2.21 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 2 | 2.21 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 2 | 2.21 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 19 | 2.21 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 19 | 2.21 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 12 | 2.21 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 12 | 2.21 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 12 | 2.21 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 12 | 2.21 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 12 | 2.21 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 12 | 2.21 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 19 | 2.21 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 16 | 2.21 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 16 | 2.21 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 4 | 2.21 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 4 | 2.21 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 9 | 2.21 |
| (1,3833) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 12 | 2.21 |
| (1,3833) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 12 | 2.21 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 7 | 2.21 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 7 | 2.21 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 6 | 2.21 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 8 | 2.21 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 8 | 2.21 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 1 | 2.21 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 19 | 2.21 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 19 | 2.21 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 2.21 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 19 | 2.21 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 19 | 2.21 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 19 | 2.21 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 19 | 2.21 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 19 | 2.21 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 19 | 2.21 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 3 | 2.21 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 5 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 5 | 2.21 |
| (1,3446) | 1:24:A:TYR:H | 1:33:A:GLN:H | 15 | 2.21 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 3 | 2.21 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 3 | 2.21 |
| (1,3425) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 3 | 2.21 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 18 | 2.21 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 18 | 2.21 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 18 | 2.21 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 1 | 2.21 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 1 | 2.21 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 10 | 2.21 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 7 | 2.21 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 7 | 2.21 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 11 | 2.21 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 11 | 2.21 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 14 | 2.21 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 14 | 2.21 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 2 | 2.21 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 2 | 2.21 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 1 | 2.21 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 1 | 2.21 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 17 | 2.21 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 17 | 2.21 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 17 | 2.21 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 17 | 2.21 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 17 | 2.21 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 4 | 2.21 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 4 | 2.21 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 4 | 2.21 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 18 | 2.21 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 13 | 2.21 |
| (1,3128) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 13 | 2.21 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 9 | 2.21 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 12 | 2.21 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 12 | 2.21 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 1 | 2.21 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 1 | 2.21 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 6 | 2.21 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 6 | 2.21 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 6 | 2.21 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 7 | 2.21 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 7 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 7 | 2.21 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 12 | 2.21 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 12 | 2.21 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 12 | 2.21 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 9 | 2.21 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 9 | 2.21 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 9 | 2.21 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 11 | 2.21 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 11 | 2.21 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 11 | 2.21 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 11 | 2.21 |
| (1,2846) | 1:27:A:HIS:H | 1:28:A:ILE:H | 1 | 2.21 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 1 | 2.21 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 1 | 2.21 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 7 | 2.21 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 7 | 2.21 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 5 | 2.21 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 15 | 2.21 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 14 | 2.21 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 14 | 2.21 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 9 | 2.21 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 9 | 2.21 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 15 | 2.21 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 20 | 2.21 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 20 | 2.21 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 20 | 2.21 |
| (1,2544) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 4 | 2.21 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 15 | 2.21 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 15 | 2.21 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 15 | 2.21 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 15 | 2.21 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 15 | 2.21 |
| (1,2486) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 19 | 2.21 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 5 | 2.21 |
| (1,2410) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 18 | 2.21 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 9 | 2.21 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 10 | 2.21 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 17 | 2.21 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 17 | 2.21 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 17 | 2.21 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 6 | 2.21 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 14 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 2 | 2.21 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 16 | 2.21 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 6 | 2.21 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 17 | 2.21 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 9 | 2.21 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 9 | 2.21 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 9 | 2.21 |
| (1,2162) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 20 | 2.21 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 17 | 2.21 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 17 | 2.21 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 17 | 2.21 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 7 | 2.21 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 7 | 2.21 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 7 | 2.21 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 14 | 2.21 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 14 | 2.21 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 14 | 2.21 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 16 | 2.21 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 16 | 2.21 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 16 | 2.21 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 16 | 2.21 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 16 | 2.21 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 16 | 2.21 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 16 | 2.21 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 16 | 2.21 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 16 | 2.21 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 3 | 2.21 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 3 | 2.21 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 3 | 2.21 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 4 | 2.21 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 5 | 2.21 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 9 | 2.21 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 12 | 2.21 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 12 | 2.21 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 12 | 2.21 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 1 | 2.21 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 7 | 2.21 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 7 | 2.21 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 7 | 2.21 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 12 | 2.21 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 12 | 2.21 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 12 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 19 | 2.21 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 19 | 2.21 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 19 | 2.21 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 20 | 2.21 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 1 | 2.21 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 11 | 2.21 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 15 | 2.21 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 17 | 2.21 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 13 | 2.21 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 13 | 2.21 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 19 | 2.21 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 5 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 11 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 11 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 11 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 13 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 13 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 13 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 18 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 18 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 18 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 20 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 20 | 2.21 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 20 | 2.21 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 15 | 2.21 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 7 | 2.21 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 10 | 2.21 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 1 | 2.21 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 3 | 2.21 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 3 | 2.21 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 5 | 2.21 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 5 | 2.21 |
| (1,1402) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 3 | 2.21 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 17 | 2.21 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 13 | 2.21 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 3 | 2.21 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 18 | 2.21 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 1 | 2.21 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 1 | 2.21 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 1 | 2.21 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 10 | 2.21 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 10 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 10 | 2.21 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 8 | 2.21 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 8 | 2.21 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 8 | 2.21 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 8 | 2.21 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 8 | 2.21 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 8 | 2.21 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 8 | 2.21 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 8 | 2.21 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 8 | 2.21 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 10 | 2.21 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 10 | 2.21 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 10 | 2.21 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 3 | 2.21 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 3 | 2.21 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 3 | 2.21 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 11 | 2.21 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 16 | 2.21 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 16 | 2.21 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 14 | 2.21 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 12 | 2.21 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 5 | 2.21 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 5 | 2.21 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 5 | 2.21 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 5 | 2.21 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 5 | 2.21 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 5 | 2.21 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 1 | 2.21 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 4 | 2.21 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 4 | 2.21 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 3 | 2.21 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 3 | 2.21 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 3 | 2.21 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 20 | 2.21 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 4 | 2.21 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 10 | 2.21 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 10 | 2.21 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 10 | 2.21 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 15 | 2.21 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 15 | 2.21 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 15 | 2.21 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 15 | 2.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 15 | 2.21 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 15 | 2.21 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 9 | 2.21 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 13 | 2.21 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 9 | 2.21 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 9 | 2.21 |
| (1,386) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 9 | 2.21 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 18 | 2.21 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 7 | 2.21 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 4 | 2.21 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 4 | 2.21 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 4 | 2.21 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 16 | 2.21 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 16 | 2.21 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 16 | 2.21 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 17 | 2.21 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 13 | 2.21 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 13 | 2.21 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 13 | 2.21 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 20 | 2.21 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 20 | 2.21 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 20 | 2.21 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 7 | 2.21 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 2 | 2.21 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 12 | 2.21 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 1 | 2.2 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 19 | 2.2 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 19 | 2.2 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 10 | 2.2 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 10 | 2.2 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 6 | 2.2 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 6 | 2.2 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 7 | 2.2 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 7 | 2.2 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 18 | 2.2 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 18 | 2.2 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 5 | 2.2 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 5 | 2.2 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 17 | 2.2 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 17 | 2.2 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 17 | 2.2 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 17 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 17 | 2.2 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 17 | 2.2 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 4 | 2.2 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 4 | 2.2 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 15 | 2.2 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 15 | 2.2 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 8 | 2.2 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 8 | 2.2 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 9 | 2.2 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 9 | 2.2 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 15 | 2.2 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 15 | 2.2 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 17 | 2.2 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 17 | 2.2 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 12 | 2.2 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 12 | 2.2 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 15 | 2.2 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 15 | 2.2 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 2 | 2.2 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 2 | 2.2 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 2 | 2.2 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 2 | 2.2 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 6 | 2.2 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 6 | 2.2 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 15 | 2.2 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 15 | 2.2 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 9 | 2.2 |
| (1,8927) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 9 | 2.2 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 19 | 2.2 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 19 | 2.2 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 19 | 2.2 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 19 | 2.2 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 5 | 2.2 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 5 | 2.2 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 5 | 2.2 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 5 | 2.2 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 5 | 2.2 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 5 | 2.2 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 13 | 2.2 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 13 | 2.2 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 13 | 2.2 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 13 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 16 | 2.2 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 16 | 2.2 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 16 | 2.2 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 16 | 2.2 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 16 | 2.2 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 16 | 2.2 |
| (1,8682) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 14 | 2.2 |
| (1,8682) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 14 | 2.2 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 12 | 2.2 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 12 | 2.2 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 12 | 2.2 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 12 | 2.2 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 20 | 2.2 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 20 | 2.2 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 20 | 2.2 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 20 | 2.2 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 19 | 2.2 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 5 | 2.2 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 18 | 2.2 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 18 | 2.2 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 16 | 2.2 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 12 | 2.2 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 17 | 2.2 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 3 | 2.2 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 20 | 2.2 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 14 | 2.2 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 17 | 2.2 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 14 | 2.2 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 14 | 2.2 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 9 | 2.2 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD11 | 13 | 2.2 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD12 | 13 | 2.2 |
| (1,7369) | 1:106:A:LEU:HA | 1:106:A:LEU:HD13 | 13 | 2.2 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 9 | 2.2 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 4 | 2.2 |
| (1,7165) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 4 | 2.2 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 20 | 2.2 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 20 | 2.2 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 20 | 2.2 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 6 | 2.2 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 6 | 2.2 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 10 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 10 | 2.2 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 19 | 2.2 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 19 | 2.2 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 3 | 2.2 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 3 | 2.2 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 13 | 2.2 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 14 | 2.2 |
| (1,6986) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 18 | 2.2 |
| (1,6986) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 18 | 2.2 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 8 | 2.2 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 17 | 2.2 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 2 | 2.2 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 4 | 2.2 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 3 | 2.2 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 3 | 2.2 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 3 | 2.2 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 15 | 2.2 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 15 | 2.2 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 15 | 2.2 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 6 | 2.2 |
| (1,6834) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 8 | 2.2 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 15 | 2.2 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 18 | 2.2 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 7 | 2.2 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 10 | 2.2 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 17 | 2.2 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 17 | 2.2 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 17 | 2.2 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 17 | 2.2 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 10 | 2.2 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 16 | 2.2 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 16 | 2.2 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 1 | 2.2 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 17 | 2.2 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 16 | 2.2 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 7 | 2.2 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 7 | 2.2 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 7 | 2.2 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 13 | 2.2 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 8 | 2.2 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 20 | 2.2 |
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 16 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6314) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 16 | 2.2 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 8 | 2.2 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 8 | 2.2 |
| (1,6304) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 8 | 2.2 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 8 | 2.2 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 8 | 2.2 |
| (1,6304) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 8 | 2.2 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 8 | 2.2 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 8 | 2.2 |
| (1,6304) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 8 | 2.2 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 7 | 2.2 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 14 | 2.2 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 9 | 2.2 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 9 | 2.2 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 12 | 2.2 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 12 | 2.2 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 14 | 2.2 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 13 | 2.2 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 13 | 2.2 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 13 | 2.2 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 12 | 2.2 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 12 | 2.2 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 12 | 2.2 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 12 | 2.2 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 6 | 2.2 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 14 | 2.2 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 14 | 2.2 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 14 | 2.2 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 20 | 2.2 |
| (1,6076) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 20 | 2.2 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 10 | 2.2 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 9 | 2.2 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 9 | 2.2 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 9 | 2.2 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 9 | 2.2 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 9 | 2.2 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 9 | 2.2 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 12 | 2.2 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 8 | 2.2 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 16 | 2.2 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 20 | 2.2 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 1 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 5 | 2.2 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 12 | 2.2 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 15 | 2.2 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 13 | 2.2 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 13 | 2.2 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 13 | 2.2 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 6 | 2.2 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 12 | 2.2 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 15 | 2.2 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 8 | 2.2 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 8 | 2.2 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 8 | 2.2 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 5 | 2.2 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 16 | 2.2 |
| (1,5802) | 1:116:A:ALA:H | 1:117:A:LYS:H | 19 | 2.2 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 13 | 2.2 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 13 | 2.2 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 2 | 2.2 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 2 | 2.2 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 2 | 2.2 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 16 | 2.2 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 16 | 2.2 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 1 | 2.2 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 1 | 2.2 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 1 | 2.2 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 1 | 2.2 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 1 | 2.2 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 1 | 2.2 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 1 | 2.2 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 1 | 2.2 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 1 | 2.2 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 13 | 2.2 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 10 | 2.2 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 10 | 2.2 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 10 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 15 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 15 | 2.2 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 15 | 2.2 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 5 | 2.2 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 19 | 2.2 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 19 | 2.2 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 19 | 2.2 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 9 | 2.2 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 9 | 2.2 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 9 | 2.2 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 6 | 2.2 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 18 | 2.2 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 19 | 2.2 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 15 | 2.2 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 13 | 2.2 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 7 | 2.2 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 6 | 2.2 |
| (1,5144) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 14 | 2.2 |
| (1,5144) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 14 | 2.2 |
| (1,5144) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 14 | 2.2 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 6 | 2.2 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 1 | 2.2 |
| (1,5001) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 19 | 2.2 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 13 | 2.2 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 18 | 2.2 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 19 | 2.2 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 3 | 2.2 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 3 | 2.2 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 3 | 2.2 |
| (1,4802) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 17 | 2.2 |
| (1,4770) | 1:58:A:SER:H | 1:160:A:LEU:H | 15 | 2.2 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 6 | 2.2 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 4 | 2.2 |
| (1,4612) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 9 | 2.2 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 16 | 2.2 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 16 | 2.2 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 10 | 2.2 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 10 | 2.2 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 6 | 2.2 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 6 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 11 | 2.2 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 1 | 2.2 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 19 | 2.2 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 19 | 2.2 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 19 | 2.2 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 2 | 2.2 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 2 | 2.2 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 2 | 2.2 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 2 | 2.2 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 2 | 2.2 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 2 | 2.2 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 18 | 2.2 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 18 | 2.2 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 5 | 2.2 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 5 | 2.2 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 7 | 2.2 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 12 | 2.2 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 12 | 2.2 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 17 | 2.2 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 17 | 2.2 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 17 | 2.2 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 17 | 2.2 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 17 | 2.2 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 17 | 2.2 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 2 | 2.2 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 2 | 2.2 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 6 | 2.2 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 6 | 2.2 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 10 | 2.2 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 5 | 2.2 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 5 | 2.2 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 5 | 2.2 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 5 | 2.2 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 18 | 2.2 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 18 | 2.2 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 18 | 2.2 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 18 | 2.2 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 15 | 2.2 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 1 | 2.2 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 1 | 2.2 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 1 | 2.2 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 1 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 9 | 2.2 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 9 | 2.2 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 9 | 2.2 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 9 | 2.2 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 9 | 2.2 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 9 | 2.2 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 15 | 2.2 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 15 | 2.2 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 15 | 2.2 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 15 | 2.2 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 15 | 2.2 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 15 | 2.2 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 15 | 2.2 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 15 | 2.2 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 15 | 2.2 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 1 | 2.2 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 1 | 2.2 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 1 | 2.2 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 20 | 2.2 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 20 | 2.2 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 8 | 2.2 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 8 | 2.2 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 9 | 2.2 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 9 | 2.2 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 15 | 2.2 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 15 | 2.2 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 17 | 2.2 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 17 | 2.2 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 2 | 2.2 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 2 | 2.2 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 2 | 2.2 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 2 | 2.2 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 3 | 2.2 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 9 | 2.2 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 19 | 2.2 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 6 | 2.2 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 6 | 2.2 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 5 | 2.2 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 5 | 2.2 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 5 | 2.2 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 13 | 2.2 |
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 9 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3892) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 9 | 2.2 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 9 | 2.2 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 9 | 2.2 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 20 | 2.2 |
| (1,3864) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 20 | 2.2 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 2.2 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 2.2 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 2.2 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 10 | 2.2 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 1 | 2.2 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 13 | 2.2 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB2 | 18 | 2.2 |
| (1,3597) | 1:23:A:TYR:HD1 | 1:32:A:SER:HB3 | 18 | 2.2 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB2 | 18 | 2.2 |
| (1,3597) | 1:23:A:TYR:HD2 | 1:32:A:SER:HB3 | 18 | 2.2 |
| (1,3580) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 18 | 2.2 |
| (1,3580) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 18 | 2.2 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 13 | 2.2 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 13 | 2.2 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 13 | 2.2 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 13 | 2.2 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 5 | 2.2 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 5 | 2.2 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 5 | 2.2 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 4 | 2.2 |
| (1,3280) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 4 | 2.2 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 4 | 2.2 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 4 | 2.2 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 4 | 2.2 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 4 | 2.2 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 4 | 2.2 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 4 | 2.2 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 2 | 2.2 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 18 | 2.2 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 18 | 2.2 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 10 | 2.2 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 14 | 2.2 |
| (1,3024) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 18 | 2.2 |
| (1,3024) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 18 | 2.2 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 7 | 2.2 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 7 | 2.2 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 2 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 6 | 2.2 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 3 | 2.2 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 3 | 2.2 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 3 | 2.2 |
| (1,2909) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 8 | 2.2 |
| (1,2909) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 8 | 2.2 |
| (1,2909) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 8 | 2.2 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 15 | 2.2 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 15 | 2.2 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 15 | 2.2 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 7 | 2.2 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 7 | 2.2 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 7 | 2.2 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 6 | 2.2 |
| (1,2818) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 8 | 2.2 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 15 | 2.2 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 18 | 2.2 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 11 | 2.2 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 11 | 2.2 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 13 | 2.2 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 13 | 2.2 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 1 | 2.2 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 1 | 2.2 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 17 | 2.2 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 17 | 2.2 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 13 | 2.2 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 13 | 2.2 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 19 | 2.2 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 7 | 2.2 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 10 | 2.2 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 12 | 2.2 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 4 | 2.2 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 4 | 2.2 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 4 | 2.2 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 7 | 2.2 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 7 | 2.2 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 7 | 2.2 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 7 | 2.2 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 7 | 2.2 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 7 | 2.2 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 17 | 2.2 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 17 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 17 | 2.2 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 17 | 2.2 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 15 | 2.2 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 13 | 2.2 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 16 | 2.2 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 12 | 2.2 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 12 | 2.2 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 12 | 2.2 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 16 | 2.2 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 4 | 2.2 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 11 | 2.2 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 3 | 2.2 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 17 | 2.2 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 19 | 2.2 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 16 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 1 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 1 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 1 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 8 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 8 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 8 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 13 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 13 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 13 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 20 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 20 | 2.2 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 20 | 2.2 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 1 | 2.2 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 1 | 2.2 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 1 | 2.2 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 7 | 2.2 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 7 | 2.2 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 7 | 2.2 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 13 | 2.2 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 1 | 2.2 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 11 | 2.2 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 11 | 2.2 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 11 | 2.2 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 15 | 2.2 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 2 | 2.2 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 8 | 2.2 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 20 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 16 | 2.2 |
| (1,1986) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 16 | 2.2 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 8 | 2.2 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 8 | 2.2 |
| (1,1976) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 8 | 2.2 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 8 | 2.2 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 8 | 2.2 |
| (1,1976) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 8 | 2.2 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 8 | 2.2 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 8 | 2.2 |
| (1,1976) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 8 | 2.2 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 4 | 2.2 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 4 | 2.2 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 4 | 2.2 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 8 | 2.2 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 7 | 2.2 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 7 | 2.2 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 7 | 2.2 |
| (1,1892) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 9 | 2.2 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 14 | 2.2 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 12 | 2.2 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 12 | 2.2 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 12 | 2.2 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 3 | 2.2 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 17 | 2.2 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 6 | 2.2 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 4 | 2.2 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 4 | 2.2 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 4 | 2.2 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 2 | 2.2 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 2 | 2.2 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 2 | 2.2 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 4 | 2.2 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 4 | 2.2 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 4 | 2.2 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 4 | 2.2 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 4 | 2.2 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 4 | 2.2 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 4 | 2.2 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 14 | 2.2 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 14 | 2.2 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 14 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB2 | 20 | 2.2 |
| (1,1646) | 1:136:A:ASP:H | 1:136:A:ASP:HB3 | 20 | 2.2 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 10 | 2.2 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 12 | 2.2 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 9 | 2.2 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 9 | 2.2 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 9 | 2.2 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 9 | 2.2 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 9 | 2.2 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 9 | 2.2 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 19 | 2.2 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 12 | 2.2 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 6 | 2.2 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 8 | 2.2 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 16 | 2.2 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 20 | 2.2 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 9 | 2.2 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 19 | 2.2 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 1 | 2.2 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 1 | 2.2 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 13 | 2.2 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 13 | 2.2 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 14 | 2.2 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 14 | 2.2 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 20 | 2.2 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 20 | 2.2 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 10 | 2.2 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 13 | 2.2 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 1 | 2.2 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 1 | 2.2 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 4 | 2.2 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 4 | 2.2 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 1 | 2.2 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 5 | 2.2 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 12 | 2.2 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 15 | 2.2 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 13 | 2.2 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 13 | 2.2 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 13 | 2.2 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 6 | 2.2 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 12 | 2.2 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 15 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 8 | 2.2 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 8 | 2.2 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 8 | 2.2 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 5 | 2.2 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 3 | 2.2 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 16 | 2.2 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 16 | 2.2 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 8 | 2.2 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 8 | 2.2 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 8 | 2.2 |
| (1,1160) | 1:116:A:ALA:H | 1:117:A:LYS:H | 19 | 2.2 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 13 | 2.2 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 13 | 2.2 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 1 | 2.2 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 15 | 2.2 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 15 | 2.2 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 15 | 2.2 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 2 | 2.2 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 2 | 2.2 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 2 | 2.2 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 14 | 2.2 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 14 | 2.2 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 14 | 2.2 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 19 | 2.2 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 19 | 2.2 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 19 | 2.2 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 5 | 2.2 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 11 | 2.2 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 18 | 2.2 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 18 | 2.2 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 18 | 2.2 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 3 | 2.2 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 16 | 2.2 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 1 | 2.2 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 1 | 2.2 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 1 | 2.2 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 1 | 2.2 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 1 | 2.2 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 1 | 2.2 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 1 | 2.2 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 1 | 2.2 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 1 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 15 | 2.2 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 15 | 2.2 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 16 | 2.2 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 16 | 2.2 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 16 | 2.2 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 7 | 2.2 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 13 | 2.2 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 10 | 2.2 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 10 | 2.2 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 10 | 2.2 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 13 | 2.2 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 13 | 2.2 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 13 | 2.2 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 13 | 2.2 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 13 | 2.2 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 13 | 2.2 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 5 | 2.2 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 5 | 2.2 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 5 | 2.2 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 5 | 2.2 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 5 | 2.2 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 5 | 2.2 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 5 | 2.2 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 5 | 2.2 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 5 | 2.2 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 14 | 2.2 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 14 | 2.2 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 14 | 2.2 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 20 | 2.2 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 20 | 2.2 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 20 | 2.2 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 15 | 2.2 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 15 | 2.2 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 15 | 2.2 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 16 | 2.2 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 16 | 2.2 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 16 | 2.2 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 19 | 2.2 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 10 | 2.2 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 12 | 2.2 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 12 | 2.2 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 12 | 2.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,103) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 2 | 2.2 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 12 | 2.2 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 12 | 2.2 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 12 | 2.2 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 1 | 2.2 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 11 | 2.2 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 11 | 2.2 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 11 | 2.2 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 8 | 2.19 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 6 | 2.19 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 13 | 2.19 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 13 | 2.19 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 20 | 2.19 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 20 | 2.19 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 20 | 2.19 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 6 | 2.19 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 6 | 2.19 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 16 | 2.19 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 16 | 2.19 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 17 | 2.19 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 17 | 2.19 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 17 | 2.19 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 17 | 2.19 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 12 | 2.19 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 12 | 2.19 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 8 | 2.19 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 8 | 2.19 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 8 | 2.19 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 8 | 2.19 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 8 | 2.19 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 8 | 2.19 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 16 | 2.19 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 16 | 2.19 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 8 | 2.19 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 8 | 2.19 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 8 | 2.19 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 8 | 2.19 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 15 | 2.19 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 15 | 2.19 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 12 | 2.19 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 12 | 2.19 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 12 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 12 | 2.19 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 9 | 2.19 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 9 | 2.19 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 20 | 2.19 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 20 | 2.19 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 3 | 2.19 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 3 | 2.19 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 3 | 2.19 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 3 | 2.19 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 11 | 2.19 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 11 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 2 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 2 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 4 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 4 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 5 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 5 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 8 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 8 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 9 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 9 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 14 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 14 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 16 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 16 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 17 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 17 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 19 | 2.19 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 19 | 2.19 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 8 | 2.19 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 8 | 2.19 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 8 | 2.19 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 8 | 2.19 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 6 | 2.19 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 6 | 2.19 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 1 | 2.19 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 1 | 2.19 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 11 | 2.19 |
| (1,9175) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 11 | 2.19 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 7 | 2.19 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 7 | 2.19 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 7 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 7 | 2.19 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 7 | 2.19 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 7 | 2.19 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 18 | 2.19 |
| (1,9105) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 18 | 2.19 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 6 | 2.19 |
| (1,9060) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 6 | 2.19 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 15 | 2.19 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 15 | 2.19 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 4 | 2.19 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 4 | 2.19 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 9 | 2.19 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 9 | 2.19 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 11 | 2.19 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 11 | 2.19 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 19 | 2.19 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 19 | 2.19 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 16 | 2.19 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 16 | 2.19 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 16 | 2.19 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 16 | 2.19 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 16 | 2.19 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 16 | 2.19 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 16 | 2.19 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 16 | 2.19 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 16 | 2.19 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 16 | 2.19 |
| (1,8838) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 4 | 2.19 |
| (1,8838) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 4 | 2.19 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 3 | 2.19 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 3 | 2.19 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 10 | 2.19 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 10 | 2.19 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 13 | 2.19 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 13 | 2.19 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 14 | 2.19 |
| (1,8764) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 14 | 2.19 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 14 | 2.19 |
| (1,8764) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 14 | 2.19 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 14 | 2.19 |
| (1,8764) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 14 | 2.19 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 10 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 10 | 2.19 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 10 | 2.19 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 10 | 2.19 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 6 | 2.19 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 6 | 2.19 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 6 | 2.19 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 6 | 2.19 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 1 | 2.19 |
| (1,8647) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 1 | 2.19 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 6 | 2.19 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 6 | 2.19 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 20 | 2.19 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 20 | 2.19 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 19 | 2.19 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 19 | 2.19 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 19 | 2.19 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 14 | 2.19 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 1 | 2.19 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 12 | 2.19 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 19 | 2.19 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 19 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 4 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 4 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 16 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 16 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 17 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 17 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 18 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 18 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 20 | 2.19 |
| (1,7052) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 20 | 2.19 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 4 | 2.19 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 4 | 2.19 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 10 | 2.19 |
| (1,7048) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 10 | 2.19 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 18 | 2.19 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 18 | 2.19 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 12 | 2.19 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 17 | 2.19 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 7 | 2.19 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 17 | 2.19 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 17 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 17 | 2.19 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 12 | 2.19 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 11 | 2.19 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 11 | 2.19 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 11 | 2.19 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 20 | 2.19 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 5 | 2.19 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 7 | 2.19 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 9 | 2.19 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 2 | 2.19 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 4 | 2.19 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 11 | 2.19 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 8 | 2.19 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 8 | 2.19 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 9 | 2.19 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 19 | 2.19 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 6 | 2.19 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 5 | 2.19 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 4 | 2.19 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 14 | 2.19 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 19 | 2.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 9 | 2.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 9 | 2.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 9 | 2.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 18 | 2.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 18 | 2.19 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 18 | 2.19 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 13 | 2.19 |
| (1,6505) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 3 | 2.19 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 10 | 2.19 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 9 | 2.19 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 9 | 2.19 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 9 | 2.19 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 3 | 2.19 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 19 | 2.19 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 19 | 2.19 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 19 | 2.19 |
| (1,6369) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 14 | 2.19 |
| (1,6369) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 14 | 2.19 |
| (1,6369) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 14 | 2.19 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 2 | 2.19 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 18 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 18 | 2.19 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 20 | 2.19 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 20 | 2.19 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 5 | 2.19 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 5 | 2.19 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 5 | 2.19 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 5 | 2.19 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 5 | 2.19 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 5 | 2.19 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 5 | 2.19 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 5 | 2.19 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 5 | 2.19 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 3 | 2.19 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 14 | 2.19 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 6 | 2.19 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 8 | 2.19 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 8 | 2.19 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 8 | 2.19 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 19 | 2.19 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 8 | 2.19 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 2 | 2.19 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 2 | 2.19 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 2 | 2.19 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 2 | 2.19 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 2 | 2.19 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 6 | 2.19 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 6 | 2.19 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 6 | 2.19 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 19 | 2.19 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 4 | 2.19 |
| (1,5989) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 11 | 2.19 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 19 | 2.19 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 3 | 2.19 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 3 | 2.19 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 9 | 2.19 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 11 | 2.19 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 19 | 2.19 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 5 | 2.19 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 5 | 2.19 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 5 | 2.19 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 2 | 2.19 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 2 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 2 | 2.19 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 8 | 2.19 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 8 | 2.19 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 8 | 2.19 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 14 | 2.19 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 18 | 2.19 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 4 | 2.19 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 4 | 2.19 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 4 | 2.19 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 15 | 2.19 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 6 | 2.19 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 6 | 2.19 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 6 | 2.19 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 6 | 2.19 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 6 | 2.19 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 6 | 2.19 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 6 | 2.19 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 6 | 2.19 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 6 | 2.19 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 16 | 2.19 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 4 | 2.19 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 16 | 2.19 |
| (1,5395) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 18 | 2.19 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 16 | 2.19 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 9 | 2.19 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 9 | 2.19 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 9 | 2.19 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 14 | 2.19 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 14 | 2.19 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 14 | 2.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 16 | 2.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 16 | 2.19 |
| (1,5140) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 16 | 2.19 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 12 | 2.19 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 12 | 2.19 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 12 | 2.19 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 2 | 2.19 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 9 | 2.19 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 8 | 2.19 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 15 | 2.19 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 8 | 2.19 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 9 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 7 | 2.19 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 1 | 2.19 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 19 | 2.19 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 16 | 2.19 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 18 | 2.19 |
| (1,4731) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 4 | 2.19 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 8 | 2.19 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 15 | 2.19 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 15 | 2.19 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 15 | 2.19 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 15 | 2.19 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 13 | 2.19 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 12 | 2.19 |
| (1,4669) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 12 | 2.19 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 17 | 2.19 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 17 | 2.19 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 17 | 2.19 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 15 | 2.19 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 6 | 2.19 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 6 | 2.19 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 16 | 2.19 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 16 | 2.19 |
| (1,4589) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 3 | 2.19 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 5 | 2.19 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 5 | 2.19 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 5 | 2.19 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 11 | 2.19 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 11 | 2.19 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 11 | 2.19 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 15 | 2.19 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 15 | 2.19 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 3 | 2.19 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 3 | 2.19 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 3 | 2.19 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 3 | 2.19 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 10 | 2.19 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 10 | 2.19 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 15 | 2.19 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 7 | 2.19 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 7 | 2.19 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 7 | 2.19 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 7 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 7 | 2.19 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 7 | 2.19 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 7 | 2.19 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 7 | 2.19 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 7 | 2.19 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 7 | 2.19 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 12 | 2.19 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 12 | 2.19 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 12 | 2.19 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 7 | 2.19 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 7 | 2.19 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 7 | 2.19 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 7 | 2.19 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 7 | 2.19 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 7 | 2.19 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 20 | 2.19 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 20 | 2.19 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 20 | 2.19 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 20 | 2.19 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 20 | 2.19 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 20 | 2.19 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 18 | 2.19 |
| (1,4074) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 18 | 2.19 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 11 | 2.19 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 11 | 2.19 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 11 | 2.19 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 11 | 2.19 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 11 | 2.19 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 11 | 2.19 |
| (1,4067) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 17 | 2.19 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 7 | 2.19 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 6 | 2.19 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 6 | 2.19 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 6 | 2.19 |
| (1,4036) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 6 | 2.19 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 8 | 2.19 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 8 | 2.19 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 1 | 2.19 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 1 | 2.19 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 7 | 2.19 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 7 | 2.19 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 14 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 14 | 2.19 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 14 | 2.19 |
| (1,3732) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 14 | 2.19 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 14 | 2.19 |
| (1,3732) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 14 | 2.19 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 14 | 2.19 |
| (1,3732) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 14 | 2.19 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 4 | 2.19 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 4 | 2.19 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 4 | 2.19 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 4 | 2.19 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 4 | 2.19 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 4 | 2.19 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 2 | 2.19 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 2 | 2.19 |
| (1,3670) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 12 | 2.19 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 2 | 2.19 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 2 | 2.19 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 8 | 2.19 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 8 | 2.19 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 15 | 2.19 |
| (1,3610) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 15 | 2.19 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 15 | 2.19 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 15 | 2.19 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 2 | 2.19 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 1 | 2.19 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 1 | 2.19 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 3 | 2.19 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 3 | 2.19 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 19 | 2.19 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 19 | 2.19 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 11 | 2.19 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 11 | 2.19 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 2 | 2.19 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 2 | 2.19 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 2 | 2.19 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 8 | 2.19 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 8 | 2.19 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 8 | 2.19 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 9 | 2.19 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 12 | 2.19 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 1 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 3 | 2.19 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 3 | 2.19 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 3 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 2 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 2 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 4 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 4 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 5 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 5 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 8 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 8 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 9 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 9 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 12 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 12 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 13 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 13 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 16 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 16 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 17 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 17 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 19 | 2.19 |
| (1,3230) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 19 | 2.19 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 18 | 2.19 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 18 | 2.19 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 12 | 2.19 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 19 | 2.19 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 1 | 2.19 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 18 | 2.19 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 18 | 2.19 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 19 | 2.19 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 19 | 2.19 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 4 | 2.19 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 2 | 2.19 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 16 | 2.19 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 12 | 2.19 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 17 | 2.19 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 17 | 2.19 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 17 | 2.19 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 17 | 2.19 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 12 | 2.19 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 11 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 11 | 2.19 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 11 | 2.19 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 20 | 2.19 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 5 | 2.19 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 5 | 2.19 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 7 | 2.19 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 9 | 2.19 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 2 | 2.19 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 4 | 2.19 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 11 | 2.19 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 8 | 2.19 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 8 | 2.19 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 2 | 2.19 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 2 | 2.19 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 6 | 2.19 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 8 | 2.19 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 10 | 2.19 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 10 | 2.19 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 10 | 2.19 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 12 | 2.19 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 12 | 2.19 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 4 | 2.19 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 14 | 2.19 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 19 | 2.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 9 | 2.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 9 | 2.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 9 | 2.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 18 | 2.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 18 | 2.19 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 18 | 2.19 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 13 | 2.19 |
| (1,2344) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 3 | 2.19 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 10 | 2.19 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 12 | 2.19 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 12 | 2.19 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 12 | 2.19 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 11 | 2.19 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 11 | 2.19 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 11 | 2.19 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 16 | 2.19 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 16 | 2.19 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 16 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 14 | 2.19 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 14 | 2.19 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 14 | 2.19 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 9 | 2.19 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 9 | 2.19 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 9 | 2.19 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 16 | 2.19 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 16 | 2.19 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 16 | 2.19 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 1 | 2.19 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 1 | 2.19 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 1 | 2.19 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 3 | 2.19 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 19 | 2.19 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 19 | 2.19 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 19 | 2.19 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 2 | 2.19 |
| (1,2056) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 1 | 2.19 |
| (1,2054) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 14 | 2.19 |
| (1,2054) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 14 | 2.19 |
| (1,2054) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 14 | 2.19 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 2 | 2.19 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 3 | 2.19 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 4 | 2.19 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 3 | 2.19 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 14 | 2.19 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 9 | 2.19 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 8 | 2.19 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 19 | 2.19 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 4 | 2.19 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 4 | 2.19 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 2 | 2.19 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 2 | 2.19 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 3 | 2.19 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 3 | 2.19 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 3 | 2.19 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 2 | 2.19 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 2 | 2.19 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 2 | 2.19 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 6 | 2.19 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 6 | 2.19 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 6 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 12 | 2.19 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 18 | 2.19 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 18 | 2.19 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 18 | 2.19 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 18 | 2.19 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 18 | 2.19 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 18 | 2.19 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 19 | 2.19 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 4 | 2.19 |
| (1,1480) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 11 | 2.19 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 8 | 2.19 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 8 | 2.19 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 12 | 2.19 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 12 | 2.19 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 18 | 2.19 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 18 | 2.19 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 19 | 2.19 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 19 | 2.19 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 1 | 2.19 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 2 | 2.19 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 2 | 2.19 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 2 | 2.19 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 2 | 2.19 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 2 | 2.19 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 2 | 2.19 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 19 | 2.19 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 3 | 2.19 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 3 | 2.19 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 9 | 2.19 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 11 | 2.19 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 19 | 2.19 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 5 | 2.19 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 5 | 2.19 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 5 | 2.19 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 3 | 2.19 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 2 | 2.19 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 2 | 2.19 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 2 | 2.19 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 8 | 2.19 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 8 | 2.19 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 8 | 2.19 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 5 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 12 | 2.19 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 14 | 2.19 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 18 | 2.19 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 11 | 2.19 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 11 | 2.19 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 11 | 2.19 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 16 | 2.19 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 16 | 2.19 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 16 | 2.19 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 8 | 2.19 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 8 | 2.19 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 8 | 2.19 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 13 | 2.19 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 3 | 2.19 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 3 | 2.19 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 3 | 2.19 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 3 | 2.19 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 3 | 2.19 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 3 | 2.19 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 11 | 2.19 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 6 | 2.19 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 6 | 2.19 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 6 | 2.19 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 6 | 2.19 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 6 | 2.19 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 6 | 2.19 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 6 | 2.19 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 6 | 2.19 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 6 | 2.19 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 16 | 2.19 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 8 | 2.19 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 7 | 2.19 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 7 | 2.19 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 7 | 2.19 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 7 | 2.19 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 7 | 2.19 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 7 | 2.19 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 15 | 2.19 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 17 | 2.19 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 14 | 2.19 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 14 | 2.19 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 3 | 2.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 3 | 2.19 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 3 | 2.19 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 2 | 2.19 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 5 | 2.19 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 5 | 2.19 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 5 | 2.19 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 20 | 2.19 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 20 | 2.19 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 20 | 2.19 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 2 | 2.19 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 19 | 2.19 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 2 | 2.19 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 2 | 2.19 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 2 | 2.19 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 12 | 2.19 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 12 | 2.19 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 12 | 2.19 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 14 | 2.19 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 14 | 2.19 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 14 | 2.19 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 18 | 2.18 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 4 | 2.18 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 5 | 2.18 |
| (4,111) | 1:90:A:ASN:CB | 1:11:A:TRP:HE1 | 5 | 2.18 |
| (3,490) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 13 | 2.18 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 9 | 2.18 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 9 | 2.18 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 2 | 2.18 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 2 | 2.18 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 17 | 2.18 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 17 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 18 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 18 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 18 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 18 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 18 | 2.18 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 18 | 2.18 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 11 | 2.18 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 11 | 2.18 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 8 | 2.18 |
| (1,9470) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 8 | 2.18 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 2 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 2 | 2.18 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 2 | 2.18 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 2 | 2.18 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 2 | 2.18 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 2 | 2.18 |
| (1,9439) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 9 | 2.18 |
| (1,9439) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 9 | 2.18 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 13 | 2.18 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 13 | 2.18 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 4 | 2.18 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 4 | 2.18 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 15 | 2.18 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 15 | 2.18 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 12 | 2.18 |
| (1,9245) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 12 | 2.18 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 17 | 2.18 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 17 | 2.18 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 8 | 2.18 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 8 | 2.18 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 12 | 2.18 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 12 | 2.18 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 11 | 2.18 |
| (1,9082) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 11 | 2.18 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 7 | 2.18 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 7 | 2.18 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 13 | 2.18 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 13 | 2.18 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 2 | 2.18 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 2 | 2.18 |
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 3 | 2.18 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 3 | 2.18 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 9 | 2.18 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 9 | 2.18 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 1 | 2.18 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 1 | 2.18 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 7 | 2.18 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 7 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 1 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 1 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 2 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 2 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 6 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 6 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 7 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 7 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 8 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 8 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 11 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 11 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 15 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 15 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 19 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 19 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 20 | 2.18 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 20 | 2.18 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 14 | 2.18 |
| (1,8797) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 14 | 2.18 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 14 | 2.18 |
| (1,8797) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 14 | 2.18 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 14 | 2.18 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 14 | 2.18 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 14 | 2.18 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 14 | 2.18 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 1 | 2.18 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 1 | 2.18 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 1 | 2.18 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 1 | 2.18 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 9 | 2.18 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 9 | 2.18 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 5 | 2.18 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 5 | 2.18 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 19 | 2.18 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 19 | 2.18 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 19 | 2.18 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 20 | 2.18 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 19 | 2.18 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 19 | 2.18 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 19 | 2.18 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 19 | 2.18 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 19 | 2.18 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 19 | 2.18 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 15 | 2.18 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 15 | 2.18 |
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 15 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 6 | 2.18 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 5 | 2.18 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 5 | 2.18 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 3 | 2.18 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 3 | 2.18 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 1 | 2.18 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 8 | 2.18 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 14 | 2.18 |
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 8 | 2.18 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 16 | 2.18 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 16 | 2.18 |
| (1,7124) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 17 | 2.18 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 12 | 2.18 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 12 | 2.18 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 3 | 2.18 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 3 | 2.18 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 1 | 2.18 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 8 | 2.18 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 8 | 2.18 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 15 | 2.18 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 15 | 2.18 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 6 | 2.18 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 17 | 2.18 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 17 | 2.18 |
| (1,6878) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 17 | 2.18 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 5 | 2.18 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 10 | 2.18 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 9 | 2.18 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 1 | 2.18 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 11 | 2.18 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 7 | 2.18 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 19 | 2.18 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 6 | 2.18 |
| (1,6508) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 10 | 2.18 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 7 | 2.18 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 7 | 2.18 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 7 | 2.18 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 7 | 2.18 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 5 | 2.18 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 5 | 2.18 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 13 | 2.18 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 13 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 18 | 2.18 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 4 | 2.18 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 18 | 2.18 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 9 | 2.18 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 7 | 2.18 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 13 | 2.18 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 2 | 2.18 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 2 | 2.18 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 2 | 2.18 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 4 | 2.18 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 5 | 2.18 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 5 | 2.18 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 8 | 2.18 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 8 | 2.18 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 8 | 2.18 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 5 | 2.18 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 3 | 2.18 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 3 | 2.18 |
| (1,6098) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 3 | 2.18 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 3 | 2.18 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 3 | 2.18 |
| (1,6098) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 3 | 2.18 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 3 | 2.18 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 3 | 2.18 |
| (1,6098) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 3 | 2.18 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 20 | 2.18 |
| (1,6066) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 20 | 2.18 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 20 | 2.18 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 20 | 2.18 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 20 | 2.18 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 20 | 2.18 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 20 | 2.18 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 20 | 2.18 |
| (1,5946) | 1:126:A:SER:HA | 1:127:A:ARG:H | 1 | 2.18 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 7 | 2.18 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 16 | 2.18 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 16 | 2.18 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 20 | 2.18 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 2 | 2.18 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 2 | 2.18 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 2 | 2.18 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 19 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 19 | 2.18 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 19 | 2.18 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 18 | 2.18 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 8 | 2.18 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 8 | 2.18 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 8 | 2.18 |
| (1,5758) | 1:110:A:PHE:H | 1:111:A:SER:H | 15 | 2.18 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 1 | 2.18 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 5 | 2.18 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 5 | 2.18 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 5 | 2.18 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 5 | 2.18 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 5 | 2.18 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 5 | 2.18 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 5 | 2.18 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 5 | 2.18 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 5 | 2.18 |
| (1,5525) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 4 | 2.18 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 11 | 2.18 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 11 | 2.18 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 11 | 2.18 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 12 | 2.18 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 12 | 2.18 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 2 | 2.18 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 19 | 2.18 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 20 | 2.18 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 7 | 2.18 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 7 | 2.18 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 7 | 2.18 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 17 | 2.18 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 19 | 2.18 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 12 | 2.18 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 12 | 2.18 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 8 | 2.18 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 17 | 2.18 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 17 | 2.18 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 17 | 2.18 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 18 | 2.18 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 18 | 2.18 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 18 | 2.18 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 17 | 2.18 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 19 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 16 | 2.18 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 4 | 2.18 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 12 | 2.18 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 14 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 2 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 2 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 5 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 5 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 7 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 7 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 11 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 11 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 12 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 12 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 14 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 14 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 15 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 15 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 16 | 2.18 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 16 | 2.18 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 9 | 2.18 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 9 | 2.18 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 2 | 2.18 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 2 | 2.18 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 17 | 2.18 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 17 | 2.18 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 16 | 2.18 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 14 | 2.18 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 14 | 2.18 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 8 | 2.18 |
| (1,4466) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 8 | 2.18 |
| (1,4422) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 9 | 2.18 |
| (1,4422) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 9 | 2.18 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 11 | 2.18 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 11 | 2.18 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 11 | 2.18 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 11 | 2.18 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 11 | 2.18 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 11 | 2.18 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 4 | 2.18 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 4 | 2.18 |
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 3 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4264) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 3 | 2.18 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 19 | 2.18 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 19 | 2.18 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 19 | 2.18 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 19 | 2.18 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 6 | 2.18 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 8 | 2.18 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 8 | 2.18 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 8 | 2.18 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 8 | 2.18 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 8 | 2.18 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 8 | 2.18 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 18 | 2.18 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 7 | 2.18 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 7 | 2.18 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 7 | 2.18 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 7 | 2.18 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 7 | 2.18 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 7 | 2.18 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 16 | 2.18 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 16 | 2.18 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 11 | 2.18 |
| (1,4056) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 11 | 2.18 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 13 | 2.18 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 13 | 2.18 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 12 | 2.18 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 12 | 2.18 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 12 | 2.18 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 12 | 2.18 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 12 | 2.18 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 12 | 2.18 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 1 | 2.18 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 17 | 2.18 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 12 | 2.18 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 17 | 2.18 |
| (1,3940) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 17 | 2.18 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 14 | 2.18 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 14 | 2.18 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 3 | 2.18 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 3 | 2.18 |
| (1,3849) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 8 | 2.18 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 15 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 15 | 2.18 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 15 | 2.18 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 11 | 2.18 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 11 | 2.18 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 11 | 2.18 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 11 | 2.18 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 11 | 2.18 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 11 | 2.18 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 2.18 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 2.18 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 2.18 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 2.18 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 2.18 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 2.18 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 2.18 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 16 | 2.18 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 16 | 2.18 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 15 | 2.18 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 15 | 2.18 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 20 | 2.18 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 20 | 2.18 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 1 | 2.18 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 1 | 2.18 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 11 | 2.18 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 11 | 2.18 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 18 | 2.18 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 18 | 2.18 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 11 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 4 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 4 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 8 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 8 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 11 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 11 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 12 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 12 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 13 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 13 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 20 | 2.18 |
| (1,3500) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 20 | 2.18 |
| (1,3497) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 3 | 2.18 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 18 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 18 | 2.18 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 18 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 4 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 4 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 5 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 5 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 6 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 6 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 7 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 7 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 10 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 10 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 12 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 12 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 13 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 13 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 17 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 17 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 18 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 18 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 19 | 2.18 |
| (1,3484) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 19 | 2.18 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 8 | 2.18 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 1 | 2.18 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 1 | 2.18 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 1 | 2.18 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 8 | 2.18 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 8 | 2.18 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 8 | 2.18 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 16 | 2.18 |
| (1,3218) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 17 | 2.18 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 5 | 2.18 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 12 | 2.18 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 12 | 2.18 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 12 | 2.18 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 12 | 2.18 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 12 | 2.18 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 8 | 2.18 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 8 | 2.18 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 15 | 2.18 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 15 | 2.18 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 5 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 5 | 2.18 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 6 | 2.18 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 17 | 2.18 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 17 | 2.18 |
| (1,2874) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 17 | 2.18 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 5 | 2.18 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 10 | 2.18 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 11 | 2.18 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 11 | 2.18 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 9 | 2.18 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 14 | 2.18 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 14 | 2.18 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 1 | 2.18 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 1 | 2.18 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 1 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 1 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 1 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 3 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 3 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 4 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 4 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 14 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 14 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 18 | 2.18 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 18 | 2.18 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 5 | 2.18 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 5 | 2.18 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 5 | 2.18 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 8 | 2.18 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 8 | 2.18 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 3 | 2.18 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 3 | 2.18 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 18 | 2.18 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 18 | 2.18 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 2 | 2.18 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 2 | 2.18 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 6 | 2.18 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 6 | 2.18 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 14 | 2.18 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 14 | 2.18 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 19 | 2.18 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 19 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 8 | 2.18 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 6 | 2.18 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 19 | 2.18 |
| (1,2347) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 10 | 2.18 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 3 | 2.18 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 19 | 2.18 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 7 | 2.18 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 7 | 2.18 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 7 | 2.18 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 7 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 7 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 7 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 7 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 7 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 7 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 7 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 15 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 15 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 15 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 15 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 15 | 2.18 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 15 | 2.18 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 12 | 2.18 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 12 | 2.18 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 12 | 2.18 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 19 | 2.18 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 19 | 2.18 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 19 | 2.18 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 17 | 2.18 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 17 | 2.18 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 17 | 2.18 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 18 | 2.18 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 7 | 2.18 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 7 | 2.18 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 7 | 2.18 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 7 | 2.18 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 7 | 2.18 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 7 | 2.18 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 7 | 2.18 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 7 | 2.18 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 7 | 2.18 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 5 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 18 | 2.18 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 7 | 2.18 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 3 | 2.18 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 3 | 2.18 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 3 | 2.18 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 2 | 2.18 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 2 | 2.18 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 2 | 2.18 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 5 | 2.18 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 5 | 2.18 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 5 | 2.18 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 9 | 2.18 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 5 | 2.18 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 5 | 2.18 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 5 | 2.18 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 3 | 2.18 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 3 | 2.18 |
| (1,1670) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 3 | 2.18 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 3 | 2.18 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 3 | 2.18 |
| (1,1670) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 3 | 2.18 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 3 | 2.18 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 3 | 2.18 |
| (1,1670) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 3 | 2.18 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 8 | 2.18 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 15 | 2.18 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 15 | 2.18 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 20 | 2.18 |
| (1,1630) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 20 | 2.18 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 20 | 2.18 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 20 | 2.18 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 20 | 2.18 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 20 | 2.18 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 20 | 2.18 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 20 | 2.18 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 7 | 2.18 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 7 | 2.18 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 16 | 2.18 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 16 | 2.18 |
| (1,1378) | 1:126:A:SER:HA | 1:127:A:ARG:H | 1 | 2.18 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 7 | 2.18 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 16 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 16 | 2.18 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 10 | 2.18 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 20 | 2.18 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 2 | 2.18 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 2 | 2.18 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 2 | 2.18 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 19 | 2.18 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 19 | 2.18 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 19 | 2.18 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 18 | 2.18 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 18 | 2.18 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 9 | 2.18 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 11 | 2.18 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 5 | 2.18 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 5 | 2.18 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 8 | 2.18 |
| (1,1090) | 1:110:A:PHE:H | 1:111:A:SER:H | 15 | 2.18 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 4 | 2.18 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 8 | 2.18 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 14 | 2.18 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 14 | 2.18 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 14 | 2.18 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 12 | 2.18 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 12 | 2.18 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 12 | 2.18 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 2 | 2.18 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 2 | 2.18 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 2 | 2.18 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 8 | 2.18 |
| (1,798) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 8 | 2.18 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 4 | 2.18 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 5 | 2.18 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 5 | 2.18 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 5 | 2.18 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 5 | 2.18 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 5 | 2.18 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 5 | 2.18 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 5 | 2.18 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 5 | 2.18 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 5 | 2.18 |
| (1,680) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 4 | 2.18 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 11 | 2.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 15 | 2.18 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 11 | 2.18 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 11 | 2.18 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 11 | 2.18 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 20 | 2.18 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 20 | 2.18 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 20 | 2.18 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 16 | 2.18 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 9 | 2.18 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 17 | 2.18 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 9 | 2.18 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 5 | 2.18 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 16 | 2.18 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 13 | 2.18 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 13 | 2.18 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 13 | 2.18 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 1 | 2.18 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 1 | 2.18 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 1 | 2.18 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 19 | 2.18 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 19 | 2.18 |
| (1,82) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 19 | 2.18 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 7 | 2.17 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 2 | 2.17 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 3 | 2.17 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 13 | 2.17 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 13 | 2.17 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 11 | 2.17 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 11 | 2.17 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 8 | 2.17 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 8 | 2.17 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 13 | 2.17 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 13 | 2.17 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 5 | 2.17 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 5 | 2.17 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 5 | 2.17 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 5 | 2.17 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 5 | 2.17 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 5 | 2.17 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 15 | 2.17 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 15 | 2.17 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 3 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 3 | 2.17 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 8 | 2.17 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 8 | 2.17 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 8 | 2.17 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 8 | 2.17 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 9 | 2.17 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 9 | 2.17 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 9 | 2.17 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 9 | 2.17 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 1 | 2.17 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 1 | 2.17 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 10 | 2.17 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 10 | 2.17 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 10 | 2.17 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 10 | 2.17 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 10 | 2.17 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 10 | 2.17 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 10 | 2.17 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 10 | 2.17 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 14 | 2.17 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 14 | 2.17 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 5 | 2.17 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 5 | 2.17 |
| (1,9283) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 5 | 2.17 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 5 | 2.17 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 5 | 2.17 |
| (1,9283) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 5 | 2.17 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 1 | 2.17 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 1 | 2.17 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 5 | 2.17 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 5 | 2.17 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 10 | 2.17 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 10 | 2.17 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 10 | 2.17 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 10 | 2.17 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 11 | 2.17 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 11 | 2.17 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 2 | 2.17 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 2 | 2.17 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 14 | 2.17 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 14 | 2.17 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 1 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 1 | 2.17 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 13 | 2.17 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 13 | 2.17 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 13 | 2.17 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 13 | 2.17 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 13 | 2.17 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 13 | 2.17 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 9 | 2.17 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 9 | 2.17 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 16 | 2.17 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 16 | 2.17 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 18 | 2.17 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 18 | 2.17 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 20 | 2.17 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 20 | 2.17 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 4 | 2.17 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 4 | 2.17 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 5 | 2.17 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 5 | 2.17 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 5 | 2.17 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 5 | 2.17 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 12 | 2.17 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 12 | 2.17 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 19 | 2.17 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 19 | 2.17 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 12 | 2.17 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 12 | 2.17 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 12 | 2.17 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 12 | 2.17 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 17 | 2.17 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 17 | 2.17 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 12 | 2.17 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 18 | 2.17 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 10 | 2.17 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 10 | 2.17 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 10 | 2.17 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 19 | 2.17 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 19 | 2.17 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 19 | 2.17 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 10 | 2.17 |
| (1,8276) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 10 | 2.17 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 14 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 14 | 2.17 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 14 | 2.17 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 14 | 2.17 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 14 | 2.17 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 14 | 2.17 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 14 | 2.17 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 14 | 2.17 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 14 | 2.17 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 9 | 2.17 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 11 | 2.17 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 17 | 2.17 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 17 | 2.17 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 7 | 2.17 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 7 | 2.17 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 7 | 2.17 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 7 | 2.17 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 7 | 2.17 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 7 | 2.17 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 11 | 2.17 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 11 | 2.17 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 3 | 2.17 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 3 | 2.17 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 2 | 2.17 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 7 | 2.17 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 7 | 2.17 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 3 | 2.17 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 3 | 2.17 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 3 | 2.17 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD11 | 3 | 2.17 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD12 | 3 | 2.17 |
| (1,7350) | 1:92:A:TYR:HD1 | 1:106:A:LEU:HD13 | 3 | 2.17 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD11 | 3 | 2.17 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD12 | 3 | 2.17 |
| (1,7350) | 1:92:A:TYR:HD2 | 1:106:A:LEU:HD13 | 3 | 2.17 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 9 | 2.17 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 9 | 2.17 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 13 | 2.17 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 13 | 2.17 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 20 | 2.17 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 20 | 2.17 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 3 | 2.17 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 3 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 7 | 2.17 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 7 | 2.17 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 6 | 2.17 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 6 | 2.17 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 6 | 2.17 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 6 | 2.17 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 1 | 2.17 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 1 | 2.17 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 7 | 2.17 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 7 | 2.17 |
| (1,7046) | 1:43:A:SER:HA | 1:44:A:GLY:H | 11 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 2 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 2 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 3 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 3 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 13 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 13 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 17 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 17 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 19 | 2.17 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 19 | 2.17 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 12 | 2.17 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 19 | 2.17 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 13 | 2.17 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 13 | 2.17 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 13 | 2.17 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 18 | 2.17 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 3 | 2.17 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 3 | 2.17 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 3 | 2.17 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 13 | 2.17 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 20 | 2.17 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 15 | 2.17 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 16 | 2.17 |
| (1,6731) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 7 | 2.17 |
| (1,6728) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 3 | 2.17 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 5 | 2.17 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 20 | 2.17 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 8 | 2.17 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 8 | 2.17 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 8 | 2.17 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 8 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 17 | 2.17 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 17 | 2.17 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 17 | 2.17 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 18 | 2.17 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 13 | 2.17 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 16 | 2.17 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 18 | 2.17 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 5 | 2.17 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 18 | 2.17 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 18 | 2.17 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 18 | 2.17 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 1 | 2.17 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 1 | 2.17 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 1 | 2.17 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 11 | 2.17 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 4 | 2.17 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 4 | 2.17 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 15 | 2.17 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 15 | 2.17 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 9 | 2.17 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 12 | 2.17 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 7 | 2.17 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 7 | 2.17 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 19 | 2.17 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 19 | 2.17 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 20 | 2.17 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 20 | 2.17 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 20 | 2.17 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 13 | 2.17 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 13 | 2.17 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 13 | 2.17 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 10 | 2.17 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 6 | 2.17 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 17 | 2.17 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 14 | 2.17 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 3 | 2.17 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 17 | 2.17 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 16 | 2.17 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 19 | 2.17 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 10 | 2.17 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 8 | 2.17 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 8 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 9 | 2.17 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 9 | 2.17 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 18 | 2.17 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 18 | 2.17 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 20 | 2.17 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 20 | 2.17 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 6 | 2.17 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 10 | 2.17 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 15 | 2.17 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 15 | 2.17 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 15 | 2.17 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 4 | 2.17 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 17 | 2.17 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 17 | 2.17 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 17 | 2.17 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 19 | 2.17 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 19 | 2.17 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 19 | 2.17 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 17 | 2.17 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 17 | 2.17 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 17 | 2.17 |
| (1,5623) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 11 | 2.17 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 15 | 2.17 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 1 | 2.17 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 1 | 2.17 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 10 | 2.17 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 10 | 2.17 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 10 | 2.17 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 10 | 2.17 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 10 | 2.17 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 10 | 2.17 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 10 | 2.17 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 10 | 2.17 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 10 | 2.17 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 13 | 2.17 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 13 | 2.17 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 13 | 2.17 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 18 | 2.17 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 18 | 2.17 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 18 | 2.17 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 10 | 2.17 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 10 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 10 | 2.17 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 10 | 2.17 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 10 | 2.17 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 10 | 2.17 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 10 | 2.17 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 10 | 2.17 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 10 | 2.17 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 6 | 2.17 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 6 | 2.17 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 6 | 2.17 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 8 | 2.17 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 8 | 2.17 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 8 | 2.17 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 11 | 2.17 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 11 | 2.17 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 11 | 2.17 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 9 | 2.17 |
| (1,5224) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 11 | 2.17 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 1 | 2.17 |
| (1,5183) | 1:83:A:GLU:H | 1:84:A:GLU:H | 11 | 2.17 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 2 | 2.17 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 3 | 2.17 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 5 | 2.17 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 13 | 2.17 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 19 | 2.17 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 2 | 2.17 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 4 | 2.17 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 12 | 2.17 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 7 | 2.17 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 7 | 2.17 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 7 | 2.17 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 7 | 2.17 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 7 | 2.17 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 7 | 2.17 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 7 | 2.17 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 7 | 2.17 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 7 | 2.17 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 10 | 2.17 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 14 | 2.17 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 20 | 2.17 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 8 | 2.17 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 9 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 11 | 2.17 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 11 | 2.17 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 11 | 2.17 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 7 | 2.17 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 15 | 2.17 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 19 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 3 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 3 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 4 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 4 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 10 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 10 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 17 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 17 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 19 | 2.17 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 19 | 2.17 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 12 | 2.17 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 11 | 2.17 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 11 | 2.17 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 16 | 2.17 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 16 | 2.17 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 16 | 2.17 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 16 | 2.17 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 16 | 2.17 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 16 | 2.17 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 5 | 2.17 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 5 | 2.17 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 5 | 2.17 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 5 | 2.17 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 5 | 2.17 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 5 | 2.17 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 7 | 2.17 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 7 | 2.17 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 7 | 2.17 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 12 | 2.17 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 2.17 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 15 | 2.17 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 15 | 2.17 |
| (1,4403) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 14 | 2.17 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 14 | 2.17 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 10 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 2 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 2 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 4 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 4 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 5 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 5 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 7 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 7 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 9 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 9 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 18 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 18 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 20 | 2.17 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 20 | 2.17 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 5 | 2.17 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 5 | 2.17 |
| (1,4268) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 5 | 2.17 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 5 | 2.17 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 5 | 2.17 |
| (1,4268) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 5 | 2.17 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 5 | 2.17 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 10 | 2.17 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 10 | 2.17 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 8 | 2.17 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 8 | 2.17 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 8 | 2.17 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 8 | 2.17 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 8 | 2.17 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 8 | 2.17 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 14 | 2.17 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 14 | 2.17 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 2 | 2.17 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 2 | 2.17 |
| (1,3840) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 2 | 2.17 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 20 | 2.17 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 20 | 2.17 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 20 | 2.17 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 20 | 2.17 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 20 | 2.17 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 20 | 2.17 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 4 | 2.17 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 4 | 2.17 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 4 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 4 | 2.17 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 4 | 2.17 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 13 | 2.17 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 13 | 2.17 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 13 | 2.17 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 13 | 2.17 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 12 | 2.17 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 12 | 2.17 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 19 | 2.17 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 19 | 2.17 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 4 | 2.17 |
| (1,3660) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 4 | 2.17 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 5 | 2.17 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 5 | 2.17 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 5 | 2.17 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 5 | 2.17 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 2 | 2.17 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 14 | 2.17 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 14 | 2.17 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 14 | 2.17 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 14 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 2 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 2 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 3 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 3 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 5 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 5 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 8 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 8 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 11 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 11 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 14 | 2.17 |
| (1,3588) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 14 | 2.17 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 1 | 2.17 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 1 | 2.17 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 11 | 2.17 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 11 | 2.17 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 11 | 2.17 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 11 | 2.17 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 1 | 2.17 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 1 | 2.17 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 1 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 16 | 2.17 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 12 | 2.17 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 6 | 2.17 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 6 | 2.17 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 2.17 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 2.17 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 16 | 2.17 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 7 | 2.17 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 7 | 2.17 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 7 | 2.17 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 6 | 2.17 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 6 | 2.17 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 6 | 2.17 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 6 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 2 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 2 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 3 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 3 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 13 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 13 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 17 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 17 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 19 | 2.17 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 19 | 2.17 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 12 | 2.17 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 19 | 2.17 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 13 | 2.17 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 13 | 2.17 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 13 | 2.17 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 18 | 2.17 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 6 | 2.17 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 17 | 2.17 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 17 | 2.17 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 17 | 2.17 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 17 | 2.17 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 4 | 2.17 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 13 | 2.17 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 9 | 2.17 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 9 | 2.17 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 9 | 2.17 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 9 | 2.17 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 9 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 9 | 2.17 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 14 | 2.17 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 14 | 2.17 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 20 | 2.17 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 3 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 2 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 2 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 3 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 3 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 5 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 5 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 8 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 8 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 11 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 11 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG2 | 1:21:A:ARG:HD3 | 14 | 2.17 |
| (1,2666) | 1:21:A:ARG:HG3 | 1:21:A:ARG:HD3 | 14 | 2.17 |
| (1,2664) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 7 | 2.17 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 19 | 2.17 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 19 | 2.17 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 5 | 2.17 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 5 | 2.17 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 7 | 2.17 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 7 | 2.17 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 10 | 2.17 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 10 | 2.17 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 19 | 2.17 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 19 | 2.17 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 5 | 2.17 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 20 | 2.17 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 2 | 2.17 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 2 | 2.17 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 2 | 2.17 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 15 | 2.17 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 15 | 2.17 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 15 | 2.17 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 15 | 2.17 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 15 | 2.17 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 15 | 2.17 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 14 | 2.17 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 14 | 2.17 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 19 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 19 | 2.17 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 13 | 2.17 |
| (1,2530) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 13 | 2.17 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 8 | 2.17 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 8 | 2.17 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 8 | 2.17 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 8 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 7 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 7 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 8 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 8 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 11 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 11 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 17 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 17 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 20 | 2.17 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 20 | 2.17 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 17 | 2.17 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 17 | 2.17 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 6 | 2.17 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 17 | 2.17 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 18 | 2.17 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 13 | 2.17 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 16 | 2.17 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 18 | 2.17 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 19 | 2.17 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 5 | 2.17 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 3 | 2.17 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 15 | 2.17 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 15 | 2.17 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 15 | 2.17 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 18 | 2.17 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 18 | 2.17 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 18 | 2.17 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 1 | 2.17 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 1 | 2.17 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 1 | 2.17 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 20 | 2.17 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 20 | 2.17 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 20 | 2.17 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 11 | 2.17 |
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 4 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2013) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 4 | 2.17 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 16 | 2.17 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 16 | 2.17 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 16 | 2.17 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 10 | 2.17 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 10 | 2.17 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 10 | 2.17 |
| (1,1934) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 12 | 2.17 |
| (1,1934) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 12 | 2.17 |
| (1,1934) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 12 | 2.17 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 11 | 2.17 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 11 | 2.17 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 11 | 2.17 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 18 | 2.17 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 18 | 2.17 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 18 | 2.17 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 7 | 2.17 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 7 | 2.17 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 7 | 2.17 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 19 | 2.17 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 19 | 2.17 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 19 | 2.17 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 11 | 2.17 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 13 | 2.17 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 13 | 2.17 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 13 | 2.17 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 16 | 2.17 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 10 | 2.17 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 14 | 2.17 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 14 | 2.17 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 14 | 2.17 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 16 | 2.17 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 16 | 2.17 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 16 | 2.17 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE2 | 11 | 2.17 |
| (1,1566) | 1:132:A:LYS:HD3 | 1:132:A:LYS:HE3 | 11 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 3 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 3 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 6 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 6 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 10 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 10 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 14 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 14 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 17 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 17 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 18 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 18 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 19 | 2.17 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 19 | 2.17 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 6 | 2.17 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 17 | 2.17 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 14 | 2.17 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 3 | 2.17 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 17 | 2.17 |
| (1,1470) | 1:130:A:MET:HA | 1:131:A:GLN:H | 10 | 2.17 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 16 | 2.17 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 6 | 2.17 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 6 | 2.17 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 10 | 2.17 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 10 | 2.17 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 19 | 2.17 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 17 | 2.17 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 17 | 2.17 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 10 | 2.17 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 8 | 2.17 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 8 | 2.17 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 9 | 2.17 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 9 | 2.17 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 18 | 2.17 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 18 | 2.17 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 20 | 2.17 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 20 | 2.17 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 6 | 2.17 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 10 | 2.17 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 15 | 2.17 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 15 | 2.17 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 15 | 2.17 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 2 | 2.17 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 2 | 2.17 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 5 | 2.17 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 5 | 2.17 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 12 | 2.17 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 12 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 18 | 2.17 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 18 | 2.17 |
| (1,1256) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 20 | 2.17 |
| (1,1256) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 20 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 1 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 1 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 3 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 3 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 4 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 4 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 6 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 6 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 7 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 7 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 8 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 8 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 9 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 9 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 10 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 10 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 11 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 11 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 13 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 13 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 15 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 15 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 17 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 17 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 19 | 2.17 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 19 | 2.17 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 3 | 2.17 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 3 | 2.17 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 6 | 2.17 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 6 | 2.17 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 7 | 2.17 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 7 | 2.17 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 17 | 2.17 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 17 | 2.17 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 4 | 2.17 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 4 | 2.17 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 4 | 2.17 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 4 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 15 | 2.17 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 15 | 2.17 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 15 | 2.17 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 8 | 2.17 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 8 | 2.17 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 8 | 2.17 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 8 | 2.17 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 8 | 2.17 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 8 | 2.17 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 10 | 2.17 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 17 | 2.17 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 17 | 2.17 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 17 | 2.17 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 19 | 2.17 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 19 | 2.17 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 19 | 2.17 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 13 | 2.17 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 9 | 2.17 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 9 | 2.17 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 9 | 2.17 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 12 | 2.17 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 12 | 2.17 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 12 | 2.17 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 4 | 2.17 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 4 | 2.17 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 4 | 2.17 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 2 | 2.17 |
| (1,828) | 1:102:A:ASP:HA | 1:103:A:PHE:H | 9 | 2.17 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 15 | 2.17 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 19 | 2.17 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 19 | 2.17 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 5 | 2.17 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 18 | 2.17 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 10 | 2.17 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 10 | 2.17 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 10 | 2.17 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 10 | 2.17 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 10 | 2.17 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 10 | 2.17 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 10 | 2.17 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 10 | 2.17 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 10 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 18 | 2.17 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 5 | 2.17 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 5 | 2.17 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 5 | 2.17 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 5 | 2.17 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 5 | 2.17 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 5 | 2.17 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 11 | 2.17 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 17 | 2.17 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 17 | 2.17 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 17 | 2.17 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 17 | 2.17 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 18 | 2.17 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 18 | 2.17 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 18 | 2.17 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 13 | 2.17 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 13 | 2.17 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 13 | 2.17 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 3 | 2.17 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 6 | 2.17 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 13 | 2.17 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 13 | 2.17 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 19 | 2.17 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 19 | 2.17 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 19 | 2.17 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 20 | 2.17 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 17 | 2.17 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 17 | 2.17 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 17 | 2.17 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 17 | 2.17 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 17 | 2.17 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 17 | 2.17 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 17 | 2.17 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 17 | 2.17 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 17 | 2.17 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 20 | 2.17 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 20 | 2.17 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 20 | 2.17 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 11 | 2.17 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 11 | 2.17 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 11 | 2.17 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 17 | 2.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 17 | 2.17 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 17 | 2.17 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 10 | 2.16 |
| (3,626) | 1:125:A:PHE:HA | 1:130:A:MET:HG2 | 2 | 2.16 |
| (3,626) | 1:125:A:PHE:HA | 1:130:A:MET:HG3 | 2 | 2.16 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 14 | 2.16 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 14 | 2.16 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 19 | 2.16 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 19 | 2.16 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 1 | 2.16 |
| (1,9594) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 1 | 2.16 |
| (1,9580) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 15 | 2.16 |
| (1,9580) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 15 | 2.16 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 18 | 2.16 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 18 | 2.16 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 18 | 2.16 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 18 | 2.16 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 18 | 2.16 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 18 | 2.16 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 11 | 2.16 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 11 | 2.16 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 11 | 2.16 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 11 | 2.16 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 11 | 2.16 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 11 | 2.16 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 13 | 2.16 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 13 | 2.16 |
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 13 | 2.16 |
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 13 | 2.16 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 13 | 2.16 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 13 | 2.16 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 7 | 2.16 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 7 | 2.16 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 17 | 2.16 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 17 | 2.16 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 16 | 2.16 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 16 | 2.16 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 16 | 2.16 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 16 | 2.16 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 16 | 2.16 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 16 | 2.16 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 2 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 2 | 2.16 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 2 | 2.16 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 2 | 2.16 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 17 | 2.16 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 17 | 2.16 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 17 | 2.16 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 17 | 2.16 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 8 | 2.16 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 8 | 2.16 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 8 | 2.16 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 8 | 2.16 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 8 | 2.16 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 8 | 2.16 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 10 | 2.16 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 10 | 2.16 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 10 | 2.16 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 10 | 2.16 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 8 | 2.16 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 8 | 2.16 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 2 | 2.16 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 2 | 2.16 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 18 | 2.16 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 18 | 2.16 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG2 | 16 | 2.16 |
| (1,9299) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HG3 | 16 | 2.16 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG2 | 16 | 2.16 |
| (1,9299) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HG3 | 16 | 2.16 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 6 | 2.16 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 6 | 2.16 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 10 | 2.16 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 10 | 2.16 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 6 | 2.16 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 6 | 2.16 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 6 | 2.16 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 6 | 2.16 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 7 | 2.16 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 7 | 2.16 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 5 | 2.16 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 5 | 2.16 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 6 | 2.16 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 6 | 2.16 |
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 13 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8946) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 13 | 2.16 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 2 | 2.16 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 2 | 2.16 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 2 | 2.16 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 2 | 2.16 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 2 | 2.16 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 2 | 2.16 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 4 | 2.16 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 4 | 2.16 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 3 | 2.16 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 3 | 2.16 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 7 | 2.16 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 7 | 2.16 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 19 | 2.16 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 19 | 2.16 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 1 | 2.16 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 1 | 2.16 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 1 | 2.16 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 1 | 2.16 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 4 | 2.16 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 4 | 2.16 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 13 | 2.16 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 13 | 2.16 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 8 | 2.16 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 10 | 2.16 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 15 | 2.16 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 19 | 2.16 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 13 | 2.16 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 8 | 2.16 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 15 | 2.16 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 15 | 2.16 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 15 | 2.16 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 19 | 2.16 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 19 | 2.16 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 19 | 2.16 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 19 | 2.16 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 19 | 2.16 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 19 | 2.16 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 19 | 2.16 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 19 | 2.16 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 19 | 2.16 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 20 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 10 | 2.16 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 19 | 2.16 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 20 | 2.16 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 16 | 2.16 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 16 | 2.16 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 8 | 2.16 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 11 | 2.16 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 11 | 2.16 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 13 | 2.16 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 13 | 2.16 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 13 | 2.16 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 7 | 2.16 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 7 | 2.16 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 7 | 2.16 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 10 | 2.16 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 10 | 2.16 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 10 | 2.16 |
| (1,7005) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 9 | 2.16 |
| (1,7005) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 9 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 6 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 6 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 8 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 8 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 9 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 9 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 12 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 12 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 15 | 2.16 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 15 | 2.16 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 6 | 2.16 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 6 | 2.16 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 1 | 2.16 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 20 | 2.16 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 20 | 2.16 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 20 | 2.16 |
| (1,6858) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 7 | 2.16 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 3 | 2.16 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 7 | 2.16 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 16 | 2.16 |
| (1,6798) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 15 | 2.16 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 6 | 2.16 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 2 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 6 | 2.16 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 17 | 2.16 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 9 | 2.16 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 3 | 2.16 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 19 | 2.16 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 7 | 2.16 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 7 | 2.16 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 7 | 2.16 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 7 | 2.16 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 9 | 2.16 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 9 | 2.16 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 9 | 2.16 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 9 | 2.16 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 1 | 2.16 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 8 | 2.16 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 7 | 2.16 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 7 | 2.16 |
| (1,6549) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 17 | 2.16 |
| (1,6497) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 9 | 2.16 |
| (1,6450) | 1:162:A:THR:H | 1:163:A:GLU:H | 17 | 2.16 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 4 | 2.16 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 8 | 2.16 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 6 | 2.16 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 6 | 2.16 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 6 | 2.16 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 8 | 2.16 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 8 | 2.16 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 8 | 2.16 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 5 | 2.16 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 16 | 2.16 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 6 | 2.16 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 18 | 2.16 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 19 | 2.16 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 8 | 2.16 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 8 | 2.16 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 8 | 2.16 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 8 | 2.16 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 8 | 2.16 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 8 | 2.16 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 8 | 2.16 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 8 | 2.16 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 8 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 10 | 2.16 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 16 | 2.16 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 17 | 2.16 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 18 | 2.16 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 19 | 2.16 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 1 | 2.16 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 11 | 2.16 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 17 | 2.16 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 9 | 2.16 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 9 | 2.16 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 9 | 2.16 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 12 | 2.16 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 12 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 1 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 1 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 3 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 3 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 10 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 10 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 14 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 14 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 16 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 16 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 17 | 2.16 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 17 | 2.16 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 4 | 2.16 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 17 | 2.16 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 2 | 2.16 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 2 | 2.16 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 6 | 2.16 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 6 | 2.16 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 12 | 2.16 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 12 | 2.16 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 13 | 2.16 |
| (1,5913) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 13 | 2.16 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 18 | 2.16 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 18 | 2.16 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 18 | 2.16 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 18 | 2.16 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 20 | 2.16 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 20 | 2.16 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 20 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 18 | 2.16 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 18 | 2.16 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 18 | 2.16 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 19 | 2.16 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 2 | 2.16 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 6 | 2.16 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 6 | 2.16 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 6 | 2.16 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 20 | 2.16 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 20 | 2.16 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 20 | 2.16 |
| (1,5134) | 1:81:A:THR:HA | 1:82:A:LYS:H | 6 | 2.16 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 4 | 2.16 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 8 | 2.16 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 18 | 2.16 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 18 | 2.16 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 18 | 2.16 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 8 | 2.16 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 9 | 2.16 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 14 | 2.16 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 17 | 2.16 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 1 | 2.16 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 9 | 2.16 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 8 | 2.16 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 1 | 2.16 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 11 | 2.16 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 11 | 2.16 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 11 | 2.16 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 9 | 2.16 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 14 | 2.16 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 15 | 2.16 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 14 | 2.16 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 14 | 2.16 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 14 | 2.16 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 14 | 2.16 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 14 | 2.16 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 14 | 2.16 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 14 | 2.16 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 14 | 2.16 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 14 | 2.16 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 17 | 2.16 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 17 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 17 | 2.16 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 17 | 2.16 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 17 | 2.16 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 17 | 2.16 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 17 | 2.16 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 17 | 2.16 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 17 | 2.16 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 13 | 2.16 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 20 | 2.16 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 2 | 2.16 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 3 | 2.16 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 5 | 2.16 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 13 | 2.16 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 18 | 2.16 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 6 | 2.16 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 20 | 2.16 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 13 | 2.16 |
| (1,4671) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 13 | 2.16 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 3 | 2.16 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 3 | 2.16 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 5 | 2.16 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 10 | 2.16 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 11 | 2.16 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 13 | 2.16 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 13 | 2.16 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 20 | 2.16 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 20 | 2.16 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 3 | 2.16 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 19 | 2.16 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 19 | 2.16 |
| (1,4585) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 5 | 2.16 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 1 | 2.16 |
| (1,4584) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 1 | 2.16 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 11 | 2.16 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 11 | 2.16 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 11 | 2.16 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 11 | 2.16 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 11 | 2.16 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 11 | 2.16 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 17 | 2.16 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 17 | 2.16 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 17 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 16 | 2.16 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 16 | 2.16 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 16 | 2.16 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 16 | 2.16 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 16 | 2.16 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 16 | 2.16 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 9 | 2.16 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 9 | 2.16 |
| (1,4398) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 3 | 2.16 |
| (1,4398) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 3 | 2.16 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 16 | 2.16 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 16 | 2.16 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 16 | 2.16 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 10 | 2.16 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 6 | 2.16 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 6 | 2.16 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 8 | 2.16 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 8 | 2.16 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 2 | 2.16 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 2 | 2.16 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 16 | 2.16 |
| (1,4274) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 16 | 2.16 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 1 | 2.16 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 3 | 2.16 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 7 | 2.16 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 7 | 2.16 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 7 | 2.16 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 9 | 2.16 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 9 | 2.16 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 9 | 2.16 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 9 | 2.16 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 9 | 2.16 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 9 | 2.16 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 9 | 2.16 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 9 | 2.16 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 3 | 2.16 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 3 | 2.16 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 6 | 2.16 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 6 | 2.16 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 6 | 2.16 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 6 | 2.16 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 6 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 4 | 2.16 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 4 | 2.16 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 2.16 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 10 | 2.16 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 6 | 2.16 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 6 | 2.16 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 5 | 2.16 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 5 | 2.16 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 5 | 2.16 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 5 | 2.16 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 5 | 2.16 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 5 | 2.16 |
| (1,3799) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 14 | 2.16 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 4 | 2.16 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 4 | 2.16 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 4 | 2.16 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 4 | 2.16 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 4 | 2.16 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 4 | 2.16 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 19 | 2.16 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 19 | 2.16 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 2.16 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 2.16 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 6 | 2.16 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 6 | 2.16 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 6 | 2.16 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 6 | 2.16 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 12 | 2.16 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 17 | 2.16 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 17 | 2.16 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 1 | 2.16 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 6 | 2.16 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 11 | 2.16 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 11 | 2.16 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 4 | 2.16 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 4 | 2.16 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 4 | 2.16 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 17 | 2.16 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 17 | 2.16 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 17 | 2.16 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 17 | 2.16 |
| (1,3048) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 9 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3048) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 9 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 6 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 6 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 8 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 8 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 9 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 9 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 12 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 12 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 15 | 2.16 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 15 | 2.16 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 6 | 2.16 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 6 | 2.16 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 13 | 2.16 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 13 | 2.16 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 14 | 2.16 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 14 | 2.16 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 20 | 2.16 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 20 | 2.16 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 10 | 2.16 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 10 | 2.16 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 3 | 2.16 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 18 | 2.16 |
| (1,2848) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 7 | 2.16 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 18 | 2.16 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 18 | 2.16 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 18 | 2.16 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 18 | 2.16 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 4 | 2.16 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 3 | 2.16 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 7 | 2.16 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 16 | 2.16 |
| (1,2774) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 15 | 2.16 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 16 | 2.16 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 16 | 2.16 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 16 | 2.16 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 16 | 2.16 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 16 | 2.16 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 16 | 2.16 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 6 | 2.16 |
| (1,2667) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 20 | 2.16 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 9 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB2 | 20 | 2.16 |
| (1,2614) | 1:17:A:ARG:HA | 1:17:A:ARG:HB3 | 20 | 2.16 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 13 | 2.16 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 13 | 2.16 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 13 | 2.16 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 2 | 2.16 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 2 | 2.16 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 7 | 2.16 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 7 | 2.16 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 7 | 2.16 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 7 | 2.16 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 9 | 2.16 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 9 | 2.16 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 9 | 2.16 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 9 | 2.16 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 15 | 2.16 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 15 | 2.16 |
| (1,2522) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 9 | 2.16 |
| (1,2522) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 9 | 2.16 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 9 | 2.16 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 8 | 2.16 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 7 | 2.16 |
| (1,2396) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 17 | 2.16 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 9 | 2.16 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 9 | 2.16 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 9 | 2.16 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 9 | 2.16 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 9 | 2.16 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 9 | 2.16 |
| (1,2332) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 8 | 2.16 |
| (1,2326) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 9 | 2.16 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 9 | 2.16 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 9 | 2.16 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 9 | 2.16 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 7 | 2.16 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 7 | 2.16 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 7 | 2.16 |
| (1,2204) | 1:162:A:THR:H | 1:163:A:GLU:H | 17 | 2.16 |
| (1,2194) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 11 | 2.16 |
| (1,2194) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 11 | 2.16 |
| (1,2194) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 11 | 2.16 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 4 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 8 | 2.16 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 6 | 2.16 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 6 | 2.16 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 6 | 2.16 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 8 | 2.16 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 8 | 2.16 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 8 | 2.16 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 8 | 2.16 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 8 | 2.16 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 8 | 2.16 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 9 | 2.16 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 9 | 2.16 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 9 | 2.16 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 2 | 2.16 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 2 | 2.16 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 2 | 2.16 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 5 | 2.16 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 16 | 2.16 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 12 | 2.16 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 12 | 2.16 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 12 | 2.16 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 12 | 2.16 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 12 | 2.16 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 12 | 2.16 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 12 | 2.16 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 12 | 2.16 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 12 | 2.16 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 6 | 2.16 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 18 | 2.16 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 19 | 2.16 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 13 | 2.16 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 13 | 2.16 |
| (1,2006) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 13 | 2.16 |
| (1,2002) | 1:152:A:THR:HA | 1:153:A:ASP:H | 13 | 2.16 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 6 | 2.16 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 6 | 2.16 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 6 | 2.16 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 10 | 2.16 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 16 | 2.16 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 17 | 2.16 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 3 | 2.16 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 13 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 1 | 2.16 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 11 | 2.16 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 4 | 2.16 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 4 | 2.16 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 4 | 2.16 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 9 | 2.16 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 9 | 2.16 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 9 | 2.16 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 6 | 2.16 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 6 | 2.16 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 6 | 2.16 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 12 | 2.16 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 12 | 2.16 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 11 | 2.16 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 1 | 2.16 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 1 | 2.16 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 7 | 2.16 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 7 | 2.16 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 20 | 2.16 |
| (1,1564) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 20 | 2.16 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 18 | 2.16 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 18 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 1 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 1 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 6 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 6 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 7 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 7 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 10 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 10 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 11 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 11 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 15 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 15 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 16 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 16 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 17 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 17 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 19 | 2.16 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 19 | 2.16 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 1 | 2.16 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 2 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 9 | 2.16 |
| (1,1424) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 9 | 2.16 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 4 | 2.16 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 7 | 2.16 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 1 | 2.16 |
| (1,1334) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 1 | 2.16 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 17 | 2.16 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 2 | 2.16 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 2 | 2.16 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 6 | 2.16 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 6 | 2.16 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 12 | 2.16 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 12 | 2.16 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 13 | 2.16 |
| (1,1330) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 13 | 2.16 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 1 | 2.16 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 7 | 2.16 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 18 | 2.16 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 18 | 2.16 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 18 | 2.16 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 7 | 2.16 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 7 | 2.16 |
| (1,1290) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 7 | 2.16 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 1 | 2.16 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 14 | 2.16 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 14 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 1 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 1 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 4 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 4 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 9 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 9 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 10 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 10 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 11 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 11 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 13 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 13 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 16 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 16 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 19 | 2.16 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 19 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 18 | 2.16 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 2.16 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 2.16 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 2.16 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 20 | 2.16 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 20 | 2.16 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 20 | 2.16 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 13 | 2.16 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 16 | 2.16 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 20 | 2.16 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 10 | 2.16 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 10 | 2.16 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 10 | 2.16 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 4 | 2.16 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 4 | 2.16 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 4 | 2.16 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 16 | 2.16 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 2 | 2.16 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 11 | 2.16 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 11 | 2.16 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 11 | 2.16 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 11 | 2.16 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 19 | 2.16 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 6 | 2.16 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 6 | 2.16 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 14 | 2.16 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 14 | 2.16 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 2.16 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 17 | 2.16 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 12 | 2.16 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 12 | 2.16 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 15 | 2.16 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 1 | 2.16 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 2 | 2.16 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 8 | 2.16 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 2 | 2.16 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 6 | 2.16 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 6 | 2.16 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 6 | 2.16 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 6 | 2.16 |
| (1,522) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 6 | 2.16 |
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 6 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,522) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 6 | 2.16 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 6 | 2.16 |
| (1,522) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 6 | 2.16 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 2 | 2.16 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 2 | 2.16 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 2 | 2.16 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 8 | 2.16 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 12 | 2.16 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 12 | 2.16 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 12 | 2.16 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 12 | 2.16 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 9 | 2.16 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 18 | 2.16 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 19 | 2.16 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 6 | 2.16 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 6 | 2.16 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 6 | 2.16 |
| (1,64) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 19 | 2.16 |
| (1,64) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 19 | 2.16 |
| (1,64) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 19 | 2.16 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 15 | 2.16 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 15 | 2.16 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 15 | 2.16 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 15 | 2.16 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 15 | 2.16 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 15 | 2.16 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 4 | 2.16 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 4 | 2.16 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 4 | 2.16 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 7 | 2.16 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 7 | 2.16 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 7 | 2.16 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 19 | 2.15 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 17 | 2.15 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 3 | 2.15 |
| (3,851) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 16 | 2.15 |
| (3,851) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 16 | 2.15 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 17 | 2.15 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 17 | 2.15 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 17 | 2.15 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 15 | 2.15 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 15 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 12 | 2.15 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 12 | 2.15 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 11 | 2.15 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 11 | 2.15 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 11 | 2.15 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 11 | 2.15 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 13 | 2.15 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 13 | 2.15 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 13 | 2.15 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 13 | 2.15 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 13 | 2.15 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 13 | 2.15 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 19 | 2.15 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 19 | 2.15 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 6 | 2.15 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 6 | 2.15 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 6 | 2.15 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 6 | 2.15 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 6 | 2.15 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 6 | 2.15 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 12 | 2.15 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 12 | 2.15 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 15 | 2.15 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 15 | 2.15 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 6 | 2.15 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 6 | 2.15 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 17 | 2.15 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 17 | 2.15 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 19 | 2.15 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 19 | 2.15 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 7 | 2.15 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 7 | 2.15 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 13 | 2.15 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 13 | 2.15 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 14 | 2.15 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 14 | 2.15 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 18 | 2.15 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 18 | 2.15 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 9 | 2.15 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 9 | 2.15 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 9 | 2.15 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 9 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 14 | 2.15 |
| (1,9096) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 14 | 2.15 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 10 | 2.15 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 10 | 2.15 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 10 | 2.15 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 10 | 2.15 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 19 | 2.15 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 19 | 2.15 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 4 | 2.15 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 4 | 2.15 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 4 | 2.15 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 4 | 2.15 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 14 | 2.15 |
| (1,8822) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 14 | 2.15 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 14 | 2.15 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 14 | 2.15 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 9 | 2.15 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 9 | 2.15 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 9 | 2.15 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 9 | 2.15 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 6 | 2.15 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 6 | 2.15 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 6 | 2.15 |
| (1,8708) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 6 | 2.15 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 17 | 2.15 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 17 | 2.15 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 17 | 2.15 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 17 | 2.15 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 16 | 2.15 |
| (1,8602) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 16 | 2.15 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 15 | 2.15 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 15 | 2.15 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 4 | 2.15 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 4 | 2.15 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 4 | 2.15 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 4 | 2.15 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 8 | 2.15 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 8 | 2.15 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 8 | 2.15 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 17 | 2.15 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 17 | 2.15 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 17 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 18 | 2.15 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 18 | 2.15 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 18 | 2.15 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 1 | 2.15 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 4 | 2.15 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 12 | 2.15 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 17 | 2.15 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 16 | 2.15 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 16 | 2.15 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 16 | 2.15 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 17 | 2.15 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 17 | 2.15 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 17 | 2.15 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 4 | 2.15 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 4 | 2.15 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 4 | 2.15 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 4 | 2.15 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 4 | 2.15 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 4 | 2.15 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 12 | 2.15 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 16 | 2.15 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 4 | 2.15 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 4 | 2.15 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 4 | 2.15 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 4 | 2.15 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 4 | 2.15 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 4 | 2.15 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 4 | 2.15 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 4 | 2.15 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 4 | 2.15 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 12 | 2.15 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 12 | 2.15 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 3 | 2.15 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 14 | 2.15 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD2 | 8 | 2.15 |
| (1,7722) | 1:54:A:ARG:HA | 1:54:A:ARG:HD3 | 8 | 2.15 |
| (1,7655) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 7 | 2.15 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 3 | 2.15 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 4 | 2.15 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 6 | 2.15 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 15 | 2.15 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 18 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7451) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 1 | 2.15 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 19 | 2.15 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 20 | 2.15 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 5 | 2.15 |
| (1,7042) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 10 | 2.15 |
| (1,7011) | 1:37:A:PRO:HA | 1:38:A:SER:H | 17 | 2.15 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 16 | 2.15 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 16 | 2.15 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 14 | 2.15 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 14 | 2.15 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 18 | 2.15 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 18 | 2.15 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 20 | 2.15 |
| (1,6997) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 20 | 2.15 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 9 | 2.15 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 9 | 2.15 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 15 | 2.15 |
| (1,6850) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 14 | 2.15 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 6 | 2.15 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 16 | 2.15 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 17 | 2.15 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 18 | 2.15 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 20 | 2.15 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 10 | 2.15 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 12 | 2.15 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 2 | 2.15 |
| (1,6764) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 2 | 2.15 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 16 | 2.15 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 7 | 2.15 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 8 | 2.15 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 10 | 2.15 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 14 | 2.15 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 3 | 2.15 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 10 | 2.15 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 12 | 2.15 |
| (1,6669) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 18 | 2.15 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 19 | 2.15 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 19 | 2.15 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 19 | 2.15 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 19 | 2.15 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 12 | 2.15 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 12 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 19 | 2.15 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 19 | 2.15 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 19 | 2.15 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 19 | 2.15 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 2 | 2.15 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 11 | 2.15 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 11 | 2.15 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 11 | 2.15 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 12 | 2.15 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 20 | 2.15 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 9 | 2.15 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 9 | 2.15 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 9 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 11 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 11 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 11 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 11 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 11 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 11 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 11 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 11 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 11 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 19 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 19 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 19 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 19 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 19 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 19 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 19 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 19 | 2.15 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 19 | 2.15 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 1 | 2.15 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 1 | 2.15 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 1 | 2.15 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 4 | 2.15 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 19 | 2.15 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 14 | 2.15 |
| (1,6353) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 15 | 2.15 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 8 | 2.15 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 8 | 2.15 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB2 | 12 | 2.15 |
| (1,6337) | 1:153:A:ASP:HA | 1:153:A:ASP:HB3 | 12 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6290) | 1:150:A:VAL:H | 1:157:A:HIS:H | 7 | 2.15 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 8 | 2.15 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 20 | 2.15 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 1 | 2.15 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 6 | 2.15 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 7 | 2.15 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 11 | 2.15 |
| (1,6271) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 19 | 2.15 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 2 | 2.15 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 4 | 2.15 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 11 | 2.15 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 11 | 2.15 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 2 | 2.15 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 2 | 2.15 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 2 | 2.15 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 10 | 2.15 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 17 | 2.15 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 19 | 2.15 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 11 | 2.15 |
| (1,6213) | 1:145:A:GLU:HA | 1:146:A:MET:H | 14 | 2.15 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 3 | 2.15 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 4 | 2.15 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 4 | 2.15 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 4 | 2.15 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 6 | 2.15 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 6 | 2.15 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 6 | 2.15 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 9 | 2.15 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 9 | 2.15 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 9 | 2.15 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 3 | 2.15 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 10 | 2.15 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 15 | 2.15 |
| (1,6132) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 15 | 2.15 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 4 | 2.15 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 8 | 2.15 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 8 | 2.15 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 8 | 2.15 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 8 | 2.15 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 8 | 2.15 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 8 | 2.15 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 8 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 8 | 2.15 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 8 | 2.15 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 3 | 2.15 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 3 | 2.15 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 3 | 2.15 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 2 | 2.15 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 2 | 2.15 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 13 | 2.15 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 13 | 2.15 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 1 | 2.15 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 5 | 2.15 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 5 | 2.15 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 15 | 2.15 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 15 | 2.15 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 17 | 2.15 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 7 | 2.15 |
| (1,5952) | 1:126:A:SER:H | 1:127:A:ARG:H | 15 | 2.15 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 11 | 2.15 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 1 | 2.15 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 2 | 2.15 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 4 | 2.15 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 13 | 2.15 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 16 | 2.15 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 11 | 2.15 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 11 | 2.15 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 11 | 2.15 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 15 | 2.15 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 15 | 2.15 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 15 | 2.15 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 20 | 2.15 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 20 | 2.15 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 5 | 2.15 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 8 | 2.15 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 7 | 2.15 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 12 | 2.15 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 12 | 2.15 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 12 | 2.15 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 12 | 2.15 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 12 | 2.15 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 12 | 2.15 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 12 | 2.15 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 12 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 12 | 2.15 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 18 | 2.15 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 18 | 2.15 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 18 | 2.15 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 18 | 2.15 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 18 | 2.15 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 18 | 2.15 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 18 | 2.15 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 18 | 2.15 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 18 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 7 | 2.15 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 7 | 2.15 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD11 | 14 | 2.15 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD12 | 14 | 2.15 |
| (1,5336) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HD13 | 14 | 2.15 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 11 | 2.15 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 7 | 2.15 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 7 | 2.15 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 7 | 2.15 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 18 | 2.15 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 18 | 2.15 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 18 | 2.15 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 1 | 2.15 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 18 | 2.15 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 9 | 2.15 |
| (1,5119) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 8 | 2.15 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 4 | 2.15 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 8 | 2.15 |
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 20 | 2.15 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 5 | 2.15 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 18 | 2.15 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 4 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 6 | 2.15 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 18 | 2.15 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 20 | 2.15 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 1 | 2.15 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 9 | 2.15 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 11 | 2.15 |
| (1,4974) | 1:70:A:PRO:HA | 1:71:A:SER:H | 13 | 2.15 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 11 | 2.15 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 13 | 2.15 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 6 | 2.15 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 6 | 2.15 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 6 | 2.15 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 10 | 2.15 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 6 | 2.15 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 4 | 2.15 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 18 | 2.15 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 18 | 2.15 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 18 | 2.15 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 18 | 2.15 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 18 | 2.15 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 18 | 2.15 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 5 | 2.15 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 7 | 2.15 |
| (1,4890) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 17 | 2.15 |
| (1,4827) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 1 | 2.15 |
| (1,4827) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 1 | 2.15 |
| (1,4827) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 1 | 2.15 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 10 | 2.15 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 10 | 2.15 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 10 | 2.15 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 10 | 2.15 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 10 | 2.15 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 10 | 2.15 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 10 | 2.15 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 10 | 2.15 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 10 | 2.15 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 15 | 2.15 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 15 | 2.15 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 10 | 2.15 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 19 | 2.15 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 2 | 2.15 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 5 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 7 | 2.15 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 11 | 2.15 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 2 | 2.15 |
| (1,4752) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 11 | 2.15 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 19 | 2.15 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 11 | 2.15 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 11 | 2.15 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 11 | 2.15 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 11 | 2.15 |
| (1,4675) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 16 | 2.15 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 1 | 2.15 |
| (1,4636) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 4 | 2.15 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 8 | 2.15 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 8 | 2.15 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB2 | 9 | 2.15 |
| (1,4634) | 1:51:A:GLU:HA | 1:51:A:GLU:HB3 | 9 | 2.15 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 6 | 2.15 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 7 | 2.15 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 9 | 2.15 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 9 | 2.15 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 15 | 2.15 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 15 | 2.15 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 9 | 2.15 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 9 | 2.15 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 9 | 2.15 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 19 | 2.15 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 9 | 2.15 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 7 | 2.15 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 7 | 2.15 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 7 | 2.15 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 3 | 2.15 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 3 | 2.15 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 12 | 2.15 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 12 | 2.15 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 12 | 2.15 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 12 | 2.15 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 19 | 2.15 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 19 | 2.15 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 19 | 2.15 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 19 | 2.15 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 20 | 2.15 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 20 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 20 | 2.15 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 20 | 2.15 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 20 | 2.15 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 20 | 2.15 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB2 | 1 | 2.15 |
| (1,4319) | 1:108:A:SER:H | 1:109:A:GLN:HB3 | 1 | 2.15 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 19 | 2.15 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 5 | 2.15 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 5 | 2.15 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 5 | 2.15 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 5 | 2.15 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 5 | 2.15 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 5 | 2.15 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 10 | 2.15 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 10 | 2.15 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 10 | 2.15 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 10 | 2.15 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 10 | 2.15 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 18 | 2.15 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 18 | 2.15 |
| (1,3915) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 18 | 2.15 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 10 | 2.15 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 10 | 2.15 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 14 | 2.15 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 14 | 2.15 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 6 | 2.15 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 6 | 2.15 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 9 | 2.15 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 7 | 2.15 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 7 | 2.15 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 17 | 2.15 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 17 | 2.15 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 17 | 2.15 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 17 | 2.15 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 19 | 2.15 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 17 | 2.15 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 17 | 2.15 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 17 | 2.15 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 4 | 2.15 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 8 | 2.15 |
| (1,3259) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 1 | 2.15 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 13 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 15 | 2.15 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 20 | 2.15 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 10 | 2.15 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 10 | 2.15 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 2.15 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 19 | 2.15 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 19 | 2.15 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 19 | 2.15 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 5 | 2.15 |
| (1,3096) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 10 | 2.15 |
| (1,3058) | 1:37:A:PRO:HA | 1:38:A:SER:H | 17 | 2.15 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 16 | 2.15 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 16 | 2.15 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 14 | 2.15 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 14 | 2.15 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 18 | 2.15 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 18 | 2.15 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 20 | 2.15 |
| (1,3040) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 20 | 2.15 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 9 | 2.15 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 9 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 2 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 2 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 3 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 3 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 8 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 8 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 12 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 12 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 15 | 2.15 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 15 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 5 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 5 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 7 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 7 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 10 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 10 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 16 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 16 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 17 | 2.15 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 17 | 2.15 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 13 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 15 | 2.15 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 14 | 2.15 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 14 | 2.15 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 14 | 2.15 |
| (1,2836) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 14 | 2.15 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 6 | 2.15 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 16 | 2.15 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 17 | 2.15 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 18 | 2.15 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 20 | 2.15 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 10 | 2.15 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 12 | 2.15 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 13 | 2.15 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 13 | 2.15 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 13 | 2.15 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 13 | 2.15 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 3 | 2.15 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 3 | 2.15 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 3 | 2.15 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 3 | 2.15 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 3 | 2.15 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 3 | 2.15 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 3 | 2.15 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 3 | 2.15 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 3 | 2.15 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 3 | 2.15 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 3 | 2.15 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 3 | 2.15 |
| (1,2715) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 2 | 2.15 |
| (1,2715) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 2 | 2.15 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 2 | 2.15 |
| (1,2708) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 2 | 2.15 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 12 | 2.15 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 12 | 2.15 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 14 | 2.15 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 18 | 2.15 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 18 | 2.15 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 20 | 2.15 |
| (1,2626) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 20 | 2.15 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 6 | 2.15 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 3 | 2.15 |
| (1,2558) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 18 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 6 | 2.15 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 6 | 2.15 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 6 | 2.15 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 19 | 2.15 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 19 | 2.15 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 19 | 2.15 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 19 | 2.15 |
| (1,2524) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 4 | 2.15 |
| (1,2524) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 4 | 2.15 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 12 | 2.15 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 12 | 2.15 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 10 | 2.15 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 19 | 2.15 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 19 | 2.15 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 19 | 2.15 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 19 | 2.15 |
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 2 | 2.15 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 18 | 2.15 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 11 | 2.15 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 11 | 2.15 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 11 | 2.15 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 12 | 2.15 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 20 | 2.15 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 1 | 2.15 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 1 | 2.15 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 1 | 2.15 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 13 | 2.15 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 13 | 2.15 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 13 | 2.15 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 14 | 2.15 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 14 | 2.15 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 14 | 2.15 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 4 | 2.15 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 19 | 2.15 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 12 | 2.15 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 14 | 2.15 |
| (1,2034) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 15 | 2.15 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 19 | 2.15 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 19 | 2.15 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 19 | 2.15 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 19 | 2.15 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 19 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 19 | 2.15 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 19 | 2.15 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 19 | 2.15 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 19 | 2.15 |
| (1,1962) | 1:150:A:VAL:H | 1:157:A:HIS:H | 7 | 2.15 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 2 | 2.15 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 2 | 2.15 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 2 | 2.15 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 1 | 2.15 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 6 | 2.15 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 7 | 2.15 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 11 | 2.15 |
| (1,1938) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 19 | 2.15 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 10 | 2.15 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 17 | 2.15 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 19 | 2.15 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 16 | 2.15 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 16 | 2.15 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 3 | 2.15 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 4 | 2.15 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 4 | 2.15 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 4 | 2.15 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 6 | 2.15 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 6 | 2.15 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 6 | 2.15 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 9 | 2.15 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 9 | 2.15 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 9 | 2.15 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 3 | 2.15 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 10 | 2.15 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 15 | 2.15 |
| (1,1724) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 15 | 2.15 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 4 | 2.15 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 8 | 2.15 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 8 | 2.15 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 8 | 2.15 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 8 | 2.15 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 8 | 2.15 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 8 | 2.15 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 8 | 2.15 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 8 | 2.15 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 8 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 3 | 2.15 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 3 | 2.15 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 3 | 2.15 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 2 | 2.15 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 2 | 2.15 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 13 | 2.15 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 13 | 2.15 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 17 | 2.15 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 7 | 2.15 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 7 | 2.15 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 7 | 2.15 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 1 | 2.15 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 2 | 2.15 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 2 | 2.15 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 8 | 2.15 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 17 | 2.15 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 3 | 2.15 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 6 | 2.15 |
| (1,1386) | 1:126:A:SER:H | 1:127:A:ARG:H | 15 | 2.15 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 11 | 2.15 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 19 | 2.15 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 1 | 2.15 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 2 | 2.15 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 4 | 2.15 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 13 | 2.15 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 16 | 2.15 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 11 | 2.15 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 11 | 2.15 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 11 | 2.15 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 15 | 2.15 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 15 | 2.15 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 15 | 2.15 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 15 | 2.15 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 15 | 2.15 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 15 | 2.15 |
| (1,1254) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 16 | 2.15 |
| (1,1254) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 16 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 2 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 2 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 5 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 5 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 8 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 8 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 12 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 12 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 18 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 18 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 20 | 2.15 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 20 | 2.15 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 8 | 2.15 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 3 | 2.15 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 20 | 2.15 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 20 | 2.15 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 12 | 2.15 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 12 | 2.15 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 12 | 2.15 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 11 | 2.15 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 11 | 2.15 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 11 | 2.15 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 17 | 2.15 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 5 | 2.15 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 10 | 2.15 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 17 | 2.15 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 2 | 2.15 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 19 | 2.15 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 13 | 2.15 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 13 | 2.15 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 13 | 2.15 |
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 10 | 2.15 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 10 | 2.15 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 10 | 2.15 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 12 | 2.15 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 12 | 2.15 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 12 | 2.15 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 10 | 2.15 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 10 | 2.15 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 7 | 2.15 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 13 | 2.15 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 15 | 2.15 |
| (1,740) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 9 | 2.15 |
| (1,740) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 9 | 2.15 |
| (1,740) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 9 | 2.15 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 12 | 2.15 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 12 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 12 | 2.15 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 12 | 2.15 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 12 | 2.15 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 12 | 2.15 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 12 | 2.15 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 12 | 2.15 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 12 | 2.15 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 15 | 2.15 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 15 | 2.15 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 15 | 2.15 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 20 | 2.15 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 20 | 2.15 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 20 | 2.15 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 18 | 2.15 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 18 | 2.15 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 18 | 2.15 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 17 | 2.15 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 17 | 2.15 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 17 | 2.15 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 18 | 2.15 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 18 | 2.15 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 18 | 2.15 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 2 | 2.15 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 2 | 2.15 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 2 | 2.15 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 11 | 2.15 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 2 | 2.15 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 15 | 2.15 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 13 | 2.15 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 18 | 2.15 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 3 | 2.15 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 13 | 2.15 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 15 | 2.15 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 4 | 2.15 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 6 | 2.15 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 6 | 2.15 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 6 | 2.15 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 6 | 2.15 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 6 | 2.15 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 6 | 2.15 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 3 | 2.15 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 3 | 2.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 3 | 2.15 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 15 | 2.15 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 13 | 2.15 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 13 | 2.15 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 13 | 2.15 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 13 | 2.15 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 13 | 2.15 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 13 | 2.15 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 8 | 2.14 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 13 | 2.14 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 19 | 2.14 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 7 | 2.14 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 7 | 2.14 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 11 | 2.14 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 11 | 2.14 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 7 | 2.14 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 7 | 2.14 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 7 | 2.14 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 7 | 2.14 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 7 | 2.14 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 7 | 2.14 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 12 | 2.14 |
| (1,9599) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 12 | 2.14 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 14 | 2.14 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 14 | 2.14 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 18 | 2.14 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 18 | 2.14 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 12 | 2.14 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 12 | 2.14 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 8 | 2.14 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 8 | 2.14 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 8 | 2.14 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 8 | 2.14 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 18 | 2.14 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 18 | 2.14 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 18 | 2.14 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 18 | 2.14 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 10 | 2.14 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 10 | 2.14 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 10 | 2.14 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 10 | 2.14 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 19 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 19 | 2.14 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 19 | 2.14 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 19 | 2.14 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 19 | 2.14 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 19 | 2.14 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 10 | 2.14 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 10 | 2.14 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 8 | 2.14 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 8 | 2.14 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 12 | 2.14 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 12 | 2.14 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 11 | 2.14 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 11 | 2.14 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 20 | 2.14 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 20 | 2.14 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 15 | 2.14 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 15 | 2.14 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 15 | 2.14 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 15 | 2.14 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 4 | 2.14 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 4 | 2.14 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 4 | 2.14 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 4 | 2.14 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 4 | 2.14 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 4 | 2.14 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 4 | 2.14 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 4 | 2.14 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 9 | 2.14 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 9 | 2.14 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 19 | 2.14 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 19 | 2.14 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 19 | 2.14 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 19 | 2.14 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 6 | 2.14 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 6 | 2.14 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 13 | 2.14 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 13 | 2.14 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 13 | 2.14 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 13 | 2.14 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 13 | 2.14 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 13 | 2.14 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 20 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 2.14 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 8 | 2.14 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 8 | 2.14 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 8 | 2.14 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 8 | 2.14 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 8 | 2.14 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 8 | 2.14 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 5 | 2.14 |
| (1,8809) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 5 | 2.14 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 14 | 2.14 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 14 | 2.14 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 8 | 2.14 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 8 | 2.14 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 17 | 2.14 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 17 | 2.14 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 16 | 2.14 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 16 | 2.14 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 16 | 2.14 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 16 | 2.14 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 8 | 2.14 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 8 | 2.14 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 8 | 2.14 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 8 | 2.14 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 9 | 2.14 |
| (1,8542) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 9 | 2.14 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 15 | 2.14 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 15 | 2.14 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 15 | 2.14 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 5 | 2.14 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 3 | 2.14 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 5 | 2.14 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 6 | 2.14 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 7 | 2.14 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 9 | 2.14 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 11 | 2.14 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 16 | 2.14 |
| (1,8463) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 18 | 2.14 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 17 | 2.14 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 17 | 2.14 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 15 | 2.14 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 1 | 2.14 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 3 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 20 | 2.14 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 9 | 2.14 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 18 | 2.14 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 18 | 2.14 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 18 | 2.14 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 18 | 2.14 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 18 | 2.14 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 18 | 2.14 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 5 | 2.14 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 7 | 2.14 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 12 | 2.14 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 13 | 2.14 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 16 | 2.14 |
| (1,7483) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 17 | 2.14 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 7 | 2.14 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 7 | 2.14 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 7 | 2.14 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 19 | 2.14 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 19 | 2.14 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 7 | 2.14 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 7 | 2.14 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 16 | 2.14 |
| (1,7102) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 16 | 2.14 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 9 | 2.14 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 10 | 2.14 |
| (1,7060) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 18 | 2.14 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 14 | 2.14 |
| (1,6978) | 1:35:A:GLU:HA | 1:36:A:ARG:H | 20 | 2.14 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 8 | 2.14 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 8 | 2.14 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 13 | 2.14 |
| (1,6930) | 1:32:A:SER:HA | 1:33:A:GLN:H | 3 | 2.14 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 15 | 2.14 |
| (1,6924) | 1:31:A:ALA:HA | 1:32:A:SER:H | 18 | 2.14 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 11 | 2.14 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 11 | 2.14 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 11 | 2.14 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 2 | 2.14 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 8 | 2.14 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 10 | 2.14 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 11 | 2.14 |
| (1,6828) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 13 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 1 | 2.14 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 5 | 2.14 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 8 | 2.14 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 15 | 2.14 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 17 | 2.14 |
| (1,6802) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 19 | 2.14 |
| (1,6777) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 18 | 2.14 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 3 | 2.14 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 4 | 2.14 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 5 | 2.14 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 12 | 2.14 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 13 | 2.14 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 14 | 2.14 |
| (1,6754) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 20 | 2.14 |
| (1,6725) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 11 | 2.14 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 12 | 2.14 |
| (1,6689) | 1:15:A:MET:HA | 1:16:A:SER:H | 19 | 2.14 |
| (1,6671) | 1:14:A:ARG:HA | 1:15:A:MET:H | 6 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 1 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 1 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 1 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 1 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 4 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 4 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 4 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 4 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 5 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 5 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 5 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 5 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 16 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 16 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 16 | 2.14 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 16 | 2.14 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 16 | 2.14 |
| (1,6647) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 16 | 2.14 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 13 | 2.14 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 14 | 2.14 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 17 | 2.14 |
| (1,6567) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 18 | 2.14 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 5 | 2.14 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 5 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 5 | 2.14 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 2 | 2.14 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 2 | 2.14 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 2 | 2.14 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 4 | 2.14 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 4 | 2.14 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 4 | 2.14 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 2 | 2.14 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 13 | 2.14 |
| (1,6446) | 1:161:A:ARG:HA | 1:162:A:THR:H | 16 | 2.14 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 2 | 2.14 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 9 | 2.14 |
| (1,6393) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 14 | 2.14 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 3 | 2.14 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 3 | 2.14 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 3 | 2.14 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 6 | 2.14 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 6 | 2.14 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 6 | 2.14 |
| (1,6318) | 1:151:A:PHE:HA | 1:152:A:THR:H | 2 | 2.14 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 10 | 2.14 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 10 | 2.14 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 10 | 2.14 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 10 | 2.14 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 10 | 2.14 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 10 | 2.14 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 10 | 2.14 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 10 | 2.14 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 10 | 2.14 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 4 | 2.14 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 4 | 2.14 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 4 | 2.14 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 4 | 2.14 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 4 | 2.14 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 4 | 2.14 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 4 | 2.14 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 4 | 2.14 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 4 | 2.14 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 3 | 2.14 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 5 | 2.14 |
| (1,6264) | 1:147:A:SER:HA | 1:148:A:GLY:H | 13 | 2.14 |
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 6 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6237) | 1:146:A:MET:HA | 1:147:A:SER:H | 15 | 2.14 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 7 | 2.14 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 12 | 2.14 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 12 | 2.14 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 12 | 2.14 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 20 | 2.14 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 20 | 2.14 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 20 | 2.14 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 1 | 2.14 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 6 | 2.14 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 7 | 2.14 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 11 | 2.14 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 13 | 2.14 |
| (1,6007) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 15 | 2.14 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 7 | 2.14 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 7 | 2.14 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 8 | 2.14 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 9 | 2.14 |
| (1,5958) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 10 | 2.14 |
| (1,5941) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 11 | 2.14 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 5 | 2.14 |
| (1,5915) | 1:125:A:PHE:HA | 1:126:A:SER:H | 14 | 2.14 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 3 | 2.14 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 8 | 2.14 |
| (1,5901) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 17 | 2.14 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 8 | 2.14 |
| (1,5894) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 13 | 2.14 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 3 | 2.14 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 19 | 2.14 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 19 | 2.14 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 19 | 2.14 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 16 | 2.14 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 16 | 2.14 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 16 | 2.14 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 2 | 2.14 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 2 | 2.14 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 14 | 2.14 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 14 | 2.14 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 1 | 2.14 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 18 | 2.14 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 18 | 2.14 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 18 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 11 | 2.14 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 11 | 2.14 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 11 | 2.14 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 10 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 7 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 7 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 7 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 7 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 7 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 7 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 7 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 7 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 7 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 13 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 13 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 13 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 13 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 13 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 13 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 13 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 13 | 2.14 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 13 | 2.14 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 10 | 2.14 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 7 | 2.14 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 7 | 2.14 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 7 | 2.14 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 12 | 2.14 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 12 | 2.14 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 12 | 2.14 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 7 | 2.14 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 7 | 2.14 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 7 | 2.14 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 7 | 2.14 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 7 | 2.14 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 7 | 2.14 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 7 | 2.14 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 7 | 2.14 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 7 | 2.14 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 16 | 2.14 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 16 | 2.14 |
| (1,5254) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 16 | 2.14 |
| (1,5197) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 13 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5108) | 1:80:A:ARG:HA | 1:81:A:THR:H | 15 | 2.14 |
| (1,5066) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 13 | 2.14 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 3 | 2.14 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 10 | 2.14 |
| (1,5063) | 1:78:A:ILE:HA | 1:79:A:THR:H | 16 | 2.14 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 10 | 2.14 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 1 | 2.14 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 7 | 2.14 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 8 | 2.14 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 11 | 2.14 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 15 | 2.14 |
| (1,4981) | 1:71:A:SER:HA | 1:72:A:SER:H | 16 | 2.14 |
| (1,4964) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 18 | 2.14 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 6 | 2.14 |
| (1,4950) | 1:67:A:SER:HA | 1:68:A:ARG:H | 20 | 2.14 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 2 | 2.14 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 2 | 2.14 |
| (1,4918) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 2 | 2.14 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 20 | 2.14 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 13 | 2.14 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 20 | 2.14 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 20 | 2.14 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 20 | 2.14 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 20 | 2.14 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 20 | 2.14 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 20 | 2.14 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 16 | 2.14 |
| (1,4894) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 16 | 2.14 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 15 | 2.14 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 15 | 2.14 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 15 | 2.14 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 15 | 2.14 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 15 | 2.14 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 15 | 2.14 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 15 | 2.14 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 15 | 2.14 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 15 | 2.14 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 13 | 2.14 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 13 | 2.14 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 13 | 2.14 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 5 | 2.14 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 5 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 5 | 2.14 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 5 | 2.14 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 5 | 2.14 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 5 | 2.14 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 5 | 2.14 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 5 | 2.14 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 5 | 2.14 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 2 | 2.14 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 7 | 2.14 |
| (1,4786) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 13 | 2.14 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 3 | 2.14 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 10 | 2.14 |
| (1,4756) | 1:57:A:CYS:HA | 1:58:A:SER:H | 19 | 2.14 |
| (1,4725) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 4 | 2.14 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 1 | 2.14 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 7 | 2.14 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 10 | 2.14 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 15 | 2.14 |
| (1,4701) | 1:55:A:VAL:HA | 1:56:A:ARG:H | 17 | 2.14 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 17 | 2.14 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 17 | 2.14 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 17 | 2.14 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 17 | 2.14 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 2 | 2.14 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 2 | 2.14 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 2 | 2.14 |
| (1,4618) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 19 | 2.14 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 11 | 2.14 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 11 | 2.14 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 15 | 2.14 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 15 | 2.14 |
| (1,4554) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 14 | 2.14 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 2 | 2.14 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 2 | 2.14 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 18 | 2.14 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 18 | 2.14 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 11 | 2.14 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 11 | 2.14 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 17 | 2.14 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 17 | 2.14 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 13 | 2.14 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 13 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 13 | 2.14 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 13 | 2.14 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 13 | 2.14 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 13 | 2.14 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 10 | 2.14 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 10 | 2.14 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 10 | 2.14 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 10 | 2.14 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 18 | 2.14 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 15 | 2.14 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 15 | 2.14 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 13 | 2.14 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 13 | 2.14 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 13 | 2.14 |
| (1,4145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 8 | 2.14 |
| (1,4145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 8 | 2.14 |
| (1,4145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 8 | 2.14 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 4 | 2.14 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 4 | 2.14 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 4 | 2.14 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 4 | 2.14 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 4 | 2.14 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 4 | 2.14 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 7 | 2.14 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 7 | 2.14 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 7 | 2.14 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 7 | 2.14 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 7 | 2.14 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 7 | 2.14 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 1 | 2.14 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 1 | 2.14 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 8 | 2.14 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 17 | 2.14 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 17 | 2.14 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 5 | 2.14 |
| (1,3859) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 5 | 2.14 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 8 | 2.14 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 8 | 2.14 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 17 | 2.14 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 17 | 2.14 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 17 | 2.14 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 17 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 17 | 2.14 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 17 | 2.14 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 8 | 2.14 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 20 | 2.14 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 2.14 |
| (1,3781) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 4 | 2.14 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 8 | 2.14 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 8 | 2.14 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 20 | 2.14 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 20 | 2.14 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 16 | 2.14 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 16 | 2.14 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 16 | 2.14 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 16 | 2.14 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 16 | 2.14 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 16 | 2.14 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 13 | 2.14 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 13 | 2.14 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 16 | 2.14 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 17 | 2.14 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 2 | 2.14 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 2 | 2.14 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 2 | 2.14 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 2 | 2.14 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 4 | 2.14 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 4 | 2.14 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 4 | 2.14 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 4 | 2.14 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 9 | 2.14 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 12 | 2.14 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 9 | 2.14 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 18 | 2.14 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 18 | 2.14 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 12 | 2.14 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 12 | 2.14 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 12 | 2.14 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 13 | 2.14 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 13 | 2.14 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 13 | 2.14 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 2 | 2.14 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 2 | 2.14 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 2 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 20 | 2.14 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 20 | 2.14 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 20 | 2.14 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 17 | 2.14 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 12 | 2.14 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 12 | 2.14 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 12 | 2.14 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 12 | 2.14 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 12 | 2.14 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 12 | 2.14 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 19 | 2.14 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 19 | 2.14 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 7 | 2.14 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 7 | 2.14 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 16 | 2.14 |
| (1,3184) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 16 | 2.14 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 11 | 2.14 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 11 | 2.14 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 11 | 2.14 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 9 | 2.14 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 10 | 2.14 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 12 | 2.14 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 4 | 2.14 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 4 | 2.14 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 6 | 2.14 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 6 | 2.14 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 9 | 2.14 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 9 | 2.14 |
| (1,3020) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG2 | 11 | 2.14 |
| (1,3020) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG2 | 11 | 2.14 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 19 | 2.14 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 19 | 2.14 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 13 | 2.14 |
| (1,2946) | 1:32:A:SER:HA | 1:33:A:GLN:H | 3 | 2.14 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 5 | 2.14 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 5 | 2.14 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 5 | 2.14 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 2 | 2.14 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 8 | 2.14 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 10 | 2.14 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 11 | 2.14 |
| (1,2812) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 13 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 1 | 2.14 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 5 | 2.14 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 8 | 2.14 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 15 | 2.14 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 17 | 2.14 |
| (1,2780) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 19 | 2.14 |
| (1,2732) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 18 | 2.14 |
| (1,2656) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 11 | 2.14 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 7 | 2.14 |
| (1,2628) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 7 | 2.14 |
| (1,2584) | 1:15:A:MET:HA | 1:16:A:SER:H | 19 | 2.14 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 9 | 2.14 |
| (1,2534) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 9 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 1 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 1 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 1 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 1 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 4 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 4 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 4 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 4 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 5 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 5 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 5 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 5 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 16 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 16 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 16 | 2.14 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 16 | 2.14 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 16 | 2.14 |
| (1,2514) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 16 | 2.14 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 13 | 2.14 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 13 | 2.14 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 16 | 2.14 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 5 | 2.14 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 5 | 2.14 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 5 | 2.14 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 2 | 2.14 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 2 | 2.14 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 2 | 2.14 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 4 | 2.14 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 4 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 4 | 2.14 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 2.14 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 19 | 2.14 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 19 | 2.14 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 19 | 2.14 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 15 | 2.14 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 15 | 2.14 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 15 | 2.14 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 15 | 2.14 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 15 | 2.14 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 15 | 2.14 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 15 | 2.14 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 15 | 2.14 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 15 | 2.14 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 2 | 2.14 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 13 | 2.14 |
| (1,2180) | 1:161:A:ARG:HA | 1:162:A:THR:H | 16 | 2.14 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 2 | 2.14 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 9 | 2.14 |
| (1,2098) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 14 | 2.14 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 3 | 2.14 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 3 | 2.14 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 3 | 2.14 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 6 | 2.14 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 6 | 2.14 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 6 | 2.14 |
| (1,1990) | 1:151:A:PHE:HA | 1:152:A:THR:H | 2 | 2.14 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 10 | 2.14 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 10 | 2.14 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 10 | 2.14 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 10 | 2.14 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 10 | 2.14 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 10 | 2.14 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 10 | 2.14 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 10 | 2.14 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 10 | 2.14 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 12 | 2.14 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 2.14 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 6 | 2.14 |
| (1,1868) | 1:146:A:MET:HA | 1:147:A:SER:H | 15 | 2.14 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 7 | 2.14 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 7 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 7 | 2.14 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 12 | 2.14 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 12 | 2.14 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 12 | 2.14 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 16 | 2.14 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 17 | 2.14 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 17 | 2.14 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 17 | 2.14 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 11 | 2.14 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 15 | 2.14 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 17 | 2.14 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 11 | 2.14 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 3 | 2.14 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 3 | 2.14 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 3 | 2.14 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 12 | 2.14 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 12 | 2.14 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 14 | 2.14 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 19 | 2.14 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 19 | 2.14 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 19 | 2.14 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 14 | 2.14 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 14 | 2.14 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 14 | 2.14 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 3 | 2.14 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 3 | 2.14 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 3 | 2.14 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 3 | 2.14 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 3 | 2.14 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 3 | 2.14 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 20 | 2.14 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 20 | 2.14 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 3 | 2.14 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 3 | 2.14 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 5 | 2.14 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 5 | 2.14 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 13 | 2.14 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 13 | 2.14 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 14 | 2.14 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 14 | 2.14 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 9 | 2.14 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 9 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 1 | 2.14 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 6 | 2.14 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 7 | 2.14 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 11 | 2.14 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 13 | 2.14 |
| (1,1510) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 15 | 2.14 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 8 | 2.14 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 9 | 2.14 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 13 | 2.14 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 19 | 2.14 |
| (1,1368) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 11 | 2.14 |
| (1,1332) | 1:125:A:PHE:HA | 1:126:A:SER:H | 14 | 2.14 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 3 | 2.14 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 8 | 2.14 |
| (1,1318) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 17 | 2.14 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 8 | 2.14 |
| (1,1308) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 13 | 2.14 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 3 | 2.14 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 10 | 2.14 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 19 | 2.14 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 19 | 2.14 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 19 | 2.14 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 16 | 2.14 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 16 | 2.14 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 16 | 2.14 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 8 | 2.14 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 8 | 2.14 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 13 | 2.14 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 13 | 2.14 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 2 | 2.14 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 2 | 2.14 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 14 | 2.14 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 14 | 2.14 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 1 | 2.14 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 13 | 2.14 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 13 | 2.14 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 13 | 2.14 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 18 | 2.14 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 18 | 2.14 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 18 | 2.14 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 2 | 2.14 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 2 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 7 | 2.14 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 7 | 2.14 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 6 | 2.14 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 17 | 2.14 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 17 | 2.14 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 17 | 2.14 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 11 | 2.14 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 11 | 2.14 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 11 | 2.14 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 2 | 2.14 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 14 | 2.14 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 14 | 2.14 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 7 | 2.14 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 7 | 2.14 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 13 | 2.14 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 13 | 2.14 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 17 | 2.14 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 17 | 2.14 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 2 | 2.14 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 4 | 2.14 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 9 | 2.14 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 16 | 2.14 |
| (1,796) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 20 | 2.14 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 12 | 2.14 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 7 | 2.14 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 7 | 2.14 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 7 | 2.14 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 7 | 2.14 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 7 | 2.14 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 7 | 2.14 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 7 | 2.14 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 7 | 2.14 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 7 | 2.14 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 13 | 2.14 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 13 | 2.14 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 13 | 2.14 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 13 | 2.14 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 13 | 2.14 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 13 | 2.14 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 13 | 2.14 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 13 | 2.14 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 13 | 2.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 4 | 2.14 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 4 | 2.14 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 8 | 2.14 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 5 | 2.14 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 20 | 2.14 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 8 | 2.14 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 17 | 2.14 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 17 | 2.14 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 4 | 2.14 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 4 | 2.14 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 4 | 2.14 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 8 | 2.14 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 4 | 2.14 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 4 | 2.14 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 4 | 2.14 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 4 | 2.14 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 4 | 2.14 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 4 | 2.14 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 6 | 2.14 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 3 | 2.14 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 2 | 2.14 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 2 | 2.14 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 2 | 2.14 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 16 | 2.14 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 16 | 2.14 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 16 | 2.14 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 19 | 2.14 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 19 | 2.14 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 19 | 2.14 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 18 | 2.14 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 18 | 2.14 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 18 | 2.14 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 15 | 2.13 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 20 | 2.13 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 20 | 2.13 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 20 | 2.13 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 9 | 2.13 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 9 | 2.13 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 9 | 2.13 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 6 | 2.13 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 6 | 2.13 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 6 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 6 | 2.13 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 6 | 2.13 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 6 | 2.13 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 3 | 2.13 |
| (1,9613) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 3 | 2.13 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 3 | 2.13 |
| (1,9613) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 3 | 2.13 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 3 | 2.13 |
| (1,9613) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 3 | 2.13 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 11 | 2.13 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 11 | 2.13 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 11 | 2.13 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 11 | 2.13 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 11 | 2.13 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 11 | 2.13 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 14 | 2.13 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 14 | 2.13 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB2 | 12 | 2.13 |
| (1,9400) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HB3 | 12 | 2.13 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB2 | 12 | 2.13 |
| (1,9400) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HB3 | 12 | 2.13 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 15 | 2.13 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 15 | 2.13 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 15 | 2.13 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 15 | 2.13 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 15 | 2.13 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 15 | 2.13 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 14 | 2.13 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 14 | 2.13 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 10 | 2.13 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 10 | 2.13 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 17 | 2.13 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 17 | 2.13 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 1 | 2.13 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 1 | 2.13 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 3 | 2.13 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 3 | 2.13 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB2 | 15 | 2.13 |
| (1,9287) | 1:104:A:GLU:H | 1:104:A:GLU:HB3 | 15 | 2.13 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 8 | 2.13 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 8 | 2.13 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 17 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 17 | 2.13 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 9 | 2.13 |
| (1,9162) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 9 | 2.13 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 9 | 2.13 |
| (1,9162) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 9 | 2.13 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 9 | 2.13 |
| (1,9162) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 9 | 2.13 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 18 | 2.13 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 18 | 2.13 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 4 | 2.13 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 4 | 2.13 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 12 | 2.13 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 12 | 2.13 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 12 | 2.13 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 12 | 2.13 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE2 | 4 | 2.13 |
| (1,8911) | 1:66:A:GLN:HB2 | 1:82:A:LYS:HE3 | 4 | 2.13 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE2 | 4 | 2.13 |
| (1,8911) | 1:66:A:GLN:HB3 | 1:82:A:LYS:HE3 | 4 | 2.13 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 18 | 2.13 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 18 | 2.13 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 8 | 2.13 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 8 | 2.13 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 20 | 2.13 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 20 | 2.13 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 20 | 2.13 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 20 | 2.13 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 20 | 2.13 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 20 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 6 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 6 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 6 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 6 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 6 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 6 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 19 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 19 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 19 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 19 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 19 | 2.13 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 19 | 2.13 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 2 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 2 | 2.13 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 9 | 2.13 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 9 | 2.13 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 10 | 2.13 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 10 | 2.13 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 8 | 2.13 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 8 | 2.13 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 8 | 2.13 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 8 | 2.13 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 7 | 2.13 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 7 | 2.13 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 7 | 2.13 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 7 | 2.13 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 1 | 2.13 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 1 | 2.13 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 10 | 2.13 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 10 | 2.13 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 12 | 2.13 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 12 | 2.13 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 12 | 2.13 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 12 | 2.13 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 9 | 2.13 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 9 | 2.13 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 12 | 2.13 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 12 | 2.13 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 14 | 2.13 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 14 | 2.13 |
| (1,8589) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 20 | 2.13 |
| (1,8589) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 20 | 2.13 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 18 | 2.13 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 18 | 2.13 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 18 | 2.13 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 18 | 2.13 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 2 | 2.13 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 2 | 2.13 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 14 | 2.13 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 14 | 2.13 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 14 | 2.13 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 14 | 2.13 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 14 | 2.13 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 14 | 2.13 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 2 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8080) | 1:91:A:GLY:H | 1:92:A:TYR:H | 3 | 2.13 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 10 | 2.13 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 3 | 2.13 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 13 | 2.13 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 19 | 2.13 |
| (1,7853) | 1:62:A:VAL:HB | 1:63:A:LYS:H | 19 | 2.13 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 4 | 2.13 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 1 | 2.13 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 1 | 2.13 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 1 | 2.13 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 18 | 2.13 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 18 | 2.13 |
| (1,7264) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 18 | 2.13 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 14 | 2.13 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 13 | 2.13 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 13 | 2.13 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 16 | 2.13 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 16 | 2.13 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 1 | 2.13 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 19 | 2.13 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 19 | 2.13 |
| (1,6920) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 19 | 2.13 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 13 | 2.13 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 13 | 2.13 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 13 | 2.13 |
| (1,6818) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 1 | 2.13 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 12 | 2.13 |
| (1,6791) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 12 | 2.13 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 12 | 2.13 |
| (1,6791) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 12 | 2.13 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 6 | 2.13 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 6 | 2.13 |
| (1,6617) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 6 | 2.13 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 4 | 2.13 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 4 | 2.13 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 4 | 2.13 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 10 | 2.13 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 10 | 2.13 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 10 | 2.13 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 10 | 2.13 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 10 | 2.13 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 10 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 10 | 2.13 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 10 | 2.13 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 10 | 2.13 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 9 | 2.13 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 9 | 2.13 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 9 | 2.13 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 12 | 2.13 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 12 | 2.13 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 12 | 2.13 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 3 | 2.13 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 3 | 2.13 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG2 | 11 | 2.13 |
| (1,5985) | 1:130:A:MET:HB2 | 1:130:A:MET:HG3 | 11 | 2.13 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 7 | 2.13 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 7 | 2.13 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 7 | 2.13 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 13 | 2.13 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 13 | 2.13 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 13 | 2.13 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 5 | 2.13 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 5 | 2.13 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 12 | 2.13 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 12 | 2.13 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 18 | 2.13 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 18 | 2.13 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 10 | 2.13 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 10 | 2.13 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 10 | 2.13 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 13 | 2.13 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 13 | 2.13 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 13 | 2.13 |
| (1,5797) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 18 | 2.13 |
| (1,5797) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 18 | 2.13 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 18 | 2.13 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 18 | 2.13 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 18 | 2.13 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 18 | 2.13 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 7 | 2.13 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 7 | 2.13 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 7 | 2.13 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 20 | 2.13 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 20 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 20 | 2.13 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 2 | 2.13 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 8 | 2.13 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 14 | 2.13 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 3 | 2.13 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 3 | 2.13 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 3 | 2.13 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 20 | 2.13 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 20 | 2.13 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 20 | 2.13 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 9 | 2.13 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 9 | 2.13 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 9 | 2.13 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 20 | 2.13 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 20 | 2.13 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 20 | 2.13 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 12 | 2.13 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 12 | 2.13 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 12 | 2.13 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 12 | 2.13 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 12 | 2.13 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 12 | 2.13 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 12 | 2.13 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 12 | 2.13 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 12 | 2.13 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 9 | 2.13 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 9 | 2.13 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 9 | 2.13 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 3 | 2.13 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 3 | 2.13 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 3 | 2.13 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 3 | 2.13 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 20 | 2.13 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 20 | 2.13 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 20 | 2.13 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 20 | 2.13 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 18 | 2.13 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 18 | 2.13 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 18 | 2.13 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 3 | 2.13 |
| (1,4604) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 3 | 2.13 |
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 3 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4604) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 3 | 2.13 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 3 | 2.13 |
| (1,4604) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 3 | 2.13 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 11 | 2.13 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 11 | 2.13 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 11 | 2.13 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 11 | 2.13 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 11 | 2.13 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 11 | 2.13 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 15 | 2.13 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 15 | 2.13 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 15 | 2.13 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 11 | 2.13 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 11 | 2.13 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 11 | 2.13 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 11 | 2.13 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 11 | 2.13 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 11 | 2.13 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 14 | 2.13 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 14 | 2.13 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 9 | 2.13 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 10 | 2.13 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 10 | 2.13 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 17 | 2.13 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 17 | 2.13 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 11 | 2.13 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 11 | 2.13 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 11 | 2.13 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 11 | 2.13 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 20 | 2.13 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 17 | 2.13 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 17 | 2.13 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 17 | 2.13 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 9 | 2.13 |
| (1,4132) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 9 | 2.13 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 9 | 2.13 |
| (1,4132) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 9 | 2.13 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 9 | 2.13 |
| (1,4132) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 9 | 2.13 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 1 | 2.13 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 1 | 2.13 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 15 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 15 | 2.13 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 17 | 2.13 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 12 | 2.13 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 12 | 2.13 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 12 | 2.13 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 12 | 2.13 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 3 | 2.13 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 7 | 2.13 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 16 | 2.13 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 7 | 2.13 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 7 | 2.13 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 7 | 2.13 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 7 | 2.13 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 7 | 2.13 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 7 | 2.13 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 8 | 2.13 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 8 | 2.13 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 8 | 2.13 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 8 | 2.13 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 8 | 2.13 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 8 | 2.13 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 2.13 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 2 | 2.13 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 2 | 2.13 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 16 | 2.13 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 9 | 2.13 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 9 | 2.13 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 10 | 2.13 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 10 | 2.13 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 10 | 2.13 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 18 | 2.13 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 18 | 2.13 |
| (1,3476) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 18 | 2.13 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 19 | 2.13 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 19 | 2.13 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 14 | 2.13 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 4 | 2.13 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 4 | 2.13 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 14 | 2.13 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 5 | 2.13 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 5 | 2.13 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 19 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 19 | 2.13 |
| (1,3159) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 3 | 2.13 |
| (1,3159) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 3 | 2.13 |
| (1,3159) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 3 | 2.13 |
| (1,3114) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 4 | 2.13 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 5 | 2.13 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 7 | 2.13 |
| (1,3022) | 1:35:A:GLU:HB2 | 1:35:A:GLU:HG3 | 17 | 2.13 |
| (1,3022) | 1:35:A:GLU:HB3 | 1:35:A:GLU:HG3 | 17 | 2.13 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 1 | 2.13 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 19 | 2.13 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 19 | 2.13 |
| (1,2936) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 19 | 2.13 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 15 | 2.13 |
| (1,2800) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 1 | 2.13 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 7 | 2.13 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 12 | 2.13 |
| (1,2762) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 12 | 2.13 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 12 | 2.13 |
| (1,2762) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 12 | 2.13 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 6 | 2.13 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 6 | 2.13 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 6 | 2.13 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 7 | 2.13 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 2.13 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 7 | 2.13 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 4 | 2.13 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 4 | 2.13 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG2 | 15 | 2.13 |
| (1,2510) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HG3 | 15 | 2.13 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 6 | 2.13 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 6 | 2.13 |
| (1,2474) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 6 | 2.13 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 8 | 2.13 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 7 | 2.13 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 4 | 2.13 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 4 | 2.13 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 4 | 2.13 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 19 | 2.13 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 19 | 2.13 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 19 | 2.13 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 6 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 12 | 2.13 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 2 | 2.13 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 18 | 2.13 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 18 | 2.13 |
| (1,2154) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 18 | 2.13 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 18 | 2.13 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 18 | 2.13 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 18 | 2.13 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 15 | 2.13 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 15 | 2.13 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 15 | 2.13 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 1 | 2.13 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 1 | 2.13 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 1 | 2.13 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 3 | 2.13 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 3 | 2.13 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 3 | 2.13 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 3 | 2.13 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 3 | 2.13 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 3 | 2.13 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 3 | 2.13 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 3 | 2.13 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 3 | 2.13 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 8 | 2.13 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 8 | 2.13 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 8 | 2.13 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 3 | 2.13 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 13 | 2.13 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 2 | 2.13 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 5 | 2.13 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 5 | 2.13 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 5 | 2.13 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 2.13 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 14 | 2.13 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 14 | 2.13 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 14 | 2.13 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 14 | 2.13 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 14 | 2.13 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 14 | 2.13 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 12 | 2.13 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 12 | 2.13 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 12 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 3 | 2.13 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 3 | 2.13 |
| (1,1526) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 18 | 2.13 |
| (1,1526) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 18 | 2.13 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 20 | 2.13 |
| (1,1520) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 20 | 2.13 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG2 | 18 | 2.13 |
| (1,1512) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HG3 | 18 | 2.13 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 1 | 2.13 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 7 | 2.13 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 7 | 2.13 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 7 | 2.13 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 13 | 2.13 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 13 | 2.13 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 13 | 2.13 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG2 | 15 | 2.13 |
| (1,1240) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HG3 | 15 | 2.13 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 5 | 2.13 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 5 | 2.13 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 12 | 2.13 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 12 | 2.13 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 18 | 2.13 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 18 | 2.13 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 20 | 2.13 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 20 | 2.13 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 10 | 2.13 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 10 | 2.13 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 10 | 2.13 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 13 | 2.13 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 13 | 2.13 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 13 | 2.13 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 18 | 2.13 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 7 | 2.13 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 7 | 2.13 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 7 | 2.13 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 18 | 2.13 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 18 | 2.13 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 18 | 2.13 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 1 | 2.13 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 1 | 2.13 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 11 | 2.13 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 11 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 15 | 2.13 |
| (1,804) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 15 | 2.13 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 18 | 2.13 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 18 | 2.13 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 14 | 2.13 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 8 | 2.13 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 9 | 2.13 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 13 | 2.13 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 20 | 2.13 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 7 | 2.13 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 7 | 2.13 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 7 | 2.13 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 20 | 2.13 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 20 | 2.13 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 20 | 2.13 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 2 | 2.13 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 2 | 2.13 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 2 | 2.13 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 8 | 2.13 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 8 | 2.13 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 8 | 2.13 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 8 | 2.13 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 8 | 2.13 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 8 | 2.13 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 7 | 2.13 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 7 | 2.13 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 7 | 2.13 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 12 | 2.13 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 11 | 2.13 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 11 | 2.13 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 11 | 2.13 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 11 | 2.13 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 11 | 2.13 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 11 | 2.13 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 2 | 2.13 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 2 | 2.13 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 2 | 2.13 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 5 | 2.13 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 17 | 2.13 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 17 | 2.13 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 17 | 2.13 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 17 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 17 | 2.13 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 17 | 2.13 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 4 | 2.13 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 8 | 2.13 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 4 | 2.13 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 9 | 2.13 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 7 | 2.13 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 7 | 2.13 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 7 | 2.13 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 7 | 2.13 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 7 | 2.13 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 7 | 2.13 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 7 | 2.13 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 7 | 2.13 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 7 | 2.13 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 5 | 2.13 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 5 | 2.13 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 5 | 2.13 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 10 | 2.13 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 10 | 2.13 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 10 | 2.13 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 20 | 2.13 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 20 | 2.13 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 20 | 2.13 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 8 | 2.13 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG21 | 12 | 2.12 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG22 | 12 | 2.12 |
| (3,798) | 1:49:A:GLN:HE21 | 1:143:A:THR:HG23 | 12 | 2.12 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG21 | 12 | 2.12 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG22 | 12 | 2.12 |
| (3,798) | 1:49:A:GLN:HE22 | 1:143:A:THR:HG23 | 12 | 2.12 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 5 | 2.12 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 5 | 2.12 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 5 | 2.12 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 9 | 2.12 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 9 | 2.12 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 9 | 2.12 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 9 | 2.12 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 9 | 2.12 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 9 | 2.12 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 1 | 2.12 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 1 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 1 | 2.12 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 1 | 2.12 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 1 | 2.12 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 1 | 2.12 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 11 | 2.12 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 11 | 2.12 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 11 | 2.12 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 11 | 2.12 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 11 | 2.12 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 11 | 2.12 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 11 | 2.12 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 11 | 2.12 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 5 | 2.12 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 5 | 2.12 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 5 | 2.12 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 5 | 2.12 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 3 | 2.12 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 3 | 2.12 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 13 | 2.12 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 13 | 2.12 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 19 | 2.12 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 19 | 2.12 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 2 | 2.12 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 2 | 2.12 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 12 | 2.12 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 12 | 2.12 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 16 | 2.12 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 16 | 2.12 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 19 | 2.12 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 19 | 2.12 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 13 | 2.12 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 13 | 2.12 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 13 | 2.12 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 13 | 2.12 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 3 | 2.12 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 3 | 2.12 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 3 | 2.12 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 3 | 2.12 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 20 | 2.12 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 20 | 2.12 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 20 | 2.12 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 20 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 15 | 2.12 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 15 | 2.12 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 11 | 2.12 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 11 | 2.12 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 17 | 2.12 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 17 | 2.12 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 17 | 2.12 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 17 | 2.12 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 17 | 2.12 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 17 | 2.12 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 13 | 2.12 |
| (1,9077) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 13 | 2.12 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD2 | 18 | 2.12 |
| (1,9022) | 1:80:A:ARG:H | 1:80:A:ARG:HD3 | 18 | 2.12 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 7 | 2.12 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 7 | 2.12 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 7 | 2.12 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 7 | 2.12 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 7 | 2.12 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 7 | 2.12 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 7 | 2.12 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 7 | 2.12 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 8 | 2.12 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 8 | 2.12 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 11 | 2.12 |
| (1,8879) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 11 | 2.12 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 11 | 2.12 |
| (1,8879) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 11 | 2.12 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 15 | 2.12 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 15 | 2.12 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 15 | 2.12 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 15 | 2.12 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 15 | 2.12 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 15 | 2.12 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 5 | 2.12 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 5 | 2.12 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 11 | 2.12 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 11 | 2.12 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 11 | 2.12 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 11 | 2.12 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 12 | 2.12 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 12 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 13 | 2.12 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 13 | 2.12 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 13 | 2.12 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 13 | 2.12 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 11 | 2.12 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 11 | 2.12 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 17 | 2.12 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 17 | 2.12 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 3 | 2.12 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 3 | 2.12 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 3 | 2.12 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 3 | 2.12 |
| (1,8452) | 1:147:A:SER:HB2 | 1:148:A:GLY:H | 15 | 2.12 |
| (1,8452) | 1:147:A:SER:HB3 | 1:148:A:GLY:H | 15 | 2.12 |
| (1,8303) | 1:127:A:ARG:HG3 | 1:128:A:GLY:H | 9 | 2.12 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 1 | 2.12 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 7 | 2.12 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 14 | 2.12 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 14 | 2.12 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 14 | 2.12 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 14 | 2.12 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 14 | 2.12 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 14 | 2.12 |
| (1,7703) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 11 | 2.12 |
| (1,7703) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 11 | 2.12 |
| (1,7601) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 14 | 2.12 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 17 | 2.12 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 16 | 2.12 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 2 | 2.12 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD2 | 4 | 2.12 |
| (1,7322) | 1:69:A:ARG:HA | 1:69:A:ARG:HD3 | 4 | 2.12 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 6 | 2.12 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 6 | 2.12 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 9 | 2.12 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 9 | 2.12 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 12 | 2.12 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 12 | 2.12 |
| (1,7050) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 11 | 2.12 |
| (1,7050) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 11 | 2.12 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 15 | 2.12 |
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 15 | 2.12 |
| (1,7036) | 1:39:A:GLY:HA2 | 1:40:A:ASN:H | 17 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7036) | 1:39:A:GLY:HA3 | 1:40:A:ASN:H | 17 | 2.12 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 20 | 2.12 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 16 | 2.12 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 11 | 2.12 |
| (1,6553) | 1:10:A:GLY:H | 1:11:A:TRP:H | 17 | 2.12 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 17 | 2.12 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 17 | 2.12 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 17 | 2.12 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 6 | 2.12 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 6 | 2.12 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 6 | 2.12 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 8 | 2.12 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 8 | 2.12 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 8 | 2.12 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 10 | 2.12 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 10 | 2.12 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 10 | 2.12 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 15 | 2.12 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 15 | 2.12 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 15 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 18 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 18 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 18 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 18 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 18 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 18 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 18 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 18 | 2.12 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 18 | 2.12 |
| (1,6284) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 2 | 2.12 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 10 | 2.12 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 10 | 2.12 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 18 | 2.12 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 18 | 2.12 |
| (1,6123) | 1:139:A:PHE:H | 1:140:A:ALA:H | 11 | 2.12 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 4 | 2.12 |
| (1,5983) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 15 | 2.12 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 6 | 2.12 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 6 | 2.12 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 6 | 2.12 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 18 | 2.12 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 18 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 18 | 2.12 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 11 | 2.12 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 11 | 2.12 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 11 | 2.12 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 18 | 2.12 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 3 | 2.12 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 11 | 2.12 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 14 | 2.12 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 1 | 2.12 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 11 | 2.12 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 18 | 2.12 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 11 | 2.12 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 11 | 2.12 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 11 | 2.12 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 11 | 2.12 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 11 | 2.12 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 11 | 2.12 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 11 | 2.12 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 11 | 2.12 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 11 | 2.12 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 14 | 2.12 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 14 | 2.12 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 14 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 6 | 2.12 |
| (1,5434) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 6 | 2.12 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 6 | 2.12 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 6 | 2.12 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 6 | 2.12 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 5 | 2.12 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 15 | 2.12 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 15 | 2.12 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 15 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 8 | 2.12 |
| (1,5226) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 16 | 2.12 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 2 | 2.12 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 2 | 2.12 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 2 | 2.12 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 8 | 2.12 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 8 | 2.12 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 8 | 2.12 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 14 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 8 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 8 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 8 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 8 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 8 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 8 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 12 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 12 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 12 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 12 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 12 | 2.12 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 12 | 2.12 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 18 | 2.12 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 7 | 2.12 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 7 | 2.12 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 2.12 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 4 | 2.12 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 4 | 2.12 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 4 | 2.12 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 4 | 2.12 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 4 | 2.12 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 4 | 2.12 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 19 | 2.12 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 19 | 2.12 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 19 | 2.12 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 11 | 2.12 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 11 | 2.12 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 11 | 2.12 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 11 | 2.12 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 11 | 2.12 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 11 | 2.12 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 16 | 2.12 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 16 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 13 | 2.12 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 13 | 2.12 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 9 | 2.12 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 11 | 2.12 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 11 | 2.12 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 6 | 2.12 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 6 | 2.12 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 10 | 2.12 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 10 | 2.12 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 15 | 2.12 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 15 | 2.12 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 15 | 2.12 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 15 | 2.12 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 15 | 2.12 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 15 | 2.12 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 10 | 2.12 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 17 | 2.12 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 1 | 2.12 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 4 | 2.12 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 7 | 2.12 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 8 | 2.12 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 8 | 2.12 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 8 | 2.12 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 17 | 2.12 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 17 | 2.12 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 17 | 2.12 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 17 | 2.12 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 17 | 2.12 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 17 | 2.12 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 8 | 2.12 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 17 | 2.12 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 17 | 2.12 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 17 | 2.12 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 17 | 2.12 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 17 | 2.12 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 17 | 2.12 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 7 | 2.12 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 7 | 2.12 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 8 | 2.12 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 18 | 2.12 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 18 | 2.12 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 11 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 11 | 2.12 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 16 | 2.12 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 16 | 2.12 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 16 | 2.12 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 16 | 2.12 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 16 | 2.12 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 16 | 2.12 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 5 | 2.12 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 5 | 2.12 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 5 | 2.12 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 5 | 2.12 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 5 | 2.12 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 5 | 2.12 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 5 | 2.12 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 5 | 2.12 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 10 | 2.12 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 10 | 2.12 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 7 | 2.12 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 7 | 2.12 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 12 | 2.12 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 12 | 2.12 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 19 | 2.12 |
| (1,3614) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 8 | 2.12 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 17 | 2.12 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 17 | 2.12 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 14 | 2.12 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 18 | 2.12 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 18 | 2.12 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 18 | 2.12 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 18 | 2.12 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 18 | 2.12 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 18 | 2.12 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 7 | 2.12 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 18 | 2.12 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 2 | 2.12 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 2 | 2.12 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 9 | 2.12 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 16 | 2.12 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 2 | 2.12 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 2 | 2.12 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 2 | 2.12 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 14 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 14 | 2.12 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 14 | 2.12 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 6 | 2.12 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 6 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 7 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 7 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 7 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 7 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 7 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 7 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 11 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 11 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 11 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 11 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 11 | 2.12 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 11 | 2.12 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD1 | 14 | 2.12 |
| (1,2745) | 1:23:A:TYR:HB3 | 1:24:A:TYR:HD2 | 14 | 2.12 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 18 | 2.12 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 18 | 2.12 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 18 | 2.12 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 18 | 2.12 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 18 | 2.12 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 18 | 2.12 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 18 | 2.12 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 18 | 2.12 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 18 | 2.12 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 18 | 2.12 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 18 | 2.12 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 11 | 2.12 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 11 | 2.12 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 11 | 2.12 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 11 | 2.12 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 11 | 2.12 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 11 | 2.12 |
| (1,2404) | 1:10:A:GLY:H | 1:11:A:TRP:H | 17 | 2.12 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 17 | 2.12 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 17 | 2.12 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 17 | 2.12 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 14 | 2.12 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 6 | 2.12 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 6 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 6 | 2.12 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 8 | 2.12 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 8 | 2.12 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 8 | 2.12 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 14 | 2.12 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 14 | 2.12 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 14 | 2.12 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 10 | 2.12 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 10 | 2.12 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 10 | 2.12 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 15 | 2.12 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 15 | 2.12 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 15 | 2.12 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 7 | 2.12 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 7 | 2.12 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 7 | 2.12 |
| (1,2144) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 12 | 2.12 |
| (1,2144) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 12 | 2.12 |
| (1,2144) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 12 | 2.12 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 9 | 2.12 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 9 | 2.12 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 9 | 2.12 |
| (1,1949) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 12 | 2.12 |
| (1,1949) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 12 | 2.12 |
| (1,1949) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 12 | 2.12 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 9 | 2.12 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 2 | 2.12 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 2 | 2.12 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 2 | 2.12 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 10 | 2.12 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 10 | 2.12 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 10 | 2.12 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 5 | 2.12 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 13 | 2.12 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 15 | 2.12 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 15 | 2.12 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 18 | 2.12 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 18 | 2.12 |
| (1,1710) | 1:139:A:PHE:H | 1:140:A:ALA:H | 11 | 2.12 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 6 | 2.12 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 6 | 2.12 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 6 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 6 | 2.12 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 6 | 2.12 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 6 | 2.12 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 6 | 2.12 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 6 | 2.12 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 6 | 2.12 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 12 | 2.12 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 12 | 2.12 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 12 | 2.12 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 2 | 2.12 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 4 | 2.12 |
| (1,1476) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 15 | 2.12 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 14 | 2.12 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 11 | 2.12 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 11 | 2.12 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 11 | 2.12 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 6 | 2.12 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 6 | 2.12 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 6 | 2.12 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 6 | 2.12 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 6 | 2.12 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 6 | 2.12 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 6 | 2.12 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 6 | 2.12 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 6 | 2.12 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 6 | 2.12 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 18 | 2.12 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 18 | 2.12 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 18 | 2.12 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 20 | 2.12 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 20 | 2.12 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 20 | 2.12 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 20 | 2.12 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 20 | 2.12 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 20 | 2.12 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 17 | 2.12 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 11 | 2.12 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 11 | 2.12 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 11 | 2.12 |
| (1,1064) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 8 | 2.12 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 20 | 2.12 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 9 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 9 | 2.12 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 9 | 2.12 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 3 | 2.12 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 11 | 2.12 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 14 | 2.12 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 12 | 2.12 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 11 | 2.12 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 1 | 2.12 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 13 | 2.12 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 4 | 2.12 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 7 | 2.12 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 11 | 2.12 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 11 | 2.12 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 11 | 2.12 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 11 | 2.12 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 11 | 2.12 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 11 | 2.12 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 11 | 2.12 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 11 | 2.12 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 11 | 2.12 |
| (1,610) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 15 | 2.12 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 18 | 2.12 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 14 | 2.12 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 14 | 2.12 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 14 | 2.12 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 15 | 2.12 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 15 | 2.12 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 15 | 2.12 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 15 | 2.12 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 15 | 2.12 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 15 | 2.12 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 10 | 2.12 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 10 | 2.12 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 10 | 2.12 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 10 | 2.12 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 10 | 2.12 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 10 | 2.12 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 16 | 2.12 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 16 | 2.12 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 16 | 2.12 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 7 | 2.12 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 7 | 2.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 7 | 2.12 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 7 | 2.12 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 7 | 2.12 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 7 | 2.12 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 13 | 2.12 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 9 | 2.12 |
| (1,297) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 4 | 2.12 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 9 | 2.12 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 9 | 2.12 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 9 | 2.12 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 9 | 2.12 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 20 | 2.12 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 14 | 2.12 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 14 | 2.12 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 16 | 2.12 |
| (1,225) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 20 | 2.12 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 20 | 2.12 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 20 | 2.12 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 19 | 2.12 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 19 | 2.12 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 19 | 2.12 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 2.12 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 2.12 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 2.12 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 11 | 2.12 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 11 | 2.12 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 11 | 2.12 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 11 | 2.12 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 11 | 2.12 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 11 | 2.12 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 2 | 2.12 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 2 | 2.12 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 2 | 2.12 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 7 | 2.11 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 1 | 2.11 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 1 | 2.11 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 16 | 2.11 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 10 | 2.11 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 6 | 2.11 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 7 | 2.11 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 10 | 2.11 |
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD2 | 10 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9626) | 1:161:A:ARG:HA | 1:161:A:ARG:HD3 | 10 | 2.11 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 12 | 2.11 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 12 | 2.11 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 13 | 2.11 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 13 | 2.11 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 19 | 2.11 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 19 | 2.11 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 2.11 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 2.11 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 10 | 2.11 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 10 | 2.11 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 17 | 2.11 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 17 | 2.11 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 15 | 2.11 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 15 | 2.11 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 15 | 2.11 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 15 | 2.11 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 12 | 2.11 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 12 | 2.11 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 12 | 2.11 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 12 | 2.11 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 11 | 2.11 |
| (1,9406) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 11 | 2.11 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 8 | 2.11 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 8 | 2.11 |
| (1,9397) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 13 | 2.11 |
| (1,9397) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 13 | 2.11 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 19 | 2.11 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 19 | 2.11 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 19 | 2.11 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 19 | 2.11 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 19 | 2.11 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 19 | 2.11 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 9 | 2.11 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 9 | 2.11 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 10 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 10 | 2.11 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD2 | 17 | 2.11 |
| (1,9231) | 1:97:A:LYS:HA | 1:97:A:LYS:HD3 | 17 | 2.11 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 18 | 2.11 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 18 | 2.11 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 5 | 2.11 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 5 | 2.11 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 4 | 2.11 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 4 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 5 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 5 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 5 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 5 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 15 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 15 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 15 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 15 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 20 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 20 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 20 | 2.11 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 20 | 2.11 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 12 | 2.11 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 12 | 2.11 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 12 | 2.11 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 12 | 2.11 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 20 | 2.11 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 20 | 2.11 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 9 | 2.11 |
| (1,8668) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 9 | 2.11 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 7 | 2.11 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 7 | 2.11 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 7 | 2.11 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 2 | 2.11 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 2 | 2.11 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 2 | 2.11 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 8 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 9 | 2.11 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 2 | 2.11 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 15 | 2.11 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 15 | 2.11 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 15 | 2.11 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 15 | 2.11 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 15 | 2.11 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 15 | 2.11 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 15 | 2.11 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 15 | 2.11 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 15 | 2.11 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 9 | 2.11 |
| (1,7735) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 12 | 2.11 |
| (1,7735) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 12 | 2.11 |
| (1,7617) | 1:26:A:ASN:HB2 | 1:29:A:THR:H | 18 | 2.11 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 16 | 2.11 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 16 | 2.11 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 11 | 2.11 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 11 | 2.11 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 11 | 2.11 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 14 | 2.11 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 14 | 2.11 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 14 | 2.11 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 9 | 2.11 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 19 | 2.11 |
| (1,7277) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 1 | 2.11 |
| (1,7074) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 7 | 2.11 |
| (1,7074) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 7 | 2.11 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 2 | 2.11 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 2 | 2.11 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 18 | 2.11 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 18 | 2.11 |
| (1,7054) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 19 | 2.11 |
| (1,7054) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 19 | 2.11 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 14 | 2.11 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 14 | 2.11 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 6 | 2.11 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 11 | 2.11 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 18 | 2.11 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 18 | 2.11 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 18 | 2.11 |
| (1,6880) | 1:28:A:ILE:HB | 1:29:A:THR:H | 14 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 10 | 2.11 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 10 | 2.11 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 10 | 2.11 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 10 | 2.11 |
| (1,6635) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 11 | 2.11 |
| (1,6531) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 4 | 2.11 |
| (1,6531) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 4 | 2.11 |
| (1,6531) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 4 | 2.11 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 14 | 2.11 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 14 | 2.11 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 14 | 2.11 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 3 | 2.11 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 3 | 2.11 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 3 | 2.11 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 11 | 2.11 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 11 | 2.11 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 11 | 2.11 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 10 | 2.11 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 10 | 2.11 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 10 | 2.11 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 11 | 2.11 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 11 | 2.11 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 11 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 7 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 7 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 7 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 7 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 7 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 7 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 7 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 7 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 7 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 11 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 11 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 11 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 11 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 11 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 11 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 11 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 11 | 2.11 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 11 | 2.11 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 12 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 12 | 2.11 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 12 | 2.11 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 12 | 2.11 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 12 | 2.11 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 12 | 2.11 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 12 | 2.11 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 12 | 2.11 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 12 | 2.11 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 12 | 2.11 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 5 | 2.11 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 5 | 2.11 |
| (1,6229) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 10 | 2.11 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 15 | 2.11 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 15 | 2.11 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 15 | 2.11 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 17 | 2.11 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 17 | 2.11 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 17 | 2.11 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 18 | 2.11 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 18 | 2.11 |
| (1,6025) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 19 | 2.11 |
| (1,6023) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 3 | 2.11 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 9 | 2.11 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 15 | 2.11 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 15 | 2.11 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 15 | 2.11 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 16 | 2.11 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 7 | 2.11 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 7 | 2.11 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 7 | 2.11 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 11 | 2.11 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 11 | 2.11 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 11 | 2.11 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 10 | 2.11 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 15 | 2.11 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 17 | 2.11 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 3 | 2.11 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 14 | 2.11 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 2.11 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 2.11 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 2.11 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 2.11 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 2.11 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 2.11 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 2.11 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 2.11 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 2 | 2.11 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 5 | 2.11 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 11 | 2.11 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 11 | 2.11 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 11 | 2.11 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 11 | 2.11 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 11 | 2.11 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 11 | 2.11 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 11 | 2.11 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 11 | 2.11 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 11 | 2.11 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 10 | 2.11 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 10 | 2.11 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 10 | 2.11 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 12 | 2.11 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 4 | 2.11 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 15 | 2.11 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 4 | 2.11 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 4 | 2.11 |
| (1,5057) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 4 | 2.11 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 2 | 2.11 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 13 | 2.11 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 13 | 2.11 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 13 | 2.11 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 13 | 2.11 |
| (1,4663) | 1:53:A:ALA:H | 1:54:A:ARG:H | 3 | 2.11 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 9 | 2.11 |
| (1,4624) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 19 | 2.11 |
| (1,4624) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 19 | 2.11 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 12 | 2.11 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 12 | 2.11 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 14 | 2.11 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 14 | 2.11 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 14 | 2.11 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 16 | 2.11 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 16 | 2.11 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 19 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 19 | 2.11 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 18 | 2.11 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 2.11 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 2.11 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 17 | 2.11 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 17 | 2.11 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 20 | 2.11 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 20 | 2.11 |
| (1,4375) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 19 | 2.11 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 3 | 2.11 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 3 | 2.11 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 3 | 2.11 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 3 | 2.11 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 3 | 2.11 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 3 | 2.11 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 9 | 2.11 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 9 | 2.11 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 8 | 2.11 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 3 | 2.11 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 3 | 2.11 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 3 | 2.11 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 3 | 2.11 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 3 | 2.11 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 3 | 2.11 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 6 | 2.11 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 11 | 2.11 |
| (1,4233) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 11 | 2.11 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 11 | 2.11 |
| (1,4233) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 11 | 2.11 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 2.11 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 2.11 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 2.11 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 2.11 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 2.11 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 2.11 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 6 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 6 | 2.11 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 6 | 2.11 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 17 | 2.11 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 17 | 2.11 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 17 | 2.11 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 17 | 2.11 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 17 | 2.11 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 17 | 2.11 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 11 | 2.11 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 11 | 2.11 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 11 | 2.11 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 19 | 2.11 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 11 | 2.11 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 11 | 2.11 |
| (1,3994) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 12 | 2.11 |
| (1,3994) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 12 | 2.11 |
| (1,3994) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 12 | 2.11 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 16 | 2.11 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 16 | 2.11 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 20 | 2.11 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 20 | 2.11 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 20 | 2.11 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 20 | 2.11 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 4 | 2.11 |
| (1,3822) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 4 | 2.11 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 4 | 2.11 |
| (1,3822) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 4 | 2.11 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 4 | 2.11 |
| (1,3822) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 4 | 2.11 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 15 | 2.11 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 15 | 2.11 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 11 | 2.11 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 11 | 2.11 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 19 | 2.11 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 19 | 2.11 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 19 | 2.11 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 19 | 2.11 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 16 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 16 | 2.11 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 3 | 2.11 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 3 | 2.11 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 3 | 2.11 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 3 | 2.11 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 20 | 2.11 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 16 | 2.11 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 16 | 2.11 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 16 | 2.11 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 16 | 2.11 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 16 | 2.11 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 16 | 2.11 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 10 | 2.11 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 10 | 2.11 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 18 | 2.11 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 18 | 2.11 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 18 | 2.11 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 19 | 2.11 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 19 | 2.11 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 19 | 2.11 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 7 | 2.11 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 7 | 2.11 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 7 | 2.11 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 9 | 2.11 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 9 | 2.11 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 9 | 2.11 |
| (1,3302) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 17 | 2.11 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 13 | 2.11 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 13 | 2.11 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 6 | 2.11 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 6 | 2.11 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 6 | 2.11 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 6 | 2.11 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 6 | 2.11 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 6 | 2.11 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 13 | 2.11 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 15 | 2.11 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 15 | 2.11 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 15 | 2.11 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 15 | 2.11 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 15 | 2.11 |
| (1,3130) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 7 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3130) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 7 | 2.11 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 9 | 2.11 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 9 | 2.11 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 19 | 2.11 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 19 | 2.11 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 11 | 2.11 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 3 | 2.11 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 14 | 2.11 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 14 | 2.11 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 10 | 2.11 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 10 | 2.11 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 1 | 2.11 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 1 | 2.11 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 6 | 2.11 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 11 | 2.11 |
| (1,2876) | 1:28:A:ILE:HB | 1:29:A:THR:H | 14 | 2.11 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 9 | 2.11 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 5 | 2.11 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 15 | 2.11 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 11 | 2.11 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 11 | 2.11 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 11 | 2.11 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 11 | 2.11 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 18 | 2.11 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 18 | 2.11 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 18 | 2.11 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 18 | 2.11 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 18 | 2.11 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 18 | 2.11 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 9 | 2.11 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 9 | 2.11 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 18 | 2.11 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 18 | 2.11 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 4 | 2.11 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 7 | 2.11 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 9 | 2.11 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 14 | 2.11 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 12 | 2.11 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 12 | 2.11 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 10 | 2.11 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 10 | 2.11 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 10 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 10 | 2.11 |
| (1,2500) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 11 | 2.11 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 2 | 2.11 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 10 | 2.11 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 1 | 2.11 |
| (1,2376) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 4 | 2.11 |
| (1,2376) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 4 | 2.11 |
| (1,2376) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 4 | 2.11 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 14 | 2.11 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 14 | 2.11 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 14 | 2.11 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 1 | 2.11 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 1 | 2.11 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 1 | 2.11 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 3 | 2.11 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 3 | 2.11 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 3 | 2.11 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 11 | 2.11 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 11 | 2.11 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 11 | 2.11 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 7 | 2.11 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 2.11 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 2.11 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 2.11 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 2.11 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 2.11 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 2.11 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 10 | 2.11 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 10 | 2.11 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 10 | 2.11 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 11 | 2.11 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 11 | 2.11 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 11 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 7 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 7 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 7 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 7 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 7 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 7 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 7 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 7 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 7 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 11 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 11 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 11 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 11 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 11 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 11 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 11 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 11 | 2.11 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 11 | 2.11 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 20 | 2.11 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 14 | 2.11 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 14 | 2.11 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 14 | 2.11 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 12 | 2.11 |
| (1,1860) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 10 | 2.11 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 10 | 2.11 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 10 | 2.11 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 10 | 2.11 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 8 | 2.11 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 15 | 2.11 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 15 | 2.11 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 15 | 2.11 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 5 | 2.11 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 18 | 2.11 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 18 | 2.11 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 18 | 2.11 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 5 | 2.11 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 5 | 2.11 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 5 | 2.11 |
| (1,1548) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 19 | 2.11 |
| (1,1542) | 1:132:A:LYS:H | 1:133:A:PRO:HD2 | 3 | 2.11 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 12 | 2.11 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 17 | 2.11 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 16 | 2.11 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 13 | 2.11 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 13 | 2.11 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 13 | 2.11 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 12 | 2.11 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 12 | 2.11 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 12 | 2.11 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 12 | 2.11 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 12 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 12 | 2.11 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 9 | 2.11 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 12 | 2.11 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 12 | 2.11 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 12 | 2.11 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 12 | 2.11 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 12 | 2.11 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 12 | 2.11 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 19 | 2.11 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 15 | 2.11 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 15 | 2.11 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 15 | 2.11 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 12 | 2.11 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 12 | 2.11 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 12 | 2.11 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 12 | 2.11 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 12 | 2.11 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 12 | 2.11 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 19 | 2.11 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 19 | 2.11 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 16 | 2.11 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 11 | 2.11 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 11 | 2.11 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 11 | 2.11 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 10 | 2.11 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 15 | 2.11 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 17 | 2.11 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 3 | 2.11 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 14 | 2.11 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 6 | 2.11 |
| (1,814) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 6 | 2.11 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 2.11 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 2.11 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 2.11 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 2.11 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 2.11 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 2.11 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 2.11 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 2.11 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 2.11 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 2 | 2.11 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 18 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 6 | 2.11 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 6 | 2.11 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 6 | 2.11 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 6 | 2.11 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 6 | 2.11 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 6 | 2.11 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 5 | 2.11 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 9 | 2.11 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 5 | 2.11 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 11 | 2.11 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 11 | 2.11 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 11 | 2.11 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 11 | 2.11 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 7 | 2.11 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 7 | 2.11 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 7 | 2.11 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 7 | 2.11 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 7 | 2.11 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 7 | 2.11 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 2 | 2.11 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 2 | 2.11 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 2 | 2.11 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 19 | 2.11 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 11 | 2.11 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 3 | 2.11 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 3 | 2.11 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 3 | 2.11 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 16 | 2.11 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 16 | 2.11 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 16 | 2.11 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 10 | 2.11 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 10 | 2.11 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 10 | 2.11 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 4 | 2.11 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 4 | 2.11 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 4 | 2.11 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 20 | 2.11 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 20 | 2.11 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 20 | 2.11 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 10 | 2.1 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 7 | 2.1 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 10 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 18 | 2.1 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 18 | 2.1 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 18 | 2.1 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 18 | 2.1 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 5 | 2.1 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 5 | 2.1 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 5 | 2.1 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 5 | 2.1 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 5 | 2.1 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 5 | 2.1 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 4 | 2.1 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 4 | 2.1 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 1 | 2.1 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 1 | 2.1 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 1 | 2.1 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 1 | 2.1 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 18 | 2.1 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 18 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 1 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 1 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 1 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 1 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 1 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 1 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 4 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 4 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 4 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 4 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 4 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 4 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 13 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 13 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 13 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 13 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 13 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 13 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 18 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 18 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 18 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 18 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 18 | 2.1 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 18 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 14 | 2.1 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 14 | 2.1 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 6 | 2.1 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 6 | 2.1 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 12 | 2.1 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 12 | 2.1 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 12 | 2.1 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 12 | 2.1 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 13 | 2.1 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 13 | 2.1 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 13 | 2.1 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 13 | 2.1 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 12 | 2.1 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 12 | 2.1 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 14 | 2.1 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 14 | 2.1 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 14 | 2.1 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 14 | 2.1 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 14 | 2.1 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 14 | 2.1 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 14 | 2.1 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 14 | 2.1 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 4 | 2.1 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 4 | 2.1 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 4 | 2.1 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 4 | 2.1 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 4 | 2.1 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 4 | 2.1 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 11 | 2.1 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 11 | 2.1 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 11 | 2.1 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 11 | 2.1 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 11 | 2.1 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 11 | 2.1 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB2 | 1 | 2.1 |
| (1,9020) | 1:80:A:ARG:H | 1:80:A:ARG:HB3 | 1 | 2.1 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 14 | 2.1 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 14 | 2.1 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 14 | 2.1 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 14 | 2.1 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE2 | 11 | 2.1 |
| (1,8874) | 1:63:A:LYS:HB2 | 1:63:A:LYS:HE3 | 11 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE2 | 11 | 2.1 |
| (1,8874) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HE3 | 11 | 2.1 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 7 | 2.1 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 7 | 2.1 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 7 | 2.1 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 7 | 2.1 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 7 | 2.1 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 7 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 1 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 1 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 1 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 1 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 1 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 1 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 5 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 5 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 5 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 5 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 5 | 2.1 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 5 | 2.1 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 4 | 2.1 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 4 | 2.1 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 4 | 2.1 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 4 | 2.1 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 4 | 2.1 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 4 | 2.1 |
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 19 | 2.1 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 19 | 2.1 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 9 | 2.1 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 9 | 2.1 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 9 | 2.1 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 9 | 2.1 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 9 | 2.1 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 9 | 2.1 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 9 | 2.1 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 9 | 2.1 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 9 | 2.1 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 9 | 2.1 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 17 | 2.1 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 17 | 2.1 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 17 | 2.1 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 17 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8684) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 5 | 2.1 |
| (1,8684) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 5 | 2.1 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 19 | 2.1 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 19 | 2.1 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 19 | 2.1 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 19 | 2.1 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 17 | 2.1 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 17 | 2.1 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 17 | 2.1 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 17 | 2.1 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 20 | 2.1 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 20 | 2.1 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 20 | 2.1 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 3 | 2.1 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 3 | 2.1 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 3 | 2.1 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 3 | 2.1 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 3 | 2.1 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 3 | 2.1 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 15 | 2.1 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 10 | 2.1 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 18 | 2.1 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 5 | 2.1 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 5 | 2.1 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 5 | 2.1 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 13 | 2.1 |
| (1,7764) | 1:56:A:ARG:H | 1:163:A:GLU:HA | 16 | 2.1 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 2 | 2.1 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 18 | 2.1 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 18 | 2.1 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 12 | 2.1 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 13 | 2.1 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 15 | 2.1 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 16 | 2.1 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 16 | 2.1 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 16 | 2.1 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 8 | 2.1 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 6 | 2.1 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 7 | 2.1 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 7 | 2.1 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 14 | 2.1 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 14 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 14 | 2.1 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 8 | 2.1 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 8 | 2.1 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 8 | 2.1 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 10 | 2.1 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 10 | 2.1 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 10 | 2.1 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 1 | 2.1 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 1 | 2.1 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 1 | 2.1 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 17 | 2.1 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 17 | 2.1 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 17 | 2.1 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 19 | 2.1 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 19 | 2.1 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 19 | 2.1 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 19 | 2.1 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 19 | 2.1 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 19 | 2.1 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 19 | 2.1 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 19 | 2.1 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 19 | 2.1 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 20 | 2.1 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 20 | 2.1 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 10 | 2.1 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 4 | 2.1 |
| (1,6177) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 4 | 2.1 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 3 | 2.1 |
| (1,6009) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 19 | 2.1 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 12 | 2.1 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 12 | 2.1 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 12 | 2.1 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 14 | 2.1 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 14 | 2.1 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 14 | 2.1 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 9 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 2 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 2 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 2 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 8 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 8 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 8 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 10 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 10 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 10 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 19 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 19 | 2.1 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 19 | 2.1 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 1 | 2.1 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 6 | 2.1 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 7 | 2.1 |
| (1,5693) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 19 | 2.1 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 15 | 2.1 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 15 | 2.1 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 14 | 2.1 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 14 | 2.1 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 14 | 2.1 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 14 | 2.1 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 14 | 2.1 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 14 | 2.1 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 14 | 2.1 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 14 | 2.1 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 14 | 2.1 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 1 | 2.1 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 1 | 2.1 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 1 | 2.1 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 11 | 2.1 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 11 | 2.1 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 11 | 2.1 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 8 | 2.1 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 8 | 2.1 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 8 | 2.1 |
| (1,5191) | 1:84:A:GLU:H | 1:85:A:ALA:H | 8 | 2.1 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 10 | 2.1 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 10 | 2.1 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 10 | 2.1 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 3 | 2.1 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 6 | 2.1 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 6 | 2.1 |
| (1,4863) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 6 | 2.1 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 12 | 2.1 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 2 | 2.1 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 2 | 2.1 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 2 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 2 | 2.1 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 13 | 2.1 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 13 | 2.1 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 13 | 2.1 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 1 | 2.1 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 5 | 2.1 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 8 | 2.1 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 12 | 2.1 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 12 | 2.1 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 14 | 2.1 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 14 | 2.1 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 14 | 2.1 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 7 | 2.1 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 7 | 2.1 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 7 | 2.1 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 13 | 2.1 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 13 | 2.1 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 13 | 2.1 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 4 | 2.1 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 4 | 2.1 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 8 | 2.1 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 7 | 2.1 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 14 | 2.1 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 14 | 2.1 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 14 | 2.1 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 14 | 2.1 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 2 | 2.1 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 2 | 2.1 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 6 | 2.1 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 6 | 2.1 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 14 | 2.1 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 14 | 2.1 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 19 | 2.1 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 19 | 2.1 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 19 | 2.1 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 19 | 2.1 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 19 | 2.1 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 19 | 2.1 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 12 | 2.1 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 12 | 2.1 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 12 | 2.1 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 19 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 19 | 2.1 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 19 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 1 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 1 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 1 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 1 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 1 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 1 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 2 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 2 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 2 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 2 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 2 | 2.1 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 2 | 2.1 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 4 | 2.1 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 4 | 2.1 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 4 | 2.1 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 4 | 2.1 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 4 | 2.1 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 4 | 2.1 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 11 | 2.1 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 11 | 2.1 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 11 | 2.1 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 11 | 2.1 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 11 | 2.1 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 11 | 2.1 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 3 | 2.1 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 3 | 2.1 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 3 | 2.1 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 3 | 2.1 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 3 | 2.1 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 3 | 2.1 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 19 | 2.1 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 19 | 2.1 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 19 | 2.1 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 19 | 2.1 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 19 | 2.1 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 19 | 2.1 |
| (1,4022) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 15 | 2.1 |
| (1,4022) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 15 | 2.1 |
| (1,4022) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 15 | 2.1 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 20 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 9 | 2.1 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 9 | 2.1 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 13 | 2.1 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 13 | 2.1 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 10 | 2.1 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 7 | 2.1 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 7 | 2.1 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 7 | 2.1 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 7 | 2.1 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 7 | 2.1 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 7 | 2.1 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 2.1 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 2.1 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 2.1 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 19 | 2.1 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 2.1 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 2.1 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 2 | 2.1 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 2 | 2.1 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 2 | 2.1 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 12 | 2.1 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 12 | 2.1 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 12 | 2.1 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 8 | 2.1 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 2 | 2.1 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 2 | 2.1 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 14 | 2.1 |
| (1,3507) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 14 | 2.1 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 17 | 2.1 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 13 | 2.1 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 15 | 2.1 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 18 | 2.1 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 8 | 2.1 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 8 | 2.1 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 8 | 2.1 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 8 | 2.1 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 8 | 2.1 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 8 | 2.1 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 18 | 2.1 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 20 | 2.1 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 11 | 2.1 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 4 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 4 | 2.1 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 14 | 2.1 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 14 | 2.1 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 14 | 2.1 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 19 | 2.1 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 19 | 2.1 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 19 | 2.1 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 8 | 2.1 |
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 7 | 2.1 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 7 | 2.1 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 5 | 2.1 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 18 | 2.1 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 17 | 2.1 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 1 | 2.1 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 1 | 2.1 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 1 | 2.1 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 1 | 2.1 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 1 | 2.1 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 1 | 2.1 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 18 | 2.1 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 17 | 2.1 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 2.1 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 8 | 2.1 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 8 | 2.1 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 8 | 2.1 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 2.1 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 7 | 2.1 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 7 | 2.1 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 7 | 2.1 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 1 | 2.1 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 1 | 2.1 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 1 | 2.1 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 18 | 2.1 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 18 | 2.1 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 18 | 2.1 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 17 | 2.1 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 17 | 2.1 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 17 | 2.1 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 2 | 2.1 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 2 | 2.1 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 2 | 2.1 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 2 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 2 | 2.1 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 2 | 2.1 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 19 | 2.1 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 19 | 2.1 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 19 | 2.1 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 19 | 2.1 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 19 | 2.1 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 19 | 2.1 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 19 | 2.1 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 19 | 2.1 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 19 | 2.1 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 14 | 2.1 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 14 | 2.1 |
| (1,1888) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 14 | 2.1 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 1 | 2.1 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 1 | 2.1 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 10 | 2.1 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 4 | 2.1 |
| (1,1782) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 4 | 2.1 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 7 | 2.1 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 20 | 2.1 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 20 | 2.1 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 20 | 2.1 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 3 | 2.1 |
| (1,1516) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 19 | 2.1 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 16 | 2.1 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 15 | 2.1 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 15 | 2.1 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 15 | 2.1 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 20 | 2.1 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 10 | 2.1 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 10 | 2.1 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 17 | 2.1 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 17 | 2.1 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 1 | 2.1 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 1 | 2.1 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 1 | 2.1 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 16 | 2.1 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 1 | 2.1 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 6 | 2.1 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 7 | 2.1 |
| (1,964) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 19 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,859) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 3 | 2.1 |
| (1,859) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 3 | 2.1 |
| (1,859) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 3 | 2.1 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 18 | 2.1 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 16 | 2.1 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 16 | 2.1 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 20 | 2.1 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 14 | 2.1 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 14 | 2.1 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 14 | 2.1 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 14 | 2.1 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 14 | 2.1 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 14 | 2.1 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 14 | 2.1 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 14 | 2.1 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 14 | 2.1 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 14 | 2.1 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 1 | 2.1 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 1 | 2.1 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 1 | 2.1 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 6 | 2.1 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 6 | 2.1 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 6 | 2.1 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 19 | 2.1 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 5 | 2.1 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 5 | 2.1 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 5 | 2.1 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 8 | 2.1 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 7 | 2.1 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 12 | 2.1 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 4 | 2.1 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 3 | 2.1 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 3 | 2.1 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 15 | 2.1 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 20 | 2.1 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 20 | 2.1 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 20 | 2.1 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 13 | 2.1 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 13 | 2.1 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 13 | 2.1 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 2 | 2.1 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 9 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 18 | 2.1 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 16 | 2.09 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 16 | 2.09 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 20 | 2.09 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 16 | 2.09 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 16 | 2.09 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 2 | 2.09 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 2 | 2.09 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 2 | 2.09 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 7 | 2.09 |
| (1,9607) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 7 | 2.09 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 5 | 2.09 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 5 | 2.09 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 5 | 2.09 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 5 | 2.09 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 5 | 2.09 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 5 | 2.09 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE21 | 10 | 2.09 |
| (1,9410) | 1:126:A:SER:H | 1:129:A:GLN:HE22 | 10 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 5 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 5 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 5 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 5 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 5 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 5 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 6 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 6 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 6 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 6 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 6 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 6 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 16 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 16 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 16 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 16 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 16 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 16 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 17 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 17 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 17 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 17 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 17 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 17 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 20 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 20 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 20 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 20 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 20 | 2.09 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 20 | 2.09 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 3 | 2.09 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 3 | 2.09 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 17 | 2.09 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 17 | 2.09 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 6 | 2.09 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 6 | 2.09 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 6 | 2.09 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 6 | 2.09 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 6 | 2.09 |
| (1,9209) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 6 | 2.09 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 6 | 2.09 |
| (1,9209) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 6 | 2.09 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 6 | 2.09 |
| (1,9207) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 6 | 2.09 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 6 | 2.09 |
| (1,9207) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 6 | 2.09 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 16 | 2.09 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 16 | 2.09 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 15 | 2.09 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 15 | 2.09 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 15 | 2.09 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 15 | 2.09 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 15 | 2.09 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 15 | 2.09 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 5 | 2.09 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 5 | 2.09 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 5 | 2.09 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 5 | 2.09 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 5 | 2.09 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 5 | 2.09 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 8 | 2.09 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 8 | 2.09 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 8 | 2.09 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 8 | 2.09 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 9 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 9 | 2.09 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 9 | 2.09 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 9 | 2.09 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 15 | 2.09 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 15 | 2.09 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 15 | 2.09 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 15 | 2.09 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 15 | 2.09 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 15 | 2.09 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 12 | 2.09 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 12 | 2.09 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 12 | 2.09 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 12 | 2.09 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 12 | 2.09 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 12 | 2.09 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 7 | 2.09 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 7 | 2.09 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 7 | 2.09 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 7 | 2.09 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 16 | 2.09 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 16 | 2.09 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 16 | 2.09 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 16 | 2.09 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 1 | 2.09 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 1 | 2.09 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 1 | 2.09 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 1 | 2.09 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 4 | 2.09 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 4 | 2.09 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 4 | 2.09 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 4 | 2.09 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 4 | 2.09 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 4 | 2.09 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 2 | 2.09 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 2 | 2.09 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 5 | 2.09 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 5 | 2.09 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 13 | 2.09 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 13 | 2.09 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 13 | 2.09 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 13 | 2.09 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 13 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 13 | 2.09 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG2 | 3 | 2.09 |
| (1,8807) | 1:57:A:CYS:HB2 | 1:161:A:ARG:HG3 | 3 | 2.09 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG2 | 3 | 2.09 |
| (1,8807) | 1:57:A:CYS:HB3 | 1:161:A:ARG:HG3 | 3 | 2.09 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 17 | 2.09 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 17 | 2.09 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 1 | 2.09 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 1 | 2.09 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 3 | 2.09 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 3 | 2.09 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 3 | 2.09 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 3 | 2.09 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 8 | 2.09 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 8 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 7 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 7 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 7 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 7 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 10 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 10 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 10 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 10 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 16 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 16 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 16 | 2.09 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 16 | 2.09 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD2 | 4 | 2.09 |
| (1,8661) | 1:36:A:ARG:HA | 1:36:A:ARG:HD3 | 4 | 2.09 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 13 | 2.09 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 13 | 2.09 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 13 | 2.09 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 13 | 2.09 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 12 | 2.09 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 7 | 2.09 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 7 | 2.09 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 7 | 2.09 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 14 | 2.09 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 14 | 2.09 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 14 | 2.09 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 8 | 2.09 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 8 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 19 | 2.09 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 15 | 2.09 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 1 | 2.09 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 4 | 2.09 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 19 | 2.09 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 19 | 2.09 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 19 | 2.09 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 19 | 2.09 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 19 | 2.09 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 19 | 2.09 |
| (1,7623) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HB | 2 | 2.09 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 8 | 2.09 |
| (1,7278) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 13 | 2.09 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 3 | 2.09 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 12 | 2.09 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 9 | 2.09 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 9 | 2.09 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 15 | 2.09 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 15 | 2.09 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 15 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 3 | 2.09 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 3 | 2.09 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 13 | 2.09 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 12 | 2.09 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 12 | 2.09 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 12 | 2.09 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 13 | 2.09 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 13 | 2.09 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 13 | 2.09 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 19 | 2.09 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 19 | 2.09 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 19 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 16 | 2.09 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 16 | 2.09 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 16 | 2.09 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 9 | 2.09 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 9 | 2.09 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 9 | 2.09 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 9 | 2.09 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 9 | 2.09 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 9 | 2.09 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 9 | 2.09 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 9 | 2.09 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 9 | 2.09 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 18 | 2.09 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 18 | 2.09 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 18 | 2.09 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 18 | 2.09 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 18 | 2.09 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 18 | 2.09 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 18 | 2.09 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 18 | 2.09 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 18 | 2.09 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 14 | 2.09 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 13 | 2.09 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 13 | 2.09 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 13 | 2.09 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 18 | 2.09 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 18 | 2.09 |
| (1,6197) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 18 | 2.09 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 13 | 2.09 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 12 | 2.09 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 12 | 2.09 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 12 | 2.09 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 11 | 2.09 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 11 | 2.09 |
| (1,5876) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 11 | 2.09 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 13 | 2.09 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 7 | 2.09 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 7 | 2.09 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 7 | 2.09 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 7 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 4 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 4 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 4 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 4 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 6 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 6 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 6 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 6 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 8 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 8 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 8 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 8 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 9 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 9 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 9 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 9 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 14 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 14 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 14 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 14 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 15 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 15 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 15 | 2.09 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 15 | 2.09 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 14 | 2.09 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 14 | 2.09 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 17 | 2.09 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 17 | 2.09 |
| (1,5570) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 20 | 2.09 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 17 | 2.09 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 17 | 2.09 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 17 | 2.09 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 17 | 2.09 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 17 | 2.09 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 17 | 2.09 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 17 | 2.09 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 17 | 2.09 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 17 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 9 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 9 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 9 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 9 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 9 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 9 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 9 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 9 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 9 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 17 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 17 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 17 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 17 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 17 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 17 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 17 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 17 | 2.09 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 17 | 2.09 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 15 | 2.09 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 15 | 2.09 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 15 | 2.09 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 5 | 2.09 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 5 | 2.09 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 5 | 2.09 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 16 | 2.09 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 16 | 2.09 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 16 | 2.09 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 5 | 2.09 |
| (1,4908) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 15 | 2.09 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 6 | 2.09 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 6 | 2.09 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 6 | 2.09 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 9 | 2.09 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 9 | 2.09 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 9 | 2.09 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 9 | 2.09 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 9 | 2.09 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 9 | 2.09 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 9 | 2.09 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 9 | 2.09 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 9 | 2.09 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 6 | 2.09 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 6 | 2.09 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 6 | 2.09 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 13 | 2.09 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 13 | 2.09 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 13 | 2.09 |
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 7 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4600) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 7 | 2.09 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 7 | 2.09 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 7 | 2.09 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 7 | 2.09 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 7 | 2.09 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 7 | 2.09 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 7 | 2.09 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 2 | 2.09 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 2 | 2.09 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 4 | 2.09 |
| (1,4459) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 4 | 2.09 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 3 | 2.09 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 3 | 2.09 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 3 | 2.09 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 3 | 2.09 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 2 | 2.09 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 2 | 2.09 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 2 | 2.09 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 2 | 2.09 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 2 | 2.09 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 2 | 2.09 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 4 | 2.09 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 4 | 2.09 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 4 | 2.09 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 2.09 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 16 | 2.09 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 17 | 2.09 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 17 | 2.09 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 5 | 2.09 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 1 | 2.09 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 1 | 2.09 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 1 | 2.09 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 1 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 2 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 2 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 2 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 2 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 3 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 3 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 3 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 3 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 5 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 5 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 5 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 5 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 6 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 6 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 6 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 6 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 7 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 7 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 7 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 7 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 8 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 8 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 8 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 8 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 10 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 10 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 10 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 10 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 15 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 15 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 15 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 15 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 16 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 16 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 16 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 16 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 18 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 18 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 18 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 18 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 20 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 20 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 20 | 2.09 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 20 | 2.09 |
| (1,4253) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 13 | 2.09 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 6 | 2.09 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 6 | 2.09 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 6 | 2.09 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 6 | 2.09 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 8 | 2.09 |
| (1,4169) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 7 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 5 | 2.09 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 5 | 2.09 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 5 | 2.09 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 5 | 2.09 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 5 | 2.09 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 5 | 2.09 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 15 | 2.09 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 15 | 2.09 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 15 | 2.09 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 15 | 2.09 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 15 | 2.09 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 15 | 2.09 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 1 | 2.09 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 1 | 2.09 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 1 | 2.09 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 1 | 2.09 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 1 | 2.09 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 1 | 2.09 |
| (1,4094) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 8 | 2.09 |
| (1,4094) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 8 | 2.09 |
| (1,4094) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 8 | 2.09 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 5 | 2.09 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 5 | 2.09 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 5 | 2.09 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 5 | 2.09 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 5 | 2.09 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 5 | 2.09 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 19 | 2.09 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 18 | 2.09 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 18 | 2.09 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 15 | 2.09 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 15 | 2.09 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 15 | 2.09 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 15 | 2.09 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 15 | 2.09 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 15 | 2.09 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 12 | 2.09 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 12 | 2.09 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 12 | 2.09 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 12 | 2.09 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 12 | 2.09 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 12 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 12 | 2.09 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 2 | 2.09 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 2 | 2.09 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 2 | 2.09 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 2 | 2.09 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 2 | 2.09 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 2 | 2.09 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 7 | 2.09 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 7 | 2.09 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 7 | 2.09 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 7 | 2.09 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 16 | 2.09 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 16 | 2.09 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 16 | 2.09 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 16 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 1 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 1 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 1 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 1 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 6 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 6 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 6 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 6 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 7 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 7 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 7 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 7 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 8 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 8 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 8 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 8 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 9 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 9 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 9 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 9 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 10 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 10 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 10 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 10 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 11 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 11 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 11 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 11 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 12 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 12 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 12 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 12 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 13 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 13 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 13 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 13 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 14 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 14 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 14 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 14 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 15 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 15 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 15 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 15 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 16 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 16 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 16 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 16 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 17 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 17 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 17 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 17 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 18 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 18 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 18 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 18 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 19 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 19 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 19 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 19 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 20 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 20 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 20 | 2.09 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 20 | 2.09 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 1 | 2.09 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 1 | 2.09 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 1 | 2.09 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 1 | 2.09 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 12 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 12 | 2.09 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 12 | 2.09 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 12 | 2.09 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 17 | 2.09 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 2 | 2.09 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 2 | 2.09 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 5 | 2.09 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 5 | 2.09 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 3 | 2.09 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 17 | 2.09 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 17 | 2.09 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 15 | 2.09 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 1 | 2.09 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 1 | 2.09 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 7 | 2.09 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 7 | 2.09 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 7 | 2.09 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 7 | 2.09 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 8 | 2.09 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 8 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 1 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 1 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 1 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 1 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 3 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 3 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 3 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 3 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 4 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 4 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 4 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 4 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 5 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 5 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 5 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 5 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 6 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 6 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 6 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 6 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 11 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 11 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 11 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 11 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 15 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 15 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 15 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 15 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 16 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 16 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 16 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 16 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 17 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 17 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 17 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 17 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 18 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 18 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 18 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 18 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 20 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 20 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 20 | 2.09 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 20 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 1 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 1 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 1 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 1 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 5 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 5 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 5 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 5 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 10 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 10 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 10 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 10 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 13 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 13 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 13 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 13 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 16 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 16 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 16 | 2.09 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 16 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 4 | 2.09 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 13 | 2.09 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 13 | 2.09 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 13 | 2.09 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 3 | 2.09 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 16 | 2.09 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 16 | 2.09 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 16 | 2.09 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 16 | 2.09 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 16 | 2.09 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 16 | 2.09 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 16 | 2.09 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 16 | 2.09 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 16 | 2.09 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 9 | 2.09 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 16 | 2.09 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 3 | 2.09 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 17 | 2.09 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 9 | 2.09 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 9 | 2.09 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 10 | 2.09 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 10 | 2.09 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 10 | 2.09 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 2.09 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 2.09 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 2.09 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 2 | 2.09 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 17 | 2.09 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 8 | 2.09 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 19 | 2.09 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 19 | 2.09 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 19 | 2.09 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 2 | 2.09 |
| (1,2756) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 2 | 2.09 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 2 | 2.09 |
| (1,2756) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 2 | 2.09 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 2 | 2.09 |
| (1,2756) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 2 | 2.09 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 13 | 2.09 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 14 | 2.09 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 10 | 2.09 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 10 | 2.09 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 12 | 2.09 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 12 | 2.09 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 20 | 2.09 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 17 | 2.09 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 7 | 2.09 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 12 | 2.09 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 12 | 2.09 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 12 | 2.09 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 13 | 2.09 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 13 | 2.09 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 13 | 2.09 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 19 | 2.09 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 19 | 2.09 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 19 | 2.09 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 16 | 2.09 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 16 | 2.09 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 16 | 2.09 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 17 | 2.09 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 10 | 2.09 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 10 | 2.09 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 10 | 2.09 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 9 | 2.09 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 9 | 2.09 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 9 | 2.09 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 9 | 2.09 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 9 | 2.09 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 9 | 2.09 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 9 | 2.09 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 9 | 2.09 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 9 | 2.09 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 18 | 2.09 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 18 | 2.09 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 18 | 2.09 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 18 | 2.09 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 18 | 2.09 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 18 | 2.09 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 18 | 2.09 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 18 | 2.09 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 18 | 2.09 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 8 | 2.09 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 8 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 8 | 2.09 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 10 | 2.09 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 10 | 2.09 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 10 | 2.09 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 15 | 2.09 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 15 | 2.09 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 15 | 2.09 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 15 | 2.09 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 6 | 2.09 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 6 | 2.09 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 14 | 2.09 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 14 | 2.09 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 14 | 2.09 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 14 | 2.09 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 14 | 2.09 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 15 | 2.09 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 13 | 2.09 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 13 | 2.09 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 13 | 2.09 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 18 | 2.09 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 18 | 2.09 |
| (1,1808) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 18 | 2.09 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 9 | 2.09 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 18 | 2.09 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 18 | 2.09 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 18 | 2.09 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 18 | 2.09 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 2 | 2.09 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 2 | 2.09 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 2 | 2.09 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 13 | 2.09 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 13 | 2.09 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 13 | 2.09 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 12 | 2.09 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 12 | 2.09 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 12 | 2.09 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 11 | 2.09 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 11 | 2.09 |
| (1,1288) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 11 | 2.09 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 13 | 2.09 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 2 | 2.09 |
| (1,1191) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 8 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 18 | 2.09 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 18 | 2.09 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 7 | 2.09 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 12 | 2.09 |
| (1,1042) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 13 | 2.09 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 8 | 2.09 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 8 | 2.09 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 8 | 2.09 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 7 | 2.09 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 7 | 2.09 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 7 | 2.09 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 6 | 2.09 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 6 | 2.09 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 6 | 2.09 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 3 | 2.09 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 3 | 2.09 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 3 | 2.09 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 16 | 2.09 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 2.09 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 2.09 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 2.09 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 20 | 2.09 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 20 | 2.09 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 20 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 4 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 4 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 4 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 4 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 6 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 6 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 6 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 6 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 8 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 8 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 8 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 8 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 9 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 9 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 9 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 9 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 14 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 14 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 14 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 14 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 15 | 2.09 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 15 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 15 | 2.09 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 15 | 2.09 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 5 | 2.09 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 16 | 2.09 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 17 | 2.09 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 17 | 2.09 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 17 | 2.09 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 17 | 2.09 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 17 | 2.09 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 17 | 2.09 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 17 | 2.09 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 17 | 2.09 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 17 | 2.09 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 9 | 2.09 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 9 | 2.09 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 9 | 2.09 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 9 | 2.09 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 9 | 2.09 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 9 | 2.09 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 9 | 2.09 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 9 | 2.09 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 9 | 2.09 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 17 | 2.09 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 17 | 2.09 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 17 | 2.09 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 17 | 2.09 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 17 | 2.09 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 17 | 2.09 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 17 | 2.09 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 17 | 2.09 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 17 | 2.09 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 18 | 2.09 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 20 | 2.09 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 7 | 2.09 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 3 | 2.09 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 3 | 2.09 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 3 | 2.09 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 3 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 3 | 2.09 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 3 | 2.09 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 3 | 2.09 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 3 | 2.09 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 3 | 2.09 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 15 | 2.09 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 15 | 2.09 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 15 | 2.09 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 13 | 2.09 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 13 | 2.09 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 13 | 2.09 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 4 | 2.09 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 4 | 2.09 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 4 | 2.09 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 11 | 2.09 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 11 | 2.09 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 11 | 2.09 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 12 | 2.09 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 14 | 2.09 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 14 | 2.09 |
| (1,451) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 14 | 2.09 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 14 | 2.09 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 14 | 2.09 |
| (1,451) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 14 | 2.09 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 14 | 2.09 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 14 | 2.09 |
| (1,451) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 14 | 2.09 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 7 | 2.09 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 17 | 2.09 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 11 | 2.09 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 11 | 2.09 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 11 | 2.09 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 12 | 2.09 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 12 | 2.09 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 12 | 2.09 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 11 | 2.09 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 11 | 2.09 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 11 | 2.09 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 13 | 2.09 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 13 | 2.09 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 10 | 2.09 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 3 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 3 | 2.09 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 3 | 2.09 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 16 | 2.09 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 12 | 2.09 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 12 | 2.09 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 12 | 2.09 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 12 | 2.09 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 12 | 2.09 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 12 | 2.09 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 3 | 2.09 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 6 | 2.09 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 19 | 2.09 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 19 | 2.09 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 19 | 2.09 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 16 | 2.08 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 10 | 2.08 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 18 | 2.08 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 18 | 2.08 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 18 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 11 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 11 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 11 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 11 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 11 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 11 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 17 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 17 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 17 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 17 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 17 | 2.08 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 17 | 2.08 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 15 | 2.08 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 15 | 2.08 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 15 | 2.08 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 15 | 2.08 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 15 | 2.08 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 15 | 2.08 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 10 | 2.08 |
| (1,9565) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 10 | 2.08 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 18 | 2.08 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 18 | 2.08 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 5 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 5 | 2.08 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 5 | 2.08 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 5 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 2 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 2 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 2 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 2 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 2 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 2 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 14 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 14 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 14 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 14 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 14 | 2.08 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 14 | 2.08 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB2 | 16 | 2.08 |
| (1,9388) | 1:122:A:LEU:H | 1:122:A:LEU:HB3 | 16 | 2.08 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 1 | 2.08 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 1 | 2.08 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 2 | 2.08 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 2 | 2.08 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 2 | 2.08 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 2 | 2.08 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 2 | 2.08 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 2 | 2.08 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 16 | 2.08 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 16 | 2.08 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE21 | 8 | 2.08 |
| (1,8981) | 1:75:A:GLN:HG2 | 1:75:A:GLN:HE22 | 8 | 2.08 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE21 | 8 | 2.08 |
| (1,8981) | 1:75:A:GLN:HG3 | 1:75:A:GLN:HE22 | 8 | 2.08 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 1 | 2.08 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 1 | 2.08 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 18 | 2.08 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 18 | 2.08 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 7 | 2.08 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 7 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 8 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 8 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 8 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 8 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 8 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 8 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 9 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 9 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 9 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 9 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 9 | 2.08 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 9 | 2.08 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 5 | 2.08 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 5 | 2.08 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 5 | 2.08 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 5 | 2.08 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 5 | 2.08 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 5 | 2.08 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 8 | 2.08 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 8 | 2.08 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 3 | 2.08 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 3 | 2.08 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 3 | 2.08 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 3 | 2.08 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 3 | 2.08 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 3 | 2.08 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 11 | 2.08 |
| (1,8774) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 11 | 2.08 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 15 | 2.08 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 15 | 2.08 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 2 | 2.08 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 2 | 2.08 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 2 | 2.08 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 2 | 2.08 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 3 | 2.08 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 3 | 2.08 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 3 | 2.08 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 3 | 2.08 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 12 | 2.08 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 12 | 2.08 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 12 | 2.08 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 8 | 2.08 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 18 | 2.08 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 18 | 2.08 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 18 | 2.08 |
| (1,8086) | 1:92:A:TYR:H | 1:93:A:ILE:H | 17 | 2.08 |
| (1,7908) | 1:68:A:ARG:H | 1:69:A:ARG:H | 5 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 19 | 2.08 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 16 | 2.08 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB1 | 18 | 2.08 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB2 | 18 | 2.08 |
| (1,7650) | 1:29:A:THR:HG21 | 1:31:A:ALA:HB3 | 18 | 2.08 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB1 | 18 | 2.08 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB2 | 18 | 2.08 |
| (1,7650) | 1:29:A:THR:HG22 | 1:31:A:ALA:HB3 | 18 | 2.08 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB1 | 18 | 2.08 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB2 | 18 | 2.08 |
| (1,7650) | 1:29:A:THR:HG23 | 1:31:A:ALA:HB3 | 18 | 2.08 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 18 | 2.08 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 18 | 2.08 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 6 | 2.08 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 13 | 2.08 |
| (1,7104) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 13 | 2.08 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 13 | 2.08 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 20 | 2.08 |
| (1,6988) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 20 | 2.08 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 3 | 2.08 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 6 | 2.08 |
| (1,6581) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 4 | 2.08 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 7 | 2.08 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 7 | 2.08 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 7 | 2.08 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 20 | 2.08 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 20 | 2.08 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 20 | 2.08 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 20 | 2.08 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 20 | 2.08 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 20 | 2.08 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 20 | 2.08 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 20 | 2.08 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 20 | 2.08 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 17 | 2.08 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 17 | 2.08 |
| (1,6207) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 7 | 2.08 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 5 | 2.08 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 5 | 2.08 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 12 | 2.08 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 12 | 2.08 |
| (1,6082) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 12 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 9 | 2.08 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 15 | 2.08 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 8 | 2.08 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 8 | 2.08 |
| (1,5898) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 8 | 2.08 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 9 | 2.08 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 9 | 2.08 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 9 | 2.08 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 9 | 2.08 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 9 | 2.08 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 9 | 2.08 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 9 | 2.08 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 9 | 2.08 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 9 | 2.08 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 4 | 2.08 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 4 | 2.08 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 5 | 2.08 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 5 | 2.08 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 5 | 2.08 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 4 | 2.08 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 4 | 2.08 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 4 | 2.08 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 15 | 2.08 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 15 | 2.08 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 15 | 2.08 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 14 | 2.08 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 1 | 2.08 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 1 | 2.08 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 1 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 3 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 3 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 3 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 3 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 5 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 5 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 5 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 5 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 7 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 7 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 7 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 7 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 11 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 11 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 11 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 11 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 12 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 12 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 12 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 12 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 16 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 16 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 16 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 16 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 17 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 17 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 17 | 2.08 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 17 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 4 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 4 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 4 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 4 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 4 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 4 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 4 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 4 | 2.08 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 4 | 2.08 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 8 | 2.08 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 1 | 2.08 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 3 | 2.08 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 15 | 2.08 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 4 | 2.08 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 18 | 2.08 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 16 | 2.08 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 16 | 2.08 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 16 | 2.08 |
| (1,5173) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 18 | 2.08 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 16 | 2.08 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 1 | 2.08 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 1 | 2.08 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 1 | 2.08 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 8 | 2.08 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 15 | 2.08 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 4 | 2.08 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 4 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 4 | 2.08 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 18 | 2.08 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 18 | 2.08 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 18 | 2.08 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 10 | 2.08 |
| (1,4562) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 10 | 2.08 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 1 | 2.08 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 8 | 2.08 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 8 | 2.08 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 4 | 2.08 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 4 | 2.08 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 5 | 2.08 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 5 | 2.08 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 19 | 2.08 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 19 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 1 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 1 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 1 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 1 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 12 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 12 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 12 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 12 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 17 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 17 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 17 | 2.08 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 17 | 2.08 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 17 | 2.08 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 17 | 2.08 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 16 | 2.08 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 16 | 2.08 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 16 | 2.08 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 18 | 2.08 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 18 | 2.08 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 18 | 2.08 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 18 | 2.08 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 18 | 2.08 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 18 | 2.08 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 2 | 2.08 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 19 | 2.08 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 19 | 2.08 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 2 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 2 | 2.08 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 2 | 2.08 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 2 | 2.08 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 3 | 2.08 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 3 | 2.08 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 3 | 2.08 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 3 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 4 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 4 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 4 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 4 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 8 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 8 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 8 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 8 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 16 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 16 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 16 | 2.08 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 16 | 2.08 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 7 | 2.08 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 7 | 2.08 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 11 | 2.08 |
| (1,3744) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 11 | 2.08 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 15 | 2.08 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 15 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 3 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 3 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 3 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 3 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 6 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 6 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 6 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 6 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 8 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 8 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 8 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 8 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 10 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 10 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 10 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 10 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 12 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 12 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 12 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 12 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 14 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 14 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 14 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 14 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 15 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 15 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 15 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 15 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 17 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 17 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 17 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 17 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 19 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 19 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 19 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 19 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 20 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 20 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 20 | 2.08 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 20 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 2 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 2 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 2 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 2 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 7 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 7 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 7 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 7 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 12 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 12 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 12 | 2.08 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 12 | 2.08 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 2 | 2.08 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 2 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 7 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 7 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 7 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 7 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 10 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 10 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 10 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 10 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 12 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 12 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 12 | 2.08 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 12 | 2.08 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 14 | 2.08 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 16 | 2.08 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 16 | 2.08 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 18 | 2.08 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 18 | 2.08 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 16 | 2.08 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 16 | 2.08 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 16 | 2.08 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 1 | 2.08 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 11 | 2.08 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 11 | 2.08 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 11 | 2.08 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 13 | 2.08 |
| (1,3186) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 13 | 2.08 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 1 | 2.08 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 1 | 2.08 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 15 | 2.08 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 17 | 2.08 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 17 | 2.08 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 17 | 2.08 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 16 | 2.08 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 20 | 2.08 |
| (1,3028) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 20 | 2.08 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 4 | 2.08 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 4 | 2.08 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 9 | 2.08 |
| (1,2440) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 4 | 2.08 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 2.08 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 7 | 2.08 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 18 | 2.08 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 18 | 2.08 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 18 | 2.08 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 7 | 2.08 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 7 | 2.08 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 7 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 19 | 2.08 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 19 | 2.08 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 19 | 2.08 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 19 | 2.08 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 19 | 2.08 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 19 | 2.08 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 7 | 2.08 |
| (1,1834) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 7 | 2.08 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 9 | 2.08 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 6 | 2.08 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 6 | 2.08 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 6 | 2.08 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 6 | 2.08 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 6 | 2.08 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 6 | 2.08 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 9 | 2.08 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 9 | 2.08 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 9 | 2.08 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 12 | 2.08 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 12 | 2.08 |
| (1,1654) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 12 | 2.08 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 16 | 2.08 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 16 | 2.08 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 16 | 2.08 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 16 | 2.08 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 9 | 2.08 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 17 | 2.08 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 15 | 2.08 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 2 | 2.08 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 2 | 2.08 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 8 | 2.08 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 8 | 2.08 |
| (1,1312) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 8 | 2.08 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 9 | 2.08 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 9 | 2.08 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 9 | 2.08 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 9 | 2.08 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 9 | 2.08 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 9 | 2.08 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 9 | 2.08 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 9 | 2.08 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 9 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 4 | 2.08 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 4 | 2.08 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 16 | 2.08 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 16 | 2.08 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 5 | 2.08 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 5 | 2.08 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 5 | 2.08 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 6 | 2.08 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 4 | 2.08 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 4 | 2.08 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 4 | 2.08 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 15 | 2.08 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 15 | 2.08 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 15 | 2.08 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 14 | 2.08 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 4 | 2.08 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 4 | 2.08 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 4 | 2.08 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 13 | 2.08 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 13 | 2.08 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 13 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 3 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 3 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 3 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 3 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 5 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 5 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 5 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 5 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 7 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 7 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 7 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 7 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 11 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 11 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 11 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 11 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 12 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 12 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 12 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 12 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 16 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 16 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 16 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 16 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 17 | 2.08 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 17 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 17 | 2.08 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 17 | 2.08 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 4 | 2.08 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 4 | 2.08 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 4 | 2.08 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 4 | 2.08 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 4 | 2.08 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 4 | 2.08 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 4 | 2.08 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 4 | 2.08 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 4 | 2.08 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 8 | 2.08 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 14 | 2.08 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 14 | 2.08 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 14 | 2.08 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 5 | 2.08 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 5 | 2.08 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 5 | 2.08 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 7 | 2.08 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 7 | 2.08 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 7 | 2.08 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 15 | 2.08 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 15 | 2.08 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 15 | 2.08 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 16 | 2.08 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 14 | 2.08 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 14 | 2.08 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 14 | 2.08 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 5 | 2.08 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 14 | 2.08 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 4 | 2.08 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 13 | 2.08 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 5 | 2.08 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 5 | 2.08 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 5 | 2.08 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 7 | 2.08 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 7 | 2.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 7 | 2.08 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 12 | 2.08 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 12 | 2.08 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 12 | 2.08 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 20 | 2.08 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 14 | 2.08 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 5 | 2.08 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 5 | 2.08 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 5 | 2.08 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 6 | 2.07 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 7 | 2.07 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 5 | 2.07 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 8 | 2.07 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 8 | 2.07 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 8 | 2.07 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 8 | 2.07 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 8 | 2.07 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 8 | 2.07 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 9 | 2.07 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 9 | 2.07 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 9 | 2.07 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 9 | 2.07 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 9 | 2.07 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 9 | 2.07 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 13 | 2.07 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 13 | 2.07 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 13 | 2.07 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 13 | 2.07 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 13 | 2.07 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 13 | 2.07 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 12 | 2.07 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 12 | 2.07 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 4 | 2.07 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 4 | 2.07 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 4 | 2.07 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 4 | 2.07 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 3 | 2.07 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 3 | 2.07 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 3 | 2.07 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 3 | 2.07 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 3 | 2.07 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 3 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 4 | 2.07 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 4 | 2.07 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 4 | 2.07 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 4 | 2.07 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 4 | 2.07 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 4 | 2.07 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 13 | 2.07 |
| (1,9344) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 13 | 2.07 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB2 | 3 | 2.07 |
| (1,9276) | 1:103:A:PHE:H | 1:103:A:PHE:HB3 | 3 | 2.07 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 5 | 2.07 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 5 | 2.07 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 5 | 2.07 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 5 | 2.07 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 5 | 2.07 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 5 | 2.07 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 8 | 2.07 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 8 | 2.07 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 1 | 2.07 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 1 | 2.07 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 4 | 2.07 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 4 | 2.07 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 4 | 2.07 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 4 | 2.07 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 4 | 2.07 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 4 | 2.07 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 6 | 2.07 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 6 | 2.07 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 6 | 2.07 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 6 | 2.07 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 3 | 2.07 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 3 | 2.07 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 6 | 2.07 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 6 | 2.07 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 15 | 2.07 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 15 | 2.07 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 15 | 2.07 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 15 | 2.07 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 15 | 2.07 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 15 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 10 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 10 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 10 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 10 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 10 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 10 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 12 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 12 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 12 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 12 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 12 | 2.07 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 12 | 2.07 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 18 | 2.07 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 18 | 2.07 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 18 | 2.07 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 18 | 2.07 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 5 | 2.07 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 5 | 2.07 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 5 | 2.07 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 5 | 2.07 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD21 | 19 | 2.07 |
| (1,8672) | 1:40:A:ASN:HB2 | 1:40:A:ASN:HD22 | 19 | 2.07 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD21 | 19 | 2.07 |
| (1,8672) | 1:40:A:ASN:HB3 | 1:40:A:ASN:HD22 | 19 | 2.07 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 8 | 2.07 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 8 | 2.07 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 14 | 2.07 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 14 | 2.07 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 14 | 2.07 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 14 | 2.07 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 4 | 2.07 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 4 | 2.07 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 4 | 2.07 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 12 | 2.07 |
| (1,8235) | 1:113:A:CYS:HB2 | 1:114:A:SER:H | 17 | 2.07 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB1 | 6 | 2.07 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB2 | 6 | 2.07 |
| (1,8231) | 1:113:A:CYS:H | 1:116:A:ALA:HB3 | 6 | 2.07 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 5 | 2.07 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 5 | 2.07 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 5 | 2.07 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 7 | 2.07 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 16 | 2.07 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 16 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 5 | 2.07 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 5 | 2.07 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 5 | 2.07 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 5 | 2.07 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 5 | 2.07 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 5 | 2.07 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 4 | 2.07 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 4 | 2.07 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD2 | 11 | 2.07 |
| (1,7547) | 1:17:A:ARG:HA | 1:17:A:ARG:HD3 | 11 | 2.07 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 19 | 2.07 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 3 | 2.07 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 1 | 2.07 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 1 | 2.07 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 16 | 2.07 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 14 | 2.07 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 19 | 2.07 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 4 | 2.07 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 4 | 2.07 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 4 | 2.07 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 17 | 2.07 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 17 | 2.07 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 17 | 2.07 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 10 | 2.07 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 5 | 2.07 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 16 | 2.07 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 16 | 2.07 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 16 | 2.07 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 16 | 2.07 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 16 | 2.07 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 16 | 2.07 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 17 | 2.07 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 17 | 2.07 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 17 | 2.07 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 17 | 2.07 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 17 | 2.07 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 17 | 2.07 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 17 | 2.07 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 17 | 2.07 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 17 | 2.07 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 5 | 2.07 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 5 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 5 | 2.07 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 5 | 2.07 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 5 | 2.07 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 5 | 2.07 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 5 | 2.07 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 5 | 2.07 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 5 | 2.07 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 11 | 2.07 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 11 | 2.07 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 5 | 2.07 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 5 | 2.07 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 5 | 2.07 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 12 | 2.07 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 12 | 2.07 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 12 | 2.07 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 12 | 2.07 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 12 | 2.07 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 12 | 2.07 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 20 | 2.07 |
| (1,5911) | 1:125:A:PHE:H | 1:126:A:SER:H | 3 | 2.07 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 18 | 2.07 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 18 | 2.07 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 18 | 2.07 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 19 | 2.07 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 19 | 2.07 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 19 | 2.07 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 19 | 2.07 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 2 | 2.07 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 2 | 2.07 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 6 | 2.07 |
| (1,5592) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 6 | 2.07 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 12 | 2.07 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 8 | 2.07 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 8 | 2.07 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 8 | 2.07 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 8 | 2.07 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 8 | 2.07 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 8 | 2.07 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 8 | 2.07 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 8 | 2.07 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 8 | 2.07 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 6 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 7 | 2.07 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 10 | 2.07 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 11 | 2.07 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 18 | 2.07 |
| (1,5413) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 20 | 2.07 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 15 | 2.07 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 11 | 2.07 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 19 | 2.07 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 17 | 2.07 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 17 | 2.07 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 17 | 2.07 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 1 | 2.07 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 1 | 2.07 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 1 | 2.07 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 1 | 2.07 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 1 | 2.07 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 1 | 2.07 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 1 | 2.07 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 1 | 2.07 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 1 | 2.07 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 20 | 2.07 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 8 | 2.07 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 3 | 2.07 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 3 | 2.07 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 7 | 2.07 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 7 | 2.07 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 6 | 2.07 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 6 | 2.07 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 6 | 2.07 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 16 | 2.07 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 16 | 2.07 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 16 | 2.07 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 4 | 2.07 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 4 | 2.07 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 4 | 2.07 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 4 | 2.07 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 4 | 2.07 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 4 | 2.07 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 13 | 2.07 |
| (1,4340) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 13 | 2.07 |
| (1,4338) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 17 | 2.07 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 8 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 19 | 2.07 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 13 | 2.07 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 13 | 2.07 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 13 | 2.07 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 13 | 2.07 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 11 | 2.07 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 11 | 2.07 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 11 | 2.07 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 9 | 2.07 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 9 | 2.07 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 9 | 2.07 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 4 | 2.07 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 4 | 2.07 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 4 | 2.07 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 4 | 2.07 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 4 | 2.07 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 4 | 2.07 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 1 | 2.07 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 1 | 2.07 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 1 | 2.07 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 6 | 2.07 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 6 | 2.07 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 6 | 2.07 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 2.07 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 20 | 2.07 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 1 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 14 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 14 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 14 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 14 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 15 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 15 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 15 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 15 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 18 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 18 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 18 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 18 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 20 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 20 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 20 | 2.07 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 20 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 4 | 2.07 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 6 | 2.07 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 6 | 2.07 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 11 | 2.07 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 12 | 2.07 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 12 | 2.07 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 11 | 2.07 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 8 | 2.07 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 11 | 2.07 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 11 | 2.07 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 6 | 2.07 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 6 | 2.07 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 11 | 2.07 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 11 | 2.07 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 11 | 2.07 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 5 | 2.07 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 5 | 2.07 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 5 | 2.07 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 20 | 2.07 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 20 | 2.07 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 20 | 2.07 |
| (1,3304) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 12 | 2.07 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 1 | 2.07 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 18 | 2.07 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 18 | 2.07 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 18 | 2.07 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 14 | 2.07 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 14 | 2.07 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 14 | 2.07 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 15 | 2.07 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 19 | 2.07 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 12 | 2.07 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 8 | 2.07 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 8 | 2.07 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 8 | 2.07 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 10 | 2.07 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 10 | 2.07 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 18 | 2.07 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 2.07 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 16 | 2.07 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 16 | 2.07 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 16 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 7 | 2.07 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 5 | 2.07 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 5 | 2.07 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 14 | 2.07 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 16 | 2.07 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 16 | 2.07 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 16 | 2.07 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 1 | 2.07 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 5 | 2.07 |
| (1,2184) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 10 | 2.07 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 16 | 2.07 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 16 | 2.07 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 16 | 2.07 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 15 | 2.07 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 18 | 2.07 |
| (1,2061) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 1 | 2.07 |
| (1,2061) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 1 | 2.07 |
| (1,2061) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 1 | 2.07 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 12 | 2.07 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 12 | 2.07 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 12 | 2.07 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 17 | 2.07 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 17 | 2.07 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 17 | 2.07 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 17 | 2.07 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 17 | 2.07 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 17 | 2.07 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 17 | 2.07 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 17 | 2.07 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 17 | 2.07 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 9 | 2.07 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 9 | 2.07 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 9 | 2.07 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 10 | 2.07 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 6 | 2.07 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 20 | 2.07 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 11 | 2.07 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 11 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 11 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 11 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 11 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 11 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 11 | 2.07 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 11 | 2.07 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 10 | 2.07 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 19 | 2.07 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 16 | 2.07 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 16 | 2.07 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 16 | 2.07 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 2 | 2.07 |
| (1,1588) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 20 | 2.07 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 12 | 2.07 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 12 | 2.07 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 12 | 2.07 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 12 | 2.07 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 12 | 2.07 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 12 | 2.07 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 2.07 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 2.07 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 2.07 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 8 | 2.07 |
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 20 | 2.07 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 14 | 2.07 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 14 | 2.07 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 14 | 2.07 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 19 | 2.07 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 14 | 2.07 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 14 | 2.07 |
| (1,1328) | 1:125:A:PHE:H | 1:126:A:SER:H | 3 | 2.07 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 17 | 2.07 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 3 | 2.07 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 3 | 2.07 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 3 | 2.07 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 10 | 2.07 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 10 | 2.07 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 10 | 2.07 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 2 | 2.07 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 2 | 2.07 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 2 | 2.07 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 2 | 2.07 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 2 | 2.07 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 2 | 2.07 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 9 | 2.07 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 9 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 19 | 2.07 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 19 | 2.07 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 19 | 2.07 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 19 | 2.07 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 8 | 2.07 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 12 | 2.07 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 8 | 2.07 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 8 | 2.07 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 8 | 2.07 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 8 | 2.07 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 8 | 2.07 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 8 | 2.07 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 8 | 2.07 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 8 | 2.07 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 8 | 2.07 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 5 | 2.07 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 3 | 2.07 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 10 | 2.07 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 10 | 2.07 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 10 | 2.07 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 15 | 2.07 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 15 | 2.07 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 19 | 2.07 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 19 | 2.07 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 7 | 2.07 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 7 | 2.07 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 7 | 2.07 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 5 | 2.07 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 13 | 2.07 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 13 | 2.07 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 13 | 2.07 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 14 | 2.07 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 14 | 2.07 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 14 | 2.07 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 5 | 2.07 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 5 | 2.07 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 5 | 2.07 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 10 | 2.07 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 10 | 2.07 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 10 | 2.07 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 19 | 2.07 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 19 | 2.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 19 | 2.07 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 20 | 2.07 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 6 | 2.06 |
| (4,99) | 1:15:A:MET:CB | 1:160:A:LEU:H | 14 | 2.06 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 5 | 2.06 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 12 | 2.06 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 14 | 2.06 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 19 | 2.06 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 19 | 2.06 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 19 | 2.06 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 19 | 2.06 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 19 | 2.06 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 19 | 2.06 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 7 | 2.06 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 7 | 2.06 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 9 | 2.06 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 9 | 2.06 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 15 | 2.06 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 15 | 2.06 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 9 | 2.06 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 9 | 2.06 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 12 | 2.06 |
| (1,9455) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 12 | 2.06 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 1 | 2.06 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 1 | 2.06 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 1 | 2.06 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 1 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 7 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 7 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 7 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 7 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 7 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 7 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 9 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 9 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 9 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 9 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 9 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 9 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 11 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 11 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 11 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 11 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 11 | 2.06 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 11 | 2.06 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 16 | 2.06 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 16 | 2.06 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 16 | 2.06 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 16 | 2.06 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 6 | 2.06 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 6 | 2.06 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 2.06 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 2.06 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 2.06 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 2.06 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 2.06 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 2.06 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 13 | 2.06 |
| (1,9008) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 13 | 2.06 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 13 | 2.06 |
| (1,9008) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 13 | 2.06 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 9 | 2.06 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 9 | 2.06 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 6 | 2.06 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 6 | 2.06 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 6 | 2.06 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 6 | 2.06 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 6 | 2.06 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 6 | 2.06 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 7 | 2.06 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 7 | 2.06 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 7 | 2.06 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 7 | 2.06 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 7 | 2.06 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 7 | 2.06 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 3 | 2.06 |
| (1,8816) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 3 | 2.06 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 3 | 2.06 |
| (1,8816) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 3 | 2.06 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 18 | 2.06 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 18 | 2.06 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 5 | 2.06 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 5 | 2.06 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 10 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 10 | 2.06 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 10 | 2.06 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 18 | 2.06 |
| (1,8422) | 1:143:A:THR:HB | 1:144:A:GLY:H | 18 | 2.06 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 6 | 2.06 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 7 | 2.06 |
| (1,7618) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 20 | 2.06 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 18 | 2.06 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 18 | 2.06 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 4 | 2.06 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 8 | 2.06 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 10 | 2.06 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 1 | 2.06 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 1 | 2.06 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 4 | 2.06 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 11 | 2.06 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 11 | 2.06 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 11 | 2.06 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 3 | 2.06 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 3 | 2.06 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 3 | 2.06 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 20 | 2.06 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 20 | 2.06 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 20 | 2.06 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 18 | 2.06 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 18 | 2.06 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 18 | 2.06 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 13 | 2.06 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 13 | 2.06 |
| (1,6415) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 13 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 10 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 10 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 10 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 10 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 10 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 10 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 10 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 10 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 10 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 14 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 14 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 14 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 14 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 14 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 14 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 14 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 14 | 2.06 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 14 | 2.06 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 9 | 2.06 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 9 | 2.06 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 9 | 2.06 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 9 | 2.06 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 9 | 2.06 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 9 | 2.06 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 9 | 2.06 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 9 | 2.06 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 9 | 2.06 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 13 | 2.06 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 13 | 2.06 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 2 | 2.06 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 2 | 2.06 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 2 | 2.06 |
| (1,6041) | 1:134:A:PHE:H | 1:135:A:GLU:H | 13 | 2.06 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 18 | 2.06 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 18 | 2.06 |
| (1,6033) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 18 | 2.06 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 18 | 2.06 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 18 | 2.06 |
| (1,6033) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 18 | 2.06 |
| (1,5976) | 1:129:A:GLN:H | 1:130:A:MET:H | 10 | 2.06 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 10 | 2.06 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 10 | 2.06 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 10 | 2.06 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 12 | 2.06 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 12 | 2.06 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 12 | 2.06 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 14 | 2.06 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 14 | 2.06 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 14 | 2.06 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 13 | 2.06 |
| (1,5862) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 13 | 2.06 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 9 | 2.06 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 9 | 2.06 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 9 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 14 | 2.06 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 3 | 2.06 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 3 | 2.06 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 3 | 2.06 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 12 | 2.06 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 8 | 2.06 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 8 | 2.06 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 8 | 2.06 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 6 | 2.06 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 6 | 2.06 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 6 | 2.06 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 20 | 2.06 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 20 | 2.06 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 20 | 2.06 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 20 | 2.06 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 20 | 2.06 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 20 | 2.06 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 10 | 2.06 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 10 | 2.06 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 10 | 2.06 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 10 | 2.06 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 13 | 2.06 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 13 | 2.06 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 13 | 2.06 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 13 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 2 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 2 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 2 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 2 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 2 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 2 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 2 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 2 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 2 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 20 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 20 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 20 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 20 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 20 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 20 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 20 | 2.06 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 20 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 20 | 2.06 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 13 | 2.06 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 13 | 2.06 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 13 | 2.06 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 17 | 2.06 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 6 | 2.06 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 4 | 2.06 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 4 | 2.06 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 4 | 2.06 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 3 | 2.06 |
| (1,4912) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 17 | 2.06 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 14 | 2.06 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 9 | 2.06 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 1 | 2.06 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 1 | 2.06 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 1 | 2.06 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 1 | 2.06 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 8 | 2.06 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 8 | 2.06 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 8 | 2.06 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 5 | 2.06 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 5 | 2.06 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 7 | 2.06 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 7 | 2.06 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 7 | 2.06 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 7 | 2.06 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 7 | 2.06 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 7 | 2.06 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 7 | 2.06 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 7 | 2.06 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 18 | 2.06 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 18 | 2.06 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 18 | 2.06 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 18 | 2.06 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 18 | 2.06 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 18 | 2.06 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 17 | 2.06 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 17 | 2.06 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 17 | 2.06 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 17 | 2.06 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 17 | 2.06 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 17 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 16 | 2.06 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 16 | 2.06 |
| (1,4503) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 16 | 2.06 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 16 | 2.06 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 16 | 2.06 |
| (1,4503) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 16 | 2.06 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 12 | 2.06 |
| (1,4440) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 12 | 2.06 |
| (1,4216) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 5 | 2.06 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 6 | 2.06 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 6 | 2.06 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 10 | 2.06 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 10 | 2.06 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 10 | 2.06 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 10 | 2.06 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 10 | 2.06 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 10 | 2.06 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 2.06 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 2.06 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 2.06 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 2.06 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 2.06 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 2.06 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 9 | 2.06 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 9 | 2.06 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 13 | 2.06 |
| (1,3978) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 13 | 2.06 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 13 | 2.06 |
| (1,3978) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 13 | 2.06 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 9 | 2.06 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 9 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 2 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 2 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 2 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 2 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 7 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 7 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 7 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 7 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 17 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 17 | 2.06 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 17 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 17 | 2.06 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 4 | 2.06 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 2 | 2.06 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 19 | 2.06 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 19 | 2.06 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 9 | 2.06 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 9 | 2.06 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 4 | 2.06 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 4 | 2.06 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 4 | 2.06 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 4 | 2.06 |
| (1,3786) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 3 | 2.06 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 5 | 2.06 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 5 | 2.06 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 9 | 2.06 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 9 | 2.06 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 12 | 2.06 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 12 | 2.06 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 12 | 2.06 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 12 | 2.06 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 3 | 2.06 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 3 | 2.06 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 10 | 2.06 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 1 | 2.06 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 16 | 2.06 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 16 | 2.06 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 16 | 2.06 |
| (1,3291) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 13 | 2.06 |
| (1,3291) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 13 | 2.06 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 4 | 2.06 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 4 | 2.06 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 4 | 2.06 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 1 | 2.06 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 2 | 2.06 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 2 | 2.06 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 2 | 2.06 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 4 | 2.06 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 4 | 2.06 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 4 | 2.06 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 18 | 2.06 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 18 | 2.06 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 1 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 9 | 2.06 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 9 | 2.06 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 4 | 2.06 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 6 | 2.06 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 20 | 2.06 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 20 | 2.06 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 7 | 2.06 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 7 | 2.06 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 2 | 2.06 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 12 | 2.06 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 12 | 2.06 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 9 | 2.06 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 4 | 2.06 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 18 | 2.06 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 18 | 2.06 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 18 | 2.06 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 15 | 2.06 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 15 | 2.06 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 15 | 2.06 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 16 | 2.06 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 13 | 2.06 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 13 | 2.06 |
| (1,2130) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 13 | 2.06 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 18 | 2.06 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 18 | 2.06 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 18 | 2.06 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 20 | 2.06 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 20 | 2.06 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 20 | 2.06 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 20 | 2.06 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 20 | 2.06 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 20 | 2.06 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 20 | 2.06 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 20 | 2.06 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 20 | 2.06 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 10 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 10 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 10 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 10 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 10 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 10 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 10 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 10 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 10 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 10 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 14 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 14 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 14 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 14 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 14 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 14 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 14 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 14 | 2.06 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 14 | 2.06 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 18 | 2.06 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 18 | 2.06 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 18 | 2.06 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 12 | 2.06 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 11 | 2.06 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 11 | 2.06 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 11 | 2.06 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 4 | 2.06 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 4 | 2.06 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 4 | 2.06 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 9 | 2.06 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 9 | 2.06 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 9 | 2.06 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 4 | 2.06 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 2 | 2.06 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 1 | 2.06 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 17 | 2.06 |
| (1,1590) | 1:134:A:PHE:H | 1:135:A:GLU:H | 13 | 2.06 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 18 | 2.06 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 18 | 2.06 |
| (1,1580) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 18 | 2.06 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 18 | 2.06 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 18 | 2.06 |
| (1,1580) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 18 | 2.06 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 5 | 2.06 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 5 | 2.06 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 5 | 2.06 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 10 | 2.06 |
| (1,1442) | 1:129:A:GLN:H | 1:130:A:MET:H | 10 | 2.06 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 18 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 3 | 2.06 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 10 | 2.06 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 10 | 2.06 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 10 | 2.06 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 13 | 2.06 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 13 | 2.06 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 13 | 2.06 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 3 | 2.06 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 3 | 2.06 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 3 | 2.06 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 10 | 2.06 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 10 | 2.06 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 10 | 2.06 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 12 | 2.06 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 12 | 2.06 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 12 | 2.06 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 14 | 2.06 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 14 | 2.06 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 14 | 2.06 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 9 | 2.06 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 9 | 2.06 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 9 | 2.06 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 14 | 2.06 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 3 | 2.06 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 3 | 2.06 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 3 | 2.06 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 15 | 2.06 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 15 | 2.06 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 11 | 2.06 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 11 | 2.06 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 11 | 2.06 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 12 | 2.06 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 8 | 2.06 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 8 | 2.06 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 8 | 2.06 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 1 | 2.06 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 1 | 2.06 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 1 | 2.06 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 16 | 2.06 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 16 | 2.06 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 16 | 2.06 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 10 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 10 | 2.06 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 10 | 2.06 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 10 | 2.06 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 13 | 2.06 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 13 | 2.06 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 13 | 2.06 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 13 | 2.06 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 2 | 2.06 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 2 | 2.06 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 2 | 2.06 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 2 | 2.06 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 2 | 2.06 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 2 | 2.06 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 2 | 2.06 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 2 | 2.06 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 2 | 2.06 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 20 | 2.06 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 20 | 2.06 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 20 | 2.06 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 20 | 2.06 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 20 | 2.06 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 20 | 2.06 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 20 | 2.06 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 20 | 2.06 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 20 | 2.06 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 8 | 2.06 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 15 | 2.06 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 15 | 2.06 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 15 | 2.06 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 1 | 2.06 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 1 | 2.06 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 1 | 2.06 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 1 | 2.06 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 1 | 2.06 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 1 | 2.06 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 17 | 2.06 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 17 | 2.06 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 17 | 2.06 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 15 | 2.06 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 15 | 2.06 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 15 | 2.06 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 20 | 2.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 20 | 2.06 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 20 | 2.06 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 17 | 2.06 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 3 | 2.06 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 1 | 2.06 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 18 | 2.06 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 18 | 2.06 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 18 | 2.06 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 9 | 2.06 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 9 | 2.06 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 9 | 2.06 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 4 | 2.06 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 5 | 2.06 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 16 | 2.06 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 3 | 2.06 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 11 | 2.06 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 11 | 2.06 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 11 | 2.06 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 9 | 2.06 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 1 | 2.05 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 10 | 2.05 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 10 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 4 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 4 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 4 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 4 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 4 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 4 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 9 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 9 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 9 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 9 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 9 | 2.05 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 9 | 2.05 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 16 | 2.05 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 16 | 2.05 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 1 | 2.05 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 1 | 2.05 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 20 | 2.05 |
| (1,9495) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 20 | 2.05 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 12 | 2.05 |
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 12 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9391) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 12 | 2.05 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD11 | 12 | 2.05 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD12 | 12 | 2.05 |
| (1,9391) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD13 | 12 | 2.05 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 10 | 2.05 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 10 | 2.05 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 17 | 2.05 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 17 | 2.05 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 19 | 2.05 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 19 | 2.05 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 16 | 2.05 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 16 | 2.05 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 16 | 2.05 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 16 | 2.05 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 9 | 2.05 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 9 | 2.05 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 9 | 2.05 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 9 | 2.05 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 9 | 2.05 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 9 | 2.05 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 18 | 2.05 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 18 | 2.05 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 19 | 2.05 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 19 | 2.05 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 9 | 2.05 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 9 | 2.05 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 9 | 2.05 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 9 | 2.05 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 9 | 2.05 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 9 | 2.05 |
| (1,9034) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 13 | 2.05 |
| (1,9034) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 13 | 2.05 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 2 | 2.05 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 2 | 2.05 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 1 | 2.05 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 1 | 2.05 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 13 | 2.05 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 13 | 2.05 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 19 | 2.05 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 19 | 2.05 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 12 | 2.05 |
| (1,8876) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 12 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 12 | 2.05 |
| (1,8876) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 12 | 2.05 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 3 | 2.05 |
| (1,8811) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 3 | 2.05 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 1 | 2.05 |
| (1,8779) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 1 | 2.05 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 1 | 2.05 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 1 | 2.05 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 6 | 2.05 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 6 | 2.05 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 6 | 2.05 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 6 | 2.05 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 20 | 2.05 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 20 | 2.05 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 20 | 2.05 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 20 | 2.05 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 4 | 2.05 |
| (1,8692) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 4 | 2.05 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 19 | 2.05 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 19 | 2.05 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 15 | 2.05 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 15 | 2.05 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 15 | 2.05 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 15 | 2.05 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 1 | 2.05 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 1 | 2.05 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 1 | 2.05 |
| (1,8394) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HG | 20 | 2.05 |
| (1,8394) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HG | 20 | 2.05 |
| (1,8394) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HG | 20 | 2.05 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 12 | 2.05 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 12 | 2.05 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 7 | 2.05 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 7 | 2.05 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 7 | 2.05 |
| (1,7918) | 1:70:A:PRO:HB2 | 1:78:A:ILE:HB | 5 | 2.05 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 8 | 2.05 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 8 | 2.05 |
| (1,7621) | 1:26:A:ASN:HD21 | 1:28:A:ILE:H | 2 | 2.05 |
| (1,7501) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 20 | 2.05 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 13 | 2.05 |
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 2 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7218) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 2 | 2.05 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 15 | 2.05 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 12 | 2.05 |
| (1,7110) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 12 | 2.05 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 14 | 2.05 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 14 | 2.05 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 14 | 2.05 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 12 | 2.05 |
| (1,6651) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 12 | 2.05 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 12 | 2.05 |
| (1,6651) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 12 | 2.05 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 14 | 2.05 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 1 | 2.05 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 1 | 2.05 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 1 | 2.05 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 6 | 2.05 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 18 | 2.05 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 2 | 2.05 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 2 | 2.05 |
| (1,6429) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 2 | 2.05 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 20 | 2.05 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 20 | 2.05 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 20 | 2.05 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 20 | 2.05 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 20 | 2.05 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 20 | 2.05 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 20 | 2.05 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 20 | 2.05 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 20 | 2.05 |
| (1,6397) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 15 | 2.05 |
| (1,6397) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 15 | 2.05 |
| (1,6397) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 15 | 2.05 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 11 | 2.05 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 11 | 2.05 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 11 | 2.05 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 11 | 2.05 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 11 | 2.05 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 11 | 2.05 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 11 | 2.05 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 11 | 2.05 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 11 | 2.05 |
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 2 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6259) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 2 | 2.05 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 14 | 2.05 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 14 | 2.05 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 5 | 2.05 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 7 | 2.05 |
| (1,5847) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 7 | 2.05 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 9 | 2.05 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 9 | 2.05 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 9 | 2.05 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB1 | 15 | 2.05 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB2 | 15 | 2.05 |
| (1,5712) | 1:107:A:ALA:H | 1:107:A:ALA:HB3 | 15 | 2.05 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 19 | 2.05 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 19 | 2.05 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 19 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 6 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 6 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 6 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 6 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 6 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 6 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 6 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 6 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 6 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 12 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 12 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 12 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 12 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 12 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 12 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 12 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 12 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 12 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 16 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 16 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 16 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 16 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 16 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 16 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 16 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 16 | 2.05 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 16 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 5 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 5 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 5 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 16 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 16 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 16 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 18 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 18 | 2.05 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 18 | 2.05 |
| (1,5334) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 3 | 2.05 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 12 | 2.05 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 9 | 2.05 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 9 | 2.05 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 9 | 2.05 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 12 | 2.05 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 12 | 2.05 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 12 | 2.05 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 19 | 2.05 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 19 | 2.05 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 19 | 2.05 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 15 | 2.05 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 15 | 2.05 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 15 | 2.05 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 3 | 2.05 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 3 | 2.05 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 3 | 2.05 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 3 | 2.05 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 3 | 2.05 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 3 | 2.05 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 3 | 2.05 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 3 | 2.05 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 3 | 2.05 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 6 | 2.05 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 14 | 2.05 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 14 | 2.05 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 14 | 2.05 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 14 | 2.05 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 9 | 2.05 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 9 | 2.05 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 9 | 2.05 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 7 | 2.05 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 7 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 7 | 2.05 |
| (1,4627) | 1:50:A:GLY:H | 1:51:A:GLU:H | 13 | 2.05 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 10 | 2.05 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 10 | 2.05 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 1 | 2.05 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 1 | 2.05 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 1 | 2.05 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 1 | 2.05 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 11 | 2.05 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 13 | 2.05 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 13 | 2.05 |
| (1,4367) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 19 | 2.05 |
| (1,4367) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 19 | 2.05 |
| (1,4367) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 19 | 2.05 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 16 | 2.05 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 16 | 2.05 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 16 | 2.05 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 16 | 2.05 |
| (1,4308) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 15 | 2.05 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 7 | 2.05 |
| (1,4231) | 1:98:A:SER:HB3 | 1:99:A:GLY:H | 7 | 2.05 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 16 | 2.05 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 16 | 2.05 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 16 | 2.05 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 16 | 2.05 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 16 | 2.05 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 16 | 2.05 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 12 | 2.05 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 12 | 2.05 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 12 | 2.05 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 12 | 2.05 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 12 | 2.05 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 12 | 2.05 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 4 | 2.05 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 4 | 2.05 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 4 | 2.05 |
| (1,4109) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 5 | 2.05 |
| (1,4109) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 5 | 2.05 |
| (1,4109) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 5 | 2.05 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 10 | 2.05 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 10 | 2.05 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 10 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 10 | 2.05 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 10 | 2.05 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 10 | 2.05 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 9 | 2.05 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 9 | 2.05 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 9 | 2.05 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 9 | 2.05 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 9 | 2.05 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 9 | 2.05 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 16 | 2.05 |
| (1,4008) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 13 | 2.05 |
| (1,4008) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 13 | 2.05 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 12 | 2.05 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 12 | 2.05 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 12 | 2.05 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 12 | 2.05 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 12 | 2.05 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 12 | 2.05 |
| (1,3963) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 5 | 2.05 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 13 | 2.05 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 5 | 2.05 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 5 | 2.05 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 5 | 2.05 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 5 | 2.05 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 6 | 2.05 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 1 | 2.05 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 1 | 2.05 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 13 | 2.05 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 13 | 2.05 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 19 | 2.05 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 19 | 2.05 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 12 | 2.05 |
| (1,3832) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 12 | 2.05 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 12 | 2.05 |
| (1,3832) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 12 | 2.05 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 3 | 2.05 |
| (1,3784) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 3 | 2.05 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 1 | 2.05 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 1 | 2.05 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 1 | 2.05 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 1 | 2.05 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 1 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 1 | 2.05 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 4 | 2.05 |
| (1,3656) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 4 | 2.05 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 3 | 2.05 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 3 | 2.05 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 3 | 2.05 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 3 | 2.05 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 8 | 2.05 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 8 | 2.05 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 8 | 2.05 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 8 | 2.05 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 14 | 2.05 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 14 | 2.05 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 14 | 2.05 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 14 | 2.05 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 19 | 2.05 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 19 | 2.05 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 19 | 2.05 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 19 | 2.05 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 9 | 2.05 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 9 | 2.05 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 9 | 2.05 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 9 | 2.05 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 9 | 2.05 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 9 | 2.05 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 9 | 2.05 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 9 | 2.05 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 9 | 2.05 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 8 | 2.05 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 8 | 2.05 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 8 | 2.05 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 2 | 2.05 |
| (1,3392) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 2 | 2.05 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 18 | 2.05 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 18 | 2.05 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 6 | 2.05 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 20 | 2.05 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 15 | 2.05 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 12 | 2.05 |
| (1,3196) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 12 | 2.05 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 14 | 2.05 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 14 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 14 | 2.05 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 11 | 2.05 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 9 | 2.05 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 9 | 2.05 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 9 | 2.05 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 9 | 2.05 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 9 | 2.05 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 9 | 2.05 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 9 | 2.05 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 9 | 2.05 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 9 | 2.05 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 2 | 2.05 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 15 | 2.05 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 8 | 2.05 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 8 | 2.05 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 8 | 2.05 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 19 | 2.05 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 19 | 2.05 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 19 | 2.05 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 12 | 2.05 |
| (1,2526) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 12 | 2.05 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 12 | 2.05 |
| (1,2526) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 12 | 2.05 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 14 | 2.05 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 9 | 2.05 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 9 | 2.05 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 9 | 2.05 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 6 | 2.05 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 18 | 2.05 |
| (1,2235) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 19 | 2.05 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 2 | 2.05 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 2 | 2.05 |
| (1,2156) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 2 | 2.05 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 20 | 2.05 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 20 | 2.05 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 20 | 2.05 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 20 | 2.05 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 20 | 2.05 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 20 | 2.05 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 20 | 2.05 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 20 | 2.05 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 20 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 2.05 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 2.05 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 2.05 |
| (1,2102) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 15 | 2.05 |
| (1,2102) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 15 | 2.05 |
| (1,2102) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 15 | 2.05 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 2 | 2.05 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 2 | 2.05 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 2 | 2.05 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 7 | 2.05 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 7 | 2.05 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 7 | 2.05 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 4 | 2.05 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 4 | 2.05 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 4 | 2.05 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 4 | 2.05 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 4 | 2.05 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 4 | 2.05 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 14 | 2.05 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 14 | 2.05 |
| (1,1995) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 14 | 2.05 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 8 | 2.05 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 7 | 2.05 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 7 | 2.05 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 7 | 2.05 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 7 | 2.05 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 7 | 2.05 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 7 | 2.05 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 7 | 2.05 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 7 | 2.05 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 7 | 2.05 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 16 | 2.05 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 16 | 2.05 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 16 | 2.05 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 6 | 2.05 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 6 | 2.05 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 6 | 2.05 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 14 | 2.05 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 16 | 2.05 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 8 | 2.05 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 11 | 2.05 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 11 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 11 | 2.05 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 11 | 2.05 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 11 | 2.05 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 11 | 2.05 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 9 | 2.05 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 9 | 2.05 |
| (1,1575) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 9 | 2.05 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 14 | 2.05 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 12 | 2.05 |
| (1,1361) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 18 | 2.05 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 5 | 2.05 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 5 | 2.05 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 9 | 2.05 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 9 | 2.05 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 9 | 2.05 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 9 | 2.05 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 9 | 2.05 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 9 | 2.05 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 18 | 2.05 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 7 | 2.05 |
| (1,1224) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 7 | 2.05 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 4 | 2.05 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 4 | 2.05 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 4 | 2.05 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 4 | 2.05 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 4 | 2.05 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 4 | 2.05 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 3 | 2.05 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 3 | 2.05 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 3 | 2.05 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 7 | 2.05 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 7 | 2.05 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 7 | 2.05 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 7 | 2.05 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 7 | 2.05 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 7 | 2.05 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 19 | 2.05 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 19 | 2.05 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 19 | 2.05 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 6 | 2.05 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 6 | 2.05 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 6 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 6 | 2.05 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 6 | 2.05 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 6 | 2.05 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 6 | 2.05 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 6 | 2.05 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 6 | 2.05 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 12 | 2.05 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 12 | 2.05 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 12 | 2.05 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 12 | 2.05 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 12 | 2.05 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 12 | 2.05 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 12 | 2.05 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 12 | 2.05 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 12 | 2.05 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 16 | 2.05 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 16 | 2.05 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 16 | 2.05 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 16 | 2.05 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 16 | 2.05 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 16 | 2.05 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 16 | 2.05 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 16 | 2.05 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 16 | 2.05 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 5 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 5 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 5 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 5 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 16 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 16 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 16 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 18 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 18 | 2.05 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 18 | 2.05 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 6 | 2.05 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 6 | 2.05 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 6 | 2.05 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 6 | 2.05 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 6 | 2.05 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 6 | 2.05 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 9 | 2.05 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 9 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 9 | 2.05 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 18 | 2.05 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 18 | 2.05 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 18 | 2.05 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 4 | 2.05 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 4 | 2.05 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 4 | 2.05 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 18 | 2.05 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 18 | 2.05 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 18 | 2.05 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 7 | 2.05 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 18 | 2.05 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 10 | 2.05 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 12 | 2.05 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 2 | 2.05 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 2 | 2.05 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 6 | 2.05 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 18 | 2.05 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 11 | 2.05 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 11 | 2.05 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 11 | 2.05 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 11 | 2.05 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 11 | 2.05 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 11 | 2.05 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 11 | 2.05 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 11 | 2.05 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 11 | 2.05 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 7 | 2.05 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 7 | 2.05 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 7 | 2.05 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 7 | 2.05 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 7 | 2.05 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 7 | 2.05 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 11 | 2.05 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 16 | 2.05 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 16 | 2.05 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 16 | 2.05 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 15 | 2.05 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 15 | 2.05 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 17 | 2.04 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 16 | 2.04 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 13 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 13 | 2.04 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 13 | 2.04 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 5 | 2.04 |
| (1,9622) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 5 | 2.04 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 16 | 2.04 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 16 | 2.04 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 16 | 2.04 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 16 | 2.04 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 16 | 2.04 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 16 | 2.04 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 19 | 2.04 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 19 | 2.04 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 19 | 2.04 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 19 | 2.04 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 19 | 2.04 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 19 | 2.04 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 5 | 2.04 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 5 | 2.04 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 15 | 2.04 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 15 | 2.04 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 15 | 2.04 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 15 | 2.04 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 15 | 2.04 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 15 | 2.04 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 19 | 2.04 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 19 | 2.04 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 7 | 2.04 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 7 | 2.04 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 7 | 2.04 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 7 | 2.04 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 17 | 2.04 |
| (1,9342) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 17 | 2.04 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 17 | 2.04 |
| (1,9342) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 17 | 2.04 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB2 | 3 | 2.04 |
| (1,9229) | 1:97:A:LYS:H | 1:97:A:LYS:HB3 | 3 | 2.04 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 8 | 2.04 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 8 | 2.04 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 8 | 2.04 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 8 | 2.04 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 8 | 2.04 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 8 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 19 | 2.04 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 19 | 2.04 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 19 | 2.04 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 19 | 2.04 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 13 | 2.04 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 13 | 2.04 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 2 | 2.04 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 2 | 2.04 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 2 | 2.04 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 2 | 2.04 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 2 | 2.04 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 2 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 12 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 12 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 12 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 12 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 12 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 12 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 14 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 14 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 14 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 14 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 14 | 2.04 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 14 | 2.04 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 12 | 2.04 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 12 | 2.04 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 17 | 2.04 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 17 | 2.04 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 17 | 2.04 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 17 | 2.04 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 17 | 2.04 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 17 | 2.04 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 18 | 2.04 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 18 | 2.04 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 18 | 2.04 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 18 | 2.04 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 18 | 2.04 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 18 | 2.04 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 13 | 2.04 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 13 | 2.04 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 13 | 2.04 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 13 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 2 | 2.04 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 2 | 2.04 |
| (1,8325) | 1:131:A:GLN:HB3 | 1:134:A:PHE:H | 7 | 2.04 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 16 | 2.04 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 19 | 2.04 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 19 | 2.04 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 19 | 2.04 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 19 | 2.04 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 19 | 2.04 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 19 | 2.04 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 19 | 2.04 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 19 | 2.04 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 19 | 2.04 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 4 | 2.04 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 4 | 2.04 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 4 | 2.04 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 4 | 2.04 |
| (1,7891) | 1:65:A:SER:HA | 1:70:A:PRO:HB3 | 15 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 9 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 9 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 9 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 9 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 9 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 9 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 12 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 12 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 12 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 12 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 12 | 2.04 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 12 | 2.04 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 11 | 2.04 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 11 | 2.04 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 11 | 2.04 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 11 | 2.04 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 11 | 2.04 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 11 | 2.04 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 12 | 2.04 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 12 | 2.04 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 12 | 2.04 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 12 | 2.04 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 18 | 2.04 |
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 18 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 2 | 2.04 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD1 | 10 | 2.04 |
| (1,7293) | 1:24:A:TYR:H | 1:24:A:TYR:HD2 | 10 | 2.04 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 11 | 2.04 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 4 | 2.04 |
| (1,7003) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 10 | 2.04 |
| (1,7003) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 10 | 2.04 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 8 | 2.04 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 5 | 2.04 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 2 | 2.04 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 5 | 2.04 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 9 | 2.04 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 9 | 2.04 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 9 | 2.04 |
| (1,6509) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 8 | 2.04 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 13 | 2.04 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 13 | 2.04 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 13 | 2.04 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 18 | 2.04 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 18 | 2.04 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 18 | 2.04 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 1 | 2.04 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 1 | 2.04 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 1 | 2.04 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 1 | 2.04 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 1 | 2.04 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 1 | 2.04 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 1 | 2.04 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 1 | 2.04 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 1 | 2.04 |
| (1,6191) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 16 | 2.04 |
| (1,6191) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 16 | 2.04 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 13 | 2.04 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 13 | 2.04 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 13 | 2.04 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 20 | 2.04 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 20 | 2.04 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 20 | 2.04 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 20 | 2.04 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 20 | 2.04 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 20 | 2.04 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 20 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 20 | 2.04 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 20 | 2.04 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 20 | 2.04 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 20 | 2.04 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 16 | 2.04 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 16 | 2.04 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 8 | 2.04 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 8 | 2.04 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 8 | 2.04 |
| (1,6015) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 18 | 2.04 |
| (1,5917) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 2 | 2.04 |
| (1,5917) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 2 | 2.04 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 13 | 2.04 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 13 | 2.04 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 13 | 2.04 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 3 | 2.04 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 3 | 2.04 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 3 | 2.04 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 18 | 2.04 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 18 | 2.04 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 18 | 2.04 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 18 | 2.04 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 18 | 2.04 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 18 | 2.04 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 18 | 2.04 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 18 | 2.04 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 18 | 2.04 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 18 | 2.04 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 18 | 2.04 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 18 | 2.04 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 18 | 2.04 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 2 | 2.04 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 2 | 2.04 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 2 | 2.04 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 3 | 2.04 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 3 | 2.04 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 3 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 3 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 3 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 3 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 3 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 3 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 3 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 3 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 3 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 3 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 7 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 7 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 7 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 7 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 7 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 7 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 7 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 7 | 2.04 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 7 | 2.04 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 16 | 2.04 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 2 | 2.04 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 2 | 2.04 |
| (1,5322) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 2 | 2.04 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 1 | 2.04 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 5 | 2.04 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 5 | 2.04 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 5 | 2.04 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 5 | 2.04 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 5 | 2.04 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 5 | 2.04 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 5 | 2.04 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 5 | 2.04 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 5 | 2.04 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 3 | 2.04 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 3 | 2.04 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 3 | 2.04 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 10 | 2.04 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 10 | 2.04 |
| (1,5203) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 10 | 2.04 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 11 | 2.04 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 1 | 2.04 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 10 | 2.04 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 10 | 2.04 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 10 | 2.04 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 12 | 2.04 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 12 | 2.04 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 12 | 2.04 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 19 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 19 | 2.04 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 19 | 2.04 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 5 | 2.04 |
| (1,4608) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 5 | 2.04 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 8 | 2.04 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 8 | 2.04 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 8 | 2.04 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 14 | 2.04 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 14 | 2.04 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 3 | 2.04 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 3 | 2.04 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 6 | 2.04 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 6 | 2.04 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 6 | 2.04 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 6 | 2.04 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 7 | 2.04 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 7 | 2.04 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 3 | 2.04 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 17 | 2.04 |
| (1,4332) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 17 | 2.04 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 17 | 2.04 |
| (1,4332) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 17 | 2.04 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 1 | 2.04 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 1 | 2.04 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 1 | 2.04 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 8 | 2.04 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 8 | 2.04 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 8 | 2.04 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 8 | 2.04 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 8 | 2.04 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 8 | 2.04 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 14 | 2.04 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 10 | 2.04 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 10 | 2.04 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 10 | 2.04 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 10 | 2.04 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 18 | 2.04 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 7 | 2.04 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 3 | 2.04 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 3 | 2.04 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 2 | 2.04 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 2 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 2 | 2.04 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 2 | 2.04 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 2 | 2.04 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 2 | 2.04 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 12 | 2.04 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 12 | 2.04 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 19 | 2.04 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 19 | 2.04 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 4 | 2.04 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 4 | 2.04 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 4 | 2.04 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 4 | 2.04 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 9 | 2.04 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 9 | 2.04 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 15 | 2.04 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 15 | 2.04 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 15 | 2.04 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 15 | 2.04 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 8 | 2.04 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 8 | 2.04 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 16 | 2.04 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 16 | 2.04 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 16 | 2.04 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 16 | 2.04 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 16 | 2.04 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 16 | 2.04 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 2 | 2.04 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 2 | 2.04 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 2 | 2.04 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 2 | 2.04 |
| (1,3505) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 8 | 2.04 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 5 | 2.04 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 5 | 2.04 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 5 | 2.04 |
| (1,3346) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 11 | 2.04 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 5 | 2.04 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 14 | 2.04 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 14 | 2.04 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 14 | 2.04 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 17 | 2.04 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 4 | 2.04 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 7 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3046) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 10 | 2.04 |
| (1,3046) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 10 | 2.04 |
| (1,2975) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 5 | 2.04 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 14 | 2.04 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 14 | 2.04 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 14 | 2.04 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 20 | 2.04 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 20 | 2.04 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 20 | 2.04 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 20 | 2.04 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 20 | 2.04 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 20 | 2.04 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 3 | 2.04 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 8 | 2.04 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 9 | 2.04 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 20 | 2.04 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 9 | 2.04 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 9 | 2.04 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 9 | 2.04 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 7 | 2.04 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 9 | 2.04 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 9 | 2.04 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 9 | 2.04 |
| (1,2348) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 8 | 2.04 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 15 | 2.04 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 7 | 2.04 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 15 | 2.04 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 15 | 2.04 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 15 | 2.04 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 18 | 2.04 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 18 | 2.04 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 18 | 2.04 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 2.04 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 2.04 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 2.04 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 15 | 2.04 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 15 | 2.04 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 15 | 2.04 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 15 | 2.04 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 15 | 2.04 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 15 | 2.04 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 15 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 15 | 2.04 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 15 | 2.04 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 1 | 2.04 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 1 | 2.04 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 1 | 2.04 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 1 | 2.04 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 1 | 2.04 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 1 | 2.04 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 1 | 2.04 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 1 | 2.04 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 1 | 2.04 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 2 | 2.04 |
| (1,1802) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 16 | 2.04 |
| (1,1802) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 16 | 2.04 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 2.04 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 2.04 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 2.04 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 20 | 2.04 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 20 | 2.04 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 20 | 2.04 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 20 | 2.04 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 20 | 2.04 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 20 | 2.04 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 20 | 2.04 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 20 | 2.04 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 20 | 2.04 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 11 | 2.04 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 11 | 2.04 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 11 | 2.04 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 11 | 2.04 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 11 | 2.04 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 11 | 2.04 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 11 | 2.04 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 11 | 2.04 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 11 | 2.04 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 16 | 2.04 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 16 | 2.04 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 4 | 2.04 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 5 | 2.04 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 11 | 2.04 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 11 | 2.04 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 11 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1524) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 18 | 2.04 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 16 | 2.04 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 13 | 2.04 |
| (1,1336) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 2 | 2.04 |
| (1,1336) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 2 | 2.04 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 9 | 2.04 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 13 | 2.04 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 13 | 2.04 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 13 | 2.04 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 6 | 2.04 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 6 | 2.04 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 6 | 2.04 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 11 | 2.04 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 11 | 2.04 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 11 | 2.04 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 16 | 2.04 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 16 | 2.04 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 16 | 2.04 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 16 | 2.04 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 16 | 2.04 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 16 | 2.04 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 3 | 2.04 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 3 | 2.04 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 3 | 2.04 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 15 | 2.04 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 18 | 2.04 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 18 | 2.04 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 18 | 2.04 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 18 | 2.04 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 8 | 2.04 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 8 | 2.04 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 8 | 2.04 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 10 | 2.04 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 18 | 2.04 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 18 | 2.04 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 18 | 2.04 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 18 | 2.04 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 18 | 2.04 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 18 | 2.04 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 18 | 2.04 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 18 | 2.04 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 18 | 2.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 2 | 2.04 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 2 | 2.04 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 2 | 2.04 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 3 | 2.04 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 3 | 2.04 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 3 | 2.04 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 7 | 2.04 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 7 | 2.04 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 7 | 2.04 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 17 | 2.04 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 17 | 2.04 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 17 | 2.04 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 14 | 2.04 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 5 | 2.04 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 5 | 2.04 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 5 | 2.04 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 13 | 2.04 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 13 | 2.04 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 13 | 2.04 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 9 | 2.04 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 9 | 2.04 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 9 | 2.04 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 11 | 2.04 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 18 | 2.04 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 10 | 2.04 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 2 | 2.04 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 2 | 2.04 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 2 | 2.04 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 13 | 2.04 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 13 | 2.04 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 13 | 2.04 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 7 | 2.04 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 14 | 2.04 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 14 | 2.04 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 14 | 2.04 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 15 | 2.04 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 15 | 2.04 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 15 | 2.04 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 15 | 2.04 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 15 | 2.04 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 20 | 2.03 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 18 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 3 | 2.03 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 10 | 2.03 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 10 | 2.03 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 10 | 2.03 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 10 | 2.03 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 10 | 2.03 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 10 | 2.03 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 16 | 2.03 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 16 | 2.03 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 16 | 2.03 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 16 | 2.03 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 6 | 2.03 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 6 | 2.03 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 6 | 2.03 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 6 | 2.03 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 6 | 2.03 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 6 | 2.03 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 20 | 2.03 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 20 | 2.03 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 20 | 2.03 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 20 | 2.03 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 20 | 2.03 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 20 | 2.03 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 2 | 2.03 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 2 | 2.03 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 20 | 2.03 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 20 | 2.03 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 20 | 2.03 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 20 | 2.03 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 14 | 2.03 |
| (1,9217) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 14 | 2.03 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 14 | 2.03 |
| (1,9217) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 14 | 2.03 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 6 | 2.03 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 6 | 2.03 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 6 | 2.03 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 6 | 2.03 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 6 | 2.03 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 6 | 2.03 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 6 | 2.03 |
| (1,9016) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 6 | 2.03 |
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 6 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9016) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 6 | 2.03 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 6 | 2.03 |
| (1,9016) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 6 | 2.03 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 10 | 2.03 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 10 | 2.03 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 14 | 2.03 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 14 | 2.03 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 15 | 2.03 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 15 | 2.03 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 4 | 2.03 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 4 | 2.03 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 4 | 2.03 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 4 | 2.03 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 4 | 2.03 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 4 | 2.03 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 10 | 2.03 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 10 | 2.03 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 16 | 2.03 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 16 | 2.03 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 4 | 2.03 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 4 | 2.03 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 10 | 2.03 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 10 | 2.03 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 10 | 2.03 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 10 | 2.03 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 12 | 2.03 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 12 | 2.03 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 18 | 2.03 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 18 | 2.03 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 10 | 2.03 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 10 | 2.03 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 10 | 2.03 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 10 | 2.03 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 14 | 2.03 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 14 | 2.03 |
| (1,8495) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 14 | 2.03 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 14 | 2.03 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 14 | 2.03 |
| (1,8495) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 14 | 2.03 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 14 | 2.03 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 14 | 2.03 |
| (1,8495) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 14 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 4 | 2.03 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 4 | 2.03 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 4 | 2.03 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 18 | 2.03 |
| (1,8300) | 1:127:A:ARG:H | 1:127:A:ARG:HD3 | 3 | 2.03 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 18 | 2.03 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 10 | 2.03 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 9 | 2.03 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 9 | 2.03 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 9 | 2.03 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 13 | 2.03 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 13 | 2.03 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 13 | 2.03 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD11 | 20 | 2.03 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD12 | 20 | 2.03 |
| (1,7940) | 1:72:A:SER:HA | 1:78:A:ILE:HD13 | 20 | 2.03 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 3 | 2.03 |
| (1,7759) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 3 | 2.03 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 3 | 2.03 |
| (1,7759) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 3 | 2.03 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 3 | 2.03 |
| (1,7759) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 3 | 2.03 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 20 | 2.03 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 15 | 2.03 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 15 | 2.03 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 15 | 2.03 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 15 | 2.03 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 15 | 2.03 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 15 | 2.03 |
| (1,7687) | 1:38:A:SER:H | 1:39:A:GLY:H | 14 | 2.03 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 3 | 2.03 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD1 | 18 | 2.03 |
| (1,7588) | 1:25:A:PHE:HA | 1:25:A:PHE:HD2 | 18 | 2.03 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 8 | 2.03 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG2 | 18 | 2.03 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG2 | 18 | 2.03 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG2 | 18 | 2.03 |
| (1,7418) | 1:7:A:LEU:HD11 | 1:12:A:GLU:HG3 | 18 | 2.03 |
| (1,7418) | 1:7:A:LEU:HD12 | 1:12:A:GLU:HG3 | 18 | 2.03 |
| (1,7418) | 1:7:A:LEU:HD13 | 1:12:A:GLU:HG3 | 18 | 2.03 |
| (1,7373) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 16 | 2.03 |
| (1,7274) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 5 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 13 | 2.03 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 13 | 2.03 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 13 | 2.03 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 13 | 2.03 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 13 | 2.03 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 13 | 2.03 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 13 | 2.03 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 13 | 2.03 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 13 | 2.03 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 3 | 2.03 |
| (1,7216) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 3 | 2.03 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 15 | 2.03 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 15 | 2.03 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 15 | 2.03 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 8 | 2.03 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 8 | 2.03 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 8 | 2.03 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 11 | 2.03 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 11 | 2.03 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 11 | 2.03 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 18 | 2.03 |
| (1,6938) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 16 | 2.03 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 4 | 2.03 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 4 | 2.03 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 4 | 2.03 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 4 | 2.03 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 4 | 2.03 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 4 | 2.03 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 4 | 2.03 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 4 | 2.03 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 4 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 2 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 2 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 2 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 2 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 2 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 2 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 2 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 2 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 2 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 3 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 3 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 3 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 3 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 3 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 3 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 3 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 3 | 2.03 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 3 | 2.03 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 8 | 2.03 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 8 | 2.03 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 8 | 2.03 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 4 | 2.03 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 20 | 2.03 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 20 | 2.03 |
| (1,6144) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 20 | 2.03 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 4 | 2.03 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 4 | 2.03 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 4 | 2.03 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 8 | 2.03 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 12 | 2.03 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 12 | 2.03 |
| (1,5800) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 12 | 2.03 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 10 | 2.03 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 10 | 2.03 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 10 | 2.03 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 15 | 2.03 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 15 | 2.03 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 20 | 2.03 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 20 | 2.03 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 20 | 2.03 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 20 | 2.03 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 19 | 2.03 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 19 | 2.03 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 19 | 2.03 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 19 | 2.03 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 19 | 2.03 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 19 | 2.03 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 19 | 2.03 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 19 | 2.03 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 19 | 2.03 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 2.03 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 2.03 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 2.03 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 2.03 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 2.03 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 2.03 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 2.03 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 2.03 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 12 | 2.03 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 4 | 2.03 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 4 | 2.03 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 4 | 2.03 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 12 | 2.03 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 12 | 2.03 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 12 | 2.03 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 8 | 2.03 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 8 | 2.03 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 8 | 2.03 |
| (1,5100) | 1:79:A:THR:H | 1:80:A:ARG:H | 10 | 2.03 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 4 | 2.03 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 4 | 2.03 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 4 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 4 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 4 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 4 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 5 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 5 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 5 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 14 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 14 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 14 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 15 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 15 | 2.03 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 15 | 2.03 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 19 | 2.03 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 3 | 2.03 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 3 | 2.03 |
| (1,4564) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 3 | 2.03 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 12 | 2.03 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 17 | 2.03 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 17 | 2.03 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 16 | 2.03 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 16 | 2.03 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 15 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 15 | 2.03 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 15 | 2.03 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 15 | 2.03 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 9 | 2.03 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 9 | 2.03 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 9 | 2.03 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 9 | 2.03 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 11 | 2.03 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 15 | 2.03 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 15 | 2.03 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 1 | 2.03 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 15 | 2.03 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 15 | 2.03 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 12 | 2.03 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 12 | 2.03 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 12 | 2.03 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 12 | 2.03 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 12 | 2.03 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 12 | 2.03 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 14 | 2.03 |
| (1,4204) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 14 | 2.03 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 14 | 2.03 |
| (1,4204) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 14 | 2.03 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 4 | 2.03 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 3 | 2.03 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 6 | 2.03 |
| (1,3992) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 6 | 2.03 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 6 | 2.03 |
| (1,3992) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 6 | 2.03 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 6 | 2.03 |
| (1,3992) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 6 | 2.03 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 17 | 2.03 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 17 | 2.03 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 17 | 2.03 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 10 | 2.03 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 10 | 2.03 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 14 | 2.03 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 14 | 2.03 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 15 | 2.03 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 15 | 2.03 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 13 | 2.03 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 13 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 13 | 2.03 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 20 | 2.03 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 20 | 2.03 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 20 | 2.03 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 20 | 2.03 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 20 | 2.03 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 20 | 2.03 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 12 | 2.03 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 12 | 2.03 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 12 | 2.03 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 12 | 2.03 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 12 | 2.03 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 12 | 2.03 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 20 | 2.03 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 20 | 2.03 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 4 | 2.03 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 4 | 2.03 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 3 | 2.03 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 3 | 2.03 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 20 | 2.03 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 20 | 2.03 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 20 | 2.03 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 4 | 2.03 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 4 | 2.03 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 3 | 2.03 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 16 | 2.03 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 2.03 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 16 | 2.03 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 9 | 2.03 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 9 | 2.03 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 9 | 2.03 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 9 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 4 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 4 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 4 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 4 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 9 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 9 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 9 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 9 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 15 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 15 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 15 | 2.03 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 15 | 2.03 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 16 | 2.03 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 4 | 2.03 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 4 | 2.03 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 14 | 2.03 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 14 | 2.03 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 13 | 2.03 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 13 | 2.03 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 13 | 2.03 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 13 | 2.03 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 13 | 2.03 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 13 | 2.03 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 13 | 2.03 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 13 | 2.03 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 13 | 2.03 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 19 | 2.03 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 19 | 2.03 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 3 | 2.03 |
| (1,3390) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 3 | 2.03 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 10 | 2.03 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 10 | 2.03 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 10 | 2.03 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 10 | 2.03 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 10 | 2.03 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 10 | 2.03 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 18 | 2.03 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 4 | 2.03 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 14 | 2.03 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 14 | 2.03 |
| (1,3163) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 1 | 2.03 |
| (1,3163) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 1 | 2.03 |
| (1,3163) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 1 | 2.03 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 19 | 2.03 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 19 | 2.03 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 19 | 2.03 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 11 | 2.03 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 20 | 2.03 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 20 | 2.03 |
| (1,2958) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 16 | 2.03 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 4 | 2.03 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 4 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 4 | 2.03 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 14 | 2.03 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 17 | 2.03 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 10 | 2.03 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 4 | 2.03 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 4 | 2.03 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 4 | 2.03 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 4 | 2.03 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 4 | 2.03 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 4 | 2.03 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 4 | 2.03 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 4 | 2.03 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 4 | 2.03 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 10 | 2.03 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 4 | 2.03 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 4 | 2.03 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 4 | 2.03 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 4 | 2.03 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 4 | 2.03 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 4 | 2.03 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 4 | 2.03 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 4 | 2.03 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 4 | 2.03 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 2.03 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 2.03 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 2.03 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 4 | 2.03 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 4 | 2.03 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 4 | 2.03 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 17 | 2.03 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 17 | 2.03 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 17 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 2 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 2 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 2 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 2 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 2 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 2 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 2 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 2 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 2 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 3 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 3 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 3 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 3 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 3 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 3 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 3 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 3 | 2.03 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 3 | 2.03 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 16 | 2.03 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 16 | 2.03 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 16 | 2.03 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 14 | 2.03 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 14 | 2.03 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 5 | 2.03 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 5 | 2.03 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 4 | 2.03 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 20 | 2.03 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 20 | 2.03 |
| (1,1738) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 20 | 2.03 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 20 | 2.03 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 20 | 2.03 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 20 | 2.03 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 9 | 2.03 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 9 | 2.03 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 9 | 2.03 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 10 | 2.03 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 10 | 2.03 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 8 | 2.03 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 13 | 2.03 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 13 | 2.03 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 13 | 2.03 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 13 | 2.03 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 13 | 2.03 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 13 | 2.03 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 7 | 2.03 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 7 | 2.03 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 7 | 2.03 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 7 | 2.03 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 7 | 2.03 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 7 | 2.03 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 9 | 2.03 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 7 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 12 | 2.03 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 12 | 2.03 |
| (1,1158) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 12 | 2.03 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 11 | 2.03 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 11 | 2.03 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 12 | 2.03 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 12 | 2.03 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 8 | 2.03 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 8 | 2.03 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 8 | 2.03 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 1 | 2.03 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 1 | 2.03 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 1 | 2.03 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 10 | 2.03 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 10 | 2.03 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 10 | 2.03 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 11 | 2.03 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 20 | 2.03 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 20 | 2.03 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 20 | 2.03 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 20 | 2.03 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 2.03 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 4 | 2.03 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 19 | 2.03 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 19 | 2.03 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 19 | 2.03 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 19 | 2.03 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 19 | 2.03 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 19 | 2.03 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 19 | 2.03 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 19 | 2.03 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 19 | 2.03 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 4 | 2.03 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 11 | 2.03 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 11 | 2.03 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 11 | 2.03 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 12 | 2.03 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 4 | 2.03 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 4 | 2.03 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 4 | 2.03 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 12 | 2.03 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 12 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 12 | 2.03 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE1 | 2 | 2.03 |
| (1,523) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HE2 | 2 | 2.03 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE1 | 2 | 2.03 |
| (1,523) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HE2 | 2 | 2.03 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE1 | 2 | 2.03 |
| (1,523) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HE2 | 2 | 2.03 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 16 | 2.03 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 16 | 2.03 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 16 | 2.03 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 11 | 2.03 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 11 | 2.03 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 11 | 2.03 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 19 | 2.03 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 19 | 2.03 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 19 | 2.03 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 14 | 2.03 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 5 | 2.03 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 9 | 2.03 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 9 | 2.03 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 9 | 2.03 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 19 | 2.03 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 19 | 2.03 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 19 | 2.03 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 16 | 2.03 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 5 | 2.03 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 7 | 2.03 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 10 | 2.03 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 13 | 2.03 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 20 | 2.03 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 11 | 2.03 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 11 | 2.03 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 11 | 2.03 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 11 | 2.03 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 11 | 2.03 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 11 | 2.03 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 14 | 2.03 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 9 | 2.03 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 12 | 2.03 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 12 | 2.03 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 12 | 2.03 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 12 | 2.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 12 | 2.03 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 19 | 2.03 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 9 | 2.03 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 9 | 2.03 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 9 | 2.03 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 9 | 2.03 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 9 | 2.03 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 9 | 2.03 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 9 | 2.03 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 9 | 2.03 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 9 | 2.03 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 16 | 2.03 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 16 | 2.03 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 16 | 2.03 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 16 | 2.03 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 16 | 2.03 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 16 | 2.03 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 16 | 2.03 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 16 | 2.03 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 16 | 2.03 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 11 | 2.03 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 1 | 2.03 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 16 | 2.02 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 8 | 2.02 |
| (4,52) | 1:15:A:MET:CB | 1:109:A:GLN:H | 14 | 2.02 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 5 | 2.02 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 5 | 2.02 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 1 | 2.02 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 1 | 2.02 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 1 | 2.02 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 12 | 2.02 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 12 | 2.02 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 12 | 2.02 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 12 | 2.02 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 12 | 2.02 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 12 | 2.02 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 20 | 2.02 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 20 | 2.02 |
| (1,9528) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 11 | 2.02 |
| (1,9528) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 11 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 5 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 5 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 5 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 5 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 5 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 5 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 12 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 12 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 12 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 12 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 12 | 2.02 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 12 | 2.02 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 16 | 2.02 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 16 | 2.02 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 7 | 2.02 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 7 | 2.02 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 3 | 2.02 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 3 | 2.02 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 3 | 2.02 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 3 | 2.02 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 3 | 2.02 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 3 | 2.02 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 2.02 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 2.02 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 2.02 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 2.02 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 2.02 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 2.02 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 5 | 2.02 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 5 | 2.02 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 5 | 2.02 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 5 | 2.02 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 5 | 2.02 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 5 | 2.02 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 12 | 2.02 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 12 | 2.02 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 14 | 2.02 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 14 | 2.02 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 2 | 2.02 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 2 | 2.02 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 1 | 2.02 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 1 | 2.02 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 1 | 2.02 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 1 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 2 | 2.02 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 2 | 2.02 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 2 | 2.02 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD21 | 2 | 2.02 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD22 | 2 | 2.02 |
| (1,8445) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD23 | 2 | 2.02 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD21 | 2 | 2.02 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD22 | 2 | 2.02 |
| (1,8445) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD23 | 2 | 2.02 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD21 | 2 | 2.02 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD22 | 2 | 2.02 |
| (1,8445) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD23 | 2 | 2.02 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 2 | 2.02 |
| (1,8324) | 1:131:A:GLN:HB2 | 1:133:A:PRO:HD2 | 4 | 2.02 |
| (1,7958) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 17 | 2.02 |
| (1,7958) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 17 | 2.02 |
| (1,7942) | 1:73:A:TRP:HA | 1:73:A:TRP:HD1 | 16 | 2.02 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 4 | 2.02 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 4 | 2.02 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 4 | 2.02 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 4 | 2.02 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 4 | 2.02 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 4 | 2.02 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 4 | 2.02 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 4 | 2.02 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 4 | 2.02 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 14 | 2.02 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD11 | 1 | 2.02 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD12 | 1 | 2.02 |
| (1,7811) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HD13 | 1 | 2.02 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD11 | 1 | 2.02 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD12 | 1 | 2.02 |
| (1,7811) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HD13 | 1 | 2.02 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD11 | 1 | 2.02 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD12 | 1 | 2.02 |
| (1,7811) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HD13 | 1 | 2.02 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 5 | 2.02 |
| (1,7525) | 1:14:A:ARG:H | 1:14:A:ARG:HD3 | 9 | 2.02 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 8 | 2.02 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 8 | 2.02 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 9 | 2.02 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 9 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 8 | 2.02 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 8 | 2.02 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 9 | 2.02 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 9 | 2.02 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 9 | 2.02 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 14 | 2.02 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 16 | 2.02 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 16 | 2.02 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 13 | 2.02 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 1 | 2.02 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 1 | 2.02 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 1 | 2.02 |
| (1,6680) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 15 | 2.02 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 17 | 2.02 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 11 | 2.02 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 2 | 2.02 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 2 | 2.02 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 2 | 2.02 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 2 | 2.02 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 9 | 2.02 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 9 | 2.02 |
| (1,6078) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 20 | 2.02 |
| (1,6078) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 20 | 2.02 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 12 | 2.02 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 17 | 2.02 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 15 | 2.02 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 15 | 2.02 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 15 | 2.02 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 8 | 2.02 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 8 | 2.02 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 8 | 2.02 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 8 | 2.02 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 8 | 2.02 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 8 | 2.02 |
| (1,5721) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 12 | 2.02 |
| (1,5721) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 12 | 2.02 |
| (1,5721) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 12 | 2.02 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 8 | 2.02 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 8 | 2.02 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 8 | 2.02 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 8 | 2.02 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 8 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 8 | 2.02 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 9 | 2.02 |
| (1,5470) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 9 | 2.02 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 9 | 2.02 |
| (1,5470) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 9 | 2.02 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 9 | 2.02 |
| (1,5470) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 9 | 2.02 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 13 | 2.02 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 13 | 2.02 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 13 | 2.02 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 17 | 2.02 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 17 | 2.02 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 17 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 20 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 20 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 20 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 20 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 20 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 20 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 20 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 20 | 2.02 |
| (1,5284) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 20 | 2.02 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 19 | 2.02 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 19 | 2.02 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 19 | 2.02 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 10 | 2.02 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 10 | 2.02 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 10 | 2.02 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 4 | 2.02 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 4 | 2.02 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 4 | 2.02 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 2 | 2.02 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 2 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 2 | 2.02 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 1 | 2.02 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 1 | 2.02 |
| (1,4661) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 1 | 2.02 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 6 | 2.02 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 7 | 2.02 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 12 | 2.02 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 10 | 2.02 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 10 | 2.02 |
| (1,4520) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 11 | 2.02 |
| (1,4520) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 11 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 5 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 5 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 5 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 5 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 5 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 5 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 12 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 12 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 12 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 12 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 12 | 2.02 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 12 | 2.02 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 8 | 2.02 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 8 | 2.02 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 6 | 2.02 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 6 | 2.02 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 6 | 2.02 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 11 | 2.02 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 11 | 2.02 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 11 | 2.02 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 11 | 2.02 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 7 | 2.02 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 7 | 2.02 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 4 | 2.02 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 4 | 2.02 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 4 | 2.02 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 4 | 2.02 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 9 | 2.02 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 9 | 2.02 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 9 | 2.02 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 9 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 4 | 2.02 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 4 | 2.02 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 4 | 2.02 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 4 | 2.02 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 4 | 2.02 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 4 | 2.02 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 7 | 2.02 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 7 | 2.02 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 7 | 2.02 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 2 | 2.02 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 2 | 2.02 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 2 | 2.02 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 2 | 2.02 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 2 | 2.02 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 2 | 2.02 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 9 | 2.02 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 9 | 2.02 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 4 | 2.02 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 4 | 2.02 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 4 | 2.02 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 4 | 2.02 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG2 | 5 | 2.02 |
| (1,3976) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HG3 | 5 | 2.02 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG2 | 5 | 2.02 |
| (1,3976) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HG3 | 5 | 2.02 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 13 | 2.02 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 13 | 2.02 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 13 | 2.02 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 13 | 2.02 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 3 | 2.02 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 10 | 2.02 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 10 | 2.02 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 2.02 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 2.02 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 2.02 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 2.02 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 2.02 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 2.02 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 2.02 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 2.02 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 2.02 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 5 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 5 | 2.02 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 5 | 2.02 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 5 | 2.02 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 5 | 2.02 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 5 | 2.02 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 1 | 2.02 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 1 | 2.02 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 1 | 2.02 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 15 | 2.02 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 15 | 2.02 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 15 | 2.02 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 12 | 2.02 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 1 | 2.02 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 1 | 2.02 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 11 | 2.02 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 11 | 2.02 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 11 | 2.02 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 11 | 2.02 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 7 | 2.02 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 7 | 2.02 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 19 | 2.02 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 19 | 2.02 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 19 | 2.02 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 19 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 7 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 7 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 7 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 7 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 8 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 8 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 8 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 8 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 11 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 11 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 11 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 11 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 17 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 17 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 17 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 17 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 20 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 20 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 20 | 2.02 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 20 | 2.02 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 16 | 2.02 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 2 | 2.02 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 2 | 2.02 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 2 | 2.02 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 2 | 2.02 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 2 | 2.02 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 2 | 2.02 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 2 | 2.02 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 2 | 2.02 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 2 | 2.02 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 6 | 2.02 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 4 | 2.02 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 4 | 2.02 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 4 | 2.02 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 20 | 2.02 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 20 | 2.02 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 20 | 2.02 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 3 | 2.02 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 3 | 2.02 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 3 | 2.02 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 16 | 2.02 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 16 | 2.02 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 16 | 2.02 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 19 | 2.02 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 19 | 2.02 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 19 | 2.02 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 1 | 2.02 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 1 | 2.02 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 4 | 2.02 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 13 | 2.02 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 15 | 2.02 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 15 | 2.02 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 15 | 2.02 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 15 | 2.02 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 12 | 2.02 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 12 | 2.02 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 16 | 2.02 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 2 | 2.02 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 12 | 2.02 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 18 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2570) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 15 | 2.02 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 9 | 2.02 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 9 | 2.02 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 9 | 2.02 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 17 | 2.02 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 10 | 2.02 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 19 | 2.02 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 16 | 2.02 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 19 | 2.02 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 19 | 2.02 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 19 | 2.02 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 3 | 2.02 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 7 | 2.02 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 3 | 2.02 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 3 | 2.02 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 3 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 4 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 4 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 4 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 4 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 4 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 4 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 4 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 4 | 2.02 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 4 | 2.02 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 18 | 2.02 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 18 | 2.02 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 18 | 2.02 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 4 | 2.02 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 4 | 2.02 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 4 | 2.02 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 16 | 2.02 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 16 | 2.02 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 16 | 2.02 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 10 | 2.02 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 10 | 2.02 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 10 | 2.02 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 6 | 2.02 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 3 | 2.02 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 11 | 2.02 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 5 | 2.02 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 5 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 5 | 2.02 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 6 | 2.02 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 9 | 2.02 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 9 | 2.02 |
| (1,1648) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 20 | 2.02 |
| (1,1648) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 20 | 2.02 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 7 | 2.02 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 7 | 2.02 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 7 | 2.02 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 4 | 2.02 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 13 | 2.02 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 12 | 2.02 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 11 | 2.02 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 17 | 2.02 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 15 | 2.02 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 15 | 2.02 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 15 | 2.02 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 8 | 2.02 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 8 | 2.02 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 8 | 2.02 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 8 | 2.02 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 8 | 2.02 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 8 | 2.02 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 2 | 2.02 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 2 | 2.02 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 2 | 2.02 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 2 | 2.02 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 3 | 2.02 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 3 | 2.02 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 6 | 2.02 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 6 | 2.02 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 7 | 2.02 |
| (1,1006) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 12 | 2.02 |
| (1,1006) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 12 | 2.02 |
| (1,1006) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 12 | 2.02 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 2.02 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 13 | 2.02 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 19 | 2.02 |
| (1,643) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 7 | 2.02 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 3 | 2.02 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 9 | 2.02 |
| (1,574) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 9 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 9 | 2.02 |
| (1,574) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 9 | 2.02 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 9 | 2.02 |
| (1,574) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 9 | 2.02 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 13 | 2.02 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 13 | 2.02 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 13 | 2.02 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 17 | 2.02 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 17 | 2.02 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 17 | 2.02 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 3 | 2.02 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 3 | 2.02 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 3 | 2.02 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 14 | 2.02 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 14 | 2.02 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 14 | 2.02 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 6 | 2.02 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 6 | 2.02 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 6 | 2.02 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 2.02 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 2.02 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 3 | 2.02 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 20 | 2.02 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 7 | 2.02 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 17 | 2.02 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 17 | 2.02 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 17 | 2.02 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 17 | 2.02 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 17 | 2.02 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 17 | 2.02 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 9 | 2.02 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 9 | 2.02 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 11 | 2.02 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 6 | 2.02 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 12 | 2.02 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 4 | 2.02 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 15 | 2.02 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 12 | 2.02 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 1 | 2.02 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 13 | 2.02 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 1 | 2.02 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 8 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 8 | 2.02 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 8 | 2.02 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 13 | 2.02 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 13 | 2.02 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 13 | 2.02 |
| (1,40) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 2 | 2.02 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 4 | 2.01 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 18 | 2.01 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 8 | 2.01 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 18 | 2.01 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 18 | 2.01 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 18 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 3 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 3 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 3 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 3 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 3 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 3 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 13 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 13 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 13 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 13 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 13 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 13 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 15 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 15 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 15 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 15 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 15 | 2.01 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 15 | 2.01 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 3 | 2.01 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 3 | 2.01 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 3 | 2.01 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 3 | 2.01 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 3 | 2.01 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 3 | 2.01 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 13 | 2.01 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 13 | 2.01 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 13 | 2.01 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 13 | 2.01 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 13 | 2.01 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 13 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 13 | 2.01 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 13 | 2.01 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 19 | 2.01 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 19 | 2.01 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD2 | 4 | 2.01 |
| (1,9233) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HD3 | 4 | 2.01 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD2 | 4 | 2.01 |
| (1,9233) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HD3 | 4 | 2.01 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 13 | 2.01 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 13 | 2.01 |
| (1,9001) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 10 | 2.01 |
| (1,9001) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 10 | 2.01 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 3 | 2.01 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 3 | 2.01 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 3 | 2.01 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 3 | 2.01 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 3 | 2.01 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 3 | 2.01 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 3 | 2.01 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 3 | 2.01 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 3 | 2.01 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 3 | 2.01 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 3 | 2.01 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 3 | 2.01 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 16 | 2.01 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 16 | 2.01 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 16 | 2.01 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 16 | 2.01 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 16 | 2.01 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 16 | 2.01 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 5 | 2.01 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 5 | 2.01 |
| (1,8786) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 8 | 2.01 |
| (1,8786) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 8 | 2.01 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 15 | 2.01 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 15 | 2.01 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 15 | 2.01 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 15 | 2.01 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD2 | 7 | 2.01 |
| (1,8564) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HD3 | 7 | 2.01 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD2 | 7 | 2.01 |
| (1,8564) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HD3 | 7 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 5 | 2.01 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 5 | 2.01 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 5 | 2.01 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 9 | 2.01 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 9 | 2.01 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 9 | 2.01 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 13 | 2.01 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 13 | 2.01 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 13 | 2.01 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 3 | 2.01 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 3 | 2.01 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 3 | 2.01 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 5 | 2.01 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 5 | 2.01 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 5 | 2.01 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 5 | 2.01 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 5 | 2.01 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 5 | 2.01 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 5 | 2.01 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 5 | 2.01 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 5 | 2.01 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 11 | 2.01 |
| (1,7459) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 7 | 2.01 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 5 | 2.01 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 5 | 2.01 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 7 | 2.01 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 16 | 2.01 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 16 | 2.01 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 16 | 2.01 |
| (1,6884) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG12 | 9 | 2.01 |
| (1,6884) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG12 | 9 | 2.01 |
| (1,6884) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG12 | 9 | 2.01 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 12 | 2.01 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 12 | 2.01 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 12 | 2.01 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 12 | 2.01 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 14 | 2.01 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 15 | 2.01 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 3 | 2.01 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 3 | 2.01 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 6 | 2.01 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 6 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 5 | 2.01 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 5 | 2.01 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 5 | 2.01 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 14 | 2.01 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 6 | 2.01 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 6 | 2.01 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 6 | 2.01 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 6 | 2.01 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 11 | 2.01 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 11 | 2.01 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 11 | 2.01 |
| (1,5868) | 1:122:A:LEU:H | 1:123:A:GLY:H | 13 | 2.01 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 4 | 2.01 |
| (1,5620) | 1:101:A:GLU:H | 1:102:A:ASP:H | 8 | 2.01 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 18 | 2.01 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 19 | 2.01 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 19 | 2.01 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 19 | 2.01 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 19 | 2.01 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 19 | 2.01 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 19 | 2.01 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 19 | 2.01 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 19 | 2.01 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 19 | 2.01 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 6 | 2.01 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 19 | 2.01 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 19 | 2.01 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 19 | 2.01 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 2 | 2.01 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 2 | 2.01 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 2 | 2.01 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 3 | 2.01 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 3 | 2.01 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 3 | 2.01 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 3 | 2.01 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 3 | 2.01 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 3 | 2.01 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 13 | 2.01 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 13 | 2.01 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 13 | 2.01 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 12 | 2.01 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 8 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 11 | 2.01 |
| (1,4734) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 8 | 2.01 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 18 | 2.01 |
| (1,4687) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 18 | 2.01 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 18 | 2.01 |
| (1,4687) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 18 | 2.01 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 8 | 2.01 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 13 | 2.01 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 13 | 2.01 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 13 | 2.01 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 13 | 2.01 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 13 | 2.01 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 13 | 2.01 |
| (1,4593) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 18 | 2.01 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 10 | 2.01 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 10 | 2.01 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 10 | 2.01 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 10 | 2.01 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 10 | 2.01 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 10 | 2.01 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 2.01 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 13 | 2.01 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 13 | 2.01 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 13 | 2.01 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 13 | 2.01 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 13 | 2.01 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 13 | 2.01 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 19 | 2.01 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 19 | 2.01 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 19 | 2.01 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 19 | 2.01 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 19 | 2.01 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 19 | 2.01 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 15 | 2.01 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 15 | 2.01 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 15 | 2.01 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 15 | 2.01 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 15 | 2.01 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 15 | 2.01 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 2 | 2.01 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 16 | 2.01 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 16 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 16 | 2.01 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 16 | 2.01 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 16 | 2.01 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 16 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 2 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 2 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 2 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 2 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 5 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 5 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 5 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 5 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 12 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 12 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 12 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 12 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 18 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 18 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 18 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 18 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 19 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 19 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 19 | 2.01 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 19 | 2.01 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 20 | 2.01 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 20 | 2.01 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 20 | 2.01 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 20 | 2.01 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 19 | 2.01 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 19 | 2.01 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 10 | 2.01 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 10 | 2.01 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 7 | 2.01 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 7 | 2.01 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 7 | 2.01 |
| (1,4059) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 14 | 2.01 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 17 | 2.01 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 17 | 2.01 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 17 | 2.01 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 17 | 2.01 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 17 | 2.01 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 17 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 16 | 2.01 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 16 | 2.01 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 16 | 2.01 |
| (1,3966) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 10 | 2.01 |
| (1,3966) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 10 | 2.01 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 14 | 2.01 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 14 | 2.01 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 14 | 2.01 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 19 | 2.01 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 19 | 2.01 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 8 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 3 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 3 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 3 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 3 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 6 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 6 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 6 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 6 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 9 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 9 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 9 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 9 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 11 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 11 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 11 | 2.01 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 11 | 2.01 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 10 | 2.01 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 10 | 2.01 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 10 | 2.01 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 10 | 2.01 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 10 | 2.01 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 10 | 2.01 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 3 | 2.01 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 3 | 2.01 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 8 | 2.01 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 8 | 2.01 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 8 | 2.01 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 8 | 2.01 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 8 | 2.01 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 8 | 2.01 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 5 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 5 | 2.01 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 11 | 2.01 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 11 | 2.01 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 11 | 2.01 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 11 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 2 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 2 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 2 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 2 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 9 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 9 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 9 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 9 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 13 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 13 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 13 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 13 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 18 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 18 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 18 | 2.01 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 18 | 2.01 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 19 | 2.01 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 19 | 2.01 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 19 | 2.01 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 19 | 2.01 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 18 | 2.01 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 18 | 2.01 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 18 | 2.01 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 18 | 2.01 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 10 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 2 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 2 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 2 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 2 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 6 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 6 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 6 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 6 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 14 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 14 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 14 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 14 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 18 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 18 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 18 | 2.01 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 18 | 2.01 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 14 | 2.01 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 14 | 2.01 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 14 | 2.01 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 18 | 2.01 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 18 | 2.01 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 18 | 2.01 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 18 | 2.01 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 18 | 2.01 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 18 | 2.01 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 18 | 2.01 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 18 | 2.01 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 18 | 2.01 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 7 | 2.01 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 4 | 2.01 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 4 | 2.01 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 4 | 2.01 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 16 | 2.01 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 13 | 2.01 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 15 | 2.01 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 12 | 2.01 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 8 | 2.01 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 1 | 2.01 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 4 | 2.01 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 13 | 2.01 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 13 | 2.01 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 13 | 2.01 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 7 | 2.01 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 7 | 2.01 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 7 | 2.01 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 11 | 2.01 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 11 | 2.01 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 11 | 2.01 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 7 | 2.01 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 13 | 2.01 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 5 | 2.01 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 5 | 2.01 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 5 | 2.01 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 3 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 3 | 2.01 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 3 | 2.01 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 2.01 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 2.01 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 2.01 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 5 | 2.01 |
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 5 | 2.01 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 5 | 2.01 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 3 | 2.01 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 3 | 2.01 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 3 | 2.01 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 6 | 2.01 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 6 | 2.01 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 15 | 2.01 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 15 | 2.01 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 15 | 2.01 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 15 | 2.01 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 15 | 2.01 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 15 | 2.01 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 15 | 2.01 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 15 | 2.01 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 15 | 2.01 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 1 | 2.01 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 19 | 2.01 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 11 | 2.01 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 17 | 2.01 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 12 | 2.01 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 18 | 2.01 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 17 | 2.01 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 17 | 2.01 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 17 | 2.01 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 17 | 2.01 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 17 | 2.01 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 17 | 2.01 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 11 | 2.01 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 11 | 2.01 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 3 | 2.01 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 4 | 2.01 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 4 | 2.01 |
| (1,1574) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 4 | 2.01 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 16 | 2.01 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 15 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 15 | 2.01 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 6 | 2.01 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 18 | 2.01 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 18 | 2.01 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 18 | 2.01 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 1 | 2.01 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 17 | 2.01 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 9 | 2.01 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 5 | 2.01 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 5 | 2.01 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 5 | 2.01 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 5 | 2.01 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 5 | 2.01 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 5 | 2.01 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 6 | 2.01 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 6 | 2.01 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 6 | 2.01 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 11 | 2.01 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 11 | 2.01 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 11 | 2.01 |
| (1,1270) | 1:122:A:LEU:H | 1:123:A:GLY:H | 13 | 2.01 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 6 | 2.01 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 6 | 2.01 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 6 | 2.01 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 13 | 2.01 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 13 | 2.01 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 13 | 2.01 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 12 | 2.01 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 12 | 2.01 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 12 | 2.01 |
| (1,820) | 1:101:A:GLU:H | 1:102:A:ASP:H | 8 | 2.01 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 16 | 2.01 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 17 | 2.01 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 18 | 2.01 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 19 | 2.01 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 19 | 2.01 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 19 | 2.01 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 19 | 2.01 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 19 | 2.01 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 19 | 2.01 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 19 | 2.01 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 19 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 19 | 2.01 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 6 | 2.01 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 19 | 2.01 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 19 | 2.01 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 19 | 2.01 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 8 | 2.01 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 8 | 2.01 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 8 | 2.01 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 8 | 2.01 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 8 | 2.01 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 8 | 2.01 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 8 | 2.01 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 8 | 2.01 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 8 | 2.01 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 11 | 2.01 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 7 | 2.01 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 19 | 2.01 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 20 | 2.01 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 5 | 2.01 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 5 | 2.01 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 5 | 2.01 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 17 | 2.01 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 10 | 2.01 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 10 | 2.01 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 10 | 2.01 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 10 | 2.01 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 10 | 2.01 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 10 | 2.01 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 12 | 2.01 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 12 | 2.01 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 12 | 2.01 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 12 | 2.01 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 12 | 2.01 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 12 | 2.01 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 5 | 2.01 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 5 | 2.01 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 5 | 2.01 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 15 | 2.01 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 2 | 2.01 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 2 | 2.01 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 2 | 2.01 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 11 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 11 | 2.01 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 11 | 2.01 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 12 | 2.01 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 19 | 2.01 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 19 | 2.01 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 19 | 2.01 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 8 | 2.01 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 12 | 2.0 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 4 | 2.0 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 4 | 2.0 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 11 | 2.0 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 11 | 2.0 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 6 | 2.0 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 6 | 2.0 |
| (4,55) | 1:15:A:MET:CB | 1:111:A:SER:H | 19 | 2.0 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 18 | 2.0 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 14 | 2.0 |
| (3,545) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 9 | 2.0 |
| (3,545) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 9 | 2.0 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 7 | 2.0 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 7 | 2.0 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 7 | 2.0 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 2 | 2.0 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 2 | 2.0 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE2 | 9 | 2.0 |
| (1,9369) | 1:117:A:LYS:HB2 | 1:117:A:LYS:HE3 | 9 | 2.0 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE2 | 9 | 2.0 |
| (1,9369) | 1:117:A:LYS:HB3 | 1:117:A:LYS:HE3 | 9 | 2.0 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 11 | 2.0 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 11 | 2.0 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 11 | 2.0 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 11 | 2.0 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 9 | 2.0 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 9 | 2.0 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 9 | 2.0 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 9 | 2.0 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 12 | 2.0 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 12 | 2.0 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 18 | 2.0 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 18 | 2.0 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 18 | 2.0 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 18 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 18 | 2.0 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 18 | 2.0 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG21 | 12 | 2.0 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG22 | 12 | 2.0 |
| (1,8989) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG23 | 12 | 2.0 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG21 | 12 | 2.0 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG22 | 12 | 2.0 |
| (1,8989) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG23 | 12 | 2.0 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 3 | 2.0 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 3 | 2.0 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 11 | 2.0 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 11 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 2 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 2 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 2 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 2 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 2 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 2 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 7 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 7 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 7 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 7 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 7 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 7 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 18 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 18 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 18 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 18 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 18 | 2.0 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 18 | 2.0 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 2.0 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 2.0 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 2.0 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 2.0 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 2.0 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 2.0 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 13 | 2.0 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 13 | 2.0 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 11 | 2.0 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 11 | 2.0 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 11 | 2.0 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 11 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD2 | 5 | 2.0 |
| (1,8560) | 1:6:A:LYS:HA | 1:6:A:LYS:HD3 | 5 | 2.0 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 20 | 2.0 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 17 | 2.0 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 17 | 2.0 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 17 | 2.0 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 17 | 2.0 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 17 | 2.0 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 17 | 2.0 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 17 | 2.0 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 17 | 2.0 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 17 | 2.0 |
| (1,7773) | 1:57:A:CYS:HA | 1:161:A:ARG:HA | 13 | 2.0 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 14 | 2.0 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 14 | 2.0 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 14 | 2.0 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 14 | 2.0 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 14 | 2.0 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 14 | 2.0 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 10 | 2.0 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 15 | 2.0 |
| (1,7639) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 7 | 2.0 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 7 | 2.0 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 7 | 2.0 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 7 | 2.0 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 8 | 2.0 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 1 | 2.0 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 1 | 2.0 |
| (1,6894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 1 | 2.0 |
| (1,6841) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 14 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 9 | 2.0 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 9 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6780) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 11 | 2.0 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 16 | 2.0 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 16 | 2.0 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 16 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 3 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 3 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 3 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 3 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 3 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 3 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 3 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 3 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 3 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 14 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 14 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 14 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 14 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 14 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 14 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 14 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 14 | 2.0 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 14 | 2.0 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 11 | 2.0 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 8 | 2.0 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 9 | 2.0 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 20 | 2.0 |
| (1,5880) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 2 | 2.0 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 17 | 2.0 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 17 | 2.0 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 17 | 2.0 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 2 | 2.0 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 2 | 2.0 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 2 | 2.0 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 2 | 2.0 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 2.0 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 2.0 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 2.0 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 6 | 2.0 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 6 | 2.0 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 6 | 2.0 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 9 | 2.0 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 9 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 9 | 2.0 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 6 | 2.0 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 20 | 2.0 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 20 | 2.0 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 5 | 2.0 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 5 | 2.0 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 5 | 2.0 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 5 | 2.0 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 5 | 2.0 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 5 | 2.0 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 5 | 2.0 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 5 | 2.0 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 5 | 2.0 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 16 | 2.0 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 16 | 2.0 |
| (1,4836) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 16 | 2.0 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 16 | 2.0 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 16 | 2.0 |
| (1,4836) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 16 | 2.0 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 16 | 2.0 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 16 | 2.0 |
| (1,4836) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 16 | 2.0 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 1 | 2.0 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 1 | 2.0 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 2 | 2.0 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 2 | 2.0 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 16 | 2.0 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 16 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 1 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 1 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 1 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 1 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 8 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 8 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 8 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 8 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 10 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 10 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 10 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 10 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 20 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 20 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 20 | 2.0 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 20 | 2.0 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 7 | 2.0 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 7 | 2.0 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 7 | 2.0 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 16 | 2.0 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 16 | 2.0 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 16 | 2.0 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 16 | 2.0 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 16 | 2.0 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 16 | 2.0 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 19 | 2.0 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 19 | 2.0 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 19 | 2.0 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 19 | 2.0 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 14 | 2.0 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 10 | 2.0 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 10 | 2.0 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 10 | 2.0 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 16 | 2.0 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 16 | 2.0 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 16 | 2.0 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 16 | 2.0 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 16 | 2.0 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 16 | 2.0 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 6 | 2.0 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 6 | 2.0 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 17 | 2.0 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 17 | 2.0 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 17 | 2.0 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 17 | 2.0 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 17 | 2.0 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 17 | 2.0 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 1 | 2.0 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 1 | 2.0 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 1 | 2.0 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 1 | 2.0 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 1 | 2.0 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 1 | 2.0 |
| (1,3901) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 14 | 2.0 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 14 | 2.0 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 7 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 17 | 2.0 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 3 | 2.0 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 3 | 2.0 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 11 | 2.0 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 11 | 2.0 |
| (1,3845) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 8 | 2.0 |
| (1,3845) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 8 | 2.0 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 18 | 2.0 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 18 | 2.0 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 18 | 2.0 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 18 | 2.0 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 18 | 2.0 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 18 | 2.0 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 2.0 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 2.0 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 2.0 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 2.0 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 2.0 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 2.0 |
| (1,3777) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 13 | 2.0 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 3 | 2.0 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 3 | 2.0 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 7 | 2.0 |
| (1,3719) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 3 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 3 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 3 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 3 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 3 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 3 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 8 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 8 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 8 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 8 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 8 | 2.0 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 8 | 2.0 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD2 | 3 | 2.0 |
| (1,3550) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HD3 | 3 | 2.0 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD2 | 3 | 2.0 |
| (1,3550) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HD3 | 3 | 2.0 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 18 | 2.0 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 8 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 8 | 2.0 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 8 | 2.0 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 12 | 2.0 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 12 | 2.0 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 12 | 2.0 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 16 | 2.0 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 9 | 2.0 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 1 | 2.0 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 16 | 2.0 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 17 | 2.0 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 19 | 2.0 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 3 | 2.0 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 3 | 2.0 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 1 | 2.0 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 1 | 2.0 |
| (1,2894) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 1 | 2.0 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 18 | 2.0 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 18 | 2.0 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 1 | 2.0 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 19 | 2.0 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 15 | 2.0 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 11 | 2.0 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 3 | 2.0 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 6 | 2.0 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 8 | 2.0 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 7 | 2.0 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 13 | 2.0 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 11 | 2.0 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 9 | 2.0 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 9 | 2.0 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 9 | 2.0 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 16 | 2.0 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 16 | 2.0 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 16 | 2.0 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 11 | 2.0 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 11 | 2.0 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 11 | 2.0 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 16 | 2.0 |
| (1,2200) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 2.0 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 11 | 2.0 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 20 | 2.0 |
| (1,2106) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 12 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2106) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 12 | 2.0 |
| (1,2106) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 12 | 2.0 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 19 | 2.0 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 19 | 2.0 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 19 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 3 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 3 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 3 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 3 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 3 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 3 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 3 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 3 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 3 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 14 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 14 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 14 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 14 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 14 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 14 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 14 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 14 | 2.0 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 14 | 2.0 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 13 | 2.0 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 13 | 2.0 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 17 | 2.0 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 7 | 2.0 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 12 | 2.0 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 12 | 2.0 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 12 | 2.0 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 17 | 2.0 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 17 | 2.0 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 18 | 2.0 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 20 | 2.0 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 18 | 2.0 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 18 | 2.0 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 18 | 2.0 |
| (1,1294) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 2 | 2.0 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 10 | 2.0 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 11 | 2.0 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 11 | 2.0 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 4 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 14 | 2.0 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 18 | 2.0 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 20 | 2.0 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 20 | 2.0 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 20 | 2.0 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 17 | 2.0 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 17 | 2.0 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 17 | 2.0 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 2 | 2.0 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 2 | 2.0 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 2 | 2.0 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 2 | 2.0 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 13 | 2.0 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 13 | 2.0 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 9 | 2.0 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 9 | 2.0 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 9 | 2.0 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 2 | 2.0 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 2 | 2.0 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 2 | 2.0 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 9 | 2.0 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 9 | 2.0 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 9 | 2.0 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 9 | 2.0 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 9 | 2.0 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 9 | 2.0 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 18 | 2.0 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 18 | 2.0 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 18 | 2.0 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 15 | 2.0 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 14 | 2.0 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 11 | 2.0 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 11 | 2.0 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 11 | 2.0 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 8 | 2.0 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 1 | 2.0 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 11 | 2.0 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 16 | 2.0 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 16 | 2.0 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 16 | 2.0 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 11 | 2.0 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 11 | 2.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 11 | 2.0 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 7 | 2.0 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 7 | 2.0 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 7 | 2.0 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 5 | 2.0 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 1 | 2.0 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 9 | 2.0 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 8 | 2.0 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 15 | 2.0 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 19 | 2.0 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 11 | 2.0 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 11 | 2.0 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 11 | 2.0 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 2 | 2.0 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 2 | 2.0 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 2 | 2.0 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 11 | 2.0 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 11 | 2.0 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 11 | 2.0 |
| (4,3) | 1:15:A:MET:CB | 1:47:A:ASN:H | 20 | 1.99 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 19 | 1.99 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 19 | 1.99 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 3 | 1.99 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 1 | 1.99 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 1 | 1.99 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 18 | 1.99 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 18 | 1.99 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 18 | 1.99 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 18 | 1.99 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 18 | 1.99 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 18 | 1.99 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 1 | 1.99 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 1 | 1.99 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 15 | 1.99 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 15 | 1.99 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 8 | 1.99 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 8 | 1.99 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 12 | 1.99 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 12 | 1.99 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 7 | 1.99 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 7 | 1.99 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 7 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 7 | 1.99 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE21 | 20 | 1.99 |
| (1,9453) | 1:131:A:GLN:H | 1:131:A:GLN:HE22 | 20 | 1.99 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 14 | 1.99 |
| (1,9204) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE3 | 14 | 1.99 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 14 | 1.99 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 14 | 1.99 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 14 | 1.99 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 14 | 1.99 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 14 | 1.99 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 14 | 1.99 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 12 | 1.99 |
| (1,9127) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 12 | 1.99 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 12 | 1.99 |
| (1,9127) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 12 | 1.99 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 12 | 1.99 |
| (1,9127) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 12 | 1.99 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 13 | 1.99 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 13 | 1.99 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 14 | 1.99 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 14 | 1.99 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 14 | 1.99 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 14 | 1.99 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 15 | 1.99 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 15 | 1.99 |
| (1,8881) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 15 | 1.99 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 15 | 1.99 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 15 | 1.99 |
| (1,8881) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 15 | 1.99 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD21 | 19 | 1.99 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD22 | 19 | 1.99 |
| (1,8858) | 1:61:A:LEU:HB2 | 1:61:A:LEU:HD23 | 19 | 1.99 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD21 | 19 | 1.99 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD22 | 19 | 1.99 |
| (1,8858) | 1:61:A:LEU:HB3 | 1:61:A:LEU:HD23 | 19 | 1.99 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 15 | 1.99 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 15 | 1.99 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 13 | 1.99 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 13 | 1.99 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 13 | 1.99 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 13 | 1.99 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 13 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 13 | 1.99 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 15 | 1.99 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 15 | 1.99 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 5 | 1.99 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 5 | 1.99 |
| (1,8743) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 19 | 1.99 |
| (1,8743) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 19 | 1.99 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 2 | 1.99 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 2 | 1.99 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 2 | 1.99 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 2 | 1.99 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 2 | 1.99 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 2 | 1.99 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 20 | 1.99 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 20 | 1.99 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 3 | 1.99 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 3 | 1.99 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 13 | 1.99 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 13 | 1.99 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 13 | 1.99 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 13 | 1.99 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 4 | 1.99 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 4 | 1.99 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 4 | 1.99 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 4 | 1.99 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 8 | 1.99 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 8 | 1.99 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 8 | 1.99 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 11 | 1.99 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 14 | 1.99 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 14 | 1.99 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 1 | 1.99 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 20 | 1.99 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 16 | 1.99 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 16 | 1.99 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 16 | 1.99 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 16 | 1.99 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 16 | 1.99 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 16 | 1.99 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 16 | 1.99 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 16 | 1.99 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 16 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 20 | 1.99 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 20 | 1.99 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 20 | 1.99 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 6 | 1.99 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 6 | 1.99 |
| (1,7963) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 6 | 1.99 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 5 | 1.99 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 5 | 1.99 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 5 | 1.99 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD11 | 2 | 1.99 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD12 | 2 | 1.99 |
| (1,7814) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HD13 | 2 | 1.99 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD11 | 2 | 1.99 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD12 | 2 | 1.99 |
| (1,7814) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HD13 | 2 | 1.99 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD11 | 2 | 1.99 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD12 | 2 | 1.99 |
| (1,7814) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HD13 | 2 | 1.99 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 5 | 1.99 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 5 | 1.99 |
| (1,7738) | 1:54:A:ARG:HB2 | 1:126:A:SER:HA | 19 | 1.99 |
| (1,7738) | 1:54:A:ARG:HB3 | 1:126:A:SER:HA | 19 | 1.99 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 9 | 1.99 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 9 | 1.99 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 13 | 1.99 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 13 | 1.99 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 13 | 1.99 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 13 | 1.99 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 13 | 1.99 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 13 | 1.99 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 1 | 1.99 |
| (1,7639) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 9 | 1.99 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 14 | 1.99 |
| (1,7597) | 1:25:A:PHE:HE1 | 1:30:A:ASN:HA | 9 | 1.99 |
| (1,7597) | 1:25:A:PHE:HE2 | 1:30:A:ASN:HA | 9 | 1.99 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 1 | 1.99 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 1 | 1.99 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 1 | 1.99 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 4 | 1.99 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 10 | 1.99 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 10 | 1.99 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 10 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 19 | 1.99 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 19 | 1.99 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 11 | 1.99 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 11 | 1.99 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 10 | 1.99 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 1 | 1.99 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 6 | 1.99 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 10 | 1.99 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 4 | 1.99 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 4 | 1.99 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 4 | 1.99 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 4 | 1.99 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 4 | 1.99 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 4 | 1.99 |
| (1,6591) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 11 | 1.99 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 14 | 1.99 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 2 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 5 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 5 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 5 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 5 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 5 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 5 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 5 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 5 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 5 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 8 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 8 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 8 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 8 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 8 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 8 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 8 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 8 | 1.99 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 8 | 1.99 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 13 | 1.99 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 13 | 1.99 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 13 | 1.99 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 7 | 1.99 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 11 | 1.99 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 8 | 1.99 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 8 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 19 | 1.99 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 6 | 1.99 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 6 | 1.99 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 6 | 1.99 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 7 | 1.99 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 7 | 1.99 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 7 | 1.99 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 1 | 1.99 |
| (1,5600) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 1 | 1.99 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 1 | 1.99 |
| (1,5600) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 1 | 1.99 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 11 | 1.99 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 11 | 1.99 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 11 | 1.99 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 11 | 1.99 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 11 | 1.99 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 11 | 1.99 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 11 | 1.99 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 11 | 1.99 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 11 | 1.99 |
| (1,5508) | 1:96:A:ILE:H | 1:97:A:LYS:H | 3 | 1.99 |
| (1,5458) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 9 | 1.99 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 9 | 1.99 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 9 | 1.99 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 9 | 1.99 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 9 | 1.99 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 9 | 1.99 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 9 | 1.99 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 9 | 1.99 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 9 | 1.99 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 9 | 1.99 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 1 | 1.99 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 1 | 1.99 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 1 | 1.99 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 1 | 1.99 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 1 | 1.99 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 1 | 1.99 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 1 | 1.99 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 1 | 1.99 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 1 | 1.99 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 14 | 1.99 |
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 14 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5130) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 14 | 1.99 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 15 | 1.99 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 15 | 1.99 |
| (1,4898) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 15 | 1.99 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 15 | 1.99 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 15 | 1.99 |
| (1,4898) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 15 | 1.99 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 20 | 1.99 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 20 | 1.99 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 20 | 1.99 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 20 | 1.99 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 20 | 1.99 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 20 | 1.99 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 20 | 1.99 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 20 | 1.99 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 20 | 1.99 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 16 | 1.99 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 16 | 1.99 |
| (1,4826) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 16 | 1.99 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 16 | 1.99 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 16 | 1.99 |
| (1,4826) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 16 | 1.99 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 16 | 1.99 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 16 | 1.99 |
| (1,4826) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 16 | 1.99 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 6 | 1.99 |
| (1,4667) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 18 | 1.99 |
| (1,4667) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 18 | 1.99 |
| (1,4667) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 18 | 1.99 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 9 | 1.99 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 9 | 1.99 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 9 | 1.99 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 9 | 1.99 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 9 | 1.99 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 9 | 1.99 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 5 | 1.99 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 19 | 1.99 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 9 | 1.99 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 9 | 1.99 |
| (1,4510) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 9 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 3 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 3 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 3 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 3 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 6 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 6 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 6 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 6 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 13 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 13 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 13 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 13 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 15 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 15 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 15 | 1.99 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 15 | 1.99 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 9 | 1.99 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 18 | 1.99 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 11 | 1.99 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 11 | 1.99 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 11 | 1.99 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 11 | 1.99 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 20 | 1.99 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 20 | 1.99 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 20 | 1.99 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 20 | 1.99 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 20 | 1.99 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 20 | 1.99 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 3 | 1.99 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 19 | 1.99 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 8 | 1.99 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 8 | 1.99 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 18 | 1.99 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 18 | 1.99 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 12 | 1.99 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 12 | 1.99 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 12 | 1.99 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 12 | 1.99 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 12 | 1.99 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 12 | 1.99 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 14 | 1.99 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 14 | 1.99 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 14 | 1.99 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 14 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 14 | 1.99 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 14 | 1.99 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 12 | 1.99 |
| (1,4092) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 12 | 1.99 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 12 | 1.99 |
| (1,4092) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 12 | 1.99 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 12 | 1.99 |
| (1,4092) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 12 | 1.99 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 1 | 1.99 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 1 | 1.99 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 1 | 1.99 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 17 | 1.99 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 17 | 1.99 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 17 | 1.99 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 6 | 1.99 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 6 | 1.99 |
| (1,3990) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 6 | 1.99 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 19 | 1.99 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 19 | 1.99 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 8 | 1.99 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 8 | 1.99 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 17 | 1.99 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 20 | 1.99 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 19 | 1.99 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 8 | 1.99 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 8 | 1.99 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 15 | 1.99 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 15 | 1.99 |
| (1,3838) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 15 | 1.99 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 15 | 1.99 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 15 | 1.99 |
| (1,3838) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 15 | 1.99 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 15 | 1.99 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 15 | 1.99 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 5 | 1.99 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 5 | 1.99 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 5 | 1.99 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 5 | 1.99 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG2 | 16 | 1.99 |
| (1,3684) | 1:49:A:GLN:HB2 | 1:49:A:GLN:HG3 | 16 | 1.99 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG2 | 16 | 1.99 |
| (1,3684) | 1:49:A:GLN:HB3 | 1:49:A:GLN:HG3 | 16 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3664) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 16 | 1.99 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 9 | 1.99 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 9 | 1.99 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 1 | 1.99 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 5 | 1.99 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 5 | 1.99 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 5 | 1.99 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 5 | 1.99 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 5 | 1.99 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 5 | 1.99 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 5 | 1.99 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 5 | 1.99 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 5 | 1.99 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 18 | 1.99 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 18 | 1.99 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 18 | 1.99 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 18 | 1.99 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 18 | 1.99 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 18 | 1.99 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 18 | 1.99 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 18 | 1.99 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 18 | 1.99 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 9 | 1.99 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 9 | 1.99 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 9 | 1.99 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 11 | 1.99 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 12 | 1.99 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 12 | 1.99 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 13 | 1.99 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 13 | 1.99 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 20 | 1.99 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 20 | 1.99 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 17 | 1.99 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 17 | 1.99 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 17 | 1.99 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 3 | 1.99 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 3 | 1.99 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 3 | 1.99 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 3 | 1.99 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 3 | 1.99 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 3 | 1.99 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 6 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 10 | 1.99 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 9 | 1.99 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 9 | 1.99 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 9 | 1.99 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 7 | 1.99 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 1 | 1.99 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 1 | 1.99 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 8 | 1.99 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 3 | 1.99 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 3 | 1.99 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 3 | 1.99 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 6 | 1.99 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 6 | 1.99 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 6 | 1.99 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 10 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 2 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 2 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 2 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 2 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 2 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 2 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 6 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 6 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 6 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 6 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 6 | 1.99 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 6 | 1.99 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 19 | 1.99 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 19 | 1.99 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 8 | 1.99 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 8 | 1.99 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 8 | 1.99 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 8 | 1.99 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 8 | 1.99 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 8 | 1.99 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 16 | 1.99 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 16 | 1.99 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 16 | 1.99 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 6 | 1.99 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 6 | 1.99 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 6 | 1.99 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 11 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2448) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 11 | 1.99 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 14 | 1.99 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 2 | 1.99 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 3 | 1.99 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 19 | 1.99 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 19 | 1.99 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 19 | 1.99 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 19 | 1.99 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 19 | 1.99 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 19 | 1.99 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 19 | 1.99 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 19 | 1.99 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 19 | 1.99 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 15 | 1.99 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 10 | 1.99 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 11 | 1.99 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 11 | 1.99 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 11 | 1.99 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 5 | 1.99 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 11 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 5 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 5 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 5 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 5 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 5 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 5 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 5 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 5 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 5 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 8 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 8 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 8 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 8 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 8 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 8 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 8 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 8 | 1.99 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 8 | 1.99 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 14 | 1.99 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 14 | 1.99 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 14 | 1.99 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 10 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 7 | 1.99 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 2 | 1.99 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 14 | 1.99 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 20 | 1.99 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 20 | 1.99 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 20 | 1.99 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 16 | 1.99 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 16 | 1.99 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 16 | 1.99 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 6 | 1.99 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 6 | 1.99 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 6 | 1.99 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 10 | 1.99 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 19 | 1.99 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 4 | 1.99 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 4 | 1.99 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 4 | 1.99 |
| (1,1258) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 10 | 1.99 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 7 | 1.99 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 11 | 1.99 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 8 | 1.99 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 8 | 1.99 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 14 | 1.99 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 6 | 1.99 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 6 | 1.99 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 6 | 1.99 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 7 | 1.99 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 7 | 1.99 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 7 | 1.99 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 16 | 1.99 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 16 | 1.99 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG2 | 1 | 1.99 |
| (1,786) | 1:100:A:GLU:HB2 | 1:100:A:GLU:HG3 | 1 | 1.99 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG2 | 1 | 1.99 |
| (1,786) | 1:100:A:GLU:HB3 | 1:100:A:GLU:HG3 | 1 | 1.99 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 4 | 1.99 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 4 | 1.99 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 5 | 1.99 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 5 | 1.99 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 9 | 1.99 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 9 | 1.99 |
| (1,728) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 9 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 11 | 1.99 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 11 | 1.99 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 11 | 1.99 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 11 | 1.99 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 11 | 1.99 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 11 | 1.99 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 11 | 1.99 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 11 | 1.99 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 11 | 1.99 |
| (1,658) | 1:96:A:ILE:H | 1:97:A:LYS:H | 3 | 1.99 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 3 | 1.99 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 3 | 1.99 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 3 | 1.99 |
| (1,556) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 9 | 1.99 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 4 | 1.99 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 4 | 1.99 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 4 | 1.99 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 9 | 1.99 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 9 | 1.99 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 9 | 1.99 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 4 | 1.99 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 18 | 1.99 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 6 | 1.99 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 12 | 1.99 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 10 | 1.99 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 10 | 1.99 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 10 | 1.99 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 12 | 1.99 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 12 | 1.99 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 12 | 1.99 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 3 | 1.99 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 1.99 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 15 | 1.99 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 19 | 1.99 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 19 | 1.99 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 9 | 1.99 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 9 | 1.99 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 9 | 1.99 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 1 | 1.99 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 10 | 1.99 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 10 | 1.99 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 10 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 8 | 1.99 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 8 | 1.99 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 8 | 1.99 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 6 | 1.99 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 10 | 1.99 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 1 | 1.99 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 1 | 1.99 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 1 | 1.99 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 3 | 1.99 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 3 | 1.99 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 3 | 1.99 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 15 | 1.98 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 3 | 1.98 |
| (4,51) | 1:15:A:MET:CB | 1:108:A:SER:H | 3 | 1.98 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 1.98 |
| (1,9560) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 1.98 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 6 | 1.98 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 6 | 1.98 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 11 | 1.98 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 11 | 1.98 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 11 | 1.98 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 11 | 1.98 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 6 | 1.98 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 6 | 1.98 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD2 | 11 | 1.98 |
| (1,9382) | 1:119:A:ARG:HA | 1:119:A:ARG:HD3 | 11 | 1.98 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 7 | 1.98 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 7 | 1.98 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 7 | 1.98 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 7 | 1.98 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 18 | 1.98 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 18 | 1.98 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 18 | 1.98 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 18 | 1.98 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD2 | 7 | 1.98 |
| (1,9198) | 1:95:A:LYS:H | 1:95:A:LYS:HD3 | 7 | 1.98 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD2 | 10 | 1.98 |
| (1,9152) | 1:92:A:TYR:HA | 1:95:A:LYS:HD3 | 10 | 1.98 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 5 | 1.98 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 5 | 1.98 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 20 | 1.98 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 20 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9030) | 1:80:A:ARG:HD2 | 1:81:A:THR:H | 6 | 1.98 |
| (1,9030) | 1:80:A:ARG:HD3 | 1:81:A:THR:H | 6 | 1.98 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 16 | 1.98 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 16 | 1.98 |
| (1,8886) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 17 | 1.98 |
| (1,8886) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 17 | 1.98 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 17 | 1.98 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 17 | 1.98 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 20 | 1.98 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 20 | 1.98 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 20 | 1.98 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 20 | 1.98 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 1 | 1.98 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 1 | 1.98 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 18 | 1.98 |
| (1,8696) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 18 | 1.98 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 18 | 1.98 |
| (1,8696) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 18 | 1.98 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 11 | 1.98 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 11 | 1.98 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 1 | 1.98 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 1 | 1.98 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 13 | 1.98 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 13 | 1.98 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE2 | 1 | 1.98 |
| (1,8161) | 1:97:A:LYS:HA | 1:97:A:LYS:HE3 | 1 | 1.98 |
| (1,8124) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 14 | 1.98 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 1 | 1.98 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 1 | 1.98 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 1 | 1.98 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 1 | 1.98 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 4 | 1.98 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 4 | 1.98 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 4 | 1.98 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 11 | 1.98 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 6 | 1.98 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 15 | 1.98 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 15 | 1.98 |
| (1,7360) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 15 | 1.98 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 2 | 1.98 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 10 | 1.98 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 10 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 10 | 1.98 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 3 | 1.98 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 3 | 1.98 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 15 | 1.98 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 19 | 1.98 |
| (1,6804) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 15 | 1.98 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 9 | 1.98 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 6 | 1.98 |
| (1,6530) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 1 | 1.98 |
| (1,6530) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 1 | 1.98 |
| (1,6530) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 1 | 1.98 |
| (1,6530) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 20 | 1.98 |
| (1,6530) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 20 | 1.98 |
| (1,6530) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 20 | 1.98 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 2 | 1.98 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 2 | 1.98 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 2 | 1.98 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 6 | 1.98 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 6 | 1.98 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 6 | 1.98 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 20 | 1.98 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 20 | 1.98 |
| (1,6439) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 20 | 1.98 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 16 | 1.98 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 16 | 1.98 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 16 | 1.98 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 17 | 1.98 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 17 | 1.98 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 17 | 1.98 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 17 | 1.98 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 17 | 1.98 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 17 | 1.98 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 17 | 1.98 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 17 | 1.98 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 17 | 1.98 |
| (1,6189) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 16 | 1.98 |
| (1,6189) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 16 | 1.98 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 1 | 1.98 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 1 | 1.98 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 1 | 1.98 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 6 | 1.98 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 6 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 6 | 1.98 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 6 | 1.98 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 6 | 1.98 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 6 | 1.98 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 8 | 1.98 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 19 | 1.98 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 19 | 1.98 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 20 | 1.98 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 20 | 1.98 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 20 | 1.98 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 20 | 1.98 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 20 | 1.98 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 20 | 1.98 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 2 | 1.98 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 4 | 1.98 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 4 | 1.98 |
| (1,5216) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 4 | 1.98 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 17 | 1.98 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 17 | 1.98 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 17 | 1.98 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 17 | 1.98 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 17 | 1.98 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 17 | 1.98 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 17 | 1.98 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 17 | 1.98 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 17 | 1.98 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 20 | 1.98 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 20 | 1.98 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 20 | 1.98 |
| (1,4788) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 20 | 1.98 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 4 | 1.98 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 20 | 1.98 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 20 | 1.98 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 14 | 1.98 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 19 | 1.98 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 1.98 |
| (1,4552) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 1.98 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 10 | 1.98 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 10 | 1.98 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 10 | 1.98 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 11 | 1.98 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 11 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 12 | 1.98 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 12 | 1.98 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 1 | 1.98 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 1 | 1.98 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 1 | 1.98 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 1 | 1.98 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 3 | 1.98 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 3 | 1.98 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 3 | 1.98 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 3 | 1.98 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 1.98 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 1.98 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 1.98 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 1.98 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 1.98 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 1.98 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 4 | 1.98 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 9 | 1.98 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 9 | 1.98 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 9 | 1.98 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 9 | 1.98 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 17 | 1.98 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 17 | 1.98 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 17 | 1.98 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 17 | 1.98 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 8 | 1.98 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 8 | 1.98 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 8 | 1.98 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 8 | 1.98 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 14 | 1.98 |
| (1,4278) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 14 | 1.98 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 14 | 1.98 |
| (1,4278) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 14 | 1.98 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 1 | 1.98 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 1 | 1.98 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 9 | 1.98 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 9 | 1.98 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 18 | 1.98 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 18 | 1.98 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 18 | 1.98 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 19 | 1.98 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 19 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 19 | 1.98 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 19 | 1.98 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 19 | 1.98 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 19 | 1.98 |
| (1,4197) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 11 | 1.98 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 1 | 1.98 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 3 | 1.98 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 3 | 1.98 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 3 | 1.98 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 3 | 1.98 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 3 | 1.98 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 3 | 1.98 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 15 | 1.98 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 17 | 1.98 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 17 | 1.98 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 18 | 1.98 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 18 | 1.98 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 18 | 1.98 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 18 | 1.98 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 18 | 1.98 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 18 | 1.98 |
| (1,3919) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 19 | 1.98 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 5 | 1.98 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 9 | 1.98 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 16 | 1.98 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 19 | 1.98 |
| (1,3846) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 17 | 1.98 |
| (1,3846) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 17 | 1.98 |
| (1,3845) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 16 | 1.98 |
| (1,3845) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 16 | 1.98 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 18 | 1.98 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 18 | 1.98 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 11 | 1.98 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 11 | 1.98 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 11 | 1.98 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 17 | 1.98 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 17 | 1.98 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 10 | 1.98 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 5 | 1.98 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 5 | 1.98 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 1 | 1.98 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 1 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 19 | 1.98 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG11 | 2 | 1.98 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG12 | 2 | 1.98 |
| (1,3593) | 1:21:A:ARG:HG2 | 1:22:A:VAL:HG13 | 2 | 1.98 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG11 | 2 | 1.98 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG12 | 2 | 1.98 |
| (1,3593) | 1:21:A:ARG:HG3 | 1:22:A:VAL:HG13 | 2 | 1.98 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 6 | 1.98 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 6 | 1.98 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 6 | 1.98 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 6 | 1.98 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 6 | 1.98 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 6 | 1.98 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 7 | 1.98 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 7 | 1.98 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 7 | 1.98 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 7 | 1.98 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 7 | 1.98 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 7 | 1.98 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 2 | 1.98 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 2 | 1.98 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 2 | 1.98 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 2 | 1.98 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 2 | 1.98 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 2 | 1.98 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 13 | 1.98 |
| (1,3552) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 13 | 1.98 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 13 | 1.98 |
| (1,3552) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 13 | 1.98 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 7 | 1.98 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 1 | 1.98 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 1 | 1.98 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 12 | 1.98 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 9 | 1.98 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 9 | 1.98 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 9 | 1.98 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 3 | 1.98 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 2 | 1.98 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 5 | 1.98 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 5 | 1.98 |
| (1,3370) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 5 | 1.98 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 11 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 11 | 1.98 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 4 | 1.98 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 20 | 1.98 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 3 | 1.98 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 8 | 1.98 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 8 | 1.98 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 8 | 1.98 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 8 | 1.98 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 8 | 1.98 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 8 | 1.98 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 3 | 1.98 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 15 | 1.98 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 17 | 1.98 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 8 | 1.98 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 13 | 1.98 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 19 | 1.98 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 10 | 1.98 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 10 | 1.98 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 10 | 1.98 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 15 | 1.98 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 15 | 1.98 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 15 | 1.98 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 6 | 1.98 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 6 | 1.98 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 6 | 1.98 |
| (1,2793) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 4 | 1.98 |
| (1,2793) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 4 | 1.98 |
| (1,2782) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 15 | 1.98 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 9 | 1.98 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 16 | 1.98 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 16 | 1.98 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 16 | 1.98 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 16 | 1.98 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 16 | 1.98 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 16 | 1.98 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 11 | 1.98 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 11 | 1.98 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 7 | 1.98 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 7 | 1.98 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 7 | 1.98 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 7 | 1.98 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 7 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 7 | 1.98 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 13 | 1.98 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 3 | 1.98 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 1 | 1.98 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 1 | 1.98 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 1 | 1.98 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 1 | 1.98 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 1 | 1.98 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 1 | 1.98 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 1 | 1.98 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 2 | 1.98 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 2 | 1.98 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 2 | 1.98 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 2 | 1.98 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 10 | 1.98 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 3 | 1.98 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 3 | 1.98 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 3 | 1.98 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 20 | 1.98 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 2 | 1.98 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 2 | 1.98 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 2 | 1.98 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 6 | 1.98 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 6 | 1.98 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 6 | 1.98 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 7 | 1.98 |
| (1,2190) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 17 | 1.98 |
| (1,2190) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 17 | 1.98 |
| (1,2190) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 17 | 1.98 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 20 | 1.98 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 20 | 1.98 |
| (1,2170) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 20 | 1.98 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 7 | 1.98 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 6 | 1.98 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 17 | 1.98 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 1.98 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 1.98 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 1.98 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 16 | 1.98 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 16 | 1.98 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 16 | 1.98 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 11 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 11 | 1.98 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 11 | 1.98 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 17 | 1.98 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 17 | 1.98 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 17 | 1.98 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 17 | 1.98 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 17 | 1.98 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 17 | 1.98 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 17 | 1.98 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 17 | 1.98 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 17 | 1.98 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 5 | 1.98 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 5 | 1.98 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 5 | 1.98 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 2 | 1.98 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 2 | 1.98 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 2 | 1.98 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 11 | 1.98 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 11 | 1.98 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 11 | 1.98 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 11 | 1.98 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 1 | 1.98 |
| (1,1800) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 16 | 1.98 |
| (1,1800) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 16 | 1.98 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 2 | 1.98 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 2 | 1.98 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 2 | 1.98 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 20 | 1.98 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 10 | 1.98 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 17 | 1.98 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 17 | 1.98 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 6 | 1.98 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 6 | 1.98 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 6 | 1.98 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 6 | 1.98 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 6 | 1.98 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 6 | 1.98 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 4 | 1.98 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 6 | 1.98 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 9 | 1.98 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 11 | 1.98 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 5 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 7 | 1.98 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 7 | 1.98 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 7 | 1.98 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 13 | 1.98 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 12 | 1.98 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 12 | 1.98 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 12 | 1.98 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 6 | 1.98 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 19 | 1.98 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 19 | 1.98 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 4 | 1.98 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 4 | 1.98 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 4 | 1.98 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 5 | 1.98 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 18 | 1.98 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 18 | 1.98 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 18 | 1.98 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 17 | 1.98 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 17 | 1.98 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 17 | 1.98 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 17 | 1.98 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 17 | 1.98 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 17 | 1.98 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 4 | 1.98 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 4 | 1.98 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 4 | 1.98 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 4 | 1.98 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 4 | 1.98 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 4 | 1.98 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 17 | 1.98 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 17 | 1.98 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 17 | 1.98 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 2 | 1.98 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 20 | 1.98 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 17 | 1.98 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 17 | 1.98 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 17 | 1.98 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 1 | 1.98 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 18 | 1.98 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 18 | 1.98 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 18 | 1.98 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 5 | 1.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 14 | 1.98 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 14 | 1.98 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 14 | 1.98 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 6 | 1.98 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 5 | 1.98 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 20 | 1.98 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 18 | 1.98 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 12 | 1.98 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 14 | 1.98 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 14 | 1.98 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 14 | 1.98 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 10 | 1.98 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 7 | 1.98 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 4 | 1.98 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 3 | 1.98 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 3 | 1.98 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 3 | 1.98 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 11 | 1.97 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 11 | 1.97 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 4 | 1.97 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 4 | 1.97 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 11 | 1.97 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 2 | 1.97 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 2 | 1.97 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 2 | 1.97 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 2 | 1.97 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 2 | 1.97 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 2 | 1.97 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD2 | 13 | 1.97 |
| (1,9579) | 1:148:A:GLY:H | 1:149:A:PRO:HD3 | 13 | 1.97 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 19 | 1.97 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 19 | 1.97 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 2 | 1.97 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 2 | 1.97 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 5 | 1.97 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 5 | 1.97 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 4 | 1.97 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 4 | 1.97 |
| (1,9488) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 4 | 1.97 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 4 | 1.97 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 4 | 1.97 |
| (1,9488) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 4 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 8 | 1.97 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 8 | 1.97 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 8 | 1.97 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 8 | 1.97 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD2 | 15 | 1.97 |
| (1,8972) | 1:74:A:ARG:HA | 1:74:A:ARG:HD3 | 15 | 1.97 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 9 | 1.97 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 9 | 1.97 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 9 | 1.97 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 9 | 1.97 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 9 | 1.97 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 9 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 1.97 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 1.97 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 14 | 1.97 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 14 | 1.97 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 15 | 1.97 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 15 | 1.97 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 7 | 1.97 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 7 | 1.97 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 7 | 1.97 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 7 | 1.97 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 16 | 1.97 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 16 | 1.97 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE2 | 2 | 1.97 |
| (1,8566) | 1:6:A:LYS:HB2 | 1:6:A:LYS:HE3 | 2 | 1.97 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE2 | 2 | 1.97 |
| (1,8566) | 1:6:A:LYS:HB3 | 1:6:A:LYS:HE3 | 2 | 1.97 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 19 | 1.97 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 19 | 1.97 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 19 | 1.97 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 1 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 1 | 1.97 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE1 | 11 | 1.97 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE2 | 11 | 1.97 |
| (1,8288) | 1:125:A:PHE:HE1 | 1:130:A:MET:HE3 | 11 | 1.97 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE1 | 11 | 1.97 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE2 | 11 | 1.97 |
| (1,8288) | 1:125:A:PHE:HE2 | 1:130:A:MET:HE3 | 11 | 1.97 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 18 | 1.97 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 4 | 1.97 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 4 | 1.97 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 4 | 1.97 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 1 | 1.97 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 12 | 1.97 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 12 | 1.97 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 12 | 1.97 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 12 | 1.97 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 12 | 1.97 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 12 | 1.97 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 12 | 1.97 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 12 | 1.97 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 12 | 1.97 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 18 | 1.97 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 16 | 1.97 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 16 | 1.97 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 16 | 1.97 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 12 | 1.97 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 12 | 1.97 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 8 | 1.97 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 8 | 1.97 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 8 | 1.97 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 8 | 1.97 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 8 | 1.97 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 8 | 1.97 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 8 | 1.97 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 8 | 1.97 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 8 | 1.97 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 8 | 1.97 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 3 | 1.97 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 8 | 1.97 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 5 | 1.97 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 11 | 1.97 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 18 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 15 | 1.97 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 7 | 1.97 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 7 | 1.97 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 7 | 1.97 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 7 | 1.97 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 7 | 1.97 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 7 | 1.97 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 7 | 1.97 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 7 | 1.97 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 7 | 1.97 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 6 | 1.97 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 6 | 1.97 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 6 | 1.97 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 6 | 1.97 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 6 | 1.97 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 6 | 1.97 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 6 | 1.97 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 6 | 1.97 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 6 | 1.97 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 15 | 1.97 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 15 | 1.97 |
| (1,6391) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 15 | 1.97 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 13 | 1.97 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 13 | 1.97 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 13 | 1.97 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 13 | 1.97 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 13 | 1.97 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 13 | 1.97 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 13 | 1.97 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 13 | 1.97 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 13 | 1.97 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 20 | 1.97 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 19 | 1.97 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 19 | 1.97 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 19 | 1.97 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 2 | 1.97 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 2 | 1.97 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 2 | 1.97 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 1 | 1.97 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 6 | 1.97 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 15 | 1.97 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 8 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 8 | 1.97 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 8 | 1.97 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 8 | 1.97 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 8 | 1.97 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 8 | 1.97 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 8 | 1.97 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 8 | 1.97 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 8 | 1.97 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 5 | 1.97 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 19 | 1.97 |
| (1,5205) | 1:85:A:ALA:H | 1:86:A:LEU:H | 6 | 1.97 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 1 | 1.97 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 14 | 1.97 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 7 | 1.97 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 11 | 1.97 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 18 | 1.97 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 18 | 1.97 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 19 | 1.97 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 19 | 1.97 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 2 | 1.97 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 2 | 1.97 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 10 | 1.97 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 4 | 1.97 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 4 | 1.97 |
| (1,4476) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 4 | 1.97 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 4 | 1.97 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 4 | 1.97 |
| (1,4476) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 4 | 1.97 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 5 | 1.97 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 1.97 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 5 | 1.97 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 5 | 1.97 |
| (1,4392) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 7 | 1.97 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 13 | 1.97 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 13 | 1.97 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 13 | 1.97 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 4 | 1.97 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 4 | 1.97 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 4 | 1.97 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 4 | 1.97 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 7 | 1.97 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 7 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 7 | 1.97 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 7 | 1.97 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 14 | 1.97 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 14 | 1.97 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 14 | 1.97 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 9 | 1.97 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 9 | 1.97 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 17 | 1.97 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 17 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 8 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 8 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 8 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 8 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 8 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 8 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 11 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 11 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 11 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 11 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 11 | 1.97 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 11 | 1.97 |
| (1,4125) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 2 | 1.97 |
| (1,4125) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 2 | 1.97 |
| (1,4125) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 2 | 1.97 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 14 | 1.97 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 14 | 1.97 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 14 | 1.97 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 14 | 1.97 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 14 | 1.97 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 12 | 1.97 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 12 | 1.97 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 6 | 1.97 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 6 | 1.97 |
| (1,3988) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 6 | 1.97 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 6 | 1.97 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 6 | 1.97 |
| (1,3988) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 6 | 1.97 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG2 | 19 | 1.97 |
| (1,3946) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HG3 | 19 | 1.97 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG2 | 19 | 1.97 |
| (1,3946) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HG3 | 19 | 1.97 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 7 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 7 | 1.97 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 7 | 1.97 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 7 | 1.97 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 8 | 1.97 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 8 | 1.97 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 8 | 1.97 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 8 | 1.97 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 19 | 1.97 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 20 | 1.97 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 20 | 1.97 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 20 | 1.97 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 20 | 1.97 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 2 | 1.97 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 12 | 1.97 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 3 | 1.97 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 13 | 1.97 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 9 | 1.97 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 3 | 1.97 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 3 | 1.97 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 3 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 1.97 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 1.97 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 12 | 1.97 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 12 | 1.97 |
| (1,3792) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 12 | 1.97 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 14 | 1.97 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 14 | 1.97 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 1 | 1.97 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 1 | 1.97 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 1 | 1.97 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 15 | 1.97 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 15 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 11 | 1.97 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 11 | 1.97 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 16 | 1.97 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 9 | 1.97 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 9 | 1.97 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 15 | 1.97 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 10 | 1.97 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 10 | 1.97 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 14 | 1.97 |
| (1,3558) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 14 | 1.97 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 16 | 1.97 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 16 | 1.97 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 12 | 1.97 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 12 | 1.97 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 2 | 1.97 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 2 | 1.97 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 2 | 1.97 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 8 | 1.97 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 8 | 1.97 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 8 | 1.97 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 8 | 1.97 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 8 | 1.97 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 8 | 1.97 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 8 | 1.97 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 8 | 1.97 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 8 | 1.97 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 4 | 1.97 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 5 | 1.97 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 10 | 1.97 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 10 | 1.97 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 10 | 1.97 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 17 | 1.97 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 12 | 1.97 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 8 | 1.97 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 8 | 1.97 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 8 | 1.97 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 18 | 1.97 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 18 | 1.97 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 18 | 1.97 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 18 | 1.97 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 3 | 1.97 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 3 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 3 | 1.97 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 17 | 1.97 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 17 | 1.97 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 8 | 1.97 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 1 | 1.97 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 12 | 1.97 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 14 | 1.97 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 16 | 1.97 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 20 | 1.97 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 20 | 1.97 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 11 | 1.97 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 17 | 1.97 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 10 | 1.97 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 8 | 1.97 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 8 | 1.97 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 8 | 1.97 |
| (1,2489) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 19 | 1.97 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 11 | 1.97 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 8 | 1.97 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 13 | 1.97 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 20 | 1.97 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 17 | 1.97 |
| (1,2287) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 10 | 1.97 |
| (1,2287) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 10 | 1.97 |
| (1,2287) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 10 | 1.97 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 7 | 1.97 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 7 | 1.97 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 7 | 1.97 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 7 | 1.97 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 7 | 1.97 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 7 | 1.97 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 7 | 1.97 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 7 | 1.97 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 7 | 1.97 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 7 | 1.97 |
| (1,2151) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 3 | 1.97 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 6 | 1.97 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 6 | 1.97 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 6 | 1.97 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 6 | 1.97 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 6 | 1.97 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 6 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 6 | 1.97 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 6 | 1.97 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 6 | 1.97 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 15 | 1.97 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 15 | 1.97 |
| (1,2096) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 15 | 1.97 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 13 | 1.97 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 13 | 1.97 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 13 | 1.97 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 13 | 1.97 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 13 | 1.97 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 13 | 1.97 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 13 | 1.97 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 13 | 1.97 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 13 | 1.97 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 20 | 1.97 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 4 | 1.97 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 4 | 1.97 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 4 | 1.97 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 17 | 1.97 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 17 | 1.97 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 17 | 1.97 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 2 | 1.97 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 14 | 1.97 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 14 | 1.97 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 14 | 1.97 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 15 | 1.97 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 15 | 1.97 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 15 | 1.97 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 6 | 1.97 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 11 | 1.97 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 11 | 1.97 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 11 | 1.97 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 19 | 1.97 |
| (1,1810) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 4 | 1.97 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 6 | 1.97 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 6 | 1.97 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 9 | 1.97 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 9 | 1.97 |
| (1,1701) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 9 | 1.97 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 13 | 1.97 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 13 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 17 | 1.97 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 15 | 1.97 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 15 | 1.97 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 20 | 1.97 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 11 | 1.97 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 12 | 1.97 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 20 | 1.97 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 20 | 1.97 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 11 | 1.97 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 11 | 1.97 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 11 | 1.97 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 11 | 1.97 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 11 | 1.97 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 11 | 1.97 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 19 | 1.97 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 19 | 1.97 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 19 | 1.97 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 3 | 1.97 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 8 | 1.97 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 8 | 1.97 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 8 | 1.97 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 2 | 1.97 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 2 | 1.97 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 2 | 1.97 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 15 | 1.97 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 15 | 1.97 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 17 | 1.97 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 17 | 1.97 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 17 | 1.97 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 17 | 1.97 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 17 | 1.97 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 17 | 1.97 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 9 | 1.97 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 9 | 1.97 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 9 | 1.97 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 8 | 1.97 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 5 | 1.97 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 13 | 1.97 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 4 | 1.97 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 4 | 1.97 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 4 | 1.97 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 3 | 1.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 3 | 1.97 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 3 | 1.97 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 13 | 1.97 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 12 | 1.97 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 20 | 1.97 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 17 | 1.97 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 3 | 1.97 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 3 | 1.97 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 3 | 1.97 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 1 | 1.97 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 15 | 1.97 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 19 | 1.97 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 7 | 1.97 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 16 | 1.97 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 14 | 1.97 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 6 | 1.97 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 7 | 1.97 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 7 | 1.97 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 7 | 1.97 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 14 | 1.97 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 14 | 1.97 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 14 | 1.97 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 14 | 1.97 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 16 | 1.96 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 19 | 1.96 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 12 | 1.96 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 12 | 1.96 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 1 | 1.96 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 1 | 1.96 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 1 | 1.96 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 1 | 1.96 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 1 | 1.96 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 1 | 1.96 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 4 | 1.96 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 4 | 1.96 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 12 | 1.96 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 12 | 1.96 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 9 | 1.96 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 9 | 1.96 |
| (1,9520) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 9 | 1.96 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 9 | 1.96 |
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 9 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9520) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 9 | 1.96 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 4 | 1.96 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 4 | 1.96 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 4 | 1.96 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 4 | 1.96 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 20 | 1.96 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 20 | 1.96 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 20 | 1.96 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 20 | 1.96 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 14 | 1.96 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 14 | 1.96 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 14 | 1.96 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 14 | 1.96 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 14 | 1.96 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 14 | 1.96 |
| (1,9356) | 1:111:A:SER:HB2 | 1:116:A:ALA:HA | 15 | 1.96 |
| (1,9356) | 1:111:A:SER:HB3 | 1:116:A:ALA:HA | 15 | 1.96 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 13 | 1.96 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 13 | 1.96 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 13 | 1.96 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 13 | 1.96 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 13 | 1.96 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 13 | 1.96 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 10 | 1.96 |
| (1,9307) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 10 | 1.96 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 10 | 1.96 |
| (1,9307) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 10 | 1.96 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE2 | 14 | 1.96 |
| (1,9235) | 1:97:A:LYS:HB2 | 1:97:A:LYS:HE3 | 14 | 1.96 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE2 | 14 | 1.96 |
| (1,9235) | 1:97:A:LYS:HB3 | 1:97:A:LYS:HE3 | 14 | 1.96 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 3 | 1.96 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 3 | 1.96 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 16 | 1.96 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 16 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 4 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 4 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 4 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 4 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 4 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 4 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 12 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 12 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 12 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 12 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 12 | 1.96 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 12 | 1.96 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 7 | 1.96 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 7 | 1.96 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 7 | 1.96 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 7 | 1.96 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG12 | 3 | 1.96 |
| (1,8896) | 1:64:A:HIS:HE1 | 1:156:A:ILE:HG13 | 3 | 1.96 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 11 | 1.96 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 11 | 1.96 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 11 | 1.96 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 11 | 1.96 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 11 | 1.96 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 11 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 3 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 3 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 3 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 3 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 3 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 3 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 18 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 18 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 18 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 18 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 18 | 1.96 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 18 | 1.96 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 7 | 1.96 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 7 | 1.96 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD2 | 13 | 1.96 |
| (1,8731) | 1:51:A:GLU:HB2 | 1:52:A:PRO:HD3 | 13 | 1.96 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD2 | 13 | 1.96 |
| (1,8731) | 1:51:A:GLU:HB3 | 1:52:A:PRO:HD3 | 13 | 1.96 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 3 | 1.96 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 3 | 1.96 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 14 | 1.96 |
| (1,8607) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 14 | 1.96 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 14 | 1.96 |
| (1,8607) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 14 | 1.96 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 6 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 6 | 1.96 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 6 | 1.96 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 9 | 1.96 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 15 | 1.96 |
| (1,8291) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 15 | 1.96 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 6 | 1.96 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 11 | 1.96 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 11 | 1.96 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 11 | 1.96 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 11 | 1.96 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 8 | 1.96 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 8 | 1.96 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 8 | 1.96 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 8 | 1.96 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 8 | 1.96 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 8 | 1.96 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 8 | 1.96 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 8 | 1.96 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 8 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 10 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 10 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 10 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 10 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 10 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 10 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG2 | 17 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB1 | 1:54:A:ARG:HG3 | 17 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG2 | 17 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB2 | 1:54:A:ARG:HG3 | 17 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG2 | 17 | 1.96 |
| (1,7714) | 1:53:A:ALA:HB3 | 1:54:A:ARG:HG3 | 17 | 1.96 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 12 | 1.96 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 20 | 1.96 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 20 | 1.96 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 20 | 1.96 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 20 | 1.96 |
| (1,7566) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HA | 8 | 1.96 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 12 | 1.96 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 4 | 1.96 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 7 | 1.96 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 5 | 1.96 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 4 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 11 | 1.96 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 11 | 1.96 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 11 | 1.96 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 19 | 1.96 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 19 | 1.96 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 19 | 1.96 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 3 | 1.96 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 3 | 1.96 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 3 | 1.96 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 3 | 1.96 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 3 | 1.96 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 3 | 1.96 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 15 | 1.96 |
| (1,6277) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 13 | 1.96 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 13 | 1.96 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 13 | 1.96 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 13 | 1.96 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 1 | 1.96 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 9 | 1.96 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 15 | 1.96 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 15 | 1.96 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 15 | 1.96 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 3 | 1.96 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 3 | 1.96 |
| (1,5530) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 3 | 1.96 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 3 | 1.96 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 3 | 1.96 |
| (1,5530) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 3 | 1.96 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 3 | 1.96 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 3 | 1.96 |
| (1,5530) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 3 | 1.96 |
| (1,5524) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 9 | 1.96 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 10 | 1.96 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 10 | 1.96 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 10 | 1.96 |
| (1,5268) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 14 | 1.96 |
| (1,5268) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 14 | 1.96 |
| (1,5268) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 14 | 1.96 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 6 | 1.96 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 4 | 1.96 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 4 | 1.96 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 4 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 4 | 1.96 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 4 | 1.96 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 4 | 1.96 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 4 | 1.96 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 4 | 1.96 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 4 | 1.96 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 4 | 1.96 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 16 | 1.96 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 11 | 1.96 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 18 | 1.96 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 8 | 1.96 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 8 | 1.96 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 8 | 1.96 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 2 | 1.96 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 2 | 1.96 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 2 | 1.96 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 16 | 1.96 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 16 | 1.96 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 16 | 1.96 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 10 | 1.96 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 10 | 1.96 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 10 | 1.96 |
| (1,4546) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 13 | 1.96 |
| (1,4546) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 13 | 1.96 |
| (1,4546) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 13 | 1.96 |
| (1,4538) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 17 | 1.96 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 4 | 1.96 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 4 | 1.96 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 9 | 1.96 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 9 | 1.96 |
| (1,4508) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 9 | 1.96 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 9 | 1.96 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 9 | 1.96 |
| (1,4508) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 9 | 1.96 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 4 | 1.96 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 1 | 1.96 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 14 | 1.96 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 14 | 1.96 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 14 | 1.96 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 14 | 1.96 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 19 | 1.96 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 19 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 14 | 1.96 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 14 | 1.96 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 14 | 1.96 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 14 | 1.96 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 14 | 1.96 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 14 | 1.96 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 18 | 1.96 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 18 | 1.96 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 13 | 1.96 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 10 | 1.96 |
| (1,4288) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 10 | 1.96 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 10 | 1.96 |
| (1,4288) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 10 | 1.96 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 10 | 1.96 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 10 | 1.96 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 10 | 1.96 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 1.96 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 12 | 1.96 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 12 | 1.96 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 12 | 1.96 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 12 | 1.96 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 12 | 1.96 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 12 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 4 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 4 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 4 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 4 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 4 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 4 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 12 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 12 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 12 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 12 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 12 | 1.96 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 12 | 1.96 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 11 | 1.96 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 11 | 1.96 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 11 | 1.96 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 11 | 1.96 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 11 | 1.96 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 11 | 1.96 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 6 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 6 | 1.96 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 6 | 1.96 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 5 | 1.96 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 5 | 1.96 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 4 | 1.96 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 4 | 1.96 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 4 | 1.96 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 4 | 1.96 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 4 | 1.96 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 4 | 1.96 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 16 | 1.96 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 16 | 1.96 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 16 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 2 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 2 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 2 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 2 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 4 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 4 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 4 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 4 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 9 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 9 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 9 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 9 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 10 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 10 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 10 | 1.96 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 10 | 1.96 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 3 | 1.96 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 10 | 1.96 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 10 | 1.96 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 18 | 1.96 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 18 | 1.96 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 18 | 1.96 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 18 | 1.96 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 18 | 1.96 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 18 | 1.96 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 11 | 1.96 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 11 | 1.96 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 11 | 1.96 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 11 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 11 | 1.96 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 11 | 1.96 |
| (1,3686) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 1 | 1.96 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 3 | 1.96 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 3 | 1.96 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 16 | 1.96 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 16 | 1.96 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 1.96 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 1.96 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 14 | 1.96 |
| (1,3556) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 14 | 1.96 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 14 | 1.96 |
| (1,3556) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 14 | 1.96 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 13 | 1.96 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 13 | 1.96 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 13 | 1.96 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 13 | 1.96 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 1.96 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 1.96 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 1.96 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 18 | 1.96 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 18 | 1.96 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 4 | 1.96 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 4 | 1.96 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 20 | 1.96 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 20 | 1.96 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 20 | 1.96 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 20 | 1.96 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 20 | 1.96 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 20 | 1.96 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 20 | 1.96 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 20 | 1.96 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 20 | 1.96 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 13 | 1.96 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 13 | 1.96 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 13 | 1.96 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 5 | 1.96 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 12 | 1.96 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 19 | 1.96 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 19 | 1.96 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 19 | 1.96 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 19 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 19 | 1.96 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 13 | 1.96 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 8 | 1.96 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 8 | 1.96 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 11 | 1.96 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 11 | 1.96 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 12 | 1.96 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 12 | 1.96 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 12 | 1.96 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 17 | 1.96 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 17 | 1.96 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 17 | 1.96 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 5 | 1.96 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 7 | 1.96 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 7 | 1.96 |
| (1,2948) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 5 | 1.96 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 4 | 1.96 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 4 | 1.96 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 4 | 1.96 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 3 | 1.96 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 1 | 1.96 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 1 | 1.96 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 15 | 1.96 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 15 | 1.96 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 20 | 1.96 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 17 | 1.96 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 19 | 1.96 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 19 | 1.96 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 19 | 1.96 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 4 | 1.96 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 11 | 1.96 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 11 | 1.96 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 11 | 1.96 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 19 | 1.96 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 19 | 1.96 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 19 | 1.96 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 1.96 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 15 | 1.96 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 7 | 1.96 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 2 | 1.96 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 2 | 1.96 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 2 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 15 | 1.96 |
| (1,1944) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 13 | 1.96 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 4 | 1.96 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 4 | 1.96 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 4 | 1.96 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 4 | 1.96 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 4 | 1.96 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 4 | 1.96 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 20 | 1.96 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 17 | 1.96 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 17 | 1.96 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 17 | 1.96 |
| (1,1829) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 10 | 1.96 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 19 | 1.96 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 19 | 1.96 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 16 | 1.96 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 16 | 1.96 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 12 | 1.96 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 12 | 1.96 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 12 | 1.96 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 1 | 1.96 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 15 | 1.96 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 18 | 1.96 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 6 | 1.96 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 13 | 1.96 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 6 | 1.96 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 6 | 1.96 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 6 | 1.96 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 7 | 1.96 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 7 | 1.96 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 9 | 1.96 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 15 | 1.96 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 15 | 1.96 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 15 | 1.96 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 13 | 1.96 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 13 | 1.96 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 13 | 1.96 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 5 | 1.96 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 5 | 1.96 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 5 | 1.96 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 5 | 1.96 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 5 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 5 | 1.96 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD11 | 3 | 1.96 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD12 | 3 | 1.96 |
| (1,688) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HD13 | 3 | 1.96 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD11 | 3 | 1.96 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD12 | 3 | 1.96 |
| (1,688) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HD13 | 3 | 1.96 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD11 | 3 | 1.96 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD12 | 3 | 1.96 |
| (1,688) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HD13 | 3 | 1.96 |
| (1,679) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 9 | 1.96 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 8 | 1.96 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 8 | 1.96 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 8 | 1.96 |
| (1,605) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 7 | 1.96 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 16 | 1.96 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 16 | 1.96 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 16 | 1.96 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 16 | 1.96 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 16 | 1.96 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 16 | 1.96 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 6 | 1.96 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 3 | 1.96 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 3 | 1.96 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 3 | 1.96 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 3 | 1.96 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 3 | 1.96 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 3 | 1.96 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 6 | 1.96 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 6 | 1.96 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 12 | 1.96 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 12 | 1.96 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 4 | 1.96 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 12 | 1.96 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 18 | 1.96 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 3 | 1.96 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 11 | 1.96 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 11 | 1.96 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 11 | 1.96 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 11 | 1.96 |
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 3 | 1.95 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 11 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 1 | 1.95 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 1.95 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 1.95 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 8 | 1.95 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 8 | 1.95 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 8 | 1.95 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 8 | 1.95 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 8 | 1.95 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 8 | 1.95 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 16 | 1.95 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 16 | 1.95 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 14 | 1.95 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 14 | 1.95 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 9 | 1.95 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 9 | 1.95 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 9 | 1.95 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 9 | 1.95 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 7 | 1.95 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 7 | 1.95 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 7 | 1.95 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 7 | 1.95 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 7 | 1.95 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 7 | 1.95 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 15 | 1.95 |
| (1,9318) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 15 | 1.95 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 5 | 1.95 |
| (1,9140) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 5 | 1.95 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 5 | 1.95 |
| (1,9140) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 5 | 1.95 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 5 | 1.95 |
| (1,9140) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 5 | 1.95 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 16 | 1.95 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 16 | 1.95 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 5 | 1.95 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 5 | 1.95 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 5 | 1.95 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 5 | 1.95 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 5 | 1.95 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 5 | 1.95 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 4 | 1.95 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 4 | 1.95 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 4 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 4 | 1.95 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 4 | 1.95 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 4 | 1.95 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 14 | 1.95 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 14 | 1.95 |
| (1,8923) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 16 | 1.95 |
| (1,8923) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 16 | 1.95 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 13 | 1.95 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 13 | 1.95 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 13 | 1.95 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 13 | 1.95 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 13 | 1.95 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 13 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 1 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 1 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 1 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 1 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 1 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 1 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 14 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 14 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 14 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 14 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 14 | 1.95 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 14 | 1.95 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 10 | 1.95 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 10 | 1.95 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 16 | 1.95 |
| (1,8694) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 16 | 1.95 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 12 | 1.95 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 12 | 1.95 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 12 | 1.95 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 12 | 1.95 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD11 | 14 | 1.95 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD12 | 14 | 1.95 |
| (1,8492) | 1:156:A:ILE:HA | 1:156:A:ILE:HD13 | 14 | 1.95 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 14 | 1.95 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 2 | 1.95 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 2 | 1.95 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 2 | 1.95 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 2 | 1.95 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 2 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 2 | 1.95 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 2 | 1.95 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 2 | 1.95 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 2 | 1.95 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG21 | 18 | 1.95 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG22 | 18 | 1.95 |
| (1,8021) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG23 | 18 | 1.95 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG21 | 18 | 1.95 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG22 | 18 | 1.95 |
| (1,8021) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG23 | 18 | 1.95 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG21 | 18 | 1.95 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG22 | 18 | 1.95 |
| (1,8021) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG23 | 18 | 1.95 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 5 | 1.95 |
| (1,7977) | 1:78:A:ILE:HB | 1:79:A:THR:H | 13 | 1.95 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 18 | 1.95 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE2 | 17 | 1.95 |
| (1,7895) | 1:66:A:GLN:HG2 | 1:82:A:LYS:HE3 | 17 | 1.95 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE2 | 17 | 1.95 |
| (1,7895) | 1:66:A:GLN:HG3 | 1:82:A:LYS:HE3 | 17 | 1.95 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 5 | 1.95 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 5 | 1.95 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 5 | 1.95 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 5 | 1.95 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 5 | 1.95 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 5 | 1.95 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 5 | 1.95 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 5 | 1.95 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 5 | 1.95 |
| (1,7724) | 1:54:A:ARG:HA | 1:126:A:SER:HA | 19 | 1.95 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 15 | 1.95 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 5 | 1.95 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 14 | 1.95 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE2 | 12 | 1.95 |
| (1,7481) | 1:13:A:LYS:H | 1:13:A:LYS:HE3 | 12 | 1.95 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 14 | 1.95 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 14 | 1.95 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 14 | 1.95 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 14 | 1.95 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 14 | 1.95 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 14 | 1.95 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 8 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 17 | 1.95 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 16 | 1.95 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 6 | 1.95 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 19 | 1.95 |
| (1,7068) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 17 | 1.95 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 8 | 1.95 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 8 | 1.95 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 8 | 1.95 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 19 | 1.95 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 5 | 1.95 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 5 | 1.95 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 5 | 1.95 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 5 | 1.95 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 5 | 1.95 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 5 | 1.95 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 5 | 1.95 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 5 | 1.95 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 5 | 1.95 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 15 | 1.95 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 8 | 1.95 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 8 | 1.95 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 8 | 1.95 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 14 | 1.95 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 14 | 1.95 |
| (1,6525) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 14 | 1.95 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 19 | 1.95 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 19 | 1.95 |
| (1,6517) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 19 | 1.95 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 13 | 1.95 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 13 | 1.95 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 13 | 1.95 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 13 | 1.95 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 13 | 1.95 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 13 | 1.95 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 13 | 1.95 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 13 | 1.95 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 13 | 1.95 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 17 | 1.95 |
| (1,6146) | 1:140:A:ALA:H | 1:141:A:LEU:H | 15 | 1.95 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 9 | 1.95 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 1 | 1.95 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 1 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 1 | 1.95 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 9 | 1.95 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 9 | 1.95 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 9 | 1.95 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 9 | 1.95 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 9 | 1.95 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 9 | 1.95 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 9 | 1.95 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 9 | 1.95 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 9 | 1.95 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 8 | 1.95 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 8 | 1.95 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 8 | 1.95 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 9 | 1.95 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 9 | 1.95 |
| (1,5450) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 9 | 1.95 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 9 | 1.95 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 13 | 1.95 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 12 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 7 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 7 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 7 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 7 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 7 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 7 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 7 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 7 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 7 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 12 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 12 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 12 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 12 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 12 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 12 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 12 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 12 | 1.95 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 12 | 1.95 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 10 | 1.95 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 7 | 1.95 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 7 | 1.95 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 7 | 1.95 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 1.95 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 14 | 1.95 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 14 | 1.95 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 14 | 1.95 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 9 | 1.95 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 9 | 1.95 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 11 | 1.95 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 11 | 1.95 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 11 | 1.95 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 15 | 1.95 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 20 | 1.95 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 20 | 1.95 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 1.95 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 7 | 1.95 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 7 | 1.95 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 7 | 1.95 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 7 | 1.95 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 8 | 1.95 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 8 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 6 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 6 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 6 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 6 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 6 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 6 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG2 | 19 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB1 | 1:117:A:LYS:HG3 | 19 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG2 | 19 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB2 | 1:117:A:LYS:HG3 | 19 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG2 | 19 | 1.95 |
| (1,4365) | 1:116:A:ALA:HB3 | 1:117:A:LYS:HG3 | 19 | 1.95 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 9 | 1.95 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 9 | 1.95 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 9 | 1.95 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 7 | 1.95 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 7 | 1.95 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 7 | 1.95 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 7 | 1.95 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 7 | 1.95 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 7 | 1.95 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 8 | 1.95 |
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 15 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4306) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 15 | 1.95 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 3 | 1.95 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 5 | 1.95 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 5 | 1.95 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 5 | 1.95 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 6 | 1.95 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 6 | 1.95 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 10 | 1.95 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 10 | 1.95 |
| (1,4229) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 9 | 1.95 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 7 | 1.95 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 7 | 1.95 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 7 | 1.95 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 7 | 1.95 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 7 | 1.95 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 7 | 1.95 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 9 | 1.95 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 14 | 1.95 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 14 | 1.95 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 14 | 1.95 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 3 | 1.95 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 3 | 1.95 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 3 | 1.95 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 15 | 1.95 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 15 | 1.95 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 5 | 1.95 |
| (1,4108) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 5 | 1.95 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 5 | 1.95 |
| (1,4108) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 5 | 1.95 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 5 | 1.95 |
| (1,4108) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 5 | 1.95 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 2 | 1.95 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 2 | 1.95 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 16 | 1.95 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 16 | 1.95 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 10 | 1.95 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 10 | 1.95 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 10 | 1.95 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 10 | 1.95 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 10 | 1.95 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 10 | 1.95 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 5 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 5 | 1.95 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 5 | 1.95 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 5 | 1.95 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 5 | 1.95 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 1 | 1.95 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 1 | 1.95 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 7 | 1.95 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 7 | 1.95 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 7 | 1.95 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 5 | 1.95 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 1.95 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 6 | 1.95 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 6 | 1.95 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 6 | 1.95 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 6 | 1.95 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 12 | 1.95 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 12 | 1.95 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 12 | 1.95 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 12 | 1.95 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 10 | 1.95 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 12 | 1.95 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 12 | 1.95 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 12 | 1.95 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 13 | 1.95 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 13 | 1.95 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 13 | 1.95 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 13 | 1.95 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 13 | 1.95 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 13 | 1.95 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 20 | 1.95 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 20 | 1.95 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 20 | 1.95 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 3 | 1.95 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 14 | 1.95 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 10 | 1.95 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 10 | 1.95 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 5 | 1.95 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 5 | 1.95 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 5 | 1.95 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 8 | 1.95 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 8 | 1.95 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 8 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 8 | 1.95 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 16 | 1.95 |
| (1,3662) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 16 | 1.95 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 18 | 1.95 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 20 | 1.95 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 20 | 1.95 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 17 | 1.95 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 17 | 1.95 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 17 | 1.95 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 5 | 1.95 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 20 | 1.95 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 20 | 1.95 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 20 | 1.95 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 5 | 1.95 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 5 | 1.95 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 5 | 1.95 |
| (1,3124) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 17 | 1.95 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 3 | 1.95 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 13 | 1.95 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 13 | 1.95 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 8 | 1.95 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 10 | 1.95 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 6 | 1.95 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 19 | 1.95 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 1 | 1.95 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 1 | 1.95 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 1 | 1.95 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 7 | 1.95 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 7 | 1.95 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 19 | 1.95 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 19 | 1.95 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 19 | 1.95 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 19 | 1.95 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 19 | 1.95 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 19 | 1.95 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 6 | 1.95 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 11 | 1.95 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 17 | 1.95 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 1 | 1.95 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 1 | 1.95 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 5 | 1.95 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 5 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 5 | 1.95 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 5 | 1.95 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 5 | 1.95 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 5 | 1.95 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 5 | 1.95 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 5 | 1.95 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 5 | 1.95 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 9 | 1.95 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 15 | 1.95 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 2 | 1.95 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 15 | 1.95 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 15 | 1.95 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 15 | 1.95 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 10 | 1.95 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 8 | 1.95 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 1 | 1.95 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 1 | 1.95 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 1 | 1.95 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 8 | 1.95 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 8 | 1.95 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 8 | 1.95 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 14 | 1.95 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 14 | 1.95 |
| (1,2370) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 14 | 1.95 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 3 | 1.95 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 19 | 1.95 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 19 | 1.95 |
| (1,2360) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 19 | 1.95 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 1 | 1.95 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 1 | 1.95 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 1 | 1.95 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 3 | 1.95 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 3 | 1.95 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 3 | 1.95 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 8 | 1.95 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 8 | 1.95 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 8 | 1.95 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 5 | 1.95 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 3 | 1.95 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 3 | 1.95 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 3 | 1.95 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 1 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 1.95 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 1.95 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 1.95 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 14 | 1.95 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 1 | 1.95 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 1 | 1.95 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 1 | 1.95 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 13 | 1.95 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 13 | 1.95 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 13 | 1.95 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 13 | 1.95 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 13 | 1.95 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 13 | 1.95 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 13 | 1.95 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 13 | 1.95 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 13 | 1.95 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 4 | 1.95 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 7 | 1.95 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 7 | 1.95 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 7 | 1.95 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 15 | 1.95 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 15 | 1.95 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 15 | 1.95 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 8 | 1.95 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 8 | 1.95 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 8 | 1.95 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 8 | 1.95 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 8 | 1.95 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 8 | 1.95 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 8 | 1.95 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 8 | 1.95 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 8 | 1.95 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 1 | 1.95 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 1 | 1.95 |
| (1,1886) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 1 | 1.95 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 8 | 1.95 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 17 | 1.95 |
| (1,1740) | 1:140:A:ALA:H | 1:141:A:LEU:H | 15 | 1.95 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 9 | 1.95 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 9 | 1.95 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 9 | 1.95 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 9 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 4 | 1.95 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 4 | 1.95 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 11 | 1.95 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 11 | 1.95 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 11 | 1.95 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 12 | 1.95 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 14 | 1.95 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 14 | 1.95 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 9 | 1.95 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 16 | 1.95 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 15 | 1.95 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 15 | 1.95 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 15 | 1.95 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 4 | 1.95 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 8 | 1.95 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 8 | 1.95 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 8 | 1.95 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 12 | 1.95 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 12 | 1.95 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 12 | 1.95 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 11 | 1.95 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 4 | 1.95 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 1 | 1.95 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 1 | 1.95 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 1 | 1.95 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 18 | 1.95 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 5 | 1.95 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 5 | 1.95 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 5 | 1.95 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 16 | 1.95 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 16 | 1.95 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 20 | 1.95 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 20 | 1.95 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 2 | 1.95 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 9 | 1.95 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 9 | 1.95 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 9 | 1.95 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 9 | 1.95 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 9 | 1.95 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 9 | 1.95 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 9 | 1.95 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 9 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 9 | 1.95 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 3 | 1.95 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 3 | 1.95 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 3 | 1.95 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 7 | 1.95 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 8 | 1.95 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 9 | 1.95 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 8 | 1.95 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 8 | 1.95 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 8 | 1.95 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 9 | 1.95 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 9 | 1.95 |
| (1,546) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 9 | 1.95 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 8 | 1.95 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 8 | 1.95 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 8 | 1.95 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 15 | 1.95 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 15 | 1.95 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 15 | 1.95 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 3 | 1.95 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 3 | 1.95 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 3 | 1.95 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 8 | 1.95 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 8 | 1.95 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 8 | 1.95 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 8 | 1.95 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 8 | 1.95 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 8 | 1.95 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 8 | 1.95 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 5 | 1.95 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 14 | 1.95 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 15 | 1.95 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 7 | 1.95 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 10 | 1.95 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 1 | 1.95 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 1 | 1.95 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 1 | 1.95 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 1 | 1.95 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 1 | 1.95 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 1 | 1.95 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 1 | 1.95 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 1 | 1.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 1 | 1.95 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 10 | 1.95 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 3 | 1.95 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 16 | 1.95 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 16 | 1.95 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 16 | 1.95 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 7 | 1.95 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 7 | 1.95 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 7 | 1.95 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 7 | 1.95 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 7 | 1.95 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 7 | 1.95 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 19 | 1.95 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 2 | 1.95 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 10 | 1.95 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 10 | 1.95 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 10 | 1.95 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 18 | 1.95 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 18 | 1.95 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 12 | 1.94 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 12 | 1.94 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 11 | 1.94 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 11 | 1.94 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 20 | 1.94 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 20 | 1.94 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 20 | 1.94 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 5 | 1.94 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 5 | 1.94 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 5 | 1.94 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 5 | 1.94 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 5 | 1.94 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 5 | 1.94 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 15 | 1.94 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 15 | 1.94 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 15 | 1.94 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 17 | 1.94 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 17 | 1.94 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 17 | 1.94 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 17 | 1.94 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 17 | 1.94 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 17 | 1.94 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 5 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 5 | 1.94 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 5 | 1.94 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 5 | 1.94 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 5 | 1.94 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 5 | 1.94 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 15 | 1.94 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 15 | 1.94 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 15 | 1.94 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 15 | 1.94 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 15 | 1.94 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 15 | 1.94 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG2 | 5 | 1.94 |
| (1,9544) | 1:143:A:THR:HA | 1:161:A:ARG:HG3 | 5 | 1.94 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 12 | 1.94 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 12 | 1.94 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 12 | 1.94 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 12 | 1.94 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 7 | 1.94 |
| (1,9408) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 7 | 1.94 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 15 | 1.94 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 15 | 1.94 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 15 | 1.94 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 15 | 1.94 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 15 | 1.94 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 15 | 1.94 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 3 | 1.94 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 3 | 1.94 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 15 | 1.94 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 15 | 1.94 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 15 | 1.94 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 15 | 1.94 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 15 | 1.94 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 15 | 1.94 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG12 | 17 | 1.94 |
| (1,9091) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HG13 | 17 | 1.94 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG12 | 17 | 1.94 |
| (1,9091) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HG13 | 17 | 1.94 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG12 | 17 | 1.94 |
| (1,9091) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HG13 | 17 | 1.94 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 7 | 1.94 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 7 | 1.94 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 7 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 7 | 1.94 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 7 | 1.94 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 7 | 1.94 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 15 | 1.94 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 15 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 8 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 8 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 8 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 8 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 8 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 8 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 9 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 9 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 9 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 9 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 9 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 9 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 20 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 20 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 20 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 20 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 20 | 1.94 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 20 | 1.94 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 14 | 1.94 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 14 | 1.94 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 17 | 1.94 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 17 | 1.94 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 5 | 1.94 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 5 | 1.94 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD11 | 16 | 1.94 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD12 | 16 | 1.94 |
| (1,8384) | 1:138:A:SER:HA | 1:141:A:LEU:HD13 | 16 | 1.94 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 11 | 1.94 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 1 | 1.94 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 1 | 1.94 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 1 | 1.94 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 1 | 1.94 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 1 | 1.94 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 1 | 1.94 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 1 | 1.94 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 1 | 1.94 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 1 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 15 | 1.94 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 6 | 1.94 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 6 | 1.94 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 8 | 1.94 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 17 | 1.94 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 19 | 1.94 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 9 | 1.94 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 11 | 1.94 |
| (1,7385) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 5 | 1.94 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 19 | 1.94 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 19 | 1.94 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 14 | 1.94 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 14 | 1.94 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 16 | 1.94 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 16 | 1.94 |
| (1,7275) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 1 | 1.94 |
| (1,7247) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 4 | 1.94 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 16 | 1.94 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 20 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 6 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 13 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 13 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 16 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 18 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 19 | 1.94 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 19 | 1.94 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 20 | 1.94 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 20 | 1.94 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 20 | 1.94 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 20 | 1.94 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 20 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 20 | 1.94 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 20 | 1.94 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 20 | 1.94 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 20 | 1.94 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 7 | 1.94 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 6 | 1.94 |
| (1,6180) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 5 | 1.94 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 12 | 1.94 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 12 | 1.94 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 12 | 1.94 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 12 | 1.94 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 12 | 1.94 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 12 | 1.94 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 12 | 1.94 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 12 | 1.94 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 12 | 1.94 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 2 | 1.94 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 13 | 1.94 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 1 | 1.94 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 1 | 1.94 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 1 | 1.94 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 1 | 1.94 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 1 | 1.94 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 1 | 1.94 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 2 | 1.94 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 2 | 1.94 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 3 | 1.94 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 3 | 1.94 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 15 | 1.94 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 15 | 1.94 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 15 | 1.94 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 15 | 1.94 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 15 | 1.94 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 15 | 1.94 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 15 | 1.94 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 15 | 1.94 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 15 | 1.94 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 3 | 1.94 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 3 | 1.94 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 3 | 1.94 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 3 | 1.94 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 3 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 3 | 1.94 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 3 | 1.94 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 3 | 1.94 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 3 | 1.94 |
| (1,4769) | 1:58:A:SER:H | 1:160:A:LEU:H | 4 | 1.94 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 4 | 1.94 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 18 | 1.94 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 8 | 1.94 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 8 | 1.94 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 6 | 1.94 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 11 | 1.94 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 11 | 1.94 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 7 | 1.94 |
| (1,4390) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 7 | 1.94 |
| (1,4380) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 1 | 1.94 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 16 | 1.94 |
| (1,4378) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 16 | 1.94 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 16 | 1.94 |
| (1,4378) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 16 | 1.94 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 15 | 1.94 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 15 | 1.94 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 15 | 1.94 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 15 | 1.94 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 15 | 1.94 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 15 | 1.94 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 2 | 1.94 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 8 | 1.94 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 8 | 1.94 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 8 | 1.94 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 6 | 1.94 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 6 | 1.94 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 6 | 1.94 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 13 | 1.94 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 13 | 1.94 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 13 | 1.94 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 9 | 1.94 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 9 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 5 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 5 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 5 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 5 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 11 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 11 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 11 | 1.94 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 11 | 1.94 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 10 | 1.94 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 10 | 1.94 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 1 | 1.94 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 1 | 1.94 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 2 | 1.94 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 2 | 1.94 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 2 | 1.94 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 2 | 1.94 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 2 | 1.94 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 2 | 1.94 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 9 | 1.94 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 9 | 1.94 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 9 | 1.94 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 1.94 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 14 | 1.94 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 14 | 1.94 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 9 | 1.94 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 9 | 1.94 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 10 | 1.94 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 10 | 1.94 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 10 | 1.94 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 10 | 1.94 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 1 | 1.94 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 1 | 1.94 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 1 | 1.94 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 1 | 1.94 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 1 | 1.94 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 1 | 1.94 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 9 | 1.94 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 9 | 1.94 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 9 | 1.94 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 12 | 1.94 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 12 | 1.94 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 12 | 1.94 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 12 | 1.94 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 12 | 1.94 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 12 | 1.94 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 12 | 1.94 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 12 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 12 | 1.94 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 16 | 1.94 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 16 | 1.94 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 16 | 1.94 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 4 | 1.94 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 4 | 1.94 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 4 | 1.94 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 10 | 1.94 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 10 | 1.94 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 4 | 1.94 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 10 | 1.94 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 4 | 1.94 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 4 | 1.94 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 4 | 1.94 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 10 | 1.94 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 10 | 1.94 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 15 | 1.94 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 15 | 1.94 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 2 | 1.94 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 2 | 1.94 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 2 | 1.94 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 7 | 1.94 |
| (1,3116) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 14 | 1.94 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 9 | 1.94 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 9 | 1.94 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 16 | 1.94 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 20 | 1.94 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 20 | 1.94 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 20 | 1.94 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 7 | 1.94 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 8 | 1.94 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 14 | 1.94 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 15 | 1.94 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 20 | 1.94 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 6 | 1.94 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 6 | 1.94 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 6 | 1.94 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 14 | 1.94 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 14 | 1.94 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 14 | 1.94 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 16 | 1.94 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 16 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 16 | 1.94 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 16 | 1.94 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 13 | 1.94 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 13 | 1.94 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 13 | 1.94 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 13 | 1.94 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 13 | 1.94 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 13 | 1.94 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 9 | 1.94 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 9 | 1.94 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 19 | 1.94 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 14 | 1.94 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 14 | 1.94 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 1 | 1.94 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 1 | 1.94 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 1.94 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 1.94 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 1.94 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 1.94 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 1.94 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 1.94 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 20 | 1.94 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 20 | 1.94 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 20 | 1.94 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 20 | 1.94 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 20 | 1.94 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 20 | 1.94 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 20 | 1.94 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 20 | 1.94 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 20 | 1.94 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 3 | 1.94 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 3 | 1.94 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 3 | 1.94 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 10 | 1.94 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 10 | 1.94 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 10 | 1.94 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 6 | 1.94 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 3 | 1.94 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 3 | 1.94 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 17 | 1.94 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 17 | 1.94 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 4 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 12 | 1.94 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 12 | 1.94 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 12 | 1.94 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 12 | 1.94 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 12 | 1.94 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 12 | 1.94 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 12 | 1.94 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 12 | 1.94 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 12 | 1.94 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 4 | 1.94 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 18 | 1.94 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 18 | 1.94 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 18 | 1.94 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 2 | 1.94 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 13 | 1.94 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 20 | 1.94 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 7 | 1.94 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 18 | 1.94 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 11 | 1.94 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 11 | 1.94 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 18 | 1.94 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 2 | 1.94 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 2 | 1.94 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 3 | 1.94 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 3 | 1.94 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 10 | 1.94 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 10 | 1.94 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 10 | 1.94 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 8 | 1.94 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 8 | 1.94 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 8 | 1.94 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 20 | 1.94 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 20 | 1.94 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 20 | 1.94 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 6 | 1.94 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 6 | 1.94 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 6 | 1.94 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 9 | 1.94 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 9 | 1.94 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 9 | 1.94 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 2 | 1.94 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 4 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 9 | 1.94 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 9 | 1.94 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 9 | 1.94 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 13 | 1.94 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 13 | 1.94 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 13 | 1.94 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 13 | 1.94 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 13 | 1.94 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 9 | 1.94 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 9 | 1.94 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 9 | 1.94 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 8 | 1.94 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 8 | 1.94 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 8 | 1.94 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 8 | 1.94 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 8 | 1.94 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 8 | 1.94 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 8 | 1.94 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 8 | 1.94 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 8 | 1.94 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 14 | 1.94 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 14 | 1.94 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 14 | 1.94 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 14 | 1.94 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 14 | 1.94 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 14 | 1.94 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 18 | 1.94 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 18 | 1.94 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 18 | 1.94 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 4 | 1.94 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 4 | 1.94 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 4 | 1.94 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 11 | 1.94 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 9 | 1.94 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 17 | 1.94 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 11 | 1.94 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 11 | 1.94 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 11 | 1.94 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 11 | 1.94 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 18 | 1.94 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 18 | 1.94 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 18 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 18 | 1.94 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 18 | 1.94 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 2 | 1.94 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 11 | 1.94 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 11 | 1.94 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 11 | 1.94 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 11 | 1.94 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 11 | 1.94 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 11 | 1.94 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 6 | 1.94 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 6 | 1.94 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 6 | 1.94 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 20 | 1.94 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 20 | 1.94 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 20 | 1.94 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 14 | 1.94 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 7 | 1.94 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 11 | 1.94 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 5 | 1.94 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 5 | 1.94 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 5 | 1.94 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 19 | 1.93 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 5 | 1.93 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 12 | 1.93 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 12 | 1.93 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 12 | 1.93 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 12 | 1.93 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 3 | 1.93 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 3 | 1.93 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 15 | 1.93 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 20 | 1.93 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 20 | 1.93 |
| (1,9618) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 20 | 1.93 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 20 | 1.93 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 20 | 1.93 |
| (1,9618) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 20 | 1.93 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 1 | 1.93 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 1 | 1.93 |
| (1,9569) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 1 | 1.93 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 1 | 1.93 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 1 | 1.93 |
| (1,9569) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 1 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 1 | 1.93 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 1 | 1.93 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 6 | 1.93 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 6 | 1.93 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 13 | 1.93 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 13 | 1.93 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 13 | 1.93 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 13 | 1.93 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 13 | 1.93 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 13 | 1.93 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 17 | 1.93 |
| (1,9546) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 17 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 2 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 2 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 2 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 2 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 5 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 5 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 5 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 5 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 8 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 8 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 8 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 8 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 13 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 13 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 13 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 13 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 15 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 15 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 15 | 1.93 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 15 | 1.93 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 1 | 1.93 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 1 | 1.93 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 1 | 1.93 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 1 | 1.93 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 1 | 1.93 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 1 | 1.93 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 19 | 1.93 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 19 | 1.93 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 8 | 1.93 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 8 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 8 | 1.93 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 8 | 1.93 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 8 | 1.93 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 8 | 1.93 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 1 | 1.93 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 1 | 1.93 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 1 | 1.93 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 1 | 1.93 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 16 | 1.93 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 16 | 1.93 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 16 | 1.93 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 16 | 1.93 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 6 | 1.93 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 6 | 1.93 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 6 | 1.93 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 6 | 1.93 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 6 | 1.93 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 6 | 1.93 |
| (1,8903) | 1:65:A:SER:HB2 | 1:79:A:THR:HA | 19 | 1.93 |
| (1,8903) | 1:65:A:SER:HB3 | 1:79:A:THR:HA | 19 | 1.93 |
| (1,8869) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 13 | 1.93 |
| (1,8869) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 13 | 1.93 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD2 | 17 | 1.93 |
| (1,8867) | 1:63:A:LYS:HA | 1:63:A:LYS:HD3 | 17 | 1.93 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 19 | 1.93 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 19 | 1.93 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 19 | 1.93 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 19 | 1.93 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 19 | 1.93 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 19 | 1.93 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 16 | 1.93 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 16 | 1.93 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 16 | 1.93 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 16 | 1.93 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 16 | 1.93 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 16 | 1.93 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 1 | 1.93 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 1 | 1.93 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 10 | 1.93 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 10 | 1.93 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 19 | 1.93 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 19 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 4 | 1.93 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 4 | 1.93 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 20 | 1.93 |
| (1,8670) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 20 | 1.93 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD11 | 16 | 1.93 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD12 | 16 | 1.93 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD13 | 16 | 1.93 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD21 | 16 | 1.93 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD22 | 16 | 1.93 |
| (1,8395) | 1:140:A:ALA:H | 1:141:A:LEU:HD23 | 16 | 1.93 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 16 | 1.93 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 16 | 1.93 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 16 | 1.93 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 14 | 1.93 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 17 | 1.93 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 17 | 1.93 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 17 | 1.93 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 17 | 1.93 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 17 | 1.93 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 17 | 1.93 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 17 | 1.93 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 17 | 1.93 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 17 | 1.93 |
| (1,7862) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 14 | 1.93 |
| (1,7862) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 14 | 1.93 |
| (1,7862) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 14 | 1.93 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 14 | 1.93 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 14 | 1.93 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 14 | 1.93 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 14 | 1.93 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 14 | 1.93 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 14 | 1.93 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 14 | 1.93 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 14 | 1.93 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 14 | 1.93 |
| (1,7716) | 1:54:A:ARG:HD2 | 1:55:A:VAL:H | 12 | 1.93 |
| (1,7716) | 1:54:A:ARG:HD3 | 1:55:A:VAL:H | 12 | 1.93 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 15 | 1.93 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 9 | 1.93 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 9 | 1.93 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 9 | 1.93 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 9 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 1 | 1.93 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 13 | 1.93 |
| (1,7523) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 6 | 1.93 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 11 | 1.93 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 11 | 1.93 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 13 | 1.93 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD1 | 2 | 1.93 |
| (1,7349) | 1:92:A:TYR:HA | 1:92:A:TYR:HD2 | 2 | 1.93 |
| (1,7303) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 20 | 1.93 |
| (1,7297) | 1:28:A:ILE:H | 1:28:A:ILE:HG13 | 1 | 1.93 |
| (1,7133) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 11 | 1.93 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 8 | 1.93 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 11 | 1.93 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 4 | 1.93 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 10 | 1.93 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 15 | 1.93 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 17 | 1.93 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 1 | 1.93 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 12 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 4 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 4 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 4 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 4 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 4 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 4 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 4 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 4 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 4 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 19 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 19 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 19 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 19 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 19 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 19 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 19 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 19 | 1.93 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 19 | 1.93 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 11 | 1.93 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 11 | 1.93 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 11 | 1.93 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 11 | 1.93 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 11 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 11 | 1.93 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 11 | 1.93 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 11 | 1.93 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 11 | 1.93 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 13 | 1.93 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 13 | 1.93 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 13 | 1.93 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 13 | 1.93 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 13 | 1.93 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 13 | 1.93 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 13 | 1.93 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 13 | 1.93 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 13 | 1.93 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 16 | 1.93 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 17 | 1.93 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 17 | 1.93 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 17 | 1.93 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 17 | 1.93 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 17 | 1.93 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 17 | 1.93 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 17 | 1.93 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 17 | 1.93 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 17 | 1.93 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 11 | 1.93 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 17 | 1.93 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 17 | 1.93 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 17 | 1.93 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 10 | 1.93 |
| (1,5367) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 19 | 1.93 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD21 | 14 | 1.93 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD22 | 14 | 1.93 |
| (1,5346) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD23 | 14 | 1.93 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 4 | 1.93 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 11 | 1.93 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 14 | 1.93 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 4 | 1.93 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 10 | 1.93 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 19 | 1.93 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 19 | 1.93 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 14 | 1.93 |
| (1,4587) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 14 | 1.93 |
| (1,4550) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 10 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 1 | 1.93 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 1 | 1.93 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 6 | 1.93 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 6 | 1.93 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 13 | 1.93 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 13 | 1.93 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 13 | 1.93 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 13 | 1.93 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 13 | 1.93 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 13 | 1.93 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 17 | 1.93 |
| (1,4536) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 17 | 1.93 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 7 | 1.93 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 4 | 1.93 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 7 | 1.93 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 7 | 1.93 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 7 | 1.93 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 7 | 1.93 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 7 | 1.93 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 7 | 1.93 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 18 | 1.93 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 18 | 1.93 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 13 | 1.93 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 13 | 1.93 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 8 | 1.93 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 8 | 1.93 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 8 | 1.93 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 8 | 1.93 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 8 | 1.93 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 8 | 1.93 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 12 | 1.93 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 12 | 1.93 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 12 | 1.93 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 12 | 1.93 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 19 | 1.93 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 16 | 1.93 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 16 | 1.93 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 16 | 1.93 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 8 | 1.93 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 8 | 1.93 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 8 | 1.93 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 8 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 8 | 1.93 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 8 | 1.93 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 4 | 1.93 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 4 | 1.93 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 4 | 1.93 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 4 | 1.93 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 2 | 1.93 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 2 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 1 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 1 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 1 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 1 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 13 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 13 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 13 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 13 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 20 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 20 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 20 | 1.93 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 20 | 1.93 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 19 | 1.93 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 19 | 1.93 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 19 | 1.93 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 19 | 1.93 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 19 | 1.93 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 19 | 1.93 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 1.93 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 1.93 |
| (1,3808) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 1.93 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 1 | 1.93 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 1 | 1.93 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 10 | 1.93 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 10 | 1.93 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 19 | 1.93 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 19 | 1.93 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 19 | 1.93 |
| (1,3738) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 5 | 1.93 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 20 | 1.93 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 20 | 1.93 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 20 | 1.93 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 20 | 1.93 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 20 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 20 | 1.93 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 14 | 1.93 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 14 | 1.93 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 14 | 1.93 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 14 | 1.93 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 13 | 1.93 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 13 | 1.93 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 5 | 1.93 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 5 | 1.93 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 17 | 1.93 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 8 | 1.93 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 1.93 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 10 | 1.93 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 10 | 1.93 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 12 | 1.93 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 12 | 1.93 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 10 | 1.93 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 5 | 1.93 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 5 | 1.93 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 10 | 1.93 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 17 | 1.93 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 14 | 1.93 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 14 | 1.93 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 14 | 1.93 |
| (1,3232) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 11 | 1.93 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 11 | 1.93 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 4 | 1.93 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 10 | 1.93 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 14 | 1.93 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 14 | 1.93 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 19 | 1.93 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 19 | 1.93 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 13 | 1.93 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 13 | 1.93 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 13 | 1.93 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 13 | 1.93 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 15 | 1.93 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 15 | 1.93 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 15 | 1.93 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 17 | 1.93 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 15 | 1.93 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 2 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 13 | 1.93 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 9 | 1.93 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 9 | 1.93 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 9 | 1.93 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 3 | 1.93 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 8 | 1.93 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 12 | 1.93 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 10 | 1.93 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 10 | 1.93 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 10 | 1.93 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 10 | 1.93 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 10 | 1.93 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 10 | 1.93 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 10 | 1.93 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 10 | 1.93 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 10 | 1.93 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 10 | 1.93 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 12 | 1.93 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 14 | 1.93 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 19 | 1.93 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 7 | 1.93 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 7 | 1.93 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 7 | 1.93 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 7 | 1.93 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 7 | 1.93 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 7 | 1.93 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 7 | 1.93 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 7 | 1.93 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 7 | 1.93 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 1.93 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 1.93 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 1.93 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 14 | 1.93 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 14 | 1.93 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 14 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 4 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 4 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 4 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 4 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 4 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 4 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 4 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 4 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 4 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 19 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 19 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 19 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 19 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 19 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 19 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 19 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 19 | 1.93 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 19 | 1.93 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 5 | 1.93 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 5 | 1.93 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 5 | 1.93 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 5 | 1.93 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 5 | 1.93 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 5 | 1.93 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 5 | 1.93 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 5 | 1.93 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 5 | 1.93 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 16 | 1.93 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 16 | 1.93 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 16 | 1.93 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 7 | 1.93 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 1 | 1.93 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 14 | 1.93 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 12 | 1.93 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 12 | 1.93 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 12 | 1.93 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 12 | 1.93 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 12 | 1.93 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 12 | 1.93 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 11 | 1.93 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 11 | 1.93 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 11 | 1.93 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 11 | 1.93 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 11 | 1.93 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 11 | 1.93 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 11 | 1.93 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 11 | 1.93 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 11 | 1.93 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 13 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 13 | 1.93 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 13 | 1.93 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 13 | 1.93 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 13 | 1.93 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 13 | 1.93 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 13 | 1.93 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 13 | 1.93 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 13 | 1.93 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 5 | 1.93 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 12 | 1.93 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 12 | 1.93 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 12 | 1.93 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 5 | 1.93 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 17 | 1.93 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 17 | 1.93 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 17 | 1.93 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 17 | 1.93 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 17 | 1.93 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 17 | 1.93 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 17 | 1.93 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 17 | 1.93 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 17 | 1.93 |
| (1,1284) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 3 | 1.93 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 6 | 1.93 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 8 | 1.93 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 8 | 1.93 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 14 | 1.93 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 14 | 1.93 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 1 | 1.93 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 1 | 1.93 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 1 | 1.93 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 1 | 1.93 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 1 | 1.93 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 1 | 1.93 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 16 | 1.93 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 11 | 1.93 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 3 | 1.93 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 19 | 1.93 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 13 | 1.93 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 4 | 1.93 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 4 | 1.93 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 4 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 4 | 1.93 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 4 | 1.93 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 4 | 1.93 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 12 | 1.93 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 6 | 1.93 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 14 | 1.93 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 1 | 1.93 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 17 | 1.93 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 17 | 1.93 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 17 | 1.93 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 1 | 1.93 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 1 | 1.93 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 1 | 1.93 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 6 | 1.93 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 6 | 1.93 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 6 | 1.93 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 2 | 1.93 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 4 | 1.93 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 7 | 1.93 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 6 | 1.93 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 16 | 1.93 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 11 | 1.93 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 11 | 1.93 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 11 | 1.93 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 5 | 1.93 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 20 | 1.93 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 20 | 1.93 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 20 | 1.93 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 17 | 1.93 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 2 | 1.93 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 2 | 1.93 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 2 | 1.93 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 19 | 1.93 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 19 | 1.93 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 19 | 1.93 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 9 | 1.93 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 9 | 1.93 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 9 | 1.93 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 1 | 1.93 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 1 | 1.93 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 1 | 1.93 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 13 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 13 | 1.93 |
| (4,101) | 1:15:A:MET:CB | 1:162:A:THR:H | 14 | 1.92 |
| (4,22) | 1:15:A:MET:CB | 1:72:A:SER:H | 7 | 1.92 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 7 | 1.92 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 7 | 1.92 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 10 | 1.92 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 10 | 1.92 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 10 | 1.92 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 10 | 1.92 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 10 | 1.92 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 10 | 1.92 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB2 | 18 | 1.92 |
| (1,9567) | 1:146:A:MET:HA | 1:160:A:LEU:HB3 | 18 | 1.92 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 12 | 1.92 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 12 | 1.92 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 13 | 1.92 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 13 | 1.92 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 13 | 1.92 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 13 | 1.92 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 13 | 1.92 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 13 | 1.92 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA2 | 14 | 1.92 |
| (1,9327) | 1:107:A:ALA:HB1 | 1:120:A:GLY:HA3 | 14 | 1.92 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA2 | 14 | 1.92 |
| (1,9327) | 1:107:A:ALA:HB2 | 1:120:A:GLY:HA3 | 14 | 1.92 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA2 | 14 | 1.92 |
| (1,9327) | 1:107:A:ALA:HB3 | 1:120:A:GLY:HA3 | 14 | 1.92 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 17 | 1.92 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 17 | 1.92 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 3 | 1.92 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 3 | 1.92 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD11 | 3 | 1.92 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD12 | 3 | 1.92 |
| (1,8979) | 1:75:A:GLN:HB2 | 1:78:A:ILE:HD13 | 3 | 1.92 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD11 | 3 | 1.92 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD12 | 3 | 1.92 |
| (1,8979) | 1:75:A:GLN:HB3 | 1:78:A:ILE:HD13 | 3 | 1.92 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 18 | 1.92 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 18 | 1.92 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 7 | 1.92 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 7 | 1.92 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 7 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 7 | 1.92 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 7 | 1.92 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 7 | 1.92 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 1.92 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 1.92 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 1.92 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 1.92 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 1.92 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 1.92 |
| (1,8840) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 8 | 1.92 |
| (1,8840) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 8 | 1.92 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 14 | 1.92 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 14 | 1.92 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 14 | 1.92 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 14 | 1.92 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 14 | 1.92 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 14 | 1.92 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 3 | 1.92 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 3 | 1.92 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 15 | 1.92 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 15 | 1.92 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 15 | 1.92 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 15 | 1.92 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 17 | 1.92 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 17 | 1.92 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 11 | 1.92 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 11 | 1.92 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 17 | 1.92 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 17 | 1.92 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 1 | 1.92 |
| (1,8631) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 1 | 1.92 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 1 | 1.92 |
| (1,8631) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 1 | 1.92 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD11 | 12 | 1.92 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD12 | 12 | 1.92 |
| (1,8397) | 1:141:A:LEU:H | 1:141:A:LEU:HD13 | 12 | 1.92 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 9 | 1.92 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 19 | 1.92 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 19 | 1.92 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 19 | 1.92 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 4 | 1.92 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 14 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 14 | 1.92 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 20 | 1.92 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 14 | 1.92 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 14 | 1.92 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 16 | 1.92 |
| (1,7433) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HG2 | 20 | 1.92 |
| (1,7433) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HG2 | 20 | 1.92 |
| (1,7433) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HG2 | 20 | 1.92 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 5 | 1.92 |
| (1,7066) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 14 | 1.92 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 7 | 1.92 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 11 | 1.92 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 16 | 1.92 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 16 | 1.92 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 16 | 1.92 |
| (1,6833) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 7 | 1.92 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 20 | 1.92 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 4 | 1.92 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 1 | 1.92 |
| (1,6508) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 1 | 1.92 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 5 | 1.92 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 5 | 1.92 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 5 | 1.92 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 18 | 1.92 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 18 | 1.92 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 18 | 1.92 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 18 | 1.92 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 18 | 1.92 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 18 | 1.92 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 18 | 1.92 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 18 | 1.92 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 18 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 15 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 15 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 15 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 15 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 15 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 15 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 15 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 15 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 15 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 16 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 16 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 16 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 16 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 16 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 16 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 16 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 16 | 1.92 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 16 | 1.92 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 16 | 1.92 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 1 | 1.92 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 15 | 1.92 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 15 | 1.92 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 15 | 1.92 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 8 | 1.92 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 8 | 1.92 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 8 | 1.92 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 13 | 1.92 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 8 | 1.92 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 8 | 1.92 |
| (1,5872) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 8 | 1.92 |
| (1,5784) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 19 | 1.92 |
| (1,5784) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 19 | 1.92 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 10 | 1.92 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 10 | 1.92 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 10 | 1.92 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 3 | 1.92 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 20 | 1.92 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 20 | 1.92 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 20 | 1.92 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 20 | 1.92 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 20 | 1.92 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 20 | 1.92 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 20 | 1.92 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 20 | 1.92 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 20 | 1.92 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 13 | 1.92 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 13 | 1.92 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 13 | 1.92 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 2 | 1.92 |
| (1,4651) | 1:51:A:GLU:HA | 1:52:A:PRO:HD2 | 16 | 1.92 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 7 | 1.92 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 7 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 11 | 1.92 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 11 | 1.92 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 11 | 1.92 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 3 | 1.92 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 3 | 1.92 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 3 | 1.92 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 3 | 1.92 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 3 | 1.92 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 3 | 1.92 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 10 | 1.92 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 10 | 1.92 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 10 | 1.92 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 10 | 1.92 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 10 | 1.92 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 10 | 1.92 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 12 | 1.92 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 12 | 1.92 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 1 | 1.92 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 1 | 1.92 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 1 | 1.92 |
| (1,4526) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 6 | 1.92 |
| (1,4526) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 6 | 1.92 |
| (1,4526) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 6 | 1.92 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 11 | 1.92 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 11 | 1.92 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 11 | 1.92 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 11 | 1.92 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 11 | 1.92 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 11 | 1.92 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 2 | 1.92 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 18 | 1.92 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 5 | 1.92 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 5 | 1.92 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 5 | 1.92 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 17 | 1.92 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 17 | 1.92 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 17 | 1.92 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 4 | 1.92 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 4 | 1.92 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 7 | 1.92 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 7 | 1.92 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 20 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 20 | 1.92 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 20 | 1.92 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 20 | 1.92 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 20 | 1.92 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 20 | 1.92 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 20 | 1.92 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 20 | 1.92 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 3 | 1.92 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 3 | 1.92 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 3 | 1.92 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 3 | 1.92 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 19 | 1.92 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 19 | 1.92 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 19 | 1.92 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 19 | 1.92 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 5 | 1.92 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 5 | 1.92 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 5 | 1.92 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 5 | 1.92 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 17 | 1.92 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 1.92 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 1.92 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 1.92 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 1.92 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 1.92 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 1.92 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 13 | 1.92 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 13 | 1.92 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 13 | 1.92 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 13 | 1.92 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 13 | 1.92 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 13 | 1.92 |
| (1,3798) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 8 | 1.92 |
| (1,3798) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 8 | 1.92 |
| (1,3793) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 2 | 1.92 |
| (1,3793) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 2 | 1.92 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 14 | 1.92 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 14 | 1.92 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 14 | 1.92 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 14 | 1.92 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 14 | 1.92 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 14 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 3 | 1.92 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 3 | 1.92 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 11 | 1.92 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 11 | 1.92 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 17 | 1.92 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 17 | 1.92 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 1 | 1.92 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 1 | 1.92 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 1 | 1.92 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 3 | 1.92 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 9 | 1.92 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 9 | 1.92 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 9 | 1.92 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 16 | 1.92 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 16 | 1.92 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 16 | 1.92 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 18 | 1.92 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 18 | 1.92 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 18 | 1.92 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 14 | 1.92 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 14 | 1.92 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 6 | 1.92 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 6 | 1.92 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 2 | 1.92 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 2 | 1.92 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 10 | 1.92 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 10 | 1.92 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 10 | 1.92 |
| (1,3122) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 14 | 1.92 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 4 | 1.92 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 4 | 1.92 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 7 | 1.92 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 7 | 1.92 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 11 | 1.92 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 14 | 1.92 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 12 | 1.92 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 14 | 1.92 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 6 | 1.92 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 6 | 1.92 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 19 | 1.92 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 19 | 1.92 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 2 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 15 | 1.92 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 19 | 1.92 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 14 | 1.92 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 14 | 1.92 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 12 | 1.92 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 4 | 1.92 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 7 | 1.92 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 13 | 1.92 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 20 | 1.92 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 15 | 1.92 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 3 | 1.92 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 11 | 1.92 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 1 | 1.92 |
| (1,2347) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 1 | 1.92 |
| (1,2238) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 16 | 1.92 |
| (1,2238) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 16 | 1.92 |
| (1,2238) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 16 | 1.92 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 10 | 1.92 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 10 | 1.92 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 10 | 1.92 |
| (1,2186) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 17 | 1.92 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 3 | 1.92 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 4 | 1.92 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 9 | 1.92 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 9 | 1.92 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 9 | 1.92 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 6 | 1.92 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 5 | 1.92 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 4 | 1.92 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 1.92 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 1.92 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 1.92 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 1.92 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 1.92 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 1.92 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 1.92 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 1.92 |
| (1,2110) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 1.92 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 8 | 1.92 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 18 | 1.92 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 18 | 1.92 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 18 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 18 | 1.92 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 18 | 1.92 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 18 | 1.92 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 18 | 1.92 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 18 | 1.92 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 18 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 15 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 15 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 15 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 15 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 15 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 15 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 15 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 15 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 15 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 16 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 16 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 16 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 16 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 16 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 16 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 16 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 16 | 1.92 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 16 | 1.92 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 6 | 1.92 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 14 | 1.92 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 14 | 1.92 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 14 | 1.92 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 17 | 1.92 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 1 | 1.92 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 10 | 1.92 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 2 | 1.92 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 2 | 1.92 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 9 | 1.92 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 11 | 1.92 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 11 | 1.92 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 11 | 1.92 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 13 | 1.92 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 13 | 1.92 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 13 | 1.92 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 15 | 1.92 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 15 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 13 | 1.92 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 8 | 1.92 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 8 | 1.92 |
| (1,1276) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 8 | 1.92 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 9 | 1.92 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 9 | 1.92 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 8 | 1.92 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 8 | 1.92 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 20 | 1.92 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 4 | 1.92 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 20 | 1.92 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 20 | 1.92 |
| (1,1136) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 19 | 1.92 |
| (1,1136) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 19 | 1.92 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 19 | 1.92 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 13 | 1.92 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 2 | 1.92 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 9 | 1.92 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 10 | 1.92 |
| (1,809) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 1.92 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 12 | 1.92 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 8 | 1.92 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 8 | 1.92 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 8 | 1.92 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 8 | 1.92 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 8 | 1.92 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 8 | 1.92 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 16 | 1.92 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 16 | 1.92 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 16 | 1.92 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 16 | 1.92 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 16 | 1.92 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 16 | 1.92 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 16 | 1.92 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 16 | 1.92 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 16 | 1.92 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 16 | 1.92 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 8 | 1.92 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 13 | 1.92 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 1 | 1.92 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 8 | 1.92 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 8 | 1.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 8 | 1.92 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 8 | 1.92 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 8 | 1.92 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 8 | 1.92 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 17 | 1.92 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 5 | 1.92 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 14 | 1.92 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 14 | 1.92 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 14 | 1.92 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 18 | 1.92 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 15 | 1.92 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 15 | 1.92 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 15 | 1.92 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 19 | 1.92 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 19 | 1.92 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 19 | 1.92 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 1 | 1.92 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 1 | 1.92 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 1 | 1.92 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 1 | 1.92 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 16 | 1.91 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 18 | 1.91 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 12 | 1.91 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 12 | 1.91 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 14 | 1.91 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 14 | 1.91 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 17 | 1.91 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 17 | 1.91 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 18 | 1.91 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 18 | 1.91 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD2 | 16 | 1.91 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD2 | 16 | 1.91 |
| (1,9480) | 1:132:A:LYS:HG2 | 1:133:A:PRO:HD3 | 16 | 1.91 |
| (1,9480) | 1:132:A:LYS:HG3 | 1:133:A:PRO:HD3 | 16 | 1.91 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 9 | 1.91 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 9 | 1.91 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE2 | 16 | 1.91 |
| (1,9474) | 1:132:A:LYS:HB2 | 1:132:A:LYS:HE3 | 16 | 1.91 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE2 | 16 | 1.91 |
| (1,9474) | 1:132:A:LYS:HB3 | 1:132:A:LYS:HE3 | 16 | 1.91 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 14 | 1.91 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 14 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 14 | 1.91 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 14 | 1.91 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 16 | 1.91 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 16 | 1.91 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 16 | 1.91 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 16 | 1.91 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 8 | 1.91 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 8 | 1.91 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 2 | 1.91 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 2 | 1.91 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 20 | 1.91 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 20 | 1.91 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD2 | 18 | 1.91 |
| (1,9017) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HD3 | 18 | 1.91 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD2 | 18 | 1.91 |
| (1,9017) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HD3 | 18 | 1.91 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD2 | 18 | 1.91 |
| (1,9017) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HD3 | 18 | 1.91 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 6 | 1.91 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 6 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 11 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 11 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 11 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 11 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 11 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 11 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD11 | 15 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD12 | 15 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB2 | 1:60:A:LEU:HD13 | 15 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD11 | 15 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD12 | 15 | 1.91 |
| (1,8834) | 1:60:A:LEU:HB3 | 1:60:A:LEU:HD13 | 15 | 1.91 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 20 | 1.91 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 20 | 1.91 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD21 | 1 | 1.91 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD22 | 1 | 1.91 |
| (1,8817) | 1:58:A:SER:HB2 | 1:160:A:LEU:HD23 | 1 | 1.91 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD21 | 1 | 1.91 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD22 | 1 | 1.91 |
| (1,8817) | 1:58:A:SER:HB3 | 1:160:A:LEU:HD23 | 1 | 1.91 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD2 | 2 | 1.91 |
| (1,8768) | 1:56:A:ARG:H | 1:56:A:ARG:HD3 | 2 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 5 | 1.91 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 5 | 1.91 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 20 | 1.91 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 1.91 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 14 | 1.91 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 14 | 1.91 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 17 | 1.91 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 17 | 1.91 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 8 | 1.91 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 8 | 1.91 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 1 | 1.91 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 1 | 1.91 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 6 | 1.91 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 6 | 1.91 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 6 | 1.91 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 6 | 1.91 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 3 | 1.91 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 3 | 1.91 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 12 | 1.91 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 12 | 1.91 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 12 | 1.91 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 18 | 1.91 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 10 | 1.91 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD11 | 6 | 1.91 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD12 | 6 | 1.91 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD13 | 6 | 1.91 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD21 | 6 | 1.91 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD22 | 6 | 1.91 |
| (1,7786) | 1:58:A:SER:H | 1:160:A:LEU:HD23 | 6 | 1.91 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 19 | 1.91 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 19 | 1.91 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 19 | 1.91 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 19 | 1.91 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 19 | 1.91 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 19 | 1.91 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 7 | 1.91 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 13 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 6 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 6 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 6 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 6 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 18 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 18 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 18 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 18 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 19 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 19 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 19 | 1.91 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 19 | 1.91 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 19 | 1.91 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 19 | 1.91 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 19 | 1.91 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 19 | 1.91 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 19 | 1.91 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 19 | 1.91 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 19 | 1.91 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 19 | 1.91 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 19 | 1.91 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 2 | 1.91 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 10 | 1.91 |
| (1,7511) | 1:14:A:ARG:HA | 1:14:A:ARG:HD2 | 20 | 1.91 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 2 | 1.91 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 2 | 1.91 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 2 | 1.91 |
| (1,6999) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 1 | 1.91 |
| (1,6757) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 14 | 1.91 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 15 | 1.91 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 17 | 1.91 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 17 | 1.91 |
| (1,6427) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 17 | 1.91 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 17 | 1.91 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 17 | 1.91 |
| (1,6427) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 17 | 1.91 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 17 | 1.91 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 17 | 1.91 |
| (1,6427) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 17 | 1.91 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 10 | 1.91 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 10 | 1.91 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 10 | 1.91 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 10 | 1.91 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 10 | 1.91 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 10 | 1.91 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 10 | 1.91 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 10 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 10 | 1.91 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 2 | 1.91 |
| (1,6181) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 19 | 1.91 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 2 | 1.91 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 2 | 1.91 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 2 | 1.91 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 2 | 1.91 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 2 | 1.91 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 2 | 1.91 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 2 | 1.91 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 2 | 1.91 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 2 | 1.91 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 6 | 1.91 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 4 | 1.91 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 2 | 1.91 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 14 | 1.91 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 14 | 1.91 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 14 | 1.91 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 10 | 1.91 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 10 | 1.91 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 7 | 1.91 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 7 | 1.91 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 7 | 1.91 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 7 | 1.91 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 7 | 1.91 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 7 | 1.91 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 7 | 1.91 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 7 | 1.91 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 7 | 1.91 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 1 | 1.91 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 1 | 1.91 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 1 | 1.91 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 12 | 1.91 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 12 | 1.91 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 12 | 1.91 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 12 | 1.91 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 12 | 1.91 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 12 | 1.91 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 12 | 1.91 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 12 | 1.91 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 12 | 1.91 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 11 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 11 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 2 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 2 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 2 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 2 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 2 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 2 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 2 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 2 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 2 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 9 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 9 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 9 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 9 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 9 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 9 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 9 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 9 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 9 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 19 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 19 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 19 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 19 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 19 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 19 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 19 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 19 | 1.91 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 19 | 1.91 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 5 | 1.91 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 5 | 1.91 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 5 | 1.91 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 5 | 1.91 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 5 | 1.91 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 5 | 1.91 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 5 | 1.91 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 5 | 1.91 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 5 | 1.91 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 5 | 1.91 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 5 | 1.91 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 5 | 1.91 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 20 | 1.91 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 20 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 14 | 1.91 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 14 | 1.91 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 14 | 1.91 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 14 | 1.91 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 17 | 1.91 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 17 | 1.91 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 17 | 1.91 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 17 | 1.91 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 17 | 1.91 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 5 | 1.91 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 18 | 1.91 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 18 | 1.91 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 18 | 1.91 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 11 | 1.91 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 17 | 1.91 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 17 | 1.91 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 10 | 1.91 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 10 | 1.91 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 10 | 1.91 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 10 | 1.91 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 10 | 1.91 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 10 | 1.91 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 18 | 1.91 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 18 | 1.91 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 18 | 1.91 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 18 | 1.91 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 18 | 1.91 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 18 | 1.91 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 14 | 1.91 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 14 | 1.91 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 14 | 1.91 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 14 | 1.91 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 14 | 1.91 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 14 | 1.91 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 14 | 1.91 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 14 | 1.91 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 14 | 1.91 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 14 | 1.91 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 14 | 1.91 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 14 | 1.91 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 16 | 1.91 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 16 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 16 | 1.91 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 18 | 1.91 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 18 | 1.91 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 18 | 1.91 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 17 | 1.91 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 1 | 1.91 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 1 | 1.91 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 5 | 1.91 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 5 | 1.91 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 20 | 1.91 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 1.91 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 18 | 1.91 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 18 | 1.91 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 18 | 1.91 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 18 | 1.91 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 14 | 1.91 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 14 | 1.91 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 1 | 1.91 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 1 | 1.91 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 10 | 1.91 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 10 | 1.91 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 10 | 1.91 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 10 | 1.91 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 10 | 1.91 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 10 | 1.91 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 9 | 1.91 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 9 | 1.91 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 9 | 1.91 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 9 | 1.91 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 9 | 1.91 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 9 | 1.91 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 3 | 1.91 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 3 | 1.91 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 2 | 1.91 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 7 | 1.91 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 9 | 1.91 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 9 | 1.91 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 9 | 1.91 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 17 | 1.91 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 17 | 1.91 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 17 | 1.91 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 16 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 16 | 1.91 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 16 | 1.91 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 13 | 1.91 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 13 | 1.91 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 13 | 1.91 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 15 | 1.91 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 15 | 1.91 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 18 | 1.91 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 1 | 1.91 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 1 | 1.91 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 1 | 1.91 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 10 | 1.91 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 10 | 1.91 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 10 | 1.91 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 1.91 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 15 | 1.91 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 15 | 1.91 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 15 | 1.91 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 15 | 1.91 |
| (1,3042) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 1 | 1.91 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 9 | 1.91 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 9 | 1.91 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 10 | 1.91 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 5 | 1.91 |
| (1,2698) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 14 | 1.91 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 2 | 1.91 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 8 | 1.91 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 7 | 1.91 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 7 | 1.91 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 7 | 1.91 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 20 | 1.91 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 20 | 1.91 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 20 | 1.91 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 15 | 1.91 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 15 | 1.91 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 15 | 1.91 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 10 | 1.91 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 8 | 1.91 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 19 | 1.91 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 5 | 1.91 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 2 | 1.91 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 17 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 17 | 1.91 |
| (1,2148) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 17 | 1.91 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 17 | 1.91 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 17 | 1.91 |
| (1,2148) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 17 | 1.91 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 17 | 1.91 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 17 | 1.91 |
| (1,2148) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 17 | 1.91 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 6 | 1.91 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 6 | 1.91 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 6 | 1.91 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 5 | 1.91 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 12 | 1.91 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 12 | 1.91 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 12 | 1.91 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 2 | 1.91 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 19 | 1.91 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 19 | 1.91 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 19 | 1.91 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 19 | 1.91 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 19 | 1.91 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 15 | 1.91 |
| (1,1786) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 19 | 1.91 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 14 | 1.91 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 14 | 1.91 |
| (1,1731) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 10 | 1.91 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 16 | 1.91 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 19 | 1.91 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 19 | 1.91 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 19 | 1.91 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 19 | 1.91 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 2 | 1.91 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 2 | 1.91 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 2 | 1.91 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 2 | 1.91 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 2 | 1.91 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 2 | 1.91 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 2 | 1.91 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 2 | 1.91 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 2 | 1.91 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 17 | 1.91 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 6 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 10 | 1.91 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 15 | 1.91 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 16 | 1.91 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 16 | 1.91 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 16 | 1.91 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 14 | 1.91 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 14 | 1.91 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 14 | 1.91 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 3 | 1.91 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 6 | 1.91 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 1.91 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 15 | 1.91 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 10 | 1.91 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 10 | 1.91 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 1 | 1.91 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 1 | 1.91 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 15 | 1.91 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 15 | 1.91 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 15 | 1.91 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 10 | 1.91 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 4 | 1.91 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 7 | 1.91 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 7 | 1.91 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 7 | 1.91 |
| (1,569) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 18 | 1.91 |
| (1,569) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 18 | 1.91 |
| (1,569) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 18 | 1.91 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 16 | 1.91 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 16 | 1.91 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 16 | 1.91 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 16 | 1.91 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 16 | 1.91 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 16 | 1.91 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 12 | 1.91 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 12 | 1.91 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 12 | 1.91 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 16 | 1.91 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 15 | 1.91 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 3 | 1.91 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 3 | 1.91 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 3 | 1.91 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 12 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 13 | 1.91 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 20 | 1.91 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 20 | 1.91 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 12 | 1.91 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 12 | 1.91 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 2 | 1.91 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 2 | 1.91 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 2 | 1.91 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 2 | 1.91 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 2 | 1.91 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 18 | 1.91 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 6 | 1.91 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 6 | 1.91 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 15 | 1.9 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 15 | 1.9 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 6 | 1.9 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 17 | 1.9 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 16 | 1.9 |
| (1,9552) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 16 | 1.9 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 16 | 1.9 |
| (1,9552) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 16 | 1.9 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 16 | 1.9 |
| (1,9552) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 16 | 1.9 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 18 | 1.9 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 18 | 1.9 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 9 | 1.9 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 9 | 1.9 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 5 | 1.9 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 5 | 1.9 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 5 | 1.9 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 5 | 1.9 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 4 | 1.9 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 4 | 1.9 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 18 | 1.9 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 18 | 1.9 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 20 | 1.9 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 20 | 1.9 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 5 | 1.9 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 5 | 1.9 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 5 | 1.9 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 5 | 1.9 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 5 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 5 | 1.9 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 18 | 1.9 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 18 | 1.9 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 18 | 1.9 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 18 | 1.9 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 18 | 1.9 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 18 | 1.9 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 4 | 1.9 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 4 | 1.9 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 12 | 1.9 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 12 | 1.9 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 5 | 1.9 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 5 | 1.9 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 14 | 1.9 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 14 | 1.9 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 17 | 1.9 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 17 | 1.9 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 17 | 1.9 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 17 | 1.9 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 17 | 1.9 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 17 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 1.9 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 1.9 |
| (1,8728) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 1 | 1.9 |
| (1,8728) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 1 | 1.9 |
| (1,8712) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 14 | 1.9 |
| (1,8712) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 14 | 1.9 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 7 | 1.9 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 7 | 1.9 |
| (1,8702) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 7 | 1.9 |
| (1,8702) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 7 | 1.9 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 15 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 15 | 1.9 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 17 | 1.9 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 17 | 1.9 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 17 | 1.9 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 17 | 1.9 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD21 | 6 | 1.9 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD22 | 6 | 1.9 |
| (1,8501) | 1:160:A:LEU:H | 1:160:A:LEU:HD23 | 6 | 1.9 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 10 | 1.9 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 10 | 1.9 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 10 | 1.9 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD11 | 16 | 1.9 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD12 | 16 | 1.9 |
| (1,8499) | 1:159:A:ILE:H | 1:159:A:ILE:HD13 | 16 | 1.9 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 4 | 1.9 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 20 | 1.9 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 6 | 1.9 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 11 | 1.9 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 11 | 1.9 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 11 | 1.9 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 17 | 1.9 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 17 | 1.9 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 17 | 1.9 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 3 | 1.9 |
| (1,7997) | 1:81:A:THR:HB | 1:82:A:LYS:H | 7 | 1.9 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 5 | 1.9 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 5 | 1.9 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 5 | 1.9 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 5 | 1.9 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 5 | 1.9 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 5 | 1.9 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 8 | 1.9 |
| (1,7697) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 10 | 1.9 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 5 | 1.9 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 17 | 1.9 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 17 | 1.9 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 17 | 1.9 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 17 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 8 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 8 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 8 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 8 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 8 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 8 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 8 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 8 | 1.9 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 8 | 1.9 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 5 | 1.9 |
| (1,7469) | 1:12:A:GLU:H | 1:13:A:LYS:H | 20 | 1.9 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 5 | 1.9 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 8 | 1.9 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 8 | 1.9 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 8 | 1.9 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 8 | 1.9 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 8 | 1.9 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 8 | 1.9 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 8 | 1.9 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 8 | 1.9 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 8 | 1.9 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 4 | 1.9 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 12 | 1.9 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 9 | 1.9 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 9 | 1.9 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 9 | 1.9 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 9 | 1.9 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 9 | 1.9 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 9 | 1.9 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 9 | 1.9 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 9 | 1.9 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 9 | 1.9 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 12 | 1.9 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 8 | 1.9 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 8 | 1.9 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 8 | 1.9 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 4 | 1.9 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 4 | 1.9 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 18 | 1.9 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 16 | 1.9 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 16 | 1.9 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 16 | 1.9 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 16 | 1.9 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 16 | 1.9 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 16 | 1.9 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 16 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 16 | 1.9 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 16 | 1.9 |
| (1,5815) | 1:117:A:LYS:H | 1:118:A:ALA:H | 19 | 1.9 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 11 | 1.9 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 11 | 1.9 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 8 | 1.9 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 8 | 1.9 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 8 | 1.9 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 8 | 1.9 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 8 | 1.9 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 8 | 1.9 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 8 | 1.9 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 8 | 1.9 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 8 | 1.9 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 9 | 1.9 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 13 | 1.9 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 18 | 1.9 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 18 | 1.9 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 18 | 1.9 |
| (1,5029) | 1:74:A:ARG:H | 1:75:A:GLN:H | 16 | 1.9 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 3 | 1.9 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 7 | 1.9 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 17 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 6 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 6 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 6 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 6 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 6 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 6 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 6 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 6 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 6 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 10 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 10 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 10 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 10 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 10 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 10 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 10 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 10 | 1.9 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 10 | 1.9 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 19 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 19 | 1.9 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 19 | 1.9 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 1 | 1.9 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 1 | 1.9 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 1 | 1.9 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 1 | 1.9 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 1 | 1.9 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 1 | 1.9 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 1 | 1.9 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 1 | 1.9 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 1 | 1.9 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 17 | 1.9 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 17 | 1.9 |
| (1,4574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 17 | 1.9 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 16 | 1.9 |
| (1,4544) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 16 | 1.9 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 16 | 1.9 |
| (1,4544) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 16 | 1.9 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 16 | 1.9 |
| (1,4544) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 16 | 1.9 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 3 | 1.9 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 3 | 1.9 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 3 | 1.9 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 10 | 1.9 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 10 | 1.9 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 5 | 1.9 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 5 | 1.9 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 20 | 1.9 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 20 | 1.9 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 8 | 1.9 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 8 | 1.9 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 8 | 1.9 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 8 | 1.9 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 8 | 1.9 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 8 | 1.9 |
| (1,4373) | 1:117:A:LYS:HG2 | 1:118:A:ALA:H | 5 | 1.9 |
| (1,4373) | 1:117:A:LYS:HG3 | 1:118:A:ALA:H | 5 | 1.9 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 10 | 1.9 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 10 | 1.9 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 10 | 1.9 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 11 | 1.9 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 11 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 11 | 1.9 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 5 | 1.9 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 5 | 1.9 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 5 | 1.9 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 5 | 1.9 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 5 | 1.9 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 5 | 1.9 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 17 | 1.9 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 6 | 1.9 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 6 | 1.9 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 6 | 1.9 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 6 | 1.9 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 15 | 1.9 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 15 | 1.9 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 15 | 1.9 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 15 | 1.9 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 15 | 1.9 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 15 | 1.9 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 18 | 1.9 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 18 | 1.9 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 18 | 1.9 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 18 | 1.9 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 18 | 1.9 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 18 | 1.9 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 15 | 1.9 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 15 | 1.9 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 15 | 1.9 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 15 | 1.9 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 15 | 1.9 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 15 | 1.9 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 18 | 1.9 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 18 | 1.9 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 18 | 1.9 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 18 | 1.9 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 18 | 1.9 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 18 | 1.9 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 18 | 1.9 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 18 | 1.9 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 18 | 1.9 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 18 | 1.9 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 18 | 1.9 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 18 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 6 | 1.9 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 6 | 1.9 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 6 | 1.9 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 6 | 1.9 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 6 | 1.9 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 6 | 1.9 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 18 | 1.9 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 18 | 1.9 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 18 | 1.9 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 18 | 1.9 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 3 | 1.9 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 3 | 1.9 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 12 | 1.9 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 10 | 1.9 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 10 | 1.9 |
| (1,3820) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 16 | 1.9 |
| (1,3820) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 16 | 1.9 |
| (1,3820) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 16 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 1.9 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 1.9 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 7 | 1.9 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 7 | 1.9 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 7 | 1.9 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 7 | 1.9 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 7 | 1.9 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 7 | 1.9 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 17 | 1.9 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 17 | 1.9 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 17 | 1.9 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 17 | 1.9 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 17 | 1.9 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 17 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 4 | 1.9 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 4 | 1.9 |
| (1,3676) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 14 | 1.9 |
| (1,3676) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 14 | 1.9 |
| (1,3668) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 7 | 1.9 |
| (1,3668) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 7 | 1.9 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 4 | 1.9 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 4 | 1.9 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 4 | 1.9 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 4 | 1.9 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 16 | 1.9 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 16 | 1.9 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 16 | 1.9 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 16 | 1.9 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 16 | 1.9 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 16 | 1.9 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 16 | 1.9 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 1 | 1.9 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 1 | 1.9 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 14 | 1.9 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 14 | 1.9 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 14 | 1.9 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 19 | 1.9 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 19 | 1.9 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 19 | 1.9 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 5 | 1.9 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 1 | 1.9 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 8 | 1.9 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 18 | 1.9 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 7 | 1.9 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 19 | 1.9 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 5 | 1.9 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 5 | 1.9 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 5 | 1.9 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 18 | 1.9 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 18 | 1.9 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 3 | 1.9 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 19 | 1.9 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 2 | 1.9 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 2 | 1.9 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 2 | 1.9 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 14 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 8 | 1.9 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 8 | 1.9 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 8 | 1.9 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 8 | 1.9 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 8 | 1.9 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 8 | 1.9 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 8 | 1.9 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 8 | 1.9 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 8 | 1.9 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 13 | 1.9 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 13 | 1.9 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 13 | 1.9 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 5 | 1.9 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 5 | 1.9 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 5 | 1.9 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 4 | 1.9 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 1.9 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 4 | 1.9 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 3 | 1.9 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 3 | 1.9 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 3 | 1.9 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 11 | 1.9 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 2 | 1.9 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 18 | 1.9 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 18 | 1.9 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 18 | 1.9 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 19 | 1.9 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 9 | 1.9 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 1 | 1.9 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 15 | 1.9 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 15 | 1.9 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 15 | 1.9 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 1.9 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 1.9 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 1.9 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 9 | 1.9 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 9 | 1.9 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 9 | 1.9 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 9 | 1.9 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 9 | 1.9 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 9 | 1.9 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 9 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 9 | 1.9 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 9 | 1.9 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 12 | 1.9 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 15 | 1.9 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 15 | 1.9 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 15 | 1.9 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 7 | 1.9 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 7 | 1.9 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 7 | 1.9 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 3 | 1.9 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 3 | 1.9 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 3 | 1.9 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 13 | 1.9 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 13 | 1.9 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 13 | 1.9 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 1 | 1.9 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 1 | 1.9 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 1 | 1.9 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 20 | 1.9 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 20 | 1.9 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 4 | 1.9 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 12 | 1.9 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 5 | 1.9 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 19 | 1.9 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 19 | 1.9 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 18 | 1.9 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 15 | 1.9 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 15 | 1.9 |
| (1,1178) | 1:117:A:LYS:H | 1:118:A:ALA:H | 19 | 1.9 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 10 | 1.9 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 10 | 1.9 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 10 | 1.9 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 1.9 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 1.9 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 1.9 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 7 | 1.9 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 8 | 1.9 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 17 | 1.9 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 18 | 1.9 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 5 | 1.9 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 5 | 1.9 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 5 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 15 | 1.9 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 15 | 1.9 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 15 | 1.9 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 7 | 1.9 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 7 | 1.9 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 7 | 1.9 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 11 | 1.9 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 11 | 1.9 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 18 | 1.9 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 4 | 1.9 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 4 | 1.9 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 4 | 1.9 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 8 | 1.9 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 8 | 1.9 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 8 | 1.9 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 8 | 1.9 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 8 | 1.9 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 8 | 1.9 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 8 | 1.9 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 8 | 1.9 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 8 | 1.9 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 18 | 1.9 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 5 | 1.9 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 4 | 1.9 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 10 | 1.9 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 14 | 1.9 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 14 | 1.9 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 14 | 1.9 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 14 | 1.9 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 14 | 1.9 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 14 | 1.9 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 17 | 1.9 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 17 | 1.9 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 12 | 1.9 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 12 | 1.9 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 12 | 1.9 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 18 | 1.9 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 18 | 1.9 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 18 | 1.9 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 12 | 1.9 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 14 | 1.9 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 11 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 13 | 1.9 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 8 | 1.9 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 6 | 1.9 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 19 | 1.9 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 19 | 1.9 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 19 | 1.9 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 19 | 1.9 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 19 | 1.9 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 19 | 1.9 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 19 | 1.9 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 19 | 1.9 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 19 | 1.9 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 14 | 1.9 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 14 | 1.9 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 14 | 1.9 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 15 | 1.9 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 15 | 1.9 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 15 | 1.9 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 5 | 1.9 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 13 | 1.9 |
| (4,59) | 1:15:A:MET:CB | 1:117:A:LYS:H | 15 | 1.89 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 13 | 1.89 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 13 | 1.89 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 13 | 1.89 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 13 | 1.89 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 13 | 1.89 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 13 | 1.89 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 13 | 1.89 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 13 | 1.89 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 13 | 1.89 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 19 | 1.89 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 19 | 1.89 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 19 | 1.89 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 19 | 1.89 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 19 | 1.89 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 19 | 1.89 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 8 | 1.89 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 8 | 1.89 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 6 | 1.89 |
| (1,9531) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 6 | 1.89 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 6 | 1.89 |
| (1,9531) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 6 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 6 | 1.89 |
| (1,9531) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 6 | 1.89 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 18 | 1.89 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 18 | 1.89 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 11 | 1.89 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 11 | 1.89 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 16 | 1.89 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 16 | 1.89 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 16 | 1.89 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 16 | 1.89 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 16 | 1.89 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 16 | 1.89 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 17 | 1.89 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 17 | 1.89 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 12 | 1.89 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 12 | 1.89 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 17 | 1.89 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 17 | 1.89 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 17 | 1.89 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 17 | 1.89 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 10 | 1.89 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 10 | 1.89 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB2 | 18 | 1.89 |
| (1,9029) | 1:80:A:ARG:HG3 | 1:84:A:GLU:HB3 | 18 | 1.89 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 11 | 1.89 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 11 | 1.89 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 1 | 1.89 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 1 | 1.89 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 1 | 1.89 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 1 | 1.89 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 1 | 1.89 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 1 | 1.89 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 13 | 1.89 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 13 | 1.89 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 13 | 1.89 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 13 | 1.89 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 13 | 1.89 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 13 | 1.89 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 10 | 1.89 |
| (1,8710) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 10 | 1.89 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 3 | 1.89 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 3 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 20 | 1.89 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 1 | 1.89 |
| (1,8265) | 1:119:A:ARG:HG2 | 1:120:A:GLY:H | 13 | 1.89 |
| (1,8265) | 1:119:A:ARG:HG3 | 1:120:A:GLY:H | 13 | 1.89 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 11 | 1.89 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD11 | 17 | 1.89 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD12 | 17 | 1.89 |
| (1,8025) | 1:86:A:LEU:H | 1:86:A:LEU:HD13 | 17 | 1.89 |
| (1,7782) | 1:57:A:CYS:H | 1:58:A:SER:H | 4 | 1.89 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 1 | 1.89 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 1 | 1.89 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 1 | 1.89 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 1 | 1.89 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 1 | 1.89 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 1 | 1.89 |
| (1,7735) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 16 | 1.89 |
| (1,7735) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 16 | 1.89 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 16 | 1.89 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 11 | 1.89 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 11 | 1.89 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 12 | 1.89 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 19 | 1.89 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 12 | 1.89 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 9 | 1.89 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 9 | 1.89 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 9 | 1.89 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 9 | 1.89 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 9 | 1.89 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 9 | 1.89 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 9 | 1.89 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 9 | 1.89 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 9 | 1.89 |
| (1,6895) | 1:29:A:THR:H | 1:30:A:ASN:H | 7 | 1.89 |
| (1,6867) | 1:28:A:ILE:H | 1:30:A:ASN:H | 9 | 1.89 |
| (1,6582) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 4 | 1.89 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 1.89 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 1.89 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 1.89 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 13 | 1.89 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 13 | 1.89 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 13 | 1.89 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 13 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 13 | 1.89 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 13 | 1.89 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 13 | 1.89 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 13 | 1.89 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 13 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 1 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 1 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 1 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 1 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 1 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 1 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 1 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 1 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 1 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 12 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 12 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 12 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 12 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 12 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 12 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 12 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 12 | 1.89 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 12 | 1.89 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 8 | 1.89 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 13 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 17 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 17 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 17 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 17 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 17 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 17 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 17 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 17 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 17 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 18 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 18 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 18 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 18 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 18 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 18 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 18 | 1.89 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 18 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 18 | 1.89 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 18 | 1.89 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 18 | 1.89 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 18 | 1.89 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 18 | 1.89 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 18 | 1.89 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 18 | 1.89 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 18 | 1.89 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 18 | 1.89 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 18 | 1.89 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 18 | 1.89 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 18 | 1.89 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 18 | 1.89 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 4 | 1.89 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 4 | 1.89 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 4 | 1.89 |
| (1,6013) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 19 | 1.89 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 4 | 1.89 |
| (1,5996) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 5 | 1.89 |
| (1,5877) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 7 | 1.89 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 11 | 1.89 |
| (1,5864) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 11 | 1.89 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 11 | 1.89 |
| (1,5864) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 11 | 1.89 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 11 | 1.89 |
| (1,5864) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 11 | 1.89 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 20 | 1.89 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 5 | 1.89 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 3 | 1.89 |
| (1,5594) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 3 | 1.89 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 9 | 1.89 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 14 | 1.89 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 14 | 1.89 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 14 | 1.89 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 15 | 1.89 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 11 | 1.89 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 11 | 1.89 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 11 | 1.89 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 11 | 1.89 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 11 | 1.89 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 11 | 1.89 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 11 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 11 | 1.89 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 11 | 1.89 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 10 | 1.89 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 10 | 1.89 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 10 | 1.89 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 10 | 1.89 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 10 | 1.89 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 10 | 1.89 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 6 | 1.89 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 6 | 1.89 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 6 | 1.89 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 6 | 1.89 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 6 | 1.89 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 6 | 1.89 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 6 | 1.89 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 6 | 1.89 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 6 | 1.89 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 18 | 1.89 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 18 | 1.89 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 18 | 1.89 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 18 | 1.89 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 18 | 1.89 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 18 | 1.89 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 18 | 1.89 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 18 | 1.89 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 18 | 1.89 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 18 | 1.89 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 19 | 1.89 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 5 | 1.89 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 5 | 1.89 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 12 | 1.89 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 12 | 1.89 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 6 | 1.89 |
| (1,4524) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 6 | 1.89 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 6 | 1.89 |
| (1,4524) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 6 | 1.89 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 6 | 1.89 |
| (1,4524) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 6 | 1.89 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 6 | 1.89 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 6 | 1.89 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 6 | 1.89 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 14 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 14 | 1.89 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 14 | 1.89 |
| (1,4483) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 7 | 1.89 |
| (1,4483) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 7 | 1.89 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 8 | 1.89 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 9 | 1.89 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 11 | 1.89 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 4 | 1.89 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 4 | 1.89 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 4 | 1.89 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 10 | 1.89 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 10 | 1.89 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 10 | 1.89 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 1 | 1.89 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 1 | 1.89 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 1 | 1.89 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 12 | 1.89 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 12 | 1.89 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 14 | 1.89 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 14 | 1.89 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 14 | 1.89 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 2 | 1.89 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 2 | 1.89 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 8 | 1.89 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 8 | 1.89 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 16 | 1.89 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 16 | 1.89 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 16 | 1.89 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 16 | 1.89 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 16 | 1.89 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 16 | 1.89 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 10 | 1.89 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 10 | 1.89 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 10 | 1.89 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 10 | 1.89 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 10 | 1.89 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 10 | 1.89 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 19 | 1.89 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 19 | 1.89 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 15 | 1.89 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 15 | 1.89 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 15 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 15 | 1.89 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 15 | 1.89 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 15 | 1.89 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 2 | 1.89 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 2 | 1.89 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 2 | 1.89 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 2 | 1.89 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 2 | 1.89 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 2 | 1.89 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 11 | 1.89 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 11 | 1.89 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 13 | 1.89 |
| (1,3775) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 13 | 1.89 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 18 | 1.89 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 18 | 1.89 |
| (1,3730) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 10 | 1.89 |
| (1,3730) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 10 | 1.89 |
| (1,3730) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 10 | 1.89 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 1 | 1.89 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 1 | 1.89 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 1 | 1.89 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 1 | 1.89 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 1 | 1.89 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 1 | 1.89 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 16 | 1.89 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 16 | 1.89 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 16 | 1.89 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 16 | 1.89 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 16 | 1.89 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 16 | 1.89 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 1 | 1.89 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 1 | 1.89 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 15 | 1.89 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 15 | 1.89 |
| (1,3584) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 7 | 1.89 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 11 | 1.89 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 11 | 1.89 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 11 | 1.89 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 11 | 1.89 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 11 | 1.89 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 11 | 1.89 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 20 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 20 | 1.89 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 20 | 1.89 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 20 | 1.89 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 20 | 1.89 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 20 | 1.89 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 15 | 1.89 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 9 | 1.89 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 9 | 1.89 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 9 | 1.89 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 9 | 1.89 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 9 | 1.89 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 9 | 1.89 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 9 | 1.89 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 9 | 1.89 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 9 | 1.89 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 5 | 1.89 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 5 | 1.89 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 5 | 1.89 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 10 | 1.89 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 14 | 1.89 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 13 | 1.89 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 10 | 1.89 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 10 | 1.89 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 10 | 1.89 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 4 | 1.89 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 15 | 1.89 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 12 | 1.89 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 16 | 1.89 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 1 | 1.89 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 16 | 1.89 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 20 | 1.89 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 16 | 1.89 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 17 | 1.89 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 3 | 1.89 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 3 | 1.89 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 3 | 1.89 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 8 | 1.89 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 9 | 1.89 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 1 | 1.89 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 8 | 1.89 |
| (1,2813) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 12 | 1.89 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 10 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 15 | 1.89 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 1 | 1.89 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 4 | 1.89 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 15 | 1.89 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 15 | 1.89 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 15 | 1.89 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 20 | 1.89 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 20 | 1.89 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 20 | 1.89 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 20 | 1.89 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 20 | 1.89 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 20 | 1.89 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 20 | 1.89 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 3 | 1.89 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 2 | 1.89 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 19 | 1.89 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 19 | 1.89 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 19 | 1.89 |
| (1,2198) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 15 | 1.89 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 14 | 1.89 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 7 | 1.89 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 7 | 1.89 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 7 | 1.89 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 13 | 1.89 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 13 | 1.89 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 13 | 1.89 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 13 | 1.89 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 13 | 1.89 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 13 | 1.89 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 13 | 1.89 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 13 | 1.89 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 13 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 1 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 1 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 1 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 1 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 1 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 1 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 1 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 1 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 1 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 12 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 12 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 12 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 12 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 12 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 12 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 12 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 12 | 1.89 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 12 | 1.89 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 8 | 1.89 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 1 | 1.89 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 11 | 1.89 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 16 | 1.89 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 19 | 1.89 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 19 | 1.89 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 19 | 1.89 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 16 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 17 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 17 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 17 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 17 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 17 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 17 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 17 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 17 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 17 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 18 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 18 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 18 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 18 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 18 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 18 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 18 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 18 | 1.89 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 18 | 1.89 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 18 | 1.89 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 18 | 1.89 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 18 | 1.89 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 18 | 1.89 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 18 | 1.89 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 18 | 1.89 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 18 | 1.89 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 18 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 18 | 1.89 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 4 | 1.89 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 4 | 1.89 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 4 | 1.89 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 1 | 1.89 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 1 | 1.89 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 1 | 1.89 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 4 | 1.89 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 4 | 1.89 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 4 | 1.89 |
| (1,1522) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 19 | 1.89 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 7 | 1.89 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 16 | 1.89 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 16 | 1.89 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 16 | 1.89 |
| (1,1490) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 5 | 1.89 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 9 | 1.89 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 8 | 1.89 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 16 | 1.89 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 11 | 1.89 |
| (1,1266) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 11 | 1.89 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 11 | 1.89 |
| (1,1266) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 11 | 1.89 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 11 | 1.89 |
| (1,1266) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 11 | 1.89 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 12 | 1.89 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 12 | 1.89 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 12 | 1.89 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 17 | 1.89 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 17 | 1.89 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 9 | 1.89 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 9 | 1.89 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 9 | 1.89 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 13 | 1.89 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 13 | 1.89 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 13 | 1.89 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 2 | 1.89 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 20 | 1.89 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 11 | 1.89 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 11 | 1.89 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 11 | 1.89 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 18 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 18 | 1.89 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 18 | 1.89 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 16 | 1.89 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 16 | 1.89 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 16 | 1.89 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 7 | 1.89 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 10 | 1.89 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 10 | 1.89 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 10 | 1.89 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 3 | 1.89 |
| (1,774) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 3 | 1.89 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 5 | 1.89 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 2 | 1.89 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 2 | 1.89 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 2 | 1.89 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 6 | 1.89 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 15 | 1.89 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 19 | 1.89 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 5 | 1.89 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 5 | 1.89 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 5 | 1.89 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 5 | 1.89 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 5 | 1.89 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 5 | 1.89 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 15 | 1.89 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 15 | 1.89 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 8 | 1.89 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 1 | 1.89 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 1 | 1.89 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 1 | 1.89 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 1 | 1.89 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 4 | 1.89 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 4 | 1.89 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 4 | 1.89 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 10 | 1.89 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 18 | 1.89 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 13 | 1.89 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 6 | 1.89 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 20 | 1.89 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 19 | 1.89 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 19 | 1.89 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 19 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 18 | 1.89 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 19 | 1.89 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 13 | 1.89 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 10 | 1.89 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 10 | 1.89 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 10 | 1.89 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 10 | 1.89 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 10 | 1.89 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 10 | 1.89 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 6 | 1.89 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 6 | 1.89 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 6 | 1.89 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 6 | 1.89 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 17 | 1.88 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 8 | 1.88 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 20 | 1.88 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 20 | 1.88 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 1 | 1.88 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 1 | 1.88 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 1 | 1.88 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 1 | 1.88 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 2 | 1.88 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 2 | 1.88 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 1 | 1.88 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 1 | 1.88 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 3 | 1.88 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 3 | 1.88 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 7 | 1.88 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 7 | 1.88 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 13 | 1.88 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 13 | 1.88 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 13 | 1.88 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 13 | 1.88 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 13 | 1.88 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 13 | 1.88 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 13 | 1.88 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 13 | 1.88 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 1.88 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 1.88 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 1.88 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 1.88 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 1.88 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 6 | 1.88 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 6 | 1.88 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 13 | 1.88 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 13 | 1.88 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 1 | 1.88 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 1 | 1.88 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 5 | 1.88 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 5 | 1.88 |
| (1,9136) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 5 | 1.88 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 5 | 1.88 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 5 | 1.88 |
| (1,9136) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 5 | 1.88 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 16 | 1.88 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 16 | 1.88 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 16 | 1.88 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 16 | 1.88 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 16 | 1.88 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 16 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 1.88 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 12 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 12 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 12 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 12 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 12 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 12 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 16 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 16 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 16 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 16 | 1.88 |
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 16 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8827) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 16 | 1.88 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 4 | 1.88 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 4 | 1.88 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 7 | 1.88 |
| (1,8633) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 7 | 1.88 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 15 | 1.88 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 15 | 1.88 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG21 | 20 | 1.88 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG22 | 20 | 1.88 |
| (1,8487) | 1:156:A:ILE:H | 1:156:A:ILE:HG23 | 20 | 1.88 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 3 | 1.88 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 7 | 1.88 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 8 | 1.88 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 13 | 1.88 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 8 | 1.88 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 1 | 1.88 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 1 | 1.88 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 1 | 1.88 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 9 | 1.88 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 7 | 1.88 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 7 | 1.88 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 7 | 1.88 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 7 | 1.88 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 7 | 1.88 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 7 | 1.88 |
| (1,7735) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 9 | 1.88 |
| (1,7735) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 9 | 1.88 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 14 | 1.88 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 14 | 1.88 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 14 | 1.88 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 14 | 1.88 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 18 | 1.88 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 13 | 1.88 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 13 | 1.88 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 13 | 1.88 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 13 | 1.88 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 13 | 1.88 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 13 | 1.88 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 13 | 1.88 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 13 | 1.88 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 13 | 1.88 |
| (1,7551) | 1:21:A:ARG:HD2 | 1:22:A:VAL:H | 6 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7551) | 1:21:A:ARG:HD3 | 1:22:A:VAL:H | 6 | 1.88 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 7 | 1.88 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 17 | 1.88 |
| (1,7357) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 17 | 1.88 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 15 | 1.88 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 4 | 1.88 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 9 | 1.88 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 9 | 1.88 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 9 | 1.88 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 9 | 1.88 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 9 | 1.88 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 9 | 1.88 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 9 | 1.88 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 9 | 1.88 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 9 | 1.88 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 12 | 1.88 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 12 | 1.88 |
| (1,7083) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 17 | 1.88 |
| (1,7083) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 17 | 1.88 |
| (1,7083) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 17 | 1.88 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 11 | 1.88 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 6 | 1.88 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 15 | 1.88 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 18 | 1.88 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 18 | 1.88 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 18 | 1.88 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 3 | 1.88 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 3 | 1.88 |
| (1,6748) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 3 | 1.88 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 3 | 1.88 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 3 | 1.88 |
| (1,6748) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 3 | 1.88 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 3 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 3 | 1.88 |
| (1,6748) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 3 | 1.88 |
| (1,6606) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 10 | 1.88 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 20 | 1.88 |
| (1,6508) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 12 | 1.88 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 8 | 1.88 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 8 | 1.88 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 8 | 1.88 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 8 | 1.88 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 8 | 1.88 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 8 | 1.88 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 8 | 1.88 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 8 | 1.88 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 8 | 1.88 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 5 | 1.88 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 5 | 1.88 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 5 | 1.88 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 5 | 1.88 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 5 | 1.88 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 5 | 1.88 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 5 | 1.88 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 5 | 1.88 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 5 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 7 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 7 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 7 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 7 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 7 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 7 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 7 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 7 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 7 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 11 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 11 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 11 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 11 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 11 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 11 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 11 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 11 | 1.88 |
| (1,6367) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 11 | 1.88 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 17 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 6 | 1.88 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 6 | 1.88 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 6 | 1.88 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 6 | 1.88 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 6 | 1.88 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 6 | 1.88 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 6 | 1.88 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 6 | 1.88 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 6 | 1.88 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 5 | 1.88 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 5 | 1.88 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 5 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 7 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 7 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 7 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 7 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 7 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 7 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 7 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 7 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 7 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 19 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 19 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 19 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 19 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 19 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 19 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 19 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 19 | 1.88 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 19 | 1.88 |
| (1,5746) | 1:109:A:GLN:H | 1:110:A:PHE:H | 1 | 1.88 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 2 | 1.88 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 2 | 1.88 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 2 | 1.88 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 2 | 1.88 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 2 | 1.88 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 2 | 1.88 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 2 | 1.88 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 2 | 1.88 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 2 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 4 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 4 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 4 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 4 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 4 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 4 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 4 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 4 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 4 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 18 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 18 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 18 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 18 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 18 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 18 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 18 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 18 | 1.88 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 18 | 1.88 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 8 | 1.88 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 11 | 1.88 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 4 | 1.88 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 4 | 1.88 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 4 | 1.88 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 4 | 1.88 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 4 | 1.88 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 4 | 1.88 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 4 | 1.88 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 4 | 1.88 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 4 | 1.88 |
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 17 | 1.88 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 1 | 1.88 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 1 | 1.88 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 1 | 1.88 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 1 | 1.88 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 1 | 1.88 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 1 | 1.88 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 1 | 1.88 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 1 | 1.88 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 1 | 1.88 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 6 | 1.88 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 6 | 1.88 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 6 | 1.88 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 16 | 1.88 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 16 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 16 | 1.88 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 8 | 1.88 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 8 | 1.88 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 8 | 1.88 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 8 | 1.88 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 8 | 1.88 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 8 | 1.88 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 8 | 1.88 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 8 | 1.88 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 8 | 1.88 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 12 | 1.88 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 12 | 1.88 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 12 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 16 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 16 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 16 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 16 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 16 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 16 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 18 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 18 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 18 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 18 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 18 | 1.88 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 18 | 1.88 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 15 | 1.88 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 13 | 1.88 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 13 | 1.88 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 5 | 1.88 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 5 | 1.88 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 3 | 1.88 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 3 | 1.88 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 3 | 1.88 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 8 | 1.88 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 8 | 1.88 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 8 | 1.88 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 13 | 1.88 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 13 | 1.88 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 13 | 1.88 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 13 | 1.88 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 13 | 1.88 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 13 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 1.88 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 1.88 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 1.88 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 1.88 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 1.88 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 1.88 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 13 | 1.88 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 13 | 1.88 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 3 | 1.88 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 3 | 1.88 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 3 | 1.88 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 3 | 1.88 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 3 | 1.88 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 3 | 1.88 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 8 | 1.88 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 8 | 1.88 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 8 | 1.88 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 5 | 1.88 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 5 | 1.88 |
| (1,4104) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 5 | 1.88 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 5 | 1.88 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 5 | 1.88 |
| (1,4104) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 5 | 1.88 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 4 | 1.88 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 4 | 1.88 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 4 | 1.88 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 5 | 1.88 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 5 | 1.88 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 5 | 1.88 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 1 | 1.88 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 1 | 1.88 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 1 | 1.88 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 4 | 1.88 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 17 | 1.88 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 17 | 1.88 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 17 | 1.88 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 17 | 1.88 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 11 | 1.88 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 11 | 1.88 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 11 | 1.88 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 11 | 1.88 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 11 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 11 | 1.88 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 16 | 1.88 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 16 | 1.88 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 16 | 1.88 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 16 | 1.88 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 16 | 1.88 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 16 | 1.88 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 17 | 1.88 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 17 | 1.88 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 17 | 1.88 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 17 | 1.88 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 17 | 1.88 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 17 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 1.88 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 12 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 12 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 12 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 12 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 12 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 12 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 16 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 16 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 16 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 16 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 16 | 1.88 |
| (1,3790) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 16 | 1.88 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 4 | 1.88 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 4 | 1.88 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 4 | 1.88 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 7 | 1.88 |
| (1,3582) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 7 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 11 | 1.88 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 1.88 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 11 | 1.88 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 7 | 1.88 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 7 | 1.88 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 7 | 1.88 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 7 | 1.88 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 15 | 1.88 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 15 | 1.88 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 9 | 1.88 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 9 | 1.88 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 4 | 1.88 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 4 | 1.88 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 4 | 1.88 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 4 | 1.88 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 4 | 1.88 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 4 | 1.88 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 4 | 1.88 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 4 | 1.88 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 4 | 1.88 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 9 | 1.88 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 9 | 1.88 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 9 | 1.88 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 9 | 1.88 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 9 | 1.88 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 9 | 1.88 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 9 | 1.88 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 9 | 1.88 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 9 | 1.88 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 19 | 1.88 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 19 | 1.88 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 2 | 1.88 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 2 | 1.88 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 7 | 1.88 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 7 | 1.88 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 15 | 1.88 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 10 | 1.88 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 1 | 1.88 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 1 | 1.88 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 7 | 1.88 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 3 | 1.88 |
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 3 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2686) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 3 | 1.88 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 3 | 1.88 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 3 | 1.88 |
| (1,2686) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 3 | 1.88 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 3 | 1.88 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 3 | 1.88 |
| (1,2686) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 3 | 1.88 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 18 | 1.88 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 18 | 1.88 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 18 | 1.88 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 18 | 1.88 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 18 | 1.88 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 18 | 1.88 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 18 | 1.88 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 18 | 1.88 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 18 | 1.88 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 11 | 1.88 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 15 | 1.88 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 9 | 1.88 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 1.88 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 9 | 1.88 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 11 | 1.88 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 11 | 1.88 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 11 | 1.88 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 11 | 1.88 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 11 | 1.88 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 11 | 1.88 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 15 | 1.88 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 1 | 1.88 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 9 | 1.88 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 20 | 1.88 |
| (1,2347) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 12 | 1.88 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 8 | 1.88 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 8 | 1.88 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 8 | 1.88 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 8 | 1.88 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 8 | 1.88 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 8 | 1.88 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 8 | 1.88 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 8 | 1.88 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 8 | 1.88 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 4 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 4 | 1.88 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 4 | 1.88 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 13 | 1.88 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 1.88 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 1.88 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 1.88 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 8 | 1.88 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 8 | 1.88 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 8 | 1.88 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 5 | 1.88 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 5 | 1.88 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 5 | 1.88 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 5 | 1.88 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 5 | 1.88 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 5 | 1.88 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 5 | 1.88 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 5 | 1.88 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 5 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 7 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 7 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 7 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 7 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 7 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 7 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 7 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 7 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 7 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 11 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 11 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 11 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 11 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 11 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 11 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 11 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 11 | 1.88 |
| (1,2052) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 11 | 1.88 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 17 | 1.88 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 6 | 1.88 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 6 | 1.88 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 6 | 1.88 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 6 | 1.88 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 6 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 6 | 1.88 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 6 | 1.88 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 6 | 1.88 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 6 | 1.88 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 6 | 1.88 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 6 | 1.88 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 6 | 1.88 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 14 | 1.88 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 17 | 1.88 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 1 | 1.88 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 1 | 1.88 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 19 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 7 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 7 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 7 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 7 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 7 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 7 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 7 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 7 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 7 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 19 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 19 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 19 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 19 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 19 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 19 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 19 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 19 | 1.88 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 19 | 1.88 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 6 | 1.88 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 6 | 1.88 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 6 | 1.88 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 1 | 1.88 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 1 | 1.88 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 1 | 1.88 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 14 | 1.88 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 14 | 1.88 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 14 | 1.88 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 19 | 1.88 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 6 | 1.88 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 3 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 10 | 1.88 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 1.88 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 7 | 1.88 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 7 | 1.88 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 7 | 1.88 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 11 | 1.88 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 11 | 1.88 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 18 | 1.88 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 18 | 1.88 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 18 | 1.88 |
| (1,1048) | 1:109:A:GLN:H | 1:110:A:PHE:H | 1 | 1.88 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 14 | 1.88 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 14 | 1.88 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 14 | 1.88 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 19 | 1.88 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 20 | 1.88 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 20 | 1.88 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 20 | 1.88 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 1 | 1.88 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 12 | 1.88 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 17 | 1.88 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 8 | 1.88 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 8 | 1.88 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 10 | 1.88 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 7 | 1.88 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 7 | 1.88 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 7 | 1.88 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 2 | 1.88 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 2 | 1.88 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 2 | 1.88 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 2 | 1.88 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 2 | 1.88 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 2 | 1.88 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 2 | 1.88 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 2 | 1.88 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 2 | 1.88 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 2 | 1.88 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 5 | 1.88 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 5 | 1.88 |
| (1,539) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 5 | 1.88 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 7 | 1.88 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 7 | 1.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 7 | 1.88 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 7 | 1.88 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 7 | 1.88 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 7 | 1.88 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 13 | 1.88 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 13 | 1.88 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 13 | 1.88 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 20 | 1.88 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 20 | 1.88 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 20 | 1.88 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 9 | 1.88 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 16 | 1.88 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 13 | 1.88 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 10 | 1.88 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 10 | 1.88 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 10 | 1.88 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 20 | 1.88 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 20 | 1.88 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 20 | 1.88 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 13 | 1.88 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 13 | 1.88 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 1 | 1.88 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 1 | 1.88 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 1 | 1.88 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 13 | 1.88 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 3 | 1.88 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 3 | 1.88 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 3 | 1.88 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 6 | 1.88 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 9 | 1.88 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 16 | 1.88 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 16 | 1.88 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 16 | 1.88 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 18 | 1.88 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 18 | 1.88 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 7 | 1.88 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 7 | 1.88 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 7 | 1.88 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 5 | 1.87 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 2 | 1.87 |
| (4,150) | 1:98:A:SER:CB | 1:11:A:TRP:H | 9 | 1.87 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 16 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 16 | 1.87 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 16 | 1.87 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 14 | 1.87 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 14 | 1.87 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 14 | 1.87 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 14 | 1.87 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 14 | 1.87 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 14 | 1.87 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 17 | 1.87 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 17 | 1.87 |
| (1,9576) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 17 | 1.87 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 17 | 1.87 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 17 | 1.87 |
| (1,9576) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 17 | 1.87 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 12 | 1.87 |
| (1,9550) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 12 | 1.87 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 12 | 1.87 |
| (1,9550) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 12 | 1.87 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 12 | 1.87 |
| (1,9550) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 12 | 1.87 |
| (1,9497) | 1:134:A:PHE:HB2 | 1:135:A:GLU:H | 4 | 1.87 |
| (1,9497) | 1:134:A:PHE:HB3 | 1:135:A:GLU:H | 4 | 1.87 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 8 | 1.87 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 8 | 1.87 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 1 | 1.87 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 1 | 1.87 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 1 | 1.87 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 1 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 2 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 2 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 3 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 3 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 9 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 9 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 14 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 14 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 19 | 1.87 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 19 | 1.87 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 5 | 1.87 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 5 | 1.87 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 7 | 1.87 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 7 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8828) | 1:59:A:HIS:HB2 | 1:158:A:ILE:H | 2 | 1.87 |
| (1,8828) | 1:59:A:HIS:HB3 | 1:158:A:ILE:H | 2 | 1.87 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 7 | 1.87 |
| (1,8766) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 7 | 1.87 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 10 | 1.87 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 10 | 1.87 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 10 | 1.87 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 10 | 1.87 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 10 | 1.87 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 10 | 1.87 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD2 | 12 | 1.87 |
| (1,8659) | 1:36:A:ARG:H | 1:36:A:ARG:HD3 | 12 | 1.87 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD2 | 2 | 1.87 |
| (1,8645) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HD3 | 2 | 1.87 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 6 | 1.87 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 6 | 1.87 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 12 | 1.87 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 12 | 1.87 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD11 | 17 | 1.87 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD12 | 17 | 1.87 |
| (1,8354) | 1:134:A:PHE:HE1 | 1:159:A:ILE:HD13 | 17 | 1.87 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD11 | 17 | 1.87 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD12 | 17 | 1.87 |
| (1,8354) | 1:134:A:PHE:HE2 | 1:159:A:ILE:HD13 | 17 | 1.87 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 11 | 1.87 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 7 | 1.87 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG21 | 9 | 1.87 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG22 | 9 | 1.87 |
| (1,7849) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HG23 | 9 | 1.87 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG21 | 9 | 1.87 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG22 | 9 | 1.87 |
| (1,7849) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HG23 | 9 | 1.87 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG21 | 9 | 1.87 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG22 | 9 | 1.87 |
| (1,7849) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HG23 | 9 | 1.87 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 20 | 1.87 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD11 | 13 | 1.87 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD12 | 13 | 1.87 |
| (1,7801) | 1:60:A:LEU:H | 1:60:A:LEU:HD13 | 13 | 1.87 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE1 | 10 | 1.87 |
| (1,7760) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HE2 | 10 | 1.87 |
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE1 | 10 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7760) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HE2 | 10 | 1.87 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE1 | 10 | 1.87 |
| (1,7760) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HE2 | 10 | 1.87 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 15 | 1.87 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 15 | 1.87 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 15 | 1.87 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 15 | 1.87 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 15 | 1.87 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 15 | 1.87 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 15 | 1.87 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 15 | 1.87 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 15 | 1.87 |
| (1,7620) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 17 | 1.87 |
| (1,7513) | 1:14:A:ARG:HA | 1:14:A:ARG:HD3 | 10 | 1.87 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 7 | 1.87 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 7 | 1.87 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 7 | 1.87 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 7 | 1.87 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 7 | 1.87 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 7 | 1.87 |
| (1,7393) | 1:2:A:ALA:H | 1:3:A:ASP:H | 4 | 1.87 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 18 | 1.87 |
| (1,7275) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 18 | 1.87 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 2 | 1.87 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 2 | 1.87 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 2 | 1.87 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 2 | 1.87 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 2 | 1.87 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 2 | 1.87 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 2 | 1.87 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 2 | 1.87 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 2 | 1.87 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 10 | 1.87 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 8 | 1.87 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 1 | 1.87 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 1 | 1.87 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 7 | 1.87 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 2 | 1.87 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 2 | 1.87 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 2 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 9 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 9 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 9 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 9 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 9 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 9 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 9 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 9 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 9 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 12 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 12 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 12 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 12 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 12 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 12 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 12 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 12 | 1.87 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 12 | 1.87 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 13 | 1.87 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 16 | 1.87 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 12 | 1.87 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 12 | 1.87 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 12 | 1.87 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 16 | 1.87 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 16 | 1.87 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 16 | 1.87 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 5 | 1.87 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 5 | 1.87 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 5 | 1.87 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 5 | 1.87 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 5 | 1.87 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 5 | 1.87 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 5 | 1.87 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 5 | 1.87 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 5 | 1.87 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 12 | 1.87 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 12 | 1.87 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 12 | 1.87 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 12 | 1.87 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 12 | 1.87 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 12 | 1.87 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 12 | 1.87 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 12 | 1.87 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 12 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 11 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 11 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 11 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 11 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 11 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 11 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 11 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 11 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 11 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 16 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 16 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 16 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 16 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 16 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 16 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 16 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 16 | 1.87 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 16 | 1.87 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 20 | 1.87 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 10 | 1.87 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 19 | 1.87 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 17 | 1.87 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 17 | 1.87 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 17 | 1.87 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 18 | 1.87 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 18 | 1.87 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 18 | 1.87 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 18 | 1.87 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 18 | 1.87 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 18 | 1.87 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 18 | 1.87 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 18 | 1.87 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 18 | 1.87 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 15 | 1.87 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 1 | 1.87 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 1 | 1.87 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 1 | 1.87 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 14 | 1.87 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 14 | 1.87 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 14 | 1.87 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 14 | 1.87 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 14 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 14 | 1.87 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 17 | 1.87 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 17 | 1.87 |
| (1,4572) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 17 | 1.87 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 17 | 1.87 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 17 | 1.87 |
| (1,4572) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 17 | 1.87 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 12 | 1.87 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 11 | 1.87 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 11 | 1.87 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 11 | 1.87 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 1.87 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 1.87 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 1.87 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 17 | 1.87 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 17 | 1.87 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 13 | 1.87 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 12 | 1.87 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 11 | 1.87 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 11 | 1.87 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 8 | 1.87 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 8 | 1.87 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 8 | 1.87 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 12 | 1.87 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 12 | 1.87 |
| (1,4364) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 12 | 1.87 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 16 | 1.87 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 11 | 1.87 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 11 | 1.87 |
| (1,4239) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 4 | 1.87 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 6 | 1.87 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 6 | 1.87 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 14 | 1.87 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 14 | 1.87 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 14 | 1.87 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 14 | 1.87 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 14 | 1.87 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 14 | 1.87 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 2 | 1.87 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 2 | 1.87 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 2 | 1.87 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 14 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 14 | 1.87 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 14 | 1.87 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 14 | 1.87 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 14 | 1.87 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 14 | 1.87 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 5 | 1.87 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 5 | 1.87 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 15 | 1.87 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 15 | 1.87 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 15 | 1.87 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 15 | 1.87 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 15 | 1.87 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 20 | 1.87 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 4 | 1.87 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 4 | 1.87 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 4 | 1.87 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 4 | 1.87 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 4 | 1.87 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 4 | 1.87 |
| (1,3829) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 1 | 1.87 |
| (1,3829) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 1 | 1.87 |
| (1,3829) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 1 | 1.87 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 17 | 1.87 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 17 | 1.87 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 17 | 1.87 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 17 | 1.87 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 17 | 1.87 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 17 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 19 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 19 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 19 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 19 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 19 | 1.87 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 19 | 1.87 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 19 | 1.87 |
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 7 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3736) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 7 | 1.87 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 7 | 1.87 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 7 | 1.87 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 7 | 1.87 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 7 | 1.87 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 7 | 1.87 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 7 | 1.87 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 10 | 1.87 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 10 | 1.87 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 10 | 1.87 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 10 | 1.87 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 10 | 1.87 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 10 | 1.87 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 20 | 1.87 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 20 | 1.87 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 9 | 1.87 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 9 | 1.87 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 9 | 1.87 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 9 | 1.87 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 6 | 1.87 |
| (1,3623) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 6 | 1.87 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 6 | 1.87 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 6 | 1.87 |
| (1,3518) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 12 | 1.87 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 12 | 1.87 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 12 | 1.87 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 4 | 1.87 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 2 | 1.87 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 2 | 1.87 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 2 | 1.87 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 2 | 1.87 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 2 | 1.87 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 2 | 1.87 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 2 | 1.87 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 2 | 1.87 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 2 | 1.87 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 1 | 1.87 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 6 | 1.87 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 10 | 1.87 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 12 | 1.87 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 12 | 1.87 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 17 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 17 | 1.87 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 11 | 1.87 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 14 | 1.87 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 14 | 1.87 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 14 | 1.87 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 14 | 1.87 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 14 | 1.87 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 14 | 1.87 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 19 | 1.87 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 18 | 1.87 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 18 | 1.87 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 18 | 1.87 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 1 | 1.87 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 1 | 1.87 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 1 | 1.87 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 18 | 1.87 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 18 | 1.87 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 18 | 1.87 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 9 | 1.87 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 9 | 1.87 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 6 | 1.87 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 10 | 1.87 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 15 | 1.87 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 15 | 1.87 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 15 | 1.87 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 8 | 1.87 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 11 | 1.87 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 11 | 1.87 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 11 | 1.87 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 2 | 1.87 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 3 | 1.87 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 3 | 1.87 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 3 | 1.87 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 19 | 1.87 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 14 | 1.87 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 12 | 1.87 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 14 | 1.87 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 14 | 1.87 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 14 | 1.87 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 1 | 1.87 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 1 | 1.87 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 1 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 18 | 1.87 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 18 | 1.87 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 18 | 1.87 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 6 | 1.87 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 15 | 1.87 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 15 | 1.87 |
| (1,2113) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 15 | 1.87 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 7 | 1.87 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 7 | 1.87 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 7 | 1.87 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 2 | 1.87 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 2 | 1.87 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 2 | 1.87 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 5 | 1.87 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 5 | 1.87 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 5 | 1.87 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 6 | 1.87 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 6 | 1.87 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 6 | 1.87 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 3 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 9 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 9 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 9 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 9 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 9 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 9 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 9 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 9 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 9 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 12 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 12 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 12 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 12 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 12 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 12 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 12 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 12 | 1.87 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 12 | 1.87 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 5 | 1.87 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 5 | 1.87 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 5 | 1.87 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 11 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 11 | 1.87 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 11 | 1.87 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 11 | 1.87 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 11 | 1.87 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 11 | 1.87 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 7 | 1.87 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 7 | 1.87 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 13 | 1.87 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 16 | 1.87 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 11 | 1.87 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 11 | 1.87 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 13 | 1.87 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 13 | 1.87 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 13 | 1.87 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 13 | 1.87 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 13 | 1.87 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 13 | 1.87 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 16 | 1.87 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 11 | 1.87 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 8 | 1.87 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 8 | 1.87 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 15 | 1.87 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 15 | 1.87 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 15 | 1.87 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 6 | 1.87 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 6 | 1.87 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 6 | 1.87 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 17 | 1.87 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 17 | 1.87 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 17 | 1.87 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 6 | 1.87 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 6 | 1.87 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 6 | 1.87 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 11 | 1.87 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 16 | 1.87 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 12 | 1.87 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 12 | 1.87 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 12 | 1.87 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 16 | 1.87 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 16 | 1.87 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 16 | 1.87 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 8 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 8 | 1.87 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 8 | 1.87 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 8 | 1.87 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 8 | 1.87 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 8 | 1.87 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 18 | 1.87 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 18 | 1.87 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 18 | 1.87 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 8 | 1.87 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 7 | 1.87 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 7 | 1.87 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 7 | 1.87 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 13 | 1.87 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 13 | 1.87 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 13 | 1.87 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 11 | 1.87 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 13 | 1.87 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 15 | 1.87 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 15 | 1.87 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 15 | 1.87 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 19 | 1.87 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 19 | 1.87 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 19 | 1.87 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 19 | 1.87 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 19 | 1.87 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 19 | 1.87 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 8 | 1.87 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 8 | 1.87 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 8 | 1.87 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 15 | 1.87 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 15 | 1.87 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 15 | 1.87 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 10 | 1.87 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 10 | 1.87 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 10 | 1.87 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 10 | 1.87 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 10 | 1.87 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 10 | 1.87 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 10 | 1.87 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 10 | 1.87 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 10 | 1.87 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 17 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 17 | 1.87 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 17 | 1.87 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 8 | 1.87 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 8 | 1.87 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 8 | 1.87 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 14 | 1.87 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 14 | 1.87 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 14 | 1.87 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 6 | 1.87 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 3 | 1.87 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 13 | 1.87 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 3 | 1.87 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 1 | 1.87 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 3 | 1.87 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 10 | 1.87 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 5 | 1.87 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 1 | 1.87 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 18 | 1.87 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 8 | 1.87 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 8 | 1.87 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 8 | 1.87 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 20 | 1.87 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 20 | 1.87 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 20 | 1.87 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 1 | 1.87 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 1 | 1.87 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 1 | 1.87 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 15 | 1.87 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 8 | 1.87 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 8 | 1.87 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 8 | 1.87 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 12 | 1.87 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 12 | 1.87 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 12 | 1.87 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 15 | 1.87 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 6 | 1.87 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 8 | 1.87 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 17 | 1.87 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 10 | 1.87 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 10 | 1.87 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 19 | 1.87 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 19 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 19 | 1.87 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 5 | 1.86 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 11 | 1.86 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 7 | 1.86 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 7 | 1.86 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 18 | 1.86 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 18 | 1.86 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 15 | 1.86 |
| (1,9624) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 15 | 1.86 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 2 | 1.86 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 2 | 1.86 |
| (1,9535) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 20 | 1.86 |
| (1,9535) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 20 | 1.86 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 9 | 1.86 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 9 | 1.86 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 9 | 1.86 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 9 | 1.86 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 9 | 1.86 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 9 | 1.86 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 12 | 1.86 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 12 | 1.86 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 6 | 1.86 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 6 | 1.86 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 6 | 1.86 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 6 | 1.86 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 6 | 1.86 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 6 | 1.86 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 15 | 1.86 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 15 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 2 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 2 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 2 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 2 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 2 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 2 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 4 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 4 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 4 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 4 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 4 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 4 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 5 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 5 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 5 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 5 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 5 | 1.86 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 5 | 1.86 |
| (1,9062) | 1:83:A:GLU:HB2 | 1:84:A:GLU:H | 7 | 1.86 |
| (1,9062) | 1:83:A:GLU:HB3 | 1:84:A:GLU:H | 7 | 1.86 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 16 | 1.86 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 16 | 1.86 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 13 | 1.86 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 13 | 1.86 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD11 | 8 | 1.86 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD12 | 8 | 1.86 |
| (1,8944) | 1:72:A:SER:HB2 | 1:78:A:ILE:HD13 | 8 | 1.86 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD11 | 8 | 1.86 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD12 | 8 | 1.86 |
| (1,8944) | 1:72:A:SER:HB3 | 1:78:A:ILE:HD13 | 8 | 1.86 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 15 | 1.86 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 15 | 1.86 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 15 | 1.86 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 15 | 1.86 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 15 | 1.86 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 15 | 1.86 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 1.86 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 1.86 |
| (1,8844) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 1.86 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 1.86 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 1.86 |
| (1,8844) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 5 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 5 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 5 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 5 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 5 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 5 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 17 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 17 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 17 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 17 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 17 | 1.86 |
| (1,8763) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 17 | 1.86 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 20 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 20 | 1.86 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 19 | 1.86 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 19 | 1.86 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 19 | 1.86 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 19 | 1.86 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 1.86 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 1.86 |
| (1,8480) | 1:153:A:ASP:H | 1:154:A:SER:H | 15 | 1.86 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 2 | 1.86 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 5 | 1.86 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 11 | 1.86 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 12 | 1.86 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 15 | 1.86 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 15 | 1.86 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 17 | 1.86 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 17 | 1.86 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 6 | 1.86 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 5 | 1.86 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 5 | 1.86 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 5 | 1.86 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 5 | 1.86 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 5 | 1.86 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 5 | 1.86 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 5 | 1.86 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 5 | 1.86 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 5 | 1.86 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 9 | 1.86 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 20 | 1.86 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 20 | 1.86 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 20 | 1.86 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 20 | 1.86 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 20 | 1.86 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 20 | 1.86 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 12 | 1.86 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 12 | 1.86 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 12 | 1.86 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 18 | 1.86 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 18 | 1.86 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 18 | 1.86 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 5 | 1.86 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 7 | 1.86 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 7 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 7 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 17 | 1.86 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 17 | 1.86 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 20 | 1.86 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 4 | 1.86 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 15 | 1.86 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 7 | 1.86 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 13 | 1.86 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 13 | 1.86 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 13 | 1.86 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 13 | 1.86 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 13 | 1.86 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 13 | 1.86 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 13 | 1.86 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 13 | 1.86 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 13 | 1.86 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 13 | 1.86 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 16 | 1.86 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 19 | 1.86 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 20 | 1.86 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 20 | 1.86 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 20 | 1.86 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 20 | 1.86 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 20 | 1.86 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 20 | 1.86 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 20 | 1.86 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 20 | 1.86 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 20 | 1.86 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 8 | 1.86 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 8 | 1.86 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 8 | 1.86 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 15 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 13 | 1.86 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 13 | 1.86 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 13 | 1.86 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 13 | 1.86 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 13 | 1.86 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 13 | 1.86 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 13 | 1.86 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 13 | 1.86 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 13 | 1.86 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 9 | 1.86 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 9 | 1.86 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 9 | 1.86 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 9 | 1.86 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 9 | 1.86 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 9 | 1.86 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 9 | 1.86 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 9 | 1.86 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 9 | 1.86 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 1 | 1.86 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 1 | 1.86 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 1 | 1.86 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 18 | 1.86 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 18 | 1.86 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 18 | 1.86 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 18 | 1.86 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 18 | 1.86 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 18 | 1.86 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 18 | 1.86 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 18 | 1.86 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 18 | 1.86 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 11 | 1.86 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 17 | 1.86 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 17 | 1.86 |
| (1,4876) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 17 | 1.86 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 17 | 1.86 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 17 | 1.86 |
| (1,4876) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 17 | 1.86 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 17 | 1.86 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 17 | 1.86 |
| (1,4876) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 17 | 1.86 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 5 | 1.86 |
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 15 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4610) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 15 | 1.86 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 10 | 1.86 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 12 | 1.86 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 1.86 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 6 | 1.86 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 6 | 1.86 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 6 | 1.86 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 6 | 1.86 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 6 | 1.86 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 6 | 1.86 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 8 | 1.86 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 8 | 1.86 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 3 | 1.86 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 3 | 1.86 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 13 | 1.86 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 13 | 1.86 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 15 | 1.86 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 15 | 1.86 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 15 | 1.86 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 14 | 1.86 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 14 | 1.86 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 14 | 1.86 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 14 | 1.86 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 14 | 1.86 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 14 | 1.86 |
| (1,4199) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 14 | 1.86 |
| (1,4199) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 14 | 1.86 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 9 | 1.86 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB2 | 2 | 1.86 |
| (1,4123) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HB3 | 2 | 1.86 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB2 | 2 | 1.86 |
| (1,4123) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HB3 | 2 | 1.86 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB2 | 2 | 1.86 |
| (1,4123) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HB3 | 2 | 1.86 |
| (1,4098) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 12 | 1.86 |
| (1,4098) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 12 | 1.86 |
| (1,4098) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 12 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 2 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 2 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 2 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 2 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 2 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 2 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 4 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 4 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 4 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 4 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 4 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 4 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 5 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 5 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 5 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 5 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 5 | 1.86 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 5 | 1.86 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 1 | 1.86 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 5 | 1.86 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 5 | 1.86 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 1 | 1.86 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 1 | 1.86 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 1 | 1.86 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 1 | 1.86 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 11 | 1.86 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 11 | 1.86 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 14 | 1.86 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 14 | 1.86 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 14 | 1.86 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 14 | 1.86 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 14 | 1.86 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 14 | 1.86 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 1.86 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 1.86 |
| (1,3806) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 1.86 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 1.86 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 1.86 |
| (1,3806) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 5 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 5 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 5 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 5 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 5 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 5 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 17 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 17 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 17 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 17 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 17 | 1.86 |
| (1,3728) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 17 | 1.86 |
| (1,3643) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 5 | 1.86 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 3 | 1.86 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 13 | 1.86 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 13 | 1.86 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 13 | 1.86 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 13 | 1.86 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 13 | 1.86 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 13 | 1.86 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 9 | 1.86 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 9 | 1.86 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 1 | 1.86 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 1 | 1.86 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 1 | 1.86 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 1 | 1.86 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 1.86 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 1.86 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 1 | 1.86 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 8 | 1.86 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 8 | 1.86 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 13 | 1.86 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 13 | 1.86 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 11 | 1.86 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 11 | 1.86 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 6 | 1.86 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 6 | 1.86 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 20 | 1.86 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 5 | 1.86 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 10 | 1.86 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 10 | 1.86 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 10 | 1.86 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 14 | 1.86 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 14 | 1.86 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 14 | 1.86 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 17 | 1.86 |
| (1,2754) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 17 | 1.86 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 17 | 1.86 |
| (1,2754) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 17 | 1.86 |
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 17 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2754) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 17 | 1.86 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 5 | 1.86 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 5 | 1.86 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 4 | 1.86 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 14 | 1.86 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 14 | 1.86 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 14 | 1.86 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 9 | 1.86 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 9 | 1.86 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 15 | 1.86 |
| (1,2305) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 8 | 1.86 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 13 | 1.86 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 13 | 1.86 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 13 | 1.86 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 13 | 1.86 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 13 | 1.86 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 13 | 1.86 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 13 | 1.86 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 13 | 1.86 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 13 | 1.86 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 19 | 1.86 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 19 | 1.86 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 19 | 1.86 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 18 | 1.86 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 18 | 1.86 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 18 | 1.86 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 16 | 1.86 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 19 | 1.86 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 17 | 1.86 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 17 | 1.86 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 17 | 1.86 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 20 | 1.86 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 20 | 1.86 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 20 | 1.86 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 20 | 1.86 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 20 | 1.86 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 20 | 1.86 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 20 | 1.86 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 20 | 1.86 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 20 | 1.86 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 11 | 1.86 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 11 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 11 | 1.86 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 11 | 1.86 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 11 | 1.86 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 11 | 1.86 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 11 | 1.86 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 11 | 1.86 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 11 | 1.86 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 6 | 1.86 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 6 | 1.86 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 6 | 1.86 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 7 | 1.86 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 14 | 1.86 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 4 | 1.86 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 4 | 1.86 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 4 | 1.86 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 4 | 1.86 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 4 | 1.86 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 4 | 1.86 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 4 | 1.86 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 4 | 1.86 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 4 | 1.86 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 16 | 1.86 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 16 | 1.86 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 16 | 1.86 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 13 | 1.86 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 13 | 1.86 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 13 | 1.86 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 13 | 1.86 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 13 | 1.86 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 13 | 1.86 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 13 | 1.86 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 13 | 1.86 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 13 | 1.86 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 9 | 1.86 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 9 | 1.86 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 9 | 1.86 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 9 | 1.86 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 9 | 1.86 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 9 | 1.86 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 9 | 1.86 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 9 | 1.86 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 9 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 11 | 1.86 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 11 | 1.86 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 11 | 1.86 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 11 | 1.86 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 11 | 1.86 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 11 | 1.86 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 11 | 1.86 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 11 | 1.86 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 11 | 1.86 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 12 | 1.86 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 1 | 1.86 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 1 | 1.86 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 1 | 1.86 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 1 | 1.86 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 1 | 1.86 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 7 | 1.86 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 7 | 1.86 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 7 | 1.86 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 20 | 1.86 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 20 | 1.86 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 20 | 1.86 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 2 | 1.86 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 7 | 1.86 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 12 | 1.86 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 12 | 1.86 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 12 | 1.86 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 12 | 1.86 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 17 | 1.86 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 2 | 1.86 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 2 | 1.86 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 2 | 1.86 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 10 | 1.86 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 10 | 1.86 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 10 | 1.86 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 8 | 1.86 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 12 | 1.86 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 11 | 1.86 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 11 | 1.86 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 11 | 1.86 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 2 | 1.86 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 2 | 1.86 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 2 | 1.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 12 | 1.86 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 12 | 1.86 |
| (1,751) | 1:98:A:SER:HB2 | 1:99:A:GLY:H | 7 | 1.86 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 9 | 1.86 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 9 | 1.86 |
| (1,741) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 9 | 1.86 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 17 | 1.86 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 17 | 1.86 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 17 | 1.86 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 3 | 1.86 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 19 | 1.86 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 16 | 1.86 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 16 | 1.86 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 16 | 1.86 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 8 | 1.86 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 8 | 1.86 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 8 | 1.86 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 8 | 1.86 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 12 | 1.86 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 13 | 1.86 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 13 | 1.86 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 13 | 1.86 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 7 | 1.86 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 7 | 1.86 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 7 | 1.86 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 20 | 1.86 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 3 | 1.86 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 3 | 1.86 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 3 | 1.86 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 9 | 1.86 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 1 | 1.86 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 1 | 1.86 |
| (4,249) | 1:15:A:MET:CB | 1:143:A:THR:H | 20 | 1.85 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 12 | 1.85 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 9 | 1.85 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 10 | 1.85 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 19 | 1.85 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 16 | 1.85 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 6 | 1.85 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 2 | 1.85 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 2 | 1.85 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 2 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 2 | 1.85 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 13 | 1.85 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 13 | 1.85 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 13 | 1.85 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 13 | 1.85 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 13 | 1.85 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 13 | 1.85 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 13 | 1.85 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 13 | 1.85 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 13 | 1.85 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB2 | 6 | 1.85 |
| (1,9574) | 1:146:A:MET:HB2 | 1:160:A:LEU:HB3 | 6 | 1.85 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB2 | 6 | 1.85 |
| (1,9574) | 1:146:A:MET:HB3 | 1:160:A:LEU:HB3 | 6 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 2 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 2 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 5 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 5 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 6 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 6 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 11 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 11 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 15 | 1.85 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 15 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 2 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 2 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 2 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 2 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 2 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 2 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 12 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 12 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 12 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 12 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 12 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 12 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 17 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 17 | 1.85 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 17 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 17 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 17 | 1.85 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 17 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 7 | 1.85 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 7 | 1.85 |
| (1,9258) | 1:100:A:GLU:HG2 | 1:101:A:GLU:H | 10 | 1.85 |
| (1,9258) | 1:100:A:GLU:HG3 | 1:101:A:GLU:H | 10 | 1.85 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 19 | 1.85 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 19 | 1.85 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD21 | 15 | 1.85 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD22 | 15 | 1.85 |
| (1,9121) | 1:87:A:GLU:HG2 | 1:88:A:LEU:HD23 | 15 | 1.85 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD21 | 15 | 1.85 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD22 | 15 | 1.85 |
| (1,9121) | 1:87:A:GLU:HG3 | 1:88:A:LEU:HD23 | 15 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 12 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 12 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 12 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 12 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 12 | 1.85 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 12 | 1.85 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 18 | 1.85 |
| (1,8860) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 18 | 1.85 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 18 | 1.85 |
| (1,8860) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 18 | 1.85 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 18 | 1.85 |
| (1,8860) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 18 | 1.85 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 9 | 1.85 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 9 | 1.85 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 9 | 1.85 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 9 | 1.85 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 1 | 1.85 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 1 | 1.85 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 1 | 1.85 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 1 | 1.85 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG11 | 4 | 1.85 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG12 | 4 | 1.85 |
| (1,8624) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG13 | 4 | 1.85 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG11 | 4 | 1.85 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG12 | 4 | 1.85 |
| (1,8624) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG13 | 4 | 1.85 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 6 | 1.85 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 4 | 1.85 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 5 | 1.85 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 17 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 7 | 1.85 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 7 | 1.85 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 7 | 1.85 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD21 | 20 | 1.85 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD22 | 20 | 1.85 |
| (1,8273) | 1:122:A:LEU:H | 1:122:A:LEU:HD23 | 20 | 1.85 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 13 | 1.85 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 13 | 1.85 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 13 | 1.85 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 13 | 1.85 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 13 | 1.85 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 13 | 1.85 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 13 | 1.85 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 13 | 1.85 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 13 | 1.85 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 13 | 1.85 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 13 | 1.85 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 13 | 1.85 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 12 | 1.85 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 12 | 1.85 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 12 | 1.85 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 12 | 1.85 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 12 | 1.85 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 12 | 1.85 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 12 | 1.85 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 12 | 1.85 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 12 | 1.85 |
| (1,7877) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 17 | 1.85 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 3 | 1.85 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 3 | 1.85 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 3 | 1.85 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 3 | 1.85 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 2 | 1.85 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 2 | 1.85 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 15 | 1.85 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 15 | 1.85 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 19 | 1.85 |
| (1,7277) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 18 | 1.85 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 16 | 1.85 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 16 | 1.85 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 16 | 1.85 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 16 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 16 | 1.85 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 16 | 1.85 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 16 | 1.85 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 16 | 1.85 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 16 | 1.85 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 9 | 1.85 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 9 | 1.85 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 9 | 1.85 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 4 | 1.85 |
| (1,6532) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 7 | 1.85 |
| (1,6532) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 7 | 1.85 |
| (1,6532) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 7 | 1.85 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 1 | 1.85 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 1 | 1.85 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 1 | 1.85 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 1 | 1.85 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 1 | 1.85 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 10 | 1.85 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 10 | 1.85 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 16 | 1.85 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 16 | 1.85 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 19 | 1.85 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 19 | 1.85 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 3 | 1.85 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 3 | 1.85 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 3 | 1.85 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 3 | 1.85 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 3 | 1.85 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 3 | 1.85 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 18 | 1.85 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 18 | 1.85 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 18 | 1.85 |
| (1,5524) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 13 | 1.85 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 16 | 1.85 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 16 | 1.85 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 16 | 1.85 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 16 | 1.85 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 16 | 1.85 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 16 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 2 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 2 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 2 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 2 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 2 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 2 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 2 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 2 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 2 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 17 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 17 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 17 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 17 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 17 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 17 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 17 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 17 | 1.85 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 17 | 1.85 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 14 | 1.85 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 14 | 1.85 |
| (1,4884) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 14 | 1.85 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 14 | 1.85 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 14 | 1.85 |
| (1,4884) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 14 | 1.85 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 14 | 1.85 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 14 | 1.85 |
| (1,4884) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 14 | 1.85 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 8 | 1.85 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 8 | 1.85 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 8 | 1.85 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 8 | 1.85 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 8 | 1.85 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 8 | 1.85 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 15 | 1.85 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 15 | 1.85 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 15 | 1.85 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 15 | 1.85 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 15 | 1.85 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 15 | 1.85 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 15 | 1.85 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 15 | 1.85 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 15 | 1.85 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 17 | 1.85 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 1 | 1.85 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 15 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 4 | 1.85 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 4 | 1.85 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 4 | 1.85 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 11 | 1.85 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 11 | 1.85 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 11 | 1.85 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 6 | 1.85 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 6 | 1.85 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 6 | 1.85 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 6 | 1.85 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 6 | 1.85 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 6 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 2 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 2 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 2 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 2 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 2 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 2 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 12 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 12 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 12 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 12 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 12 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 12 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 17 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 17 | 1.85 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 17 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 17 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 17 | 1.85 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 17 | 1.85 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 11 | 1.85 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 11 | 1.85 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 11 | 1.85 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 11 | 1.85 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 11 | 1.85 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 11 | 1.85 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 3 | 1.85 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 3 | 1.85 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 3 | 1.85 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 3 | 1.85 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 7 | 1.85 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 7 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 14 | 1.85 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 14 | 1.85 |
| (1,4191) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 14 | 1.85 |
| (1,4191) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 14 | 1.85 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 14 | 1.85 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 20 | 1.85 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 20 | 1.85 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 18 | 1.85 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB2 | 17 | 1.85 |
| (1,4065) | 1:85:A:ALA:H | 1:87:A:GLU:HB3 | 17 | 1.85 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 16 | 1.85 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 16 | 1.85 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 1 | 1.85 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 1 | 1.85 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 1 | 1.85 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 1 | 1.85 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 4 | 1.85 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 14 | 1.85 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 7 | 1.85 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 13 | 1.85 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 13 | 1.85 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 13 | 1.85 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 18 | 1.85 |
| (1,3818) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 18 | 1.85 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 18 | 1.85 |
| (1,3818) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 18 | 1.85 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 18 | 1.85 |
| (1,3818) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 18 | 1.85 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 9 | 1.85 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 9 | 1.85 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 9 | 1.85 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 6 | 1.85 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 6 | 1.85 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 17 | 1.85 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 17 | 1.85 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 16 | 1.85 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 16 | 1.85 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 16 | 1.85 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 16 | 1.85 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 16 | 1.85 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 16 | 1.85 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 16 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 16 | 1.85 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 16 | 1.85 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 13 | 1.85 |
| (1,3447) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 13 | 1.85 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 16 | 1.85 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 16 | 1.85 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 12 | 1.85 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 12 | 1.85 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 12 | 1.85 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 2 | 1.85 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 2 | 1.85 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 2 | 1.85 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 2 | 1.85 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 2 | 1.85 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 1 | 1.85 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 1 | 1.85 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 1 | 1.85 |
| (1,3143) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 1 | 1.85 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 16 | 1.85 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 19 | 1.85 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 18 | 1.85 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 18 | 1.85 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 18 | 1.85 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 17 | 1.85 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 1 | 1.85 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 4 | 1.85 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 4 | 1.85 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 14 | 1.85 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 18 | 1.85 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 4 | 1.85 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 8 | 1.85 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 8 | 1.85 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 8 | 1.85 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 9 | 1.85 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 9 | 1.85 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 9 | 1.85 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 11 | 1.85 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 11 | 1.85 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 11 | 1.85 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 15 | 1.85 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 15 | 1.85 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 16 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 16 | 1.85 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 16 | 1.85 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 16 | 1.85 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 5 | 1.85 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 5 | 1.85 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 5 | 1.85 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 11 | 1.85 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 15 | 1.85 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 3 | 1.85 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 15 | 1.85 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 15 | 1.85 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 15 | 1.85 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 9 | 1.85 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 3 | 1.85 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 8 | 1.85 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 8 | 1.85 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 8 | 1.85 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 16 | 1.85 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 3 | 1.85 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 3 | 1.85 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 3 | 1.85 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 1 | 1.85 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 1 | 1.85 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 10 | 1.85 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 10 | 1.85 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 16 | 1.85 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 16 | 1.85 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 19 | 1.85 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 19 | 1.85 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 5 | 1.85 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 9 | 1.85 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 14 | 1.85 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 10 | 1.85 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 10 | 1.85 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 10 | 1.85 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 6 | 1.85 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 2 | 1.85 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 2 | 1.85 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 2 | 1.85 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 3 | 1.85 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 14 | 1.85 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 14 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 14 | 1.85 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 14 | 1.85 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 14 | 1.85 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 14 | 1.85 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 8 | 1.85 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 8 | 1.85 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 8 | 1.85 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 1.85 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 17 | 1.85 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 17 | 1.85 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 17 | 1.85 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 16 | 1.85 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 16 | 1.85 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 16 | 1.85 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 20 | 1.85 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 20 | 1.85 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 20 | 1.85 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 20 | 1.85 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 20 | 1.85 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 20 | 1.85 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 6 | 1.85 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 7 | 1.85 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 9 | 1.85 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 11 | 1.85 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 14 | 1.85 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 18 | 1.85 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 11 | 1.85 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 11 | 1.85 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 11 | 1.85 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 7 | 1.85 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 18 | 1.85 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 18 | 1.85 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 18 | 1.85 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 11 | 1.85 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 17 | 1.85 |
| (1,679) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 13 | 1.85 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 13 | 1.85 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 17 | 1.85 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 17 | 1.85 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 17 | 1.85 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 19 | 1.85 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 19 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 19 | 1.85 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 19 | 1.85 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 19 | 1.85 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 19 | 1.85 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 8 | 1.85 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 8 | 1.85 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 8 | 1.85 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 16 | 1.85 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 16 | 1.85 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 16 | 1.85 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 5 | 1.85 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 5 | 1.85 |
| (1,498) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 5 | 1.85 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 1 | 1.85 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 13 | 1.85 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 15 | 1.85 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 15 | 1.85 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 15 | 1.85 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 20 | 1.85 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 20 | 1.85 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 20 | 1.85 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 2 | 1.85 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 2 | 1.85 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 2 | 1.85 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 4 | 1.85 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 2 | 1.85 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 7 | 1.85 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 7 | 1.85 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 7 | 1.85 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 19 | 1.85 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 19 | 1.85 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 19 | 1.85 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 15 | 1.85 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 4 | 1.85 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 15 | 1.85 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 7 | 1.85 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 2 | 1.85 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 9 | 1.85 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 9 | 1.85 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 9 | 1.85 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 9 | 1.85 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 9 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 9 | 1.85 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 9 | 1.85 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 9 | 1.85 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 9 | 1.85 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 5 | 1.85 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 5 | 1.85 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 5 | 1.85 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 16 | 1.85 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 16 | 1.85 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 16 | 1.85 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 13 | 1.85 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 4 | 1.85 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 4 | 1.85 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 4 | 1.85 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 4 | 1.85 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 4 | 1.85 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 4 | 1.85 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 3 | 1.85 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 3 | 1.85 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 3 | 1.85 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 3 | 1.85 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 8 | 1.85 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 8 | 1.85 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 5 | 1.84 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 13 | 1.84 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 12 | 1.84 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 12 | 1.84 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 13 | 1.84 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 13 | 1.84 |
| (3,210) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 10 | 1.84 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 19 | 1.84 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 19 | 1.84 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 15 | 1.84 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 15 | 1.84 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 15 | 1.84 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 15 | 1.84 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 15 | 1.84 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 15 | 1.84 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 15 | 1.84 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 15 | 1.84 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 15 | 1.84 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 10 | 1.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 10 | 1.84 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 14 | 1.84 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 14 | 1.84 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD11 | 11 | 1.84 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD12 | 11 | 1.84 |
| (1,9218) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD13 | 11 | 1.84 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD11 | 11 | 1.84 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD12 | 11 | 1.84 |
| (1,9218) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD13 | 11 | 1.84 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG2 | 19 | 1.84 |
| (1,9151) | 1:92:A:TYR:HA | 1:95:A:LYS:HG3 | 19 | 1.84 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 12 | 1.84 |
| (1,9129) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 12 | 1.84 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 12 | 1.84 |
| (1,9129) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 12 | 1.84 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 12 | 1.84 |
| (1,9129) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 12 | 1.84 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 5 | 1.84 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 5 | 1.84 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 5 | 1.84 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 5 | 1.84 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 5 | 1.84 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 5 | 1.84 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 12 | 1.84 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 12 | 1.84 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 12 | 1.84 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 12 | 1.84 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 6 | 1.84 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 6 | 1.84 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 6 | 1.84 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 6 | 1.84 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 6 | 1.84 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 6 | 1.84 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 7 | 1.84 |
| (1,8806) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 7 | 1.84 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 5 | 1.84 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 15 | 1.84 |
| (1,8284) | 1:125:A:PHE:HD1 | 1:126:A:SER:H | 2 | 1.84 |
| (1,8284) | 1:125:A:PHE:HD2 | 1:126:A:SER:H | 2 | 1.84 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 8 | 1.84 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 8 | 1.84 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 8 | 1.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 1 | 1.84 |
| (1,8071) | 1:90:A:ASN:H | 1:90:A:ASN:HD21 | 7 | 1.84 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG21 | 7 | 1.84 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG22 | 7 | 1.84 |
| (1,8057) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG23 | 7 | 1.84 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG21 | 7 | 1.84 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG22 | 7 | 1.84 |
| (1,8057) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG23 | 7 | 1.84 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG21 | 7 | 1.84 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG22 | 7 | 1.84 |
| (1,8057) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG23 | 7 | 1.84 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 3 | 1.84 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 3 | 1.84 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 13 | 1.84 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 13 | 1.84 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 13 | 1.84 |
| (1,7228) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 17 | 1.84 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 7 | 1.84 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 5 | 1.84 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 12 | 1.84 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 17 | 1.84 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 12 | 1.84 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 8 | 1.84 |
| (1,6508) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 20 | 1.84 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 10 | 1.84 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 13 | 1.84 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 13 | 1.84 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 13 | 1.84 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 4 | 1.84 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 4 | 1.84 |
| (1,5687) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 4 | 1.84 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 15 | 1.84 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 15 | 1.84 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 15 | 1.84 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 15 | 1.84 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 15 | 1.84 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 15 | 1.84 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 15 | 1.84 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 15 | 1.84 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 15 | 1.84 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 15 | 1.84 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 15 | 1.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 15 | 1.84 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 15 | 1.84 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 15 | 1.84 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 15 | 1.84 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 15 | 1.84 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 15 | 1.84 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 15 | 1.84 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 5 | 1.84 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 5 | 1.84 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 5 | 1.84 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 5 | 1.84 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 5 | 1.84 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 5 | 1.84 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 5 | 1.84 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 5 | 1.84 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 5 | 1.84 |
| (1,4940) | 1:66:A:GLN:H | 1:67:A:SER:H | 5 | 1.84 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 17 | 1.84 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 4 | 1.84 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 4 | 1.84 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 4 | 1.84 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 4 | 1.84 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 4 | 1.84 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 4 | 1.84 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 4 | 1.84 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 4 | 1.84 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 4 | 1.84 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 6 | 1.84 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 18 | 1.84 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 10 | 1.84 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 10 | 1.84 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 9 | 1.84 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 9 | 1.84 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 9 | 1.84 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 9 | 1.84 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 9 | 1.84 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 9 | 1.84 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 14 | 1.84 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 16 | 1.84 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 16 | 1.84 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 7 | 1.84 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 9 | 1.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 9 | 1.84 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 19 | 1.84 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 19 | 1.84 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 3 | 1.84 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 3 | 1.84 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 3 | 1.84 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 3 | 1.84 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 3 | 1.84 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 3 | 1.84 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 12 | 1.84 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 12 | 1.84 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 12 | 1.84 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 12 | 1.84 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 12 | 1.84 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 12 | 1.84 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 12 | 1.84 |
| (1,4096) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 12 | 1.84 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 12 | 1.84 |
| (1,4096) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 12 | 1.84 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 12 | 1.84 |
| (1,4096) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 12 | 1.84 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 1.84 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 1.84 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 1.84 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 11 | 1.84 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 11 | 1.84 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 11 | 1.84 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 6 | 1.84 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 6 | 1.84 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 6 | 1.84 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 6 | 1.84 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 6 | 1.84 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 6 | 1.84 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 1 | 1.84 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 1 | 1.84 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 1 | 1.84 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 14 | 1.84 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 14 | 1.84 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 14 | 1.84 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 14 | 1.84 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 18 | 1.84 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 18 | 1.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 18 | 1.84 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 18 | 1.84 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 14 | 1.84 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 14 | 1.84 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 12 | 1.84 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 12 | 1.84 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 12 | 1.84 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 12 | 1.84 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 12 | 1.84 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 12 | 1.84 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 7 | 1.84 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 7 | 1.84 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 7 | 1.84 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 7 | 1.84 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 7 | 1.84 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 7 | 1.84 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 7 | 1.84 |
| (1,3780) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 7 | 1.84 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 8 | 1.84 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 8 | 1.84 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 8 | 1.84 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 8 | 1.84 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 8 | 1.84 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 8 | 1.84 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 8 | 1.84 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 8 | 1.84 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 8 | 1.84 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 15 | 1.84 |
| (1,3400) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 17 | 1.84 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 9 | 1.84 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 4 | 1.84 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 16 | 1.84 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 6 | 1.84 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 6 | 1.84 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 6 | 1.84 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 18 | 1.84 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 2 | 1.84 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 11 | 1.84 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 11 | 1.84 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 11 | 1.84 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 20 | 1.84 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 14 | 1.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 4 | 1.84 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 4 | 1.84 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 17 | 1.84 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 18 | 1.84 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 3 | 1.84 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 3 | 1.84 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 3 | 1.84 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 20 | 1.84 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 16 | 1.84 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 16 | 1.84 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 9 | 1.84 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 8 | 1.84 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 8 | 1.84 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 8 | 1.84 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 4 | 1.84 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 6 | 1.84 |
| (1,2347) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 20 | 1.84 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 13 | 1.84 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 4 | 1.84 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 17 | 1.84 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 17 | 1.84 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 17 | 1.84 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 1.84 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 1.84 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 1.84 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 10 | 1.84 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 3 | 1.84 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 19 | 1.84 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 11 | 1.84 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 14 | 1.84 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 14 | 1.84 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 14 | 1.84 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 18 | 1.84 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 9 | 1.84 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 9 | 1.84 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 17 | 1.84 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 17 | 1.84 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 17 | 1.84 |
| (1,1638) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 9 | 1.84 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 9 | 1.84 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 3 | 1.84 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 7 | 1.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 7 | 1.84 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 3 | 1.84 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 12 | 1.84 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 12 | 1.84 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 12 | 1.84 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 1 | 1.84 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 18 | 1.84 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 18 | 1.84 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 11 | 1.84 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 11 | 1.84 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 11 | 1.84 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 11 | 1.84 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 11 | 1.84 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 11 | 1.84 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 3 | 1.84 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 10 | 1.84 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 1 | 1.84 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 5 | 1.84 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 4 | 1.84 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 4 | 1.84 |
| (1,952) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 4 | 1.84 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 10 | 1.84 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 10 | 1.84 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 10 | 1.84 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 10 | 1.84 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 10 | 1.84 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 10 | 1.84 |
| (1,769) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 18 | 1.84 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 9 | 1.84 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 18 | 1.84 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 15 | 1.84 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 15 | 1.84 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 15 | 1.84 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 15 | 1.84 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 15 | 1.84 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 15 | 1.84 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 15 | 1.84 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 15 | 1.84 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 15 | 1.84 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 10 | 1.84 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 10 | 1.84 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 10 | 1.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 10 | 1.84 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 10 | 1.84 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 10 | 1.84 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 19 | 1.84 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 19 | 1.84 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 19 | 1.84 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 19 | 1.84 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 19 | 1.84 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 19 | 1.84 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 19 | 1.84 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 19 | 1.84 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 19 | 1.84 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 20 | 1.84 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 7 | 1.84 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 1 | 1.84 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 1 | 1.84 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 1 | 1.84 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 5 | 1.84 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 4 | 1.84 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 4 | 1.84 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 1 | 1.84 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 1 | 1.84 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 1 | 1.84 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 17 | 1.84 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 17 | 1.84 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 17 | 1.84 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 17 | 1.84 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 19 | 1.84 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 19 | 1.84 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 19 | 1.84 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 19 | 1.84 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 19 | 1.84 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 19 | 1.84 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 11 | 1.84 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 8 | 1.84 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 6 | 1.84 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 18 | 1.84 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 16 | 1.83 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 14 | 1.83 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 18 | 1.83 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 3 | 1.83 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 3 | 1.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,307) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 11 | 1.83 |
| (3,58) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 15 | 1.83 |
| (3,58) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 15 | 1.83 |
| (3,58) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 15 | 1.83 |
| (3,58) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 15 | 1.83 |
| (3,58) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 15 | 1.83 |
| (3,58) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 15 | 1.83 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 9 | 1.83 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 9 | 1.83 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 9 | 1.83 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 9 | 1.83 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 9 | 1.83 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 9 | 1.83 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 9 | 1.83 |
| (1,9502) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 9 | 1.83 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 15 | 1.83 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 15 | 1.83 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 4 | 1.83 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 4 | 1.83 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 4 | 1.83 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 4 | 1.83 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 4 | 1.83 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 4 | 1.83 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 7 | 1.83 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 7 | 1.83 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 20 | 1.83 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 20 | 1.83 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 20 | 1.83 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 12 | 1.83 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 12 | 1.83 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 12 | 1.83 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 12 | 1.83 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 12 | 1.83 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 12 | 1.83 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD2 | 6 | 1.83 |
| (1,7371) | 1:117:A:LYS:HA | 1:117:A:LYS:HD3 | 6 | 1.83 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 8 | 1.83 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 8 | 1.83 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 8 | 1.83 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 8 | 1.83 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 8 | 1.83 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 8 | 1.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 8 | 1.83 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 8 | 1.83 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 8 | 1.83 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 5 | 1.83 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 5 | 1.83 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 5 | 1.83 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 1 | 1.83 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 6 | 1.83 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 12 | 1.83 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 12 | 1.83 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 15 | 1.83 |
| (1,6582) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 10 | 1.83 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 4 | 1.83 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 9 | 1.83 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 18 | 1.83 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 7 | 1.83 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 7 | 1.83 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 17 | 1.83 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 17 | 1.83 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 16 | 1.83 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 16 | 1.83 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 16 | 1.83 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 16 | 1.83 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 16 | 1.83 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 16 | 1.83 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 16 | 1.83 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 16 | 1.83 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 16 | 1.83 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 9 | 1.83 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 9 | 1.83 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 9 | 1.83 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 6 | 1.83 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 6 | 1.83 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 6 | 1.83 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 6 | 1.83 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 6 | 1.83 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 6 | 1.83 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 6 | 1.83 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 6 | 1.83 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 6 | 1.83 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 11 | 1.83 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 12 | 1.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 12 | 1.83 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 12 | 1.83 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 12 | 1.83 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 12 | 1.83 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 12 | 1.83 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 12 | 1.83 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 12 | 1.83 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 12 | 1.83 |
| (1,5316) | 1:88:A:LEU:H | 1:89:A:ILE:H | 9 | 1.83 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 11 | 1.83 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 9 | 1.83 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 16 | 1.83 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 16 | 1.83 |
| (1,4813) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 16 | 1.83 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 16 | 1.83 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 16 | 1.83 |
| (1,4813) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 16 | 1.83 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 16 | 1.83 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 16 | 1.83 |
| (1,4813) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 16 | 1.83 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 19 | 1.83 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 19 | 1.83 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 19 | 1.83 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 19 | 1.83 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 19 | 1.83 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 19 | 1.83 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 14 | 1.83 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 14 | 1.83 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 14 | 1.83 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 14 | 1.83 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 14 | 1.83 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 14 | 1.83 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 9 | 1.83 |
| (1,4488) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 9 | 1.83 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 20 | 1.83 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 20 | 1.83 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 20 | 1.83 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 20 | 1.83 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 20 | 1.83 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 20 | 1.83 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 15 | 1.83 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 15 | 1.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 14 | 1.83 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 14 | 1.83 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 14 | 1.83 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 14 | 1.83 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 14 | 1.83 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 14 | 1.83 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 1.83 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 1.83 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 1.83 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 20 | 1.83 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 20 | 1.83 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 20 | 1.83 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 20 | 1.83 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 20 | 1.83 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 20 | 1.83 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 1.83 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 6 | 1.83 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 19 | 1.83 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 19 | 1.83 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 18 | 1.83 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 18 | 1.83 |
| (1,3913) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 18 | 1.83 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 18 | 1.83 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 18 | 1.83 |
| (1,3913) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 18 | 1.83 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 4 | 1.83 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 1.83 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 1.83 |
| (1,3807) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 1.83 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 17 | 1.83 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 17 | 1.83 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 8 | 1.83 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 8 | 1.83 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 8 | 1.83 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 8 | 1.83 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 8 | 1.83 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 15 | 1.83 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 15 | 1.83 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 8 | 1.83 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 8 | 1.83 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 8 | 1.83 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 8 | 1.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 8 | 1.83 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 8 | 1.83 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 8 | 1.83 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 8 | 1.83 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 8 | 1.83 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 13 | 1.83 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 13 | 1.83 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 13 | 1.83 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 17 | 1.83 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 17 | 1.83 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 17 | 1.83 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 17 | 1.83 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 17 | 1.83 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 17 | 1.83 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 17 | 1.83 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 17 | 1.83 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 17 | 1.83 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 9 | 1.83 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 10 | 1.83 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 10 | 1.83 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 10 | 1.83 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 3 | 1.83 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 3 | 1.83 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 19 | 1.83 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 19 | 1.83 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 19 | 1.83 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 17 | 1.83 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 17 | 1.83 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 17 | 1.83 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 17 | 1.83 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 8 | 1.83 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 13 | 1.83 |
| (1,2981) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 13 | 1.83 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 11 | 1.83 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 6 | 1.83 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 12 | 1.83 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 12 | 1.83 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 12 | 1.83 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 9 | 1.83 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 9 | 1.83 |
| (1,2727) | 1:23:A:TYR:H | 1:24:A:TYR:H | 4 | 1.83 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 5 | 1.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 5 | 1.83 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 11 | 1.83 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 11 | 1.83 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 17 | 1.83 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 8 | 1.83 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 14 | 1.83 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 14 | 1.83 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 14 | 1.83 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 8 | 1.83 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 3 | 1.83 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 14 | 1.83 |
| (1,2315) | 1:5:A:GLU:HB2 | 1:6:A:LYS:H | 8 | 1.83 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 3 | 1.83 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 3 | 1.83 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 3 | 1.83 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 17 | 1.83 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 19 | 1.83 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 4 | 1.83 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 9 | 1.83 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 18 | 1.83 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 7 | 1.83 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 7 | 1.83 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 17 | 1.83 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 17 | 1.83 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 13 | 1.83 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 13 | 1.83 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 13 | 1.83 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 16 | 1.83 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 16 | 1.83 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 16 | 1.83 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 16 | 1.83 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 16 | 1.83 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 16 | 1.83 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 16 | 1.83 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 16 | 1.83 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 16 | 1.83 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 18 | 1.83 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 10 | 1.83 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 10 | 1.83 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 10 | 1.83 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 18 | 1.83 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 18 | 1.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 18 | 1.83 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 6 | 1.83 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 2 | 1.83 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 2 | 1.83 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 11 | 1.83 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 11 | 1.83 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 12 | 1.83 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 12 | 1.83 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 12 | 1.83 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 6 | 1.83 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 6 | 1.83 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 6 | 1.83 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 6 | 1.83 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 6 | 1.83 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 6 | 1.83 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 6 | 1.83 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 6 | 1.83 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 6 | 1.83 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 15 | 1.83 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 15 | 1.83 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 15 | 1.83 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 10 | 1.83 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 10 | 1.83 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 2 | 1.83 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 2 | 1.83 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 2 | 1.83 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 11 | 1.83 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 14 | 1.83 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 15 | 1.83 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 17 | 1.83 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 12 | 1.83 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 12 | 1.83 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 11 | 1.83 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 5 | 1.83 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 2 | 1.83 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 2 | 1.83 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 2 | 1.83 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 10 | 1.83 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 3 | 1.83 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 3 | 1.83 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 3 | 1.83 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 3 | 1.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 3 | 1.83 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 3 | 1.83 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 12 | 1.83 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 6 | 1.83 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 6 | 1.83 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 6 | 1.83 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 6 | 1.83 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 6 | 1.83 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 6 | 1.83 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 20 | 1.83 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 20 | 1.83 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 20 | 1.83 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 20 | 1.83 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 20 | 1.83 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 20 | 1.83 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 20 | 1.83 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 8 | 1.83 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 12 | 1.83 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 12 | 1.83 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 12 | 1.83 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 12 | 1.83 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 12 | 1.83 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 12 | 1.83 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 12 | 1.83 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 12 | 1.83 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 12 | 1.83 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 11 | 1.83 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 11 | 1.83 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 11 | 1.83 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 8 | 1.83 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 14 | 1.83 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 20 | 1.83 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 20 | 1.83 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 20 | 1.83 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 4 | 1.83 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 4 | 1.83 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 4 | 1.83 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 20 | 1.83 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 20 | 1.83 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 20 | 1.83 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 17 | 1.83 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 17 | 1.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 17 | 1.83 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 5 | 1.83 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 5 | 1.83 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 5 | 1.83 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 5 | 1.83 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 5 | 1.83 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 5 | 1.83 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 10 | 1.83 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 15 | 1.83 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 9 | 1.83 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 11 | 1.83 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 15 | 1.83 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 16 | 1.82 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 9 | 1.82 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 18 | 1.82 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 17 | 1.82 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 17 | 1.82 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 17 | 1.82 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 17 | 1.82 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 9 | 1.82 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 9 | 1.82 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 9 | 1.82 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 9 | 1.82 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 9 | 1.82 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 9 | 1.82 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 13 | 1.82 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 13 | 1.82 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 13 | 1.82 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 13 | 1.82 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 13 | 1.82 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 13 | 1.82 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 18 | 1.82 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 18 | 1.82 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 18 | 1.82 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 18 | 1.82 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 18 | 1.82 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 18 | 1.82 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 9 | 1.82 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 9 | 1.82 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 11 | 1.82 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 11 | 1.82 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 17 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 17 | 1.82 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 6 | 1.82 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 6 | 1.82 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 6 | 1.82 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 6 | 1.82 |
| (1,8649) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 8 | 1.82 |
| (1,8649) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 8 | 1.82 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 19 | 1.82 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 7 | 1.82 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 7 | 1.82 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 7 | 1.82 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 7 | 1.82 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 7 | 1.82 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 7 | 1.82 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 7 | 1.82 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 7 | 1.82 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 7 | 1.82 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 7 | 1.82 |
| (1,7817) | 1:60:A:LEU:H | 1:61:A:LEU:H | 8 | 1.82 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 13 | 1.82 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 2 | 1.82 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 2 | 1.82 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 2 | 1.82 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 2 | 1.82 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 9 | 1.82 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 9 | 1.82 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 9 | 1.82 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 9 | 1.82 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 9 | 1.82 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 9 | 1.82 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 9 | 1.82 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 9 | 1.82 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 9 | 1.82 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 9 | 1.82 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 15 | 1.82 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 15 | 1.82 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 15 | 1.82 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 15 | 1.82 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 15 | 1.82 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 15 | 1.82 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 18 | 1.82 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 18 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 18 | 1.82 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 11 | 1.82 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 2 | 1.82 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 2 | 1.82 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 2 | 1.82 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 2 | 1.82 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 2 | 1.82 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 2 | 1.82 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 2 | 1.82 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 2 | 1.82 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 2 | 1.82 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 5 | 1.82 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 5 | 1.82 |
| (1,7260) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 5 | 1.82 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 5 | 1.82 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 5 | 1.82 |
| (1,7260) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 5 | 1.82 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 5 | 1.82 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 5 | 1.82 |
| (1,7260) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 5 | 1.82 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 16 | 1.82 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 16 | 1.82 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 13 | 1.82 |
| (1,6584) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 14 | 1.82 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 3 | 1.82 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 7 | 1.82 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 11 | 1.82 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 11 | 1.82 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 11 | 1.82 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 11 | 1.82 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 11 | 1.82 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 11 | 1.82 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 11 | 1.82 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 11 | 1.82 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 11 | 1.82 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 13 | 1.82 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 4 | 1.82 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 4 | 1.82 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 4 | 1.82 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 4 | 1.82 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 4 | 1.82 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 4 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 4 | 1.82 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 4 | 1.82 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 4 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 3 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 3 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 3 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 3 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 3 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 3 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 3 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 3 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 3 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 13 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 13 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 13 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 13 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 13 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 13 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 13 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 13 | 1.82 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 13 | 1.82 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 12 | 1.82 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 4 | 1.82 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 4 | 1.82 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 4 | 1.82 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 10 | 1.82 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 10 | 1.82 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 10 | 1.82 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 17 | 1.82 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 17 | 1.82 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 17 | 1.82 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 20 | 1.82 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 1 | 1.82 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 1 | 1.82 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 1 | 1.82 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 1 | 1.82 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 1 | 1.82 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 1 | 1.82 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 1 | 1.82 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 1 | 1.82 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 1 | 1.82 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 9 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 9 | 1.82 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 18 | 1.82 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 15 | 1.82 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 15 | 1.82 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 15 | 1.82 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 15 | 1.82 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 15 | 1.82 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 15 | 1.82 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 15 | 1.82 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 15 | 1.82 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 15 | 1.82 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 3 | 1.82 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 8 | 1.82 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 8 | 1.82 |
| (1,4591) | 1:157:A:HIS:HB2 | 1:158:A:ILE:HB | 18 | 1.82 |
| (1,4591) | 1:157:A:HIS:HB3 | 1:158:A:ILE:HB | 18 | 1.82 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 1 | 1.82 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 1 | 1.82 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 1 | 1.82 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 1 | 1.82 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 1 | 1.82 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 1 | 1.82 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 7 | 1.82 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 19 | 1.82 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 19 | 1.82 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 8 | 1.82 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 8 | 1.82 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 8 | 1.82 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 13 | 1.82 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB2 | 7 | 1.82 |
| (1,4481) | 1:133:A:PRO:HG2 | 1:134:A:PHE:HB3 | 7 | 1.82 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB2 | 7 | 1.82 |
| (1,4481) | 1:133:A:PRO:HG3 | 1:134:A:PHE:HB3 | 7 | 1.82 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG11 | 9 | 1.82 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG12 | 9 | 1.82 |
| (1,4477) | 1:133:A:PRO:HG2 | 1:150:A:VAL:HG13 | 9 | 1.82 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG11 | 9 | 1.82 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG12 | 9 | 1.82 |
| (1,4477) | 1:133:A:PRO:HG3 | 1:150:A:VAL:HG13 | 9 | 1.82 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 19 | 1.82 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 19 | 1.82 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 7 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 7 | 1.82 |
| (1,4297) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 1.82 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 1 | 1.82 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 1 | 1.82 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 15 | 1.82 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 15 | 1.82 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 15 | 1.82 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 15 | 1.82 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 15 | 1.82 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 15 | 1.82 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 19 | 1.82 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 19 | 1.82 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 3 | 1.82 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 3 | 1.82 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 1 | 1.82 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 1 | 1.82 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 13 | 1.82 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 13 | 1.82 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 10 | 1.82 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 10 | 1.82 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 10 | 1.82 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 10 | 1.82 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 10 | 1.82 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 10 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 15 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 15 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 15 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 15 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 15 | 1.82 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 15 | 1.82 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 8 | 1.82 |
| (1,3679) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 8 | 1.82 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 2 | 1.82 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 2 | 1.82 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 2 | 1.82 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 2 | 1.82 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 2 | 1.82 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 2 | 1.82 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 2 | 1.82 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 2 | 1.82 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 2 | 1.82 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 5 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 5 | 1.82 |
| (1,3470) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 5 | 1.82 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 5 | 1.82 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 5 | 1.82 |
| (1,3470) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 5 | 1.82 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 5 | 1.82 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 5 | 1.82 |
| (1,3470) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 5 | 1.82 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 11 | 1.82 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 3 | 1.82 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 3 | 1.82 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 3 | 1.82 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 6 | 1.82 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 6 | 1.82 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 6 | 1.82 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 6 | 1.82 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 19 | 1.82 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 19 | 1.82 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 19 | 1.82 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 9 | 1.82 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 6 | 1.82 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 12 | 1.82 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 12 | 1.82 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 2 | 1.82 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 2 | 1.82 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 6 | 1.82 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 4 | 1.82 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 12 | 1.82 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 18 | 1.82 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 16 | 1.82 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 16 | 1.82 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 16 | 1.82 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 16 | 1.82 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 16 | 1.82 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 17 | 1.82 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 17 | 1.82 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 17 | 1.82 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 17 | 1.82 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 15 | 1.82 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 5 | 1.82 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 2 | 1.82 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 17 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 10 | 1.82 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 10 | 1.82 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 10 | 1.82 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 10 | 1.82 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 10 | 1.82 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 10 | 1.82 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 2 | 1.82 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 8 | 1.82 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 13 | 1.82 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 6 | 1.82 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 17 | 1.82 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 17 | 1.82 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 17 | 1.82 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 1 | 1.82 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 4 | 1.82 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 3 | 1.82 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 7 | 1.82 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 5 | 1.82 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 5 | 1.82 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 5 | 1.82 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 8 | 1.82 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 8 | 1.82 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 8 | 1.82 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 8 | 1.82 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 1.82 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 1.82 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 1.82 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 1.82 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 1.82 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 1.82 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 1.82 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 1.82 |
| (1,2109) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 1.82 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 11 | 1.82 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 11 | 1.82 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 11 | 1.82 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 11 | 1.82 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 11 | 1.82 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 11 | 1.82 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 11 | 1.82 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 11 | 1.82 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 11 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 17 | 1.82 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 3 | 1.82 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 3 | 1.82 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 3 | 1.82 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 13 | 1.82 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 4 | 1.82 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 4 | 1.82 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 4 | 1.82 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 16 | 1.82 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 12 | 1.82 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 12 | 1.82 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 9 | 1.82 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 4 | 1.82 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 4 | 1.82 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 4 | 1.82 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 4 | 1.82 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 4 | 1.82 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 4 | 1.82 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 4 | 1.82 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 4 | 1.82 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 4 | 1.82 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 6 | 1.82 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 6 | 1.82 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 7 | 1.82 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 5 | 1.82 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 1 | 1.82 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 1 | 1.82 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 1 | 1.82 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 18 | 1.82 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 18 | 1.82 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 18 | 1.82 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 18 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 3 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 3 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 3 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 3 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 3 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 3 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 3 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 3 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 3 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 13 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 13 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 13 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 13 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 13 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 13 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 13 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 13 | 1.82 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 13 | 1.82 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 4 | 1.82 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 12 | 1.82 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 9 | 1.82 |
| (1,1193) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 18 | 1.82 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 15 | 1.82 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 11 | 1.82 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 6 | 1.82 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 1 | 1.82 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 1 | 1.82 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 1 | 1.82 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 1 | 1.82 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 1 | 1.82 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 1 | 1.82 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 7 | 1.82 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 18 | 1.82 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 5 | 1.82 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 5 | 1.82 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 5 | 1.82 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 14 | 1.82 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 14 | 1.82 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 1 | 1.82 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 1 | 1.82 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 2 | 1.82 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 5 | 1.82 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 10 | 1.82 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 10 | 1.82 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 10 | 1.82 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 2 | 1.82 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 2 | 1.82 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 2 | 1.82 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 2 | 1.82 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 2 | 1.82 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 2 | 1.82 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 1 | 1.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 18 | 1.82 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 18 | 1.82 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 18 | 1.82 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 18 | 1.82 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 18 | 1.82 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 12 | 1.82 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 12 | 1.82 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 12 | 1.82 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 12 | 1.82 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 12 | 1.82 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 12 | 1.82 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 12 | 1.82 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 12 | 1.82 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 12 | 1.82 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 7 | 1.82 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 7 | 1.82 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 7 | 1.82 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 7 | 1.82 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 7 | 1.82 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 7 | 1.82 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 2 | 1.82 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 3 | 1.82 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 15 | 1.82 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 15 | 1.82 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 15 | 1.82 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 20 | 1.82 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 18 | 1.82 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 11 | 1.82 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 2 | 1.82 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 2 | 1.82 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 2 | 1.82 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 17 | 1.82 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 17 | 1.82 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 17 | 1.82 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 16 | 1.82 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 8 | 1.82 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 18 | 1.81 |
| (4,222) | 1:15:A:MET:CB | 1:46:A:LYS:H | 20 | 1.81 |
| (4,21) | 1:15:A:MET:CB | 1:71:A:SER:H | 10 | 1.81 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB2 | 16 | 1.81 |
| (1,9543) | 1:143:A:THR:HA | 1:161:A:ARG:HB3 | 16 | 1.81 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 1 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 1 | 1.81 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 1 | 1.81 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 1 | 1.81 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 1 | 1.81 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 1 | 1.81 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 8 | 1.81 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 8 | 1.81 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 8 | 1.81 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 8 | 1.81 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 8 | 1.81 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 8 | 1.81 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 8 | 1.81 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 8 | 1.81 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 8 | 1.81 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 8 | 1.81 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 17 | 1.81 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 17 | 1.81 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 6 | 1.81 |
| (1,9049) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 6 | 1.81 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 6 | 1.81 |
| (1,9049) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 6 | 1.81 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 6 | 1.81 |
| (1,9049) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 6 | 1.81 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 8 | 1.81 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 8 | 1.81 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 8 | 1.81 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 8 | 1.81 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 2 | 1.81 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 2 | 1.81 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 2 | 1.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 9 | 1.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 9 | 1.81 |
| (1,8151) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 9 | 1.81 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 9 | 1.81 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 9 | 1.81 |
| (1,8151) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 9 | 1.81 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 9 | 1.81 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 9 | 1.81 |
| (1,8151) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 9 | 1.81 |
| (1,8127) | 1:95:A:LYS:H | 1:96:A:ILE:H | 10 | 1.81 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 7 | 1.81 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 15 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 15 | 1.81 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 15 | 1.81 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 15 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 3 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 3 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 3 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 3 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 3 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 3 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 3 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 3 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 3 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 6 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 6 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 6 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 6 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 6 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 6 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 6 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 6 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 6 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 11 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 11 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 11 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 11 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 11 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 11 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 11 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 11 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 11 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 17 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 17 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 17 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 17 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 17 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 17 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 17 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 17 | 1.81 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 17 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 1 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 1 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 1 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 1 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 1 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 1 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 3 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 3 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 3 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 3 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 3 | 1.81 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 3 | 1.81 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 1 | 1.81 |
| (1,7271) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 14 | 1.81 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 3 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 2 | 1.81 |
| (1,6789) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 2 | 1.81 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 20 | 1.81 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 20 | 1.81 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 20 | 1.81 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 20 | 1.81 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 20 | 1.81 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 20 | 1.81 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 20 | 1.81 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 20 | 1.81 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 20 | 1.81 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 11 | 1.81 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 11 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 1 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 1 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 1 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 1 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 1 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 1 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 1 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 1 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 1 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 15 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 15 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 15 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 15 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 15 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 15 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 15 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 15 | 1.81 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 15 | 1.81 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 12 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 6 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 6 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 6 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 6 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 6 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 6 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 6 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 6 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 6 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 10 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 10 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 10 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 10 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 10 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 10 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 10 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 10 | 1.81 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 10 | 1.81 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 1 | 1.81 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 1 | 1.81 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 1 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 13 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 13 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 13 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 13 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 13 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 13 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 13 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 13 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 13 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 14 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 14 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 14 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 14 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 14 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 14 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 14 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 14 | 1.81 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 14 | 1.81 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 20 | 1.81 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 20 | 1.81 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 20 | 1.81 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 1 | 1.81 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 7 | 1.81 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 6 | 1.81 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 6 | 1.81 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 6 | 1.81 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 5 | 1.81 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 5 | 1.81 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 5 | 1.81 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 5 | 1.81 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 5 | 1.81 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 5 | 1.81 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 4 | 1.81 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 4 | 1.81 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 4 | 1.81 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 4 | 1.81 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 4 | 1.81 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 4 | 1.81 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 1 | 1.81 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 1 | 1.81 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 1 | 1.81 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 1 | 1.81 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 1 | 1.81 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 1 | 1.81 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 1 | 1.81 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 8 | 1.81 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 8 | 1.81 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 8 | 1.81 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 8 | 1.81 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 8 | 1.81 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 8 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 17 | 1.81 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 17 | 1.81 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 17 | 1.81 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 17 | 1.81 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 9 | 1.81 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 9 | 1.81 |
| (1,4223) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 9 | 1.81 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 6 | 1.81 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 13 | 1.81 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 13 | 1.81 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 1 | 1.81 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 1 | 1.81 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 6 | 1.81 |
| (1,4020) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 6 | 1.81 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 6 | 1.81 |
| (1,4020) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 6 | 1.81 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 6 | 1.81 |
| (1,4020) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 6 | 1.81 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 9 | 1.81 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 15 | 1.81 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 15 | 1.81 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 15 | 1.81 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 1 | 1.81 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 1 | 1.81 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 19 | 1.81 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 19 | 1.81 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 14 | 1.81 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 14 | 1.81 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 14 | 1.81 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 10 | 1.81 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 10 | 1.81 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 10 | 1.81 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 19 | 1.81 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 19 | 1.81 |
| (1,3717) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 2 | 1.81 |
| (1,3717) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 2 | 1.81 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 17 | 1.81 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 17 | 1.81 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 2 | 1.81 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 2 | 1.81 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 8 | 1.81 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 8 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 8 | 1.81 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 19 | 1.81 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 19 | 1.81 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 20 | 1.81 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 20 | 1.81 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 16 | 1.81 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 7 | 1.81 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 7 | 1.81 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 12 | 1.81 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 12 | 1.81 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 12 | 1.81 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 9 | 1.81 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 9 | 1.81 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 9 | 1.81 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 15 | 1.81 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 15 | 1.81 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 18 | 1.81 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 11 | 1.81 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 16 | 1.81 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 4 | 1.81 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 4 | 1.81 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 4 | 1.81 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 3 | 1.81 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 19 | 1.81 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 19 | 1.81 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 19 | 1.81 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 16 | 1.81 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 16 | 1.81 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 16 | 1.81 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 2 | 1.81 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 2 | 1.81 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 2 | 1.81 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 10 | 1.81 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 10 | 1.81 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 10 | 1.81 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 13 | 1.81 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 13 | 1.81 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 13 | 1.81 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 6 | 1.81 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 1.81 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 6 | 1.81 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 6 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 20 | 1.81 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 20 | 1.81 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 20 | 1.81 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 16 | 1.81 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 20 | 1.81 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 20 | 1.81 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 20 | 1.81 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 20 | 1.81 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 20 | 1.81 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 20 | 1.81 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 20 | 1.81 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 20 | 1.81 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 20 | 1.81 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 2 | 1.81 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 2 | 1.81 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 2 | 1.81 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 10 | 1.81 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 10 | 1.81 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 10 | 1.81 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 18 | 1.81 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 11 | 1.81 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 11 | 1.81 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 3 | 1.81 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 3 | 1.81 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 3 | 1.81 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 19 | 1.81 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 19 | 1.81 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 19 | 1.81 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 12 | 1.81 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 18 | 1.81 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 18 | 1.81 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 18 | 1.81 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 1 | 1.81 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 4 | 1.81 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 4 | 1.81 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 15 | 1.81 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 4 | 1.81 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 4 | 1.81 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 7 | 1.81 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 18 | 1.81 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 18 | 1.81 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 18 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 1 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 1 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 1 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 1 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 1 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 1 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 1 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 1 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 1 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 15 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 15 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 15 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 15 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 15 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 15 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 15 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 15 | 1.81 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 15 | 1.81 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 8 | 1.81 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 8 | 1.81 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 8 | 1.81 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 18 | 1.81 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 18 | 1.81 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 18 | 1.81 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 14 | 1.81 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 14 | 1.81 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 1 | 1.81 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 12 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 6 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 6 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 6 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 6 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 6 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 6 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 6 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 6 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 6 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 10 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 10 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 10 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 10 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 10 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 10 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 10 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 10 | 1.81 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 10 | 1.81 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 1 | 1.81 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 1 | 1.81 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 3 | 1.81 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 3 | 1.81 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 3 | 1.81 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 19 | 1.81 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 19 | 1.81 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 19 | 1.81 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 15 | 1.81 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 19 | 1.81 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 17 | 1.81 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 13 | 1.81 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 7 | 1.81 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 7 | 1.81 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 6 | 1.81 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 1 | 1.81 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 1 | 1.81 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 1 | 1.81 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 1 | 1.81 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 1 | 1.81 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 1 | 1.81 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 9 | 1.81 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 9 | 1.81 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 9 | 1.81 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 9 | 1.81 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 9 | 1.81 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 9 | 1.81 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 16 | 1.81 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 16 | 1.81 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 16 | 1.81 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 16 | 1.81 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 16 | 1.81 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 16 | 1.81 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 16 | 1.81 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 16 | 1.81 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 16 | 1.81 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 2 | 1.81 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 3 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 17 | 1.81 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 2 | 1.81 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 14 | 1.81 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 18 | 1.81 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 5 | 1.81 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 4 | 1.81 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 2 | 1.81 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 2 | 1.81 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 2 | 1.81 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 11 | 1.81 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 18 | 1.81 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 5 | 1.81 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 5 | 1.81 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 5 | 1.81 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 5 | 1.81 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 5 | 1.81 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 5 | 1.81 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 5 | 1.81 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 5 | 1.81 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 5 | 1.81 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 7 | 1.81 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 4 | 1.81 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 4 | 1.81 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 4 | 1.81 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 11 | 1.81 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 5 | 1.81 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 12 | 1.81 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 17 | 1.81 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 17 | 1.81 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 14 | 1.81 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 16 | 1.8 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 11 | 1.8 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 16 | 1.8 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 4 | 1.8 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 16 | 1.8 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 19 | 1.8 |
| (1,9558) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 19 | 1.8 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE21 | 11 | 1.8 |
| (1,9346) | 1:109:A:GLN:HA | 1:109:A:GLN:HE22 | 11 | 1.8 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 1 | 1.8 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 1 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 15 | 1.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 15 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 15 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 15 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 15 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 15 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 17 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 17 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 17 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 17 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 17 | 1.8 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 17 | 1.8 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 16 | 1.8 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 16 | 1.8 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 16 | 1.8 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 16 | 1.8 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 13 | 1.8 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 13 | 1.8 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 13 | 1.8 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 13 | 1.8 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 13 | 1.8 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 13 | 1.8 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 8 | 1.8 |
| (1,8554) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 8 | 1.8 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 19 | 1.8 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 15 | 1.8 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 15 | 1.8 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 15 | 1.8 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 2 | 1.8 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 2 | 1.8 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 2 | 1.8 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 2 | 1.8 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 2 | 1.8 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 2 | 1.8 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 2 | 1.8 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 2 | 1.8 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 2 | 1.8 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD2 | 10 | 1.8 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD2 | 10 | 1.8 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD2 | 10 | 1.8 |
| (1,7416) | 1:7:A:LEU:HD11 | 1:8:A:PRO:HD3 | 10 | 1.8 |
| (1,7416) | 1:7:A:LEU:HD12 | 1:8:A:PRO:HD3 | 10 | 1.8 |
| (1,7416) | 1:7:A:LEU:HD13 | 1:8:A:PRO:HD3 | 10 | 1.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 5 | 1.8 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 5 | 1.8 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 5 | 1.8 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 16 | 1.8 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 16 | 1.8 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 16 | 1.8 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 16 | 1.8 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 16 | 1.8 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 16 | 1.8 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 16 | 1.8 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 16 | 1.8 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 16 | 1.8 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 5 | 1.8 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 11 | 1.8 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 11 | 1.8 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 10 | 1.8 |
| (1,6527) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 13 | 1.8 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 6 | 1.8 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 5 | 1.8 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 17 | 1.8 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 17 | 1.8 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 17 | 1.8 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 17 | 1.8 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 17 | 1.8 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 17 | 1.8 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 17 | 1.8 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 17 | 1.8 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 17 | 1.8 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 2 | 1.8 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 2 | 1.8 |
| (1,6100) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 2 | 1.8 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 2 | 1.8 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 2 | 1.8 |
| (1,6100) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 2 | 1.8 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 2 | 1.8 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 2 | 1.8 |
| (1,6100) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 2 | 1.8 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 9 | 1.8 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 9 | 1.8 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 9 | 1.8 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 11 | 1.8 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 5 | 1.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 5 | 1.8 |
| (1,5882) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 5 | 1.8 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 5 | 1.8 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 5 | 1.8 |
| (1,5882) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 5 | 1.8 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 5 | 1.8 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 5 | 1.8 |
| (1,5882) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 5 | 1.8 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 11 | 1.8 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 17 | 1.8 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 19 | 1.8 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 13 | 1.8 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 13 | 1.8 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 13 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 14 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 14 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 14 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 14 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 14 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 14 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 14 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 14 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 14 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 20 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 20 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 20 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 20 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 20 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 20 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 20 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 20 | 1.8 |
| (1,5393) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 20 | 1.8 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 9 | 1.8 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 9 | 1.8 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 9 | 1.8 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 9 | 1.8 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 9 | 1.8 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 9 | 1.8 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 9 | 1.8 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 9 | 1.8 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 9 | 1.8 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 11 | 1.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 11 | 1.8 |
| (1,5282) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 11 | 1.8 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 11 | 1.8 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 11 | 1.8 |
| (1,5282) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 11 | 1.8 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 11 | 1.8 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 11 | 1.8 |
| (1,5282) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 11 | 1.8 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 15 | 1.8 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 19 | 1.8 |
| (1,4548) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 19 | 1.8 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 20 | 1.8 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 20 | 1.8 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 16 | 1.8 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 16 | 1.8 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 10 | 1.8 |
| (1,4431) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 10 | 1.8 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 7 | 1.8 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 7 | 1.8 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 7 | 1.8 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 20 | 1.8 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 20 | 1.8 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 20 | 1.8 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 4 | 1.8 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 9 | 1.8 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 9 | 1.8 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 9 | 1.8 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 9 | 1.8 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 9 | 1.8 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 9 | 1.8 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 7 | 1.8 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 7 | 1.8 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 7 | 1.8 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 7 | 1.8 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 7 | 1.8 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 7 | 1.8 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 19 | 1.8 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 19 | 1.8 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 20 | 1.8 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 20 | 1.8 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 14 | 1.8 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 14 | 1.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 14 | 1.8 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 14 | 1.8 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 14 | 1.8 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 14 | 1.8 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 11 | 1.8 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 11 | 1.8 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 11 | 1.8 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 1 | 1.8 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 1 | 1.8 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 1 | 1.8 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 1 | 1.8 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 1 | 1.8 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 1 | 1.8 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 4 | 1.8 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 4 | 1.8 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 17 | 1.8 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 17 | 1.8 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 2 | 1.8 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 2 | 1.8 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 1 | 1.8 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 1 | 1.8 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 1 | 1.8 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 1 | 1.8 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 1 | 1.8 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 1 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 6 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 6 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 6 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 6 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 6 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 6 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 1.8 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 1.8 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 11 | 1.8 |
| (1,3715) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 13 | 1.8 |
| (1,3641) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 5 | 1.8 |
| (1,3641) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 5 | 1.8 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 4 | 1.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 12 | 1.8 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 18 | 1.8 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 18 | 1.8 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 8 | 1.8 |
| (1,3516) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 8 | 1.8 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 3 | 1.8 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 14 | 1.8 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 14 | 1.8 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 16 | 1.8 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 16 | 1.8 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 16 | 1.8 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 16 | 1.8 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 16 | 1.8 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 16 | 1.8 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 16 | 1.8 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 16 | 1.8 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 16 | 1.8 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 12 | 1.8 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 15 | 1.8 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 1.8 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 1 | 1.8 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 1 | 1.8 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 1 | 1.8 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 1 | 1.8 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 1 | 1.8 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 1 | 1.8 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 1 | 1.8 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 1 | 1.8 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 1 | 1.8 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 5 | 1.8 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 5 | 1.8 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 13 | 1.8 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 13 | 1.8 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 8 | 1.8 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 11 | 1.8 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 11 | 1.8 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 14 | 1.8 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 14 | 1.8 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 20 | 1.8 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 20 | 1.8 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 20 | 1.8 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 4 | 1.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 3 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 3 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 7 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 7 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 10 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 10 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 11 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 11 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 13 | 1.8 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 13 | 1.8 |
| (1,2787) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 17 | 1.8 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 15 | 1.8 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 15 | 1.8 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 18 | 1.8 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 18 | 1.8 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 11 | 1.8 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 5 | 1.8 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 3 | 1.8 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 9 | 1.8 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 10 | 1.8 |
| (1,2372) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 13 | 1.8 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 11 | 1.8 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 14 | 1.8 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 14 | 1.8 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 14 | 1.8 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 16 | 1.8 |
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 5 | 1.8 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 15 | 1.8 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 15 | 1.8 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 15 | 1.8 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 4 | 1.8 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 9 | 1.8 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 9 | 1.8 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 9 | 1.8 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 14 | 1.8 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 14 | 1.8 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 14 | 1.8 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 14 | 1.8 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 14 | 1.8 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 14 | 1.8 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 14 | 1.8 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 14 | 1.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 14 | 1.8 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 2 | 1.8 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 10 | 1.8 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 10 | 1.8 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 17 | 1.8 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 17 | 1.8 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 17 | 1.8 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 11 | 1.8 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 2 | 1.8 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 2 | 1.8 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 12 | 1.8 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 15 | 1.8 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 2 | 1.8 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 2 | 1.8 |
| (1,1672) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 2 | 1.8 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 2 | 1.8 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 2 | 1.8 |
| (1,1672) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 2 | 1.8 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 2 | 1.8 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 2 | 1.8 |
| (1,1672) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 2 | 1.8 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 14 | 1.8 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 11 | 1.8 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 5 | 1.8 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 5 | 1.8 |
| (1,1296) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 5 | 1.8 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 5 | 1.8 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 5 | 1.8 |
| (1,1296) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 5 | 1.8 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 5 | 1.8 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 5 | 1.8 |
| (1,1296) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 5 | 1.8 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 19 | 1.8 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 19 | 1.8 |
| (1,1110) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 19 | 1.8 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 13 | 1.8 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 14 | 1.8 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 14 | 1.8 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 14 | 1.8 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 20 | 1.8 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 20 | 1.8 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 20 | 1.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 14 | 1.8 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 19 | 1.8 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 19 | 1.8 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 19 | 1.8 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 12 | 1.8 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 12 | 1.8 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 12 | 1.8 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 12 | 1.8 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 12 | 1.8 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 12 | 1.8 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 11 | 1.8 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 19 | 1.8 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 19 | 1.8 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 18 | 1.8 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 18 | 1.8 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 18 | 1.8 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 16 | 1.8 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 10 | 1.8 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 15 | 1.8 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 18 | 1.8 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 2 | 1.8 |
| (1,245) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 19 | 1.8 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 7 | 1.8 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 12 | 1.8 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 12 | 1.8 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 12 | 1.8 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 9 | 1.8 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 9 | 1.8 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 9 | 1.8 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 2 | 1.8 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 2 | 1.8 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 2 | 1.8 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 7 | 1.8 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 7 | 1.8 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 7 | 1.8 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 1 | 1.8 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 11 | 1.8 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 17 | 1.8 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 17 | 1.8 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 10 | 1.79 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 1 | 1.79 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 1 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 11 | 1.79 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 11 | 1.79 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 11 | 1.79 |
| (3,258) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 5 | 1.79 |
| (3,258) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 5 | 1.79 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 11 | 1.79 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 11 | 1.79 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 3 | 1.79 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 3 | 1.79 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 3 | 1.79 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 3 | 1.79 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 3 | 1.79 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 3 | 1.79 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 19 | 1.79 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 19 | 1.79 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 19 | 1.79 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 19 | 1.79 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 19 | 1.79 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 19 | 1.79 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG12 | 19 | 1.79 |
| (1,9123) | 1:89:A:ILE:H | 1:89:A:ILE:HG13 | 19 | 1.79 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 8 | 1.79 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 8 | 1.79 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 3 | 1.79 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 3 | 1.79 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 3 | 1.79 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 9 | 1.79 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 9 | 1.79 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 9 | 1.79 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 9 | 1.79 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 9 | 1.79 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 9 | 1.79 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 9 | 1.79 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 9 | 1.79 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 9 | 1.79 |
| (1,8003) | 1:82:A:LYS:H | 1:82:A:LYS:HG2 | 2 | 1.79 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 20 | 1.79 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 20 | 1.79 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 8 | 1.79 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 8 | 1.79 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 8 | 1.79 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 8 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7456) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 20 | 1.79 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 19 | 1.79 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 9 | 1.79 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 10 | 1.79 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 8 | 1.79 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 8 | 1.79 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 8 | 1.79 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 2 | 1.79 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 1 | 1.79 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 13 | 1.79 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 9 | 1.79 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 1 | 1.79 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 1 | 1.79 |
| (1,6371) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 1 | 1.79 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 1 | 1.79 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 1 | 1.79 |
| (1,6371) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 1 | 1.79 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 1 | 1.79 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 1 | 1.79 |
| (1,6371) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 1 | 1.79 |
| (1,6339) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 14 | 1.79 |
| (1,6339) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 14 | 1.79 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 3 | 1.79 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 3 | 1.79 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 3 | 1.79 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 3 | 1.79 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 3 | 1.79 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 3 | 1.79 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 3 | 1.79 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 3 | 1.79 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 3 | 1.79 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 6 | 1.79 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 6 | 1.79 |
| (1,6302) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 6 | 1.79 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 6 | 1.79 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 6 | 1.79 |
| (1,6302) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 6 | 1.79 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 6 | 1.79 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 6 | 1.79 |
| (1,6302) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 6 | 1.79 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 5 | 1.79 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 5 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 5 | 1.79 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 5 | 1.79 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 12 | 1.79 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 12 | 1.79 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 12 | 1.79 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 20 | 1.79 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 20 | 1.79 |
| (1,6104) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 20 | 1.79 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 20 | 1.79 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 20 | 1.79 |
| (1,6104) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 20 | 1.79 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 20 | 1.79 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 20 | 1.79 |
| (1,6104) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 20 | 1.79 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 5 | 1.79 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 5 | 1.79 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 5 | 1.79 |
| (1,6020) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 8 | 1.79 |
| (1,6020) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 8 | 1.79 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 6 | 1.79 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 5 | 1.79 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 5 | 1.79 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 5 | 1.79 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 5 | 1.79 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 5 | 1.79 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 5 | 1.79 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 20 | 1.79 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 20 | 1.79 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 20 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 7 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 7 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 7 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 7 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 7 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 7 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 7 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 7 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 7 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 10 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 10 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 10 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 10 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 10 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 10 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 10 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 10 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 10 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 15 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 15 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 15 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 15 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 15 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 15 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 15 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 15 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 15 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 19 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 19 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 19 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 19 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 19 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 19 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 19 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 19 | 1.79 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 19 | 1.79 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 17 | 1.79 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 17 | 1.79 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 17 | 1.79 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 12 | 1.79 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 12 | 1.79 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 12 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD11 | 20 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD12 | 20 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD11 | 1:158:A:ILE:HD13 | 20 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD11 | 20 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD12 | 20 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD12 | 1:158:A:ILE:HD13 | 20 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD11 | 20 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD12 | 20 | 1.79 |
| (1,4822) | 1:60:A:LEU:HD13 | 1:158:A:ILE:HD13 | 20 | 1.79 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 17 | 1.79 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 17 | 1.79 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 10 | 1.79 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 10 | 1.79 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 11 | 1.79 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 11 | 1.79 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 11 | 1.79 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 11 | 1.79 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 11 | 1.79 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 11 | 1.79 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 6 | 1.79 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 6 | 1.79 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 6 | 1.79 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 6 | 1.79 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 6 | 1.79 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 6 | 1.79 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 3 | 1.79 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 3 | 1.79 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 3 | 1.79 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 3 | 1.79 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 3 | 1.79 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 3 | 1.79 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 19 | 1.79 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 19 | 1.79 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 19 | 1.79 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 19 | 1.79 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 19 | 1.79 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 19 | 1.79 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 4 | 1.79 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 4 | 1.79 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 13 | 1.79 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 13 | 1.79 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 13 | 1.79 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 13 | 1.79 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 13 | 1.79 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 13 | 1.79 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 7 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 7 | 1.79 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 7 | 1.79 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 7 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 3 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 3 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 3 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 4 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 4 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 4 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 6 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 6 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 6 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 17 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 17 | 1.79 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 17 | 1.79 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 2 | 1.79 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 2 | 1.79 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 2 | 1.79 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 18 | 1.79 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 18 | 1.79 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 18 | 1.79 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 18 | 1.79 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 18 | 1.79 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 18 | 1.79 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 13 | 1.79 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 13 | 1.79 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 13 | 1.79 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 3 | 1.79 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 3 | 1.79 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 8 | 1.79 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 8 | 1.79 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 8 | 1.79 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 8 | 1.79 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 8 | 1.79 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 8 | 1.79 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 17 | 1.79 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 17 | 1.79 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 3 | 1.79 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 3 | 1.79 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 2 | 1.79 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 2 | 1.79 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 7 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 15 | 1.79 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 15 | 1.79 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 15 | 1.79 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 7 | 1.79 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 16 | 1.79 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 8 | 1.79 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 8 | 1.79 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 14 | 1.79 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 14 | 1.79 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 14 | 1.79 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 2 | 1.79 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 5 | 1.79 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 5 | 1.79 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 2 | 1.79 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 3 | 1.79 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 2 | 1.79 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 2 | 1.79 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 2 | 1.79 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 5 | 1.79 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 2 | 1.79 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 10 | 1.79 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 5 | 1.79 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 13 | 1.79 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 1 | 1.79 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 1 | 1.79 |
| (1,2068) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 1 | 1.79 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 1 | 1.79 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 1 | 1.79 |
| (1,2068) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 1 | 1.79 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 1 | 1.79 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 1 | 1.79 |
| (1,2068) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 1 | 1.79 |
| (1,2016) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 14 | 1.79 |
| (1,2016) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 14 | 1.79 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 3 | 1.79 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 3 | 1.79 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 3 | 1.79 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 3 | 1.79 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 3 | 1.79 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 3 | 1.79 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 3 | 1.79 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 3 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 3 | 1.79 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 6 | 1.79 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 6 | 1.79 |
| (1,1974) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 6 | 1.79 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 6 | 1.79 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 6 | 1.79 |
| (1,1974) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 6 | 1.79 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 6 | 1.79 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 6 | 1.79 |
| (1,1974) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 6 | 1.79 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 14 | 1.79 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 11 | 1.79 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 11 | 1.79 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 11 | 1.79 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 14 | 1.79 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 14 | 1.79 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 14 | 1.79 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 18 | 1.79 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 9 | 1.79 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 20 | 1.79 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 15 | 1.79 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 15 | 1.79 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 15 | 1.79 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 20 | 1.79 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 20 | 1.79 |
| (1,1676) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 20 | 1.79 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 20 | 1.79 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 20 | 1.79 |
| (1,1676) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 20 | 1.79 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 20 | 1.79 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 20 | 1.79 |
| (1,1676) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 20 | 1.79 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 6 | 1.79 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 13 | 1.79 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 5 | 1.79 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 5 | 1.79 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 5 | 1.79 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 18 | 1.79 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 18 | 1.79 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 18 | 1.79 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 11 | 1.79 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 3 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 6 | 1.79 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 14 | 1.79 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 14 | 1.79 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 6 | 1.79 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 6 | 1.79 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 8 | 1.79 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 8 | 1.79 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 8 | 1.79 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 2 | 1.79 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 2 | 1.79 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 18 | 1.79 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 1.79 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 2 | 1.79 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 14 | 1.79 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 8 | 1.79 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 8 | 1.79 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 8 | 1.79 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 8 | 1.79 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 12 | 1.79 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 12 | 1.79 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 12 | 1.79 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 9 | 1.79 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 3 | 1.79 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 17 | 1.79 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 1 | 1.79 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 7 | 1.79 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 10 | 1.79 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 11 | 1.79 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 11 | 1.79 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 11 | 1.79 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 6 | 1.79 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 6 | 1.79 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 6 | 1.79 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 20 | 1.79 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 3 | 1.79 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 4 | 1.79 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 4 | 1.79 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 4 | 1.79 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 2 | 1.79 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 2 | 1.79 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 2 | 1.79 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 17 | 1.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 5 | 1.79 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 5 | 1.79 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 5 | 1.79 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 17 | 1.79 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 19 | 1.79 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 19 | 1.79 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 3 | 1.79 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 20 | 1.78 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 15 | 1.78 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 15 | 1.78 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 12 | 1.78 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 12 | 1.78 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 14 | 1.78 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 14 | 1.78 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 8 | 1.78 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 8 | 1.78 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 8 | 1.78 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 8 | 1.78 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD1 | 4 | 1.78 |
| (1,8283) | 1:125:A:PHE:HA | 1:125:A:PHE:HD2 | 4 | 1.78 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 1 | 1.78 |
| (1,7718) | 1:54:A:ARG:H | 1:55:A:VAL:H | 13 | 1.78 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 9 | 1.78 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 3 | 1.78 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD2 | 13 | 1.78 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD2 | 13 | 1.78 |
| (1,7676) | 1:36:A:ARG:HB2 | 1:37:A:PRO:HD3 | 13 | 1.78 |
| (1,7676) | 1:36:A:ARG:HB3 | 1:37:A:PRO:HD3 | 13 | 1.78 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 3 | 1.78 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 20 | 1.78 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 12 | 1.78 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 4 | 1.78 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 4 | 1.78 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 4 | 1.78 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 4 | 1.78 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 4 | 1.78 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 4 | 1.78 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 4 | 1.78 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 4 | 1.78 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 4 | 1.78 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 5 | 1.78 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 13 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 17 | 1.78 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 17 | 1.78 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 17 | 1.78 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 17 | 1.78 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 17 | 1.78 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 17 | 1.78 |
| (1,6508) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 15 | 1.78 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 1 | 1.78 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 1 | 1.78 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 1 | 1.78 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 1 | 1.78 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 1 | 1.78 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 1 | 1.78 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 1 | 1.78 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 1 | 1.78 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 1 | 1.78 |
| (1,6020) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 5 | 1.78 |
| (1,6020) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 5 | 1.78 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 18 | 1.78 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 18 | 1.78 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 18 | 1.78 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 18 | 1.78 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 18 | 1.78 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 18 | 1.78 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 18 | 1.78 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 18 | 1.78 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 18 | 1.78 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 4 | 1.78 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 4 | 1.78 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 4 | 1.78 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 20 | 1.78 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 20 | 1.78 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 20 | 1.78 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 7 | 1.78 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 7 | 1.78 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 7 | 1.78 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 7 | 1.78 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 7 | 1.78 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 7 | 1.78 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 7 | 1.78 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 7 | 1.78 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 7 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 18 | 1.78 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 14 | 1.78 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 13 | 1.78 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 13 | 1.78 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 14 | 1.78 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 14 | 1.78 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 8 | 1.78 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 8 | 1.78 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 15 | 1.78 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 15 | 1.78 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 15 | 1.78 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 15 | 1.78 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 15 | 1.78 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 15 | 1.78 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 8 | 1.78 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 8 | 1.78 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 8 | 1.78 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 8 | 1.78 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 8 | 1.78 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 8 | 1.78 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 7 | 1.78 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 7 | 1.78 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 7 | 1.78 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 7 | 1.78 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 7 | 1.78 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 7 | 1.78 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 11 | 1.78 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 11 | 1.78 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 11 | 1.78 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 11 | 1.78 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 11 | 1.78 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 11 | 1.78 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 11 | 1.78 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 17 | 1.78 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 17 | 1.78 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 17 | 1.78 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 17 | 1.78 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 17 | 1.78 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 17 | 1.78 |
| (1,3973) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 5 | 1.78 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 11 | 1.78 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 11 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 15 | 1.78 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 15 | 1.78 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 15 | 1.78 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 15 | 1.78 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 1 | 1.78 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 1 | 1.78 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 1 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 1.78 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 1.78 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 14 | 1.78 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 14 | 1.78 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 14 | 1.78 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 4 | 1.78 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 4 | 1.78 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 4 | 1.78 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 4 | 1.78 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 4 | 1.78 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 4 | 1.78 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 20 | 1.78 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 1.78 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 12 | 1.78 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 12 | 1.78 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 12 | 1.78 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 5 | 1.78 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 5 | 1.78 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 5 | 1.78 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 19 | 1.78 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 4 | 1.78 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 4 | 1.78 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 4 | 1.78 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 4 | 1.78 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 15 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 15 | 1.78 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 15 | 1.78 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 9 | 1.78 |
| (1,3293) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 5 | 1.78 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 15 | 1.78 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 15 | 1.78 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 15 | 1.78 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 15 | 1.78 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 15 | 1.78 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 15 | 1.78 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 10 | 1.78 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 11 | 1.78 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 1.78 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 20 | 1.78 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 20 | 1.78 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 17 | 1.78 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 12 | 1.78 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 12 | 1.78 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 12 | 1.78 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 3 | 1.78 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 3 | 1.78 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 16 | 1.78 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 16 | 1.78 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 6 | 1.78 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 18 | 1.78 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 7 | 1.78 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 13 | 1.78 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 10 | 1.78 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 10 | 1.78 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 10 | 1.78 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 10 | 1.78 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 10 | 1.78 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 10 | 1.78 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 15 | 1.78 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 12 | 1.78 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 19 | 1.78 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 19 | 1.78 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 19 | 1.78 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 18 | 1.78 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 18 | 1.78 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 18 | 1.78 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 20 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 2 | 1.78 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 2 | 1.78 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 2 | 1.78 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 16 | 1.78 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 14 | 1.78 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 4 | 1.78 |
| (1,2347) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 15 | 1.78 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 12 | 1.78 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 14 | 1.78 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 14 | 1.78 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 14 | 1.78 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 11 | 1.78 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 11 | 1.78 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 11 | 1.78 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 11 | 1.78 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 11 | 1.78 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 11 | 1.78 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 11 | 1.78 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 11 | 1.78 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 11 | 1.78 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 5 | 1.78 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 11 | 1.78 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 11 | 1.78 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 11 | 1.78 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 1 | 1.78 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 1 | 1.78 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 1 | 1.78 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 1 | 1.78 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 1 | 1.78 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 1 | 1.78 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 1 | 1.78 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 1 | 1.78 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 1 | 1.78 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 2 | 1.78 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 2 | 1.78 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 2 | 1.78 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 2 | 1.78 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 2 | 1.78 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 2 | 1.78 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 2 | 1.78 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 2 | 1.78 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 2 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 15 | 1.78 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 9 | 1.78 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 9 | 1.78 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 9 | 1.78 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 12 | 1.78 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 12 | 1.78 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 12 | 1.78 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 7 | 1.78 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 7 | 1.78 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 7 | 1.78 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 8 | 1.78 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 8 | 1.78 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 8 | 1.78 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 9 | 1.78 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 17 | 1.78 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 15 | 1.78 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 15 | 1.78 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 15 | 1.78 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 15 | 1.78 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 15 | 1.78 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 15 | 1.78 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 19 | 1.78 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 19 | 1.78 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 19 | 1.78 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 6 | 1.78 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 17 | 1.78 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 17 | 1.78 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 17 | 1.78 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 1 | 1.78 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 1 | 1.78 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 18 | 1.78 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 11 | 1.78 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 11 | 1.78 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 7 | 1.78 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 7 | 1.78 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 7 | 1.78 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 4 | 1.78 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 1.78 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 17 | 1.78 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 17 | 1.78 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 17 | 1.78 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 14 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 20 | 1.78 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 20 | 1.78 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 20 | 1.78 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 14 | 1.78 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 14 | 1.78 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 14 | 1.78 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 14 | 1.78 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 14 | 1.78 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 14 | 1.78 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 18 | 1.78 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 18 | 1.78 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 18 | 1.78 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 18 | 1.78 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 18 | 1.78 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 18 | 1.78 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 18 | 1.78 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 18 | 1.78 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 18 | 1.78 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 12 | 1.78 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 12 | 1.78 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 12 | 1.78 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 19 | 1.78 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 19 | 1.78 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 19 | 1.78 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 19 | 1.78 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 19 | 1.78 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 19 | 1.78 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 6 | 1.78 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 6 | 1.78 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 6 | 1.78 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 2 | 1.78 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 2 | 1.78 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 2 | 1.78 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 13 | 1.78 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 16 | 1.78 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 16 | 1.78 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 16 | 1.78 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 13 | 1.78 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 20 | 1.78 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 10 | 1.78 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 12 | 1.78 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 12 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 8 | 1.78 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 8 | 1.78 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 8 | 1.78 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 15 | 1.78 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 15 | 1.78 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 15 | 1.78 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 18 | 1.78 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 18 | 1.78 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 18 | 1.78 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 2 | 1.78 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 8 | 1.78 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 20 | 1.78 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 20 | 1.78 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 20 | 1.78 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 5 | 1.78 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 5 | 1.78 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 5 | 1.78 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 4 | 1.78 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 4 | 1.78 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 8 | 1.77 |
| (4,187) | 1:131:A:GLN:CB | 1:13:A:LYS:H | 3 | 1.77 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 9 | 1.77 |
| (4,35) | 1:15:A:MET:CB | 1:86:A:LEU:H | 5 | 1.77 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 12 | 1.77 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 12 | 1.77 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 12 | 1.77 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 12 | 1.77 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 12 | 1.77 |
| (3,235) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 9 | 1.77 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG2 | 11 | 1.77 |
| (1,9554) | 1:143:A:THR:HG21 | 1:163:A:GLU:HG3 | 11 | 1.77 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG2 | 11 | 1.77 |
| (1,9554) | 1:143:A:THR:HG22 | 1:163:A:GLU:HG3 | 11 | 1.77 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG2 | 11 | 1.77 |
| (1,9554) | 1:143:A:THR:HG23 | 1:163:A:GLU:HG3 | 11 | 1.77 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 12 | 1.77 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 12 | 1.77 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 12 | 1.77 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 12 | 1.77 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 12 | 1.77 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 12 | 1.77 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 10 | 1.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 10 | 1.77 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 11 | 1.77 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 11 | 1.77 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 20 | 1.77 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 20 | 1.77 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 20 | 1.77 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 20 | 1.77 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 12 | 1.77 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 12 | 1.77 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 11 | 1.77 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 11 | 1.77 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 11 | 1.77 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 11 | 1.77 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 11 | 1.77 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 11 | 1.77 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 14 | 1.77 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG21 | 7 | 1.77 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG22 | 7 | 1.77 |
| (1,7646) | 1:28:A:ILE:HG21 | 1:29:A:THR:HG23 | 7 | 1.77 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG21 | 7 | 1.77 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG22 | 7 | 1.77 |
| (1,7646) | 1:28:A:ILE:HG22 | 1:29:A:THR:HG23 | 7 | 1.77 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG21 | 7 | 1.77 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG22 | 7 | 1.77 |
| (1,7646) | 1:28:A:ILE:HG23 | 1:29:A:THR:HG23 | 7 | 1.77 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 15 | 1.77 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 15 | 1.77 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 17 | 1.77 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 20 | 1.77 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 20 | 1.77 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 20 | 1.77 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 8 | 1.77 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 8 | 1.77 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 8 | 1.77 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 8 | 1.77 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 8 | 1.77 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 8 | 1.77 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 8 | 1.77 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 8 | 1.77 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 8 | 1.77 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 19 | 1.77 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 12 | 1.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 20 | 1.77 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 6 | 1.77 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 6 | 1.77 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 6 | 1.77 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 6 | 1.77 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 6 | 1.77 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 6 | 1.77 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 6 | 1.77 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 6 | 1.77 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 6 | 1.77 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 6 | 1.77 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 6 | 1.77 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 4 | 1.77 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 4 | 1.77 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 4 | 1.77 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 16 | 1.77 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 16 | 1.77 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 16 | 1.77 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 15 | 1.77 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 15 | 1.77 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 15 | 1.77 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 15 | 1.77 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 15 | 1.77 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 15 | 1.77 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 15 | 1.77 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 15 | 1.77 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 15 | 1.77 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 13 | 1.77 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 4 | 1.77 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 6 | 1.77 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 6 | 1.77 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 19 | 1.77 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 1 | 1.77 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 1 | 1.77 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 14 | 1.77 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 14 | 1.77 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 14 | 1.77 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 14 | 1.77 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 14 | 1.77 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 14 | 1.77 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 5 | 1.77 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 11 | 1.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 4 | 1.77 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 4 | 1.77 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 4 | 1.77 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 4 | 1.77 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 20 | 1.77 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 20 | 1.77 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 20 | 1.77 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 20 | 1.77 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 20 | 1.77 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 20 | 1.77 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE21 | 18 | 1.77 |
| (1,4127) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HE22 | 18 | 1.77 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE21 | 18 | 1.77 |
| (1,4127) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HE22 | 18 | 1.77 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE21 | 18 | 1.77 |
| (1,4127) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HE22 | 18 | 1.77 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 4 | 1.77 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 4 | 1.77 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 4 | 1.77 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 4 | 1.77 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 4 | 1.77 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 5 | 1.77 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 5 | 1.77 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 6 | 1.77 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 6 | 1.77 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 5 | 1.77 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 5 | 1.77 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 5 | 1.77 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 18 | 1.77 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 18 | 1.77 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 18 | 1.77 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 11 | 1.77 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 11 | 1.77 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 11 | 1.77 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 11 | 1.77 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 4 | 1.77 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 4 | 1.77 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 5 | 1.77 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 5 | 1.77 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 13 | 1.77 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 13 | 1.77 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 15 | 1.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 15 | 1.77 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 15 | 1.77 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 15 | 1.77 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 12 | 1.77 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 19 | 1.77 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 19 | 1.77 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 20 | 1.77 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 20 | 1.77 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 20 | 1.77 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 20 | 1.77 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 12 | 1.77 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 12 | 1.77 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 4 | 1.77 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 4 | 1.77 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 4 | 1.77 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 4 | 1.77 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 4 | 1.77 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 4 | 1.77 |
| (1,3544) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 12 | 1.77 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 9 | 1.77 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 9 | 1.77 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 9 | 1.77 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 9 | 1.77 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 9 | 1.77 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 9 | 1.77 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 14 | 1.77 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 14 | 1.77 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 14 | 1.77 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 14 | 1.77 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 14 | 1.77 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 14 | 1.77 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 10 | 1.77 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 16 | 1.77 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 16 | 1.77 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 16 | 1.77 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 12 | 1.77 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 12 | 1.77 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 15 | 1.77 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 13 | 1.77 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 7 | 1.77 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 7 | 1.77 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 18 | 1.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 18 | 1.77 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 12 | 1.77 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 20 | 1.77 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 6 | 1.77 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 6 | 1.77 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 12 | 1.77 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 12 | 1.77 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 5 | 1.77 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 13 | 1.77 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 18 | 1.77 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 16 | 1.77 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 12 | 1.77 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 12 | 1.77 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 12 | 1.77 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 16 | 1.77 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 16 | 1.77 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 16 | 1.77 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 10 | 1.77 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 10 | 1.77 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 10 | 1.77 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 10 | 1.77 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 10 | 1.77 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 10 | 1.77 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 19 | 1.77 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 19 | 1.77 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 19 | 1.77 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 19 | 1.77 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 19 | 1.77 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 19 | 1.77 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 19 | 1.77 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 19 | 1.77 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 19 | 1.77 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 11 | 1.77 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 19 | 1.77 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 1 | 1.77 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 11 | 1.77 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 11 | 1.77 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 11 | 1.77 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 4 | 1.77 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 4 | 1.77 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 4 | 1.77 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 18 | 1.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 18 | 1.77 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 18 | 1.77 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 3 | 1.77 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 3 | 1.77 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 3 | 1.77 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 11 | 1.77 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 7 | 1.77 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 3 | 1.77 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 3 | 1.77 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 3 | 1.77 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 15 | 1.77 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 15 | 1.77 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 15 | 1.77 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 15 | 1.77 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 15 | 1.77 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 15 | 1.77 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 15 | 1.77 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 15 | 1.77 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 15 | 1.77 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 12 | 1.77 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 16 | 1.77 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 16 | 1.77 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 16 | 1.77 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 8 | 1.77 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 8 | 1.77 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 8 | 1.77 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 8 | 1.77 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 8 | 1.77 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 8 | 1.77 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 8 | 1.77 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 8 | 1.77 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 8 | 1.77 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 11 | 1.77 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 11 | 1.77 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 11 | 1.77 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 13 | 1.77 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 13 | 1.77 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 13 | 1.77 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 13 | 1.77 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 13 | 1.77 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 13 | 1.77 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 13 | 1.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 13 | 1.77 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 13 | 1.77 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 6 | 1.77 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 15 | 1.77 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 15 | 1.77 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 15 | 1.77 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 15 | 1.77 |
| (1,1733) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 3 | 1.77 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 4 | 1.77 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 4 | 1.77 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 4 | 1.77 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 4 | 1.77 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 4 | 1.77 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 4 | 1.77 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 4 | 1.77 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 4 | 1.77 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 4 | 1.77 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 7 | 1.77 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 7 | 1.77 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 6 | 1.77 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 20 | 1.77 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 20 | 1.77 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 20 | 1.77 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 18 | 1.77 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 18 | 1.77 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 18 | 1.77 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 8 | 1.77 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 8 | 1.77 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 8 | 1.77 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 19 | 1.77 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 19 | 1.77 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 19 | 1.77 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 12 | 1.77 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 14 | 1.77 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 19 | 1.77 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 19 | 1.77 |
| (1,1163) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 19 | 1.77 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 18 | 1.77 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 10 | 1.77 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 10 | 1.77 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 10 | 1.77 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 10 | 1.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 10 | 1.77 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 10 | 1.77 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 10 | 1.77 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 10 | 1.77 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 10 | 1.77 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 8 | 1.77 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 8 | 1.77 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 8 | 1.77 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 11 | 1.77 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 13 | 1.77 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 13 | 1.77 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 13 | 1.77 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 14 | 1.77 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 14 | 1.77 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 14 | 1.77 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 6 | 1.77 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 11 | 1.77 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 3 | 1.77 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 12 | 1.77 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 12 | 1.77 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 12 | 1.77 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 12 | 1.77 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 12 | 1.77 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 12 | 1.77 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 19 | 1.77 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 19 | 1.77 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 19 | 1.77 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 20 | 1.77 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 20 | 1.77 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 20 | 1.77 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 3 | 1.77 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 3 | 1.77 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 3 | 1.77 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 11 | 1.77 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 10 | 1.77 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 11 | 1.77 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 11 | 1.77 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 20 | 1.77 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 20 | 1.77 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 20 | 1.77 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 19 | 1.77 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 19 | 1.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 19 | 1.77 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 20 | 1.77 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 10 | 1.77 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 8 | 1.77 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 12 | 1.77 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 12 | 1.77 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 12 | 1.77 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 2 | 1.77 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 10 | 1.77 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 10 | 1.77 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 10 | 1.77 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 20 | 1.77 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 11 | 1.77 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 14 | 1.77 |
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 6 | 1.77 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 19 | 1.77 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 19 | 1.77 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 19 | 1.77 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 5 | 1.77 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 17 | 1.77 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 3 | 1.77 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 3 | 1.77 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 3 | 1.77 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 5 | 1.76 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 8 | 1.76 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 8 | 1.76 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 8 | 1.76 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 17 | 1.76 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 17 | 1.76 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 19 | 1.76 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 19 | 1.76 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 12 | 1.76 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 12 | 1.76 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 13 | 1.76 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 13 | 1.76 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 13 | 1.76 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 13 | 1.76 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 12 | 1.76 |
| (1,8598) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 12 | 1.76 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 17 | 1.76 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 10 | 1.76 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 10 | 1.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 12 | 1.76 |
| (1,7486) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 12 | 1.76 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 6 | 1.76 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 11 | 1.76 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 20 | 1.76 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 20 | 1.76 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 20 | 1.76 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 20 | 1.76 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 20 | 1.76 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 20 | 1.76 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 20 | 1.76 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 20 | 1.76 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 20 | 1.76 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 9 | 1.76 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 9 | 1.76 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 9 | 1.76 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 12 | 1.76 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 6 | 1.76 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 16 | 1.76 |
| (1,6896) | 1:29:A:THR:H | 1:30:A:ASN:H | 13 | 1.76 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 19 | 1.76 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 19 | 1.76 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 19 | 1.76 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 19 | 1.76 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 19 | 1.76 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 19 | 1.76 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 19 | 1.76 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 11 | 1.76 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 11 | 1.76 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 11 | 1.76 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 11 | 1.76 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 11 | 1.76 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 11 | 1.76 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 2 | 1.76 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 2 | 1.76 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 2 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 9 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 9 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 9 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 9 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 9 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 9 | 1.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 9 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 9 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 9 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 12 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 12 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 12 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 12 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 12 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 12 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 12 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 12 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 12 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 16 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 16 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 16 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 16 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 16 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 16 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 16 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 16 | 1.76 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 16 | 1.76 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 8 | 1.76 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 8 | 1.76 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 8 | 1.76 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 18 | 1.76 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 18 | 1.76 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 18 | 1.76 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 7 | 1.76 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 7 | 1.76 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 7 | 1.76 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 20 | 1.76 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 20 | 1.76 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 20 | 1.76 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 9 | 1.76 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 5 | 1.76 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 5 | 1.76 |
| (1,5538) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 5 | 1.76 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 5 | 1.76 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 5 | 1.76 |
| (1,5538) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 5 | 1.76 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 5 | 1.76 |
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 5 | 1.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5538) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 5 | 1.76 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 20 | 1.76 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 20 | 1.76 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 20 | 1.76 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 20 | 1.76 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 20 | 1.76 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 20 | 1.76 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 20 | 1.76 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 20 | 1.76 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 20 | 1.76 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 18 | 1.76 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 18 | 1.76 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 18 | 1.76 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 16 | 1.76 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 16 | 1.76 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 16 | 1.76 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 16 | 1.76 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 16 | 1.76 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 16 | 1.76 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 17 | 1.76 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 7 | 1.76 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 7 | 1.76 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 15 | 1.76 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 15 | 1.76 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 19 | 1.76 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 19 | 1.76 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 3 | 1.76 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 3 | 1.76 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 3 | 1.76 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 3 | 1.76 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 3 | 1.76 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 3 | 1.76 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 17 | 1.76 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 12 | 1.76 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 8 | 1.76 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 8 | 1.76 |
| (1,4143) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 8 | 1.76 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 8 | 1.76 |
| (1,4143) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 8 | 1.76 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 8 | 1.76 |
| (1,4143) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 8 | 1.76 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 1 | 1.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 1 | 1.76 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 2 | 1.76 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 8 | 1.76 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 8 | 1.76 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 4 | 1.76 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 4 | 1.76 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 12 | 1.76 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 12 | 1.76 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 9 | 1.76 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 18 | 1.76 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 18 | 1.76 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 18 | 1.76 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 1.76 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 1.76 |
| (1,3805) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 1.76 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 1.76 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 1.76 |
| (1,3805) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 1.76 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 12 | 1.76 |
| (1,3542) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 12 | 1.76 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 3 | 1.76 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 3 | 1.76 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 19 | 1.76 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 19 | 1.76 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 18 | 1.76 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 18 | 1.76 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 18 | 1.76 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 20 | 1.76 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 20 | 1.76 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 20 | 1.76 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 13 | 1.76 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 13 | 1.76 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 13 | 1.76 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 13 | 1.76 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 13 | 1.76 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 13 | 1.76 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 13 | 1.76 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 13 | 1.76 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 13 | 1.76 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 20 | 1.76 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 20 | 1.76 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 20 | 1.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 20 | 1.76 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 20 | 1.76 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 20 | 1.76 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 20 | 1.76 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 20 | 1.76 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 20 | 1.76 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 15 | 1.76 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 15 | 1.76 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 15 | 1.76 |
| (1,3424) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 4 | 1.76 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 10 | 1.76 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 10 | 1.76 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 10 | 1.76 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 10 | 1.76 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 10 | 1.76 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 10 | 1.76 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 10 | 1.76 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 10 | 1.76 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 10 | 1.76 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 20 | 1.76 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 17 | 1.76 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 20 | 1.76 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 3 | 1.76 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 4 | 1.76 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 4 | 1.76 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 15 | 1.76 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 15 | 1.76 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 7 | 1.76 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 7 | 1.76 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 7 | 1.76 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 7 | 1.76 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 7 | 1.76 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 7 | 1.76 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 14 | 1.76 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 14 | 1.76 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 14 | 1.76 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 19 | 1.76 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 19 | 1.76 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 19 | 1.76 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 3 | 1.76 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 3 | 1.76 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 3 | 1.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 10 | 1.76 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 14 | 1.76 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 14 | 1.76 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 14 | 1.76 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 7 | 1.76 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 1 | 1.76 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 1 | 1.76 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 15 | 1.76 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 15 | 1.76 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 13 | 1.76 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 13 | 1.76 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 13 | 1.76 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 1 | 1.76 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 1 | 1.76 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 9 | 1.76 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 16 | 1.76 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 5 | 1.76 |
| (1,2896) | 1:29:A:THR:H | 1:30:A:ASN:H | 13 | 1.76 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 2 | 1.76 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 8 | 1.76 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 16 | 1.76 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 16 | 1.76 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 20 | 1.76 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 20 | 1.76 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 20 | 1.76 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 18 | 1.76 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 12 | 1.76 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 12 | 1.76 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 12 | 1.76 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 3 | 1.76 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 6 | 1.76 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 6 | 1.76 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 6 | 1.76 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 9 | 1.76 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 15 | 1.76 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 15 | 1.76 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 15 | 1.76 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 14 | 1.76 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 14 | 1.76 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 14 | 1.76 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 5 | 1.76 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 5 | 1.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 5 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 15 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 15 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 15 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 15 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 15 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 15 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 15 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 15 | 1.76 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 15 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 9 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 9 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 9 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 9 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 9 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 9 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 9 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 9 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 9 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 12 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 12 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 12 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 12 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 12 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 12 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 12 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 12 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 12 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 16 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 16 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 16 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 16 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 16 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 16 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 16 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 16 | 1.76 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 16 | 1.76 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 8 | 1.76 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 19 | 1.76 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 8 | 1.76 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 8 | 1.76 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 8 | 1.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 15 | 1.76 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 17 | 1.76 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 3 | 1.76 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 3 | 1.76 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 3 | 1.76 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 16 | 1.76 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 16 | 1.76 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 16 | 1.76 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 16 | 1.76 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 16 | 1.76 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 16 | 1.76 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 3 | 1.76 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 3 | 1.76 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 5 | 1.76 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 5 | 1.76 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 5 | 1.76 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 6 | 1.76 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 12 | 1.76 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 1 | 1.76 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 17 | 1.76 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 17 | 1.76 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 17 | 1.76 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 17 | 1.76 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 16 | 1.76 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 16 | 1.76 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 16 | 1.76 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 2 | 1.76 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 2 | 1.76 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 3 | 1.76 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 18 | 1.76 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 9 | 1.76 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 9 | 1.76 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 9 | 1.76 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 9 | 1.76 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 1.76 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 19 | 1.76 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 19 | 1.76 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 19 | 1.76 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 5 | 1.76 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 5 | 1.76 |
| (1,698) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 5 | 1.76 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 5 | 1.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 5 | 1.76 |
| (1,698) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 5 | 1.76 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 5 | 1.76 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 5 | 1.76 |
| (1,698) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 5 | 1.76 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 6 | 1.76 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 6 | 1.76 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 6 | 1.76 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 14 | 1.76 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 14 | 1.76 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 14 | 1.76 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 14 | 1.76 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 14 | 1.76 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 14 | 1.76 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 18 | 1.76 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 18 | 1.76 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 9 | 1.76 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 6 | 1.76 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 13 | 1.76 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 15 | 1.76 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 12 | 1.76 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 5 | 1.76 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 5 | 1.76 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 9 | 1.76 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 9 | 1.76 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 9 | 1.76 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 7 | 1.76 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 10 | 1.76 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 13 | 1.76 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 13 | 1.76 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 13 | 1.76 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 12 | 1.76 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 12 | 1.76 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 12 | 1.76 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 3 | 1.76 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 19 | 1.76 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 17 | 1.76 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 20 | 1.76 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 20 | 1.76 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 3 | 1.75 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 12 | 1.75 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 18 | 1.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 2 | 1.75 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 9 | 1.75 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 9 | 1.75 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 14 | 1.75 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 14 | 1.75 |
| (3,355) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 12 | 1.75 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 17 | 1.75 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 17 | 1.75 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 17 | 1.75 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 17 | 1.75 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 17 | 1.75 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 17 | 1.75 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 17 | 1.75 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 17 | 1.75 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 17 | 1.75 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 11 | 1.75 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 11 | 1.75 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 11 | 1.75 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 11 | 1.75 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 11 | 1.75 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 11 | 1.75 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 5 | 1.75 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 5 | 1.75 |
| (1,8635) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 4 | 1.75 |
| (1,8635) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 4 | 1.75 |
| (1,8335) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 10 | 1.75 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 16 | 1.75 |
| (1,7299) | 1:28:A:ILE:H | 1:29:A:THR:H | 2 | 1.75 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 7 | 1.75 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 13 | 1.75 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 13 | 1.75 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 13 | 1.75 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 9 | 1.75 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 4 | 1.75 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 1 | 1.75 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 1 | 1.75 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 1 | 1.75 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 1 | 1.75 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 12 | 1.75 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 12 | 1.75 |
| (1,6462) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 12 | 1.75 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 12 | 1.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 12 | 1.75 |
| (1,6462) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 12 | 1.75 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 12 | 1.75 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 12 | 1.75 |
| (1,6462) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 12 | 1.75 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 10 | 1.75 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 10 | 1.75 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 10 | 1.75 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 10 | 1.75 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 10 | 1.75 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 10 | 1.75 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 10 | 1.75 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 4 | 1.75 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 1 | 1.75 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 1 | 1.75 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 1 | 1.75 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 19 | 1.75 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 19 | 1.75 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 19 | 1.75 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 9 | 1.75 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 9 | 1.75 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 9 | 1.75 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 9 | 1.75 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 9 | 1.75 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 9 | 1.75 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 9 | 1.75 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 9 | 1.75 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 9 | 1.75 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 9 | 1.75 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 2 | 1.75 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 8 | 1.75 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 8 | 1.75 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 8 | 1.75 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 8 | 1.75 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 8 | 1.75 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 8 | 1.75 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 8 | 1.75 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 8 | 1.75 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 8 | 1.75 |
| (1,4852) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 11 | 1.75 |
| (1,4852) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 11 | 1.75 |
| (1,4852) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 11 | 1.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 13 | 1.75 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 20 | 1.75 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 19 | 1.75 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 19 | 1.75 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 19 | 1.75 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 19 | 1.75 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 19 | 1.75 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 19 | 1.75 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 2 | 1.75 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 2 | 1.75 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 2 | 1.75 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 2 | 1.75 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 2 | 1.75 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 2 | 1.75 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 1 | 1.75 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 6 | 1.75 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 7 | 1.75 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 11 | 1.75 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 11 | 1.75 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 11 | 1.75 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 11 | 1.75 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 11 | 1.75 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 11 | 1.75 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 10 | 1.75 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 10 | 1.75 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 10 | 1.75 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 10 | 1.75 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 10 | 1.75 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 10 | 1.75 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 4 | 1.75 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 4 | 1.75 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 4 | 1.75 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 4 | 1.75 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 4 | 1.75 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 4 | 1.75 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 7 | 1.75 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 7 | 1.75 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 15 | 1.75 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 15 | 1.75 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 15 | 1.75 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 15 | 1.75 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 15 | 1.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 15 | 1.75 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 18 | 1.75 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 18 | 1.75 |
| (1,3933) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 16 | 1.75 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 12 | 1.75 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 12 | 1.75 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 18 | 1.75 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 18 | 1.75 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 18 | 1.75 |
| (1,3590) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 4 | 1.75 |
| (1,3590) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 4 | 1.75 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 13 | 1.75 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 12 | 1.75 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 12 | 1.75 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 20 | 1.75 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 20 | 1.75 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 15 | 1.75 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 15 | 1.75 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 10 | 1.75 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 10 | 1.75 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 10 | 1.75 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 10 | 1.75 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 10 | 1.75 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 10 | 1.75 |
| (1,3455) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 6 | 1.75 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 13 | 1.75 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 17 | 1.75 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 17 | 1.75 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 17 | 1.75 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 13 | 1.75 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 13 | 1.75 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 13 | 1.75 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 8 | 1.75 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 16 | 1.75 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 16 | 1.75 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 20 | 1.75 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 20 | 1.75 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 18 | 1.75 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 1 | 1.75 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 16 | 1.75 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 16 | 1.75 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 16 | 1.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 16 | 1.75 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 6 | 1.75 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 8 | 1.75 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 13 | 1.75 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 11 | 1.75 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 8 | 1.75 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 7 | 1.75 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 10 | 1.75 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 10 | 1.75 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 4 | 1.75 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 4 | 1.75 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 16 | 1.75 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 18 | 1.75 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 18 | 1.75 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 18 | 1.75 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 16 | 1.75 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 1 | 1.75 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 4 | 1.75 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 4 | 1.75 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 8 | 1.75 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 8 | 1.75 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 9 | 1.75 |
| (1,2603) | 1:16:A:SER:H | 1:20:A:GLY:H | 18 | 1.75 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 6 | 1.75 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 10 | 1.75 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 6 | 1.75 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 3 | 1.75 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 18 | 1.75 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 12 | 1.75 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 12 | 1.75 |
| (1,2222) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 12 | 1.75 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 12 | 1.75 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 12 | 1.75 |
| (1,2222) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 12 | 1.75 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 12 | 1.75 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 12 | 1.75 |
| (1,2222) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 12 | 1.75 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 18 | 1.75 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 18 | 1.75 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 18 | 1.75 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 18 | 1.75 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 18 | 1.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 18 | 1.75 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 13 | 1.75 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 16 | 1.75 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 16 | 1.75 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 16 | 1.75 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 13 | 1.75 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 13 | 1.75 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 5 | 1.75 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 16 | 1.75 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 16 | 1.75 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 16 | 1.75 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 12 | 1.75 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 1 | 1.75 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 1 | 1.75 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 18 | 1.75 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 4 | 1.75 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 7 | 1.75 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 7 | 1.75 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 7 | 1.75 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 5 | 1.75 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 5 | 1.75 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 5 | 1.75 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 3 | 1.75 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 3 | 1.75 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 3 | 1.75 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 3 | 1.75 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 3 | 1.75 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 3 | 1.75 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 13 | 1.75 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 16 | 1.75 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 7 | 1.75 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 5 | 1.75 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 5 | 1.75 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 5 | 1.75 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 4 | 1.75 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 4 | 1.75 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 4 | 1.75 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 1 | 1.75 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 16 | 1.75 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 16 | 1.75 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 16 | 1.75 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 4 | 1.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 4 | 1.75 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 4 | 1.75 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 14 | 1.75 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 14 | 1.75 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 14 | 1.75 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 14 | 1.75 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 14 | 1.75 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 14 | 1.75 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 14 | 1.75 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 14 | 1.75 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 14 | 1.75 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 18 | 1.75 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 18 | 1.75 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 18 | 1.75 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 5 | 1.75 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 5 | 1.75 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 5 | 1.75 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 9 | 1.75 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 7 | 1.75 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 7 | 1.75 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 4 | 1.75 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 7 | 1.75 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 2 | 1.75 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 2 | 1.75 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 2 | 1.75 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 14 | 1.75 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 4 | 1.75 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 5 | 1.74 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 5 | 1.74 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 17 | 1.74 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 2 | 1.74 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 2 | 1.74 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 2 | 1.74 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 2 | 1.74 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 15 | 1.74 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 15 | 1.74 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 15 | 1.74 |
| (1,9478) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD3 | 10 | 1.74 |
| (1,9478) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD3 | 10 | 1.74 |
| (1,8295) | 1:127:A:ARG:H | 1:128:A:GLY:H | 2 | 1.74 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 19 | 1.74 |
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 19 | 1.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8065) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 19 | 1.74 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 19 | 1.74 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 19 | 1.74 |
| (1,8065) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 19 | 1.74 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 19 | 1.74 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 19 | 1.74 |
| (1,8065) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 19 | 1.74 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 2 | 1.74 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 5 | 1.74 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 5 | 1.74 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 20 | 1.74 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 7 | 1.74 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 7 | 1.74 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 7 | 1.74 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 11 | 1.74 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 16 | 1.74 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 18 | 1.74 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 9 | 1.74 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 6 | 1.74 |
| (1,6728) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 12 | 1.74 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 12 | 1.74 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 5 | 1.74 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 1 | 1.74 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 1 | 1.74 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 1 | 1.74 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 1 | 1.74 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 1 | 1.74 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 1 | 1.74 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 1 | 1.74 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 1 | 1.74 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 1 | 1.74 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 2 | 1.74 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 2 | 1.74 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 2 | 1.74 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 2 | 1.74 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 2 | 1.74 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 2 | 1.74 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 2 | 1.74 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 2 | 1.74 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 2 | 1.74 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG21 | 2 | 1.74 |
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG22 | 2 | 1.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6301) | 1:150:A:VAL:HG11 | 1:152:A:THR:HG23 | 2 | 1.74 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG21 | 2 | 1.74 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG22 | 2 | 1.74 |
| (1,6301) | 1:150:A:VAL:HG12 | 1:152:A:THR:HG23 | 2 | 1.74 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG21 | 2 | 1.74 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG22 | 2 | 1.74 |
| (1,6301) | 1:150:A:VAL:HG13 | 1:152:A:THR:HG23 | 2 | 1.74 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 5 | 1.74 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 5 | 1.74 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 5 | 1.74 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 7 | 1.74 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 4 | 1.74 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 3 | 1.74 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 3 | 1.74 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 3 | 1.74 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 3 | 1.74 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 3 | 1.74 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 3 | 1.74 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 3 | 1.74 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 3 | 1.74 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 3 | 1.74 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 11 | 1.74 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 11 | 1.74 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 11 | 1.74 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 11 | 1.74 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 11 | 1.74 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 11 | 1.74 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 20 | 1.74 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 20 | 1.74 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 20 | 1.74 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 4 | 1.74 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 7 | 1.74 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 7 | 1.74 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 7 | 1.74 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 7 | 1.74 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 7 | 1.74 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 7 | 1.74 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 6 | 1.74 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 13 | 1.74 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 13 | 1.74 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 13 | 1.74 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 13 | 1.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 13 | 1.74 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 13 | 1.74 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 20 | 1.74 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 20 | 1.74 |
| (1,4195) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 11 | 1.74 |
| (1,4195) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 11 | 1.74 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 15 | 1.74 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 17 | 1.74 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 17 | 1.74 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 17 | 1.74 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 4 | 1.74 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 4 | 1.74 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 1 | 1.74 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 1 | 1.74 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 5 | 1.74 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 5 | 1.74 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 3 | 1.74 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 3 | 1.74 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 3 | 1.74 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 11 | 1.74 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 11 | 1.74 |
| (1,3657) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 15 | 1.74 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 13 | 1.74 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 13 | 1.74 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 15 | 1.74 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 15 | 1.74 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 15 | 1.74 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 15 | 1.74 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 15 | 1.74 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 15 | 1.74 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 12 | 1.74 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 12 | 1.74 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 6 | 1.74 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 19 | 1.74 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 19 | 1.74 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 19 | 1.74 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 16 | 1.74 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 16 | 1.74 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 16 | 1.74 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 5 | 1.74 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 12 | 1.74 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 6 | 1.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 6 | 1.74 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 10 | 1.74 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 10 | 1.74 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 1.74 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 4 | 1.74 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 5 | 1.74 |
| (1,3097) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 5 | 1.74 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 11 | 1.74 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 12 | 1.74 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 5 | 1.74 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 9 | 1.74 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 18 | 1.74 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 18 | 1.74 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 6 | 1.74 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 15 | 1.74 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 15 | 1.74 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 17 | 1.74 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 17 | 1.74 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 6 | 1.74 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 12 | 1.74 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 11 | 1.74 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 7 | 1.74 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 13 | 1.74 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 13 | 1.74 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 13 | 1.74 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 20 | 1.74 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 2 | 1.74 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 2 | 1.74 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 2 | 1.74 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 2 | 1.74 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 2 | 1.74 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 2 | 1.74 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 2 | 1.74 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 2 | 1.74 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 2 | 1.74 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 1 | 1.74 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 1 | 1.74 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 1 | 1.74 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 5 | 1.74 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 5 | 1.74 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 5 | 1.74 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 3 | 1.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 8 | 1.74 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 1 | 1.74 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 5 | 1.74 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 5 | 1.74 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 1 | 1.74 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 1 | 1.74 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 1 | 1.74 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 8 | 1.74 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 16 | 1.74 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 16 | 1.74 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 16 | 1.74 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 16 | 1.74 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 16 | 1.74 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 16 | 1.74 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 11 | 1.74 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 13 | 1.74 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 17 | 1.74 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 17 | 1.74 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 7 | 1.74 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 16 | 1.74 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 2 | 1.74 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 2 | 1.74 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 2 | 1.74 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 1 | 1.74 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 15 | 1.74 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 11 | 1.74 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 11 | 1.74 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 11 | 1.74 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 11 | 1.74 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 11 | 1.74 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 11 | 1.74 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 3 | 1.74 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 3 | 1.74 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 3 | 1.74 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 13 | 1.74 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 13 | 1.74 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 13 | 1.74 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 13 | 1.74 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 17 | 1.74 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 17 | 1.74 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 17 | 1.74 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 4 | 1.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 5 | 1.74 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 5 | 1.74 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 5 | 1.74 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 13 | 1.74 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 1 | 1.74 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 18 | 1.74 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 1 | 1.74 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 1 | 1.74 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 17 | 1.74 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 6 | 1.74 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 15 | 1.74 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 10 | 1.74 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 10 | 1.74 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 12 | 1.74 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 6 | 1.74 |
| (1,136) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 17 | 1.74 |
| (1,136) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 17 | 1.74 |
| (1,136) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 17 | 1.74 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 7 | 1.74 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 7 | 1.74 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 7 | 1.74 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 8 | 1.74 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 6 | 1.74 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 6 | 1.74 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 6 | 1.74 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 17 | 1.74 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 17 | 1.74 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 17 | 1.74 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 10 | 1.74 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 10 | 1.74 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 10 | 1.74 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 5 | 1.74 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 5 | 1.74 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 5 | 1.74 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 11 | 1.74 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 11 | 1.74 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 2 | 1.74 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 2 | 1.74 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 20 | 1.73 |
| (4,80) | 1:15:A:MET:CB | 1:139:A:PHE:H | 17 | 1.73 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 4 | 1.73 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 4 | 1.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,433) | 1:65:A:SER:H | 1:82:A:LYS:H | 16 | 1.73 |
| (3,221) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 11 | 1.73 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 13 | 1.73 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 13 | 1.73 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 13 | 1.73 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 13 | 1.73 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 13 | 1.73 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 13 | 1.73 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 8 | 1.73 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 8 | 1.73 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 19 | 1.73 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 19 | 1.73 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 12 | 1.73 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 12 | 1.73 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 2 | 1.73 |
| (1,8215) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 18 | 1.73 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 11 | 1.73 |
| (1,7735) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 8 | 1.73 |
| (1,7735) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 8 | 1.73 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 18 | 1.73 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 2 | 1.73 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 5 | 1.73 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 5 | 1.73 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 5 | 1.73 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 18 | 1.73 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 18 | 1.73 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 18 | 1.73 |
| (1,6310) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 18 | 1.73 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 18 | 1.73 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 18 | 1.73 |
| (1,6310) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 18 | 1.73 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 18 | 1.73 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 18 | 1.73 |
| (1,6310) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 18 | 1.73 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 18 | 1.73 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 18 | 1.73 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 18 | 1.73 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 19 | 1.73 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 6 | 1.73 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 6 | 1.73 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 17 | 1.73 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 7 | 1.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 3 | 1.73 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 3 | 1.73 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 3 | 1.73 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 19 | 1.73 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 19 | 1.73 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 19 | 1.73 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 11 | 1.73 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 16 | 1.73 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 16 | 1.73 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 16 | 1.73 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 8 | 1.73 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 8 | 1.73 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 19 | 1.73 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 19 | 1.73 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 19 | 1.73 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 19 | 1.73 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 19 | 1.73 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 19 | 1.73 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 18 | 1.73 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 18 | 1.73 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 18 | 1.73 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 18 | 1.73 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 18 | 1.73 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 18 | 1.73 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 18 | 1.73 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 10 | 1.73 |
| (1,4429) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 10 | 1.73 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 10 | 1.73 |
| (1,4429) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 10 | 1.73 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 2 | 1.73 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 2 | 1.73 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 7 | 1.73 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 10 | 1.73 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 10 | 1.73 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 10 | 1.73 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 4 | 1.73 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 4 | 1.73 |
| (1,4219) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 4 | 1.73 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 1 | 1.73 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 1 | 1.73 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 1 | 1.73 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 3 | 1.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 16 | 1.73 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 16 | 1.73 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 16 | 1.73 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 16 | 1.73 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 16 | 1.73 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 16 | 1.73 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 1 | 1.73 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 1 | 1.73 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 1 | 1.73 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 1 | 1.73 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 1 | 1.73 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 1 | 1.73 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 5 | 1.73 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 5 | 1.73 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 9 | 1.73 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 9 | 1.73 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 13 | 1.73 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 13 | 1.73 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 5 | 1.73 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 5 | 1.73 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 16 | 1.73 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 6 | 1.73 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 17 | 1.73 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 17 | 1.73 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 19 | 1.73 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 19 | 1.73 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 19 | 1.73 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 1.73 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 19 | 1.73 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 6 | 1.73 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 6 | 1.73 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 6 | 1.73 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 6 | 1.73 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 5 | 1.73 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 5 | 1.73 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 5 | 1.73 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 18 | 1.73 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 18 | 1.73 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 18 | 1.73 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 17 | 1.73 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 3 | 1.73 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 16 | 1.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 12 | 1.73 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 18 | 1.73 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 18 | 1.73 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 18 | 1.73 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 18 | 1.73 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 18 | 1.73 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 18 | 1.73 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 9 | 1.73 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 9 | 1.73 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 3 | 1.73 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 3 | 1.73 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 8 | 1.73 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 16 | 1.73 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 16 | 1.73 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 8 | 1.73 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 8 | 1.73 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 17 | 1.73 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 17 | 1.73 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 11 | 1.73 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 1 | 1.73 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 9 | 1.73 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 18 | 1.73 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 18 | 1.73 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 18 | 1.73 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 15 | 1.73 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 17 | 1.73 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 11 | 1.73 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 11 | 1.73 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 3 | 1.73 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 3 | 1.73 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 6 | 1.73 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 6 | 1.73 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 9 | 1.73 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 15 | 1.73 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 15 | 1.73 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 15 | 1.73 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 14 | 1.73 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 1.73 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 14 | 1.73 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 16 | 1.73 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 9 | 1.73 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 4 | 1.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 17 | 1.73 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 17 | 1.73 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 17 | 1.73 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 11 | 1.73 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 11 | 1.73 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 11 | 1.73 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 13 | 1.73 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 18 | 1.73 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 18 | 1.73 |
| (1,1982) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 18 | 1.73 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 18 | 1.73 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 18 | 1.73 |
| (1,1982) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 18 | 1.73 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 18 | 1.73 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 18 | 1.73 |
| (1,1982) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 18 | 1.73 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 19 | 1.73 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 19 | 1.73 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 19 | 1.73 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 3 | 1.73 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 8 | 1.73 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 13 | 1.73 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 1 | 1.73 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 1 | 1.73 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 1 | 1.73 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 12 | 1.73 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 12 | 1.73 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 12 | 1.73 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 1.73 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 6 | 1.73 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 19 | 1.73 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 9 | 1.73 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 9 | 1.73 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 3 | 1.73 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 3 | 1.73 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 3 | 1.73 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 3 | 1.73 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 3 | 1.73 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 3 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 8 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 8 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 8 | 1.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 8 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 8 | 1.73 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 8 | 1.73 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 1 | 1.73 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 1 | 1.73 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 1 | 1.73 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 19 | 1.73 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 8 | 1.73 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 9 | 1.73 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 7 | 1.73 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 3 | 1.73 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 14 | 1.73 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 16 | 1.73 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 5 | 1.73 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 9 | 1.73 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 9 | 1.73 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 9 | 1.73 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 8 | 1.73 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 2 | 1.73 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 2 | 1.73 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 2 | 1.73 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 17 | 1.73 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 17 | 1.73 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 17 | 1.73 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 8 | 1.73 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 6 | 1.73 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 7 | 1.73 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 7 | 1.73 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 10 | 1.73 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 19 | 1.73 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 12 | 1.73 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 20 | 1.73 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 20 | 1.73 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 20 | 1.73 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 1 | 1.73 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 1 | 1.73 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 1 | 1.73 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 7 | 1.73 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 7 | 1.73 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 7 | 1.73 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 11 | 1.73 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 1 | 1.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 14 | 1.73 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 14 | 1.73 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 14 | 1.73 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 7 | 1.73 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 7 | 1.73 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 7 | 1.73 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 10 | 1.73 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 10 | 1.73 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 10 | 1.73 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 6 | 1.73 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 20 | 1.73 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 20 | 1.73 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 19 | 1.73 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 19 | 1.73 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 9 | 1.72 |
| (3,611) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 13 | 1.72 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 7 | 1.72 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 8 | 1.72 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 8 | 1.72 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB1 | 6 | 1.72 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB2 | 6 | 1.72 |
| (1,8230) | 1:112:A:ASP:H | 1:116:A:ALA:HB3 | 6 | 1.72 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 4 | 1.72 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 9 | 1.72 |
| (1,7355) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 7 | 1.72 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 4 | 1.72 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 4 | 1.72 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 4 | 1.72 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 12 | 1.72 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 17 | 1.72 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 17 | 1.72 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 17 | 1.72 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 12 | 1.72 |
| (1,6530) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 7 | 1.72 |
| (1,6530) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 7 | 1.72 |
| (1,6530) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 7 | 1.72 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 18 | 1.72 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 9 | 1.72 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 9 | 1.72 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 9 | 1.72 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 8 | 1.72 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 5 | 1.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 5 | 1.72 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 5 | 1.72 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 5 | 1.72 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 5 | 1.72 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 5 | 1.72 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 5 | 1.72 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 5 | 1.72 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 5 | 1.72 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD11 | 8 | 1.72 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD12 | 8 | 1.72 |
| (1,5094) | 1:78:A:ILE:HG21 | 1:78:A:ILE:HD13 | 8 | 1.72 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD11 | 8 | 1.72 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD12 | 8 | 1.72 |
| (1,5094) | 1:78:A:ILE:HG22 | 1:78:A:ILE:HD13 | 8 | 1.72 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD11 | 8 | 1.72 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD12 | 8 | 1.72 |
| (1,5094) | 1:78:A:ILE:HG23 | 1:78:A:ILE:HD13 | 8 | 1.72 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 8 | 1.72 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 13 | 1.72 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 13 | 1.72 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 13 | 1.72 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 3 | 1.72 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 7 | 1.72 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 17 | 1.72 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 17 | 1.72 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 17 | 1.72 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 17 | 1.72 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 17 | 1.72 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 17 | 1.72 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 15 | 1.72 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 15 | 1.72 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 15 | 1.72 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 2 | 1.72 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 16 | 1.72 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 4 | 1.72 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 4 | 1.72 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 4 | 1.72 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 4 | 1.72 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 4 | 1.72 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 4 | 1.72 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 19 | 1.72 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 19 | 1.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 19 | 1.72 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 19 | 1.72 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 11 | 1.72 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 11 | 1.72 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 16 | 1.72 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 16 | 1.72 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 16 | 1.72 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 3 | 1.72 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 3 | 1.72 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 8 | 1.72 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 8 | 1.72 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 19 | 1.72 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 3 | 1.72 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 11 | 1.72 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 14 | 1.72 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 14 | 1.72 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 14 | 1.72 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 14 | 1.72 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 14 | 1.72 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 14 | 1.72 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 4 | 1.72 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 4 | 1.72 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 4 | 1.72 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 18 | 1.72 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 18 | 1.72 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 17 | 1.72 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 17 | 1.72 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 17 | 1.72 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 17 | 1.72 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 17 | 1.72 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 17 | 1.72 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 6 | 1.72 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 6 | 1.72 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 6 | 1.72 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 15 | 1.72 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 8 | 1.72 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 8 | 1.72 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 15 | 1.72 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 1 | 1.72 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 1 | 1.72 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 4 | 1.72 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 4 | 1.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 5 | 1.72 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 6 | 1.72 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 6 | 1.72 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 6 | 1.72 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 6 | 1.72 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 6 | 1.72 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 6 | 1.72 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 1.72 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 15 | 1.72 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 15 | 1.72 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 15 | 1.72 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 8 | 1.72 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 8 | 1.72 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 8 | 1.72 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 4 | 1.72 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 14 | 1.72 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 15 | 1.72 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 15 | 1.72 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 18 | 1.72 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 18 | 1.72 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 20 | 1.72 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 4 | 1.72 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 8 | 1.72 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 2 | 1.72 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 16 | 1.72 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 14 | 1.72 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 6 | 1.72 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 6 | 1.72 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 6 | 1.72 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 19 | 1.72 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 5 | 1.72 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 5 | 1.72 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 5 | 1.72 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 3 | 1.72 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 3 | 1.72 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 3 | 1.72 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 6 | 1.72 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 6 | 1.72 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 6 | 1.72 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 4 | 1.72 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 1 | 1.72 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 1 | 1.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 1 | 1.72 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 1 | 1.72 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 1 | 1.72 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 1 | 1.72 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 1 | 1.72 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 1 | 1.72 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 1 | 1.72 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 3 | 1.72 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 7 | 1.72 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 10 | 1.72 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 10 | 1.72 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 10 | 1.72 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 10 | 1.72 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 10 | 1.72 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 10 | 1.72 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 13 | 1.72 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 18 | 1.72 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 7 | 1.72 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 7 | 1.72 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 12 | 1.72 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 6 | 1.72 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 6 | 1.72 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 6 | 1.72 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 2 | 1.72 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 2 | 1.72 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 2 | 1.72 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 15 | 1.72 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 6 | 1.72 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 20 | 1.72 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 12 | 1.72 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 13 | 1.72 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 4 | 1.72 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 15 | 1.72 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 15 | 1.72 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 15 | 1.72 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 15 | 1.72 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 15 | 1.72 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 15 | 1.72 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 9 | 1.72 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 9 | 1.72 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 16 | 1.72 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 9 | 1.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 1 | 1.72 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 1 | 1.72 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 1 | 1.72 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 1 | 1.72 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 1 | 1.72 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 1 | 1.72 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 2 | 1.72 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 2 | 1.72 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 18 | 1.72 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 18 | 1.72 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 18 | 1.72 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 1 | 1.72 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 13 | 1.72 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 13 | 1.72 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 13 | 1.72 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 6 | 1.72 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 16 | 1.72 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 3 | 1.72 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 14 | 1.72 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 4 | 1.72 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 1 | 1.72 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 3 | 1.72 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 3 | 1.72 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 3 | 1.72 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 5 | 1.72 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 5 | 1.72 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 5 | 1.72 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 13 | 1.72 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 13 | 1.72 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 13 | 1.72 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 6 | 1.72 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 4 | 1.72 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 8 | 1.72 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 8 | 1.72 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 8 | 1.72 |
| (4,123) | 1:90:A:ASN:CB | 1:26:A:ASN:HD21 | 8 | 1.71 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 8 | 1.71 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 8 | 1.71 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 11 | 1.71 |
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 4 | 1.71 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 4 | 1.71 |
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 4 | 1.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 10 | 1.71 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 17 | 1.71 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 10 | 1.71 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 10 | 1.71 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 10 | 1.71 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 10 | 1.71 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 10 | 1.71 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 10 | 1.71 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 10 | 1.71 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 10 | 1.71 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 10 | 1.71 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 12 | 1.71 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 12 | 1.71 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 12 | 1.71 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG2 | 16 | 1.71 |
| (1,9472) | 1:132:A:LYS:H | 1:132:A:LYS:HG3 | 16 | 1.71 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 9 | 1.71 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 9 | 1.71 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 9 | 1.71 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 9 | 1.71 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 9 | 1.71 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 9 | 1.71 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 10 | 1.71 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 10 | 1.71 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 10 | 1.71 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 10 | 1.71 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 10 | 1.71 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 10 | 1.71 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 7 | 1.71 |
| (1,9196) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 7 | 1.71 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB2 | 1 | 1.71 |
| (1,8861) | 1:61:A:LEU:HD21 | 1:112:A:ASP:HB3 | 1 | 1.71 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB2 | 1 | 1.71 |
| (1,8861) | 1:61:A:LEU:HD22 | 1:112:A:ASP:HB3 | 1 | 1.71 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB2 | 1 | 1.71 |
| (1,8861) | 1:61:A:LEU:HD23 | 1:112:A:ASP:HB3 | 1 | 1.71 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 20 | 1.71 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 20 | 1.71 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 2 | 1.71 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 2 | 1.71 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 2 | 1.71 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 2 | 1.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 2 | 1.71 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 2 | 1.71 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 2 | 1.71 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 2 | 1.71 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 2 | 1.71 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 1 | 1.71 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 5 | 1.71 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 7 | 1.71 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 11 | 1.71 |
| (1,7688) | 1:40:A:ASN:HA | 1:41:A:SER:HA | 14 | 1.71 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 3 | 1.71 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 17 | 1.71 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 17 | 1.71 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 17 | 1.71 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 17 | 1.71 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 7 | 1.71 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 7 | 1.71 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 7 | 1.71 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 16 | 1.71 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 16 | 1.71 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 16 | 1.71 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 5 | 1.71 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 5 | 1.71 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 5 | 1.71 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 5 | 1.71 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 5 | 1.71 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 7 | 1.71 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 12 | 1.71 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 3 | 1.71 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 18 | 1.71 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 18 | 1.71 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 18 | 1.71 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 8 | 1.71 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 7 | 1.71 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 7 | 1.71 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 7 | 1.71 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 18 | 1.71 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 18 | 1.71 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 18 | 1.71 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 11 | 1.71 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 11 | 1.71 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 11 | 1.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 4 | 1.71 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 4 | 1.71 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 4 | 1.71 |
| (1,4457) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 4 | 1.71 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 4 | 1.71 |
| (1,4457) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 4 | 1.71 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 4 | 1.71 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 15 | 1.71 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 9 | 1.71 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 9 | 1.71 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 9 | 1.71 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 9 | 1.71 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 9 | 1.71 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 9 | 1.71 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 10 | 1.71 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 10 | 1.71 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 10 | 1.71 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 10 | 1.71 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 10 | 1.71 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 10 | 1.71 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 7 | 1.71 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 7 | 1.71 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 7 | 1.71 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 7 | 1.71 |
| (1,3961) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 4 | 1.71 |
| (1,3961) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 4 | 1.71 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 7 | 1.71 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 7 | 1.71 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 3 | 1.71 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 3 | 1.71 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 3 | 1.71 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 3 | 1.71 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 3 | 1.71 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 3 | 1.71 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 19 | 1.71 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 19 | 1.71 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 19 | 1.71 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 17 | 1.71 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 17 | 1.71 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 17 | 1.71 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 11 | 1.71 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 14 | 1.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 14 | 1.71 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 14 | 1.71 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 14 | 1.71 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 14 | 1.71 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 14 | 1.71 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 10 | 1.71 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 10 | 1.71 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 19 | 1.71 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 19 | 1.71 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 15 | 1.71 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 15 | 1.71 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 15 | 1.71 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 15 | 1.71 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 19 | 1.71 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 19 | 1.71 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 19 | 1.71 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 19 | 1.71 |
| (1,3607) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 16 | 1.71 |
| (1,3607) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 16 | 1.71 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 2 | 1.71 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 6 | 1.71 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 6 | 1.71 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 6 | 1.71 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 20 | 1.71 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 20 | 1.71 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 20 | 1.71 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 9 | 1.71 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 19 | 1.71 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 3 | 1.71 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 3 | 1.71 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 3 | 1.71 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 10 | 1.71 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 10 | 1.71 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 10 | 1.71 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 3 | 1.71 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 3 | 1.71 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 8 | 1.71 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 8 | 1.71 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 16 | 1.71 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 16 | 1.71 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 10 | 1.71 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 19 | 1.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 6 | 1.71 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 8 | 1.71 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 9 | 1.71 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 9 | 1.71 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 10 | 1.71 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 15 | 1.71 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 15 | 1.71 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 18 | 1.71 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 12 | 1.71 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 7 | 1.71 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 20 | 1.71 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 20 | 1.71 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 20 | 1.71 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 3 | 1.71 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 20 | 1.71 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 12 | 1.71 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 19 | 1.71 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 19 | 1.71 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 19 | 1.71 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 9 | 1.71 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 13 | 1.71 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 12 | 1.71 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 3 | 1.71 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 3 | 1.71 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 3 | 1.71 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 2 | 1.71 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 2 | 1.71 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 2 | 1.71 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 15 | 1.71 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 2 | 1.71 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 17 | 1.71 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 14 | 1.71 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 14 | 1.71 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 14 | 1.71 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 15 | 1.71 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 4 | 1.71 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 8 | 1.71 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 8 | 1.71 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 8 | 1.71 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 13 | 1.71 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 13 | 1.71 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 13 | 1.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 20 | 1.71 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 17 | 1.71 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 16 | 1.71 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 16 | 1.71 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 16 | 1.71 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 6 | 1.71 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 6 | 1.71 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 6 | 1.71 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 6 | 1.71 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 13 | 1.71 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 15 | 1.71 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 17 | 1.71 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 17 | 1.71 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 17 | 1.71 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 18 | 1.71 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 18 | 1.71 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 16 | 1.71 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 3 | 1.71 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 6 | 1.71 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 9 | 1.71 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 9 | 1.71 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 9 | 1.71 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 2 | 1.71 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 2 | 1.71 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 2 | 1.71 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 8 | 1.71 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 8 | 1.71 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 10 | 1.71 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 10 | 1.71 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 7 | 1.71 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 3 | 1.71 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 3 | 1.71 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 3 | 1.71 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 3 | 1.71 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 10 | 1.71 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 10 | 1.71 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 10 | 1.71 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 20 | 1.71 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 20 | 1.71 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 20 | 1.71 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 6 | 1.71 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 6 | 1.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 6 | 1.71 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 14 | 1.71 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 14 | 1.71 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 14 | 1.71 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 12 | 1.71 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 12 | 1.71 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 12 | 1.71 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 19 | 1.71 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 13 | 1.71 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 14 | 1.71 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 14 | 1.71 |
| (1,503) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 14 | 1.71 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 10 | 1.71 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 10 | 1.71 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 10 | 1.71 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 3 | 1.71 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 3 | 1.71 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 3 | 1.71 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 3 | 1.71 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 3 | 1.71 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 3 | 1.71 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 2 | 1.71 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 2 | 1.71 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 15 | 1.71 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 5 | 1.71 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 20 | 1.71 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 20 | 1.71 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 20 | 1.71 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 7 | 1.71 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 7 | 1.71 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 7 | 1.71 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 1 | 1.71 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 5 | 1.71 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 20 | 1.71 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 1 | 1.71 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 1 | 1.71 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 1 | 1.71 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 10 | 1.71 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 10 | 1.71 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 10 | 1.71 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 14 | 1.71 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 14 | 1.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 14 | 1.71 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 2 | 1.71 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 17 | 1.71 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 3 | 1.71 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 3 | 1.71 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 3 | 1.71 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 17 | 1.71 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 17 | 1.71 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 17 | 1.71 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 19 | 1.71 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 17 | 1.71 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 17 | 1.71 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 17 | 1.71 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 19 | 1.71 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 2 | 1.71 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 3 | 1.71 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 10 | 1.71 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 10 | 1.71 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 13 | 1.7 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 13 | 1.7 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 6 | 1.7 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 6 | 1.7 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 6 | 1.7 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 6 | 1.7 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 11 | 1.7 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 11 | 1.7 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 7 | 1.7 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 7 | 1.7 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 7 | 1.7 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 7 | 1.7 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 20 | 1.7 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 20 | 1.7 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 17 | 1.7 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 17 | 1.7 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 3 | 1.7 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 3 | 1.7 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 2 | 1.7 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 2 | 1.7 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 2 | 1.7 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 2 | 1.7 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 13 | 1.7 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 17 | 1.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 17 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 5 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 5 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 5 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 5 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 5 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 5 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 5 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 5 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 5 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 18 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 18 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 18 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 18 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 18 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 18 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 18 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 18 | 1.7 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 18 | 1.7 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 20 | 1.7 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 20 | 1.7 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 16 | 1.7 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 16 | 1.7 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 16 | 1.7 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 17 | 1.7 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 17 | 1.7 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 17 | 1.7 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 18 | 1.7 |
| (1,5797) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 9 | 1.7 |
| (1,5797) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 9 | 1.7 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 14 | 1.7 |
| (1,4992) | 1:73:A:TRP:H | 1:74:A:ARG:H | 17 | 1.7 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 18 | 1.7 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 4 | 1.7 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 9 | 1.7 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 9 | 1.7 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 4 | 1.7 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 4 | 1.7 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 8 | 1.7 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 8 | 1.7 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 8 | 1.7 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 14 | 1.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 14 | 1.7 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 14 | 1.7 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 14 | 1.7 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 14 | 1.7 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 14 | 1.7 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 16 | 1.7 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 16 | 1.7 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 16 | 1.7 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 1 | 1.7 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 1 | 1.7 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 10 | 1.7 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 10 | 1.7 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 10 | 1.7 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 10 | 1.7 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 10 | 1.7 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 10 | 1.7 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 8 | 1.7 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 8 | 1.7 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 4 | 1.7 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 4 | 1.7 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 6 | 1.7 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 6 | 1.7 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 6 | 1.7 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 6 | 1.7 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 6 | 1.7 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 6 | 1.7 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 12 | 1.7 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 12 | 1.7 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 20 | 1.7 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 20 | 1.7 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 17 | 1.7 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 17 | 1.7 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 17 | 1.7 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 17 | 1.7 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 17 | 1.7 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 17 | 1.7 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 4 | 1.7 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 5 | 1.7 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 5 | 1.7 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 5 | 1.7 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 5 | 1.7 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 5 | 1.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 5 | 1.7 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 18 | 1.7 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 18 | 1.7 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 7 | 1.7 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 7 | 1.7 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 5 | 1.7 |
| (1,3971) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 5 | 1.7 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 3 | 1.7 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 3 | 1.7 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 3 | 1.7 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 3 | 1.7 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 3 | 1.7 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 3 | 1.7 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 6 | 1.7 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 6 | 1.7 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 6 | 1.7 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 5 | 1.7 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 5 | 1.7 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 5 | 1.7 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 5 | 1.7 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 5 | 1.7 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 5 | 1.7 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 11 | 1.7 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 11 | 1.7 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 7 | 1.7 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 7 | 1.7 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 15 | 1.7 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 5 | 1.7 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 17 | 1.7 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 17 | 1.7 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 17 | 1.7 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 17 | 1.7 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 17 | 1.7 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 17 | 1.7 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 9 | 1.7 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 9 | 1.7 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 9 | 1.7 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 9 | 1.7 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 9 | 1.7 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 9 | 1.7 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 6 | 1.7 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 4 | 1.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 4 | 1.7 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 4 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 5 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 5 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 5 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 5 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 5 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 5 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 5 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 5 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 5 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 18 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 18 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 18 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 18 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 18 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 18 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 18 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 18 | 1.7 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 18 | 1.7 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 6 | 1.7 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 17 | 1.7 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 17 | 1.7 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 17 | 1.7 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 11 | 1.7 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 11 | 1.7 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 11 | 1.7 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 7 | 1.7 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 7 | 1.7 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 9 | 1.7 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 14 | 1.7 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 9 | 1.7 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 9 | 1.7 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 12 | 1.7 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 12 | 1.7 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 12 | 1.7 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 12 | 1.7 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 9 | 1.7 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 6 | 1.7 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 15 | 1.7 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 15 | 1.7 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 15 | 1.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 15 | 1.7 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 17 | 1.7 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 1 | 1.7 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 10 | 1.7 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 10 | 1.7 |
| (1,2689) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 3 | 1.7 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 11 | 1.7 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 11 | 1.7 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 11 | 1.7 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 17 | 1.7 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 14 | 1.7 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 8 | 1.7 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 16 | 1.7 |
| (1,2471) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 16 | 1.7 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 1 | 1.7 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 1 | 1.7 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 1 | 1.7 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 16 | 1.7 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 16 | 1.7 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 16 | 1.7 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 15 | 1.7 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 14 | 1.7 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 8 | 1.7 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 4 | 1.7 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 4 | 1.7 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 4 | 1.7 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 7 | 1.7 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 7 | 1.7 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 7 | 1.7 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 7 | 1.7 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 2 | 1.7 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 2 | 1.7 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 2 | 1.7 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 2 | 1.7 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 19 | 1.7 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 19 | 1.7 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 19 | 1.7 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 10 | 1.7 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 10 | 1.7 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 10 | 1.7 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 7 | 1.7 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 14 | 1.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 14 | 1.7 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 14 | 1.7 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 9 | 1.7 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 11 | 1.7 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 11 | 1.7 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 11 | 1.7 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 7 | 1.7 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 7 | 1.7 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 1 | 1.7 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 1 | 1.7 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 1 | 1.7 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 17 | 1.7 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 17 | 1.7 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 17 | 1.7 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 17 | 1.7 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 17 | 1.7 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 17 | 1.7 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 17 | 1.7 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 17 | 1.7 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 17 | 1.7 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 5 | 1.7 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 5 | 1.7 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 5 | 1.7 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 5 | 1.7 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 5 | 1.7 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 5 | 1.7 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 5 | 1.7 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 5 | 1.7 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 5 | 1.7 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 19 | 1.7 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 2 | 1.7 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 7 | 1.7 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 7 | 1.7 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 7 | 1.7 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 13 | 1.7 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 13 | 1.7 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 13 | 1.7 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 19 | 1.7 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 2 | 1.7 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 10 | 1.7 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 18 | 1.7 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 12 | 1.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 12 | 1.7 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 20 | 1.7 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 20 | 1.7 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 20 | 1.7 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 1 | 1.7 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 20 | 1.7 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 20 | 1.7 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 11 | 1.7 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 11 | 1.7 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 16 | 1.7 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 16 | 1.7 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 16 | 1.7 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 10 | 1.7 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 9 | 1.7 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 3 | 1.7 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 12 | 1.7 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 3 | 1.7 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 3 | 1.7 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 3 | 1.7 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 15 | 1.7 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 15 | 1.7 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 15 | 1.7 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 7 | 1.7 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 7 | 1.7 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 7 | 1.7 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 7 | 1.7 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 7 | 1.7 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 7 | 1.7 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 12 | 1.7 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 12 | 1.7 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 13 | 1.7 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 4 | 1.7 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 4 | 1.7 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 4 | 1.7 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 13 | 1.7 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 13 | 1.7 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 13 | 1.7 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 14 | 1.7 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 4 | 1.7 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 19 | 1.7 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 19 | 1.7 |
| (1,213) | 1:73:A:TRP:H | 1:74:A:ARG:H | 17 | 1.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 6 | 1.7 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 6 | 1.7 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 7 | 1.7 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 7 | 1.7 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 7 | 1.7 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 18 | 1.7 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 1 | 1.7 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 13 | 1.7 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 13 | 1.7 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 13 | 1.7 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 4 | 1.7 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 10 | 1.7 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 10 | 1.7 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 10 | 1.7 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 4 | 1.7 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 12 | 1.7 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 7 | 1.7 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 7 | 1.7 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 17 | 1.69 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 7 | 1.69 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 12 | 1.69 |
| (4,175) | 1:98:A:SER:CB | 1:48:A:GLY:H | 13 | 1.69 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 16 | 1.69 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 9 | 1.69 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 4 | 1.69 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 9 | 1.69 |
| (4,17) | 1:15:A:MET:CB | 1:65:A:SER:H | 1 | 1.69 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 7 | 1.69 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 12 | 1.69 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 12 | 1.69 |
| (3,648) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 16 | 1.69 |
| (3,648) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 16 | 1.69 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 1 | 1.69 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 1 | 1.69 |
| (3,213) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 16 | 1.69 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 14 | 1.69 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 18 | 1.69 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 18 | 1.69 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 18 | 1.69 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 18 | 1.69 |
| (1,9358) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 18 | 1.69 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 18 | 1.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 18 | 1.69 |
| (1,9358) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 18 | 1.69 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 5 | 1.69 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 5 | 1.69 |
| (1,7619) | 1:26:A:ASN:HB3 | 1:30:A:ASN:H | 14 | 1.69 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 7 | 1.69 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 4 | 1.69 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 4 | 1.69 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 4 | 1.69 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 4 | 1.69 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 4 | 1.69 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 4 | 1.69 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 4 | 1.69 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 4 | 1.69 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 4 | 1.69 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 12 | 1.69 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 12 | 1.69 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 12 | 1.69 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 5 | 1.69 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 5 | 1.69 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 5 | 1.69 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 7 | 1.69 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 15 | 1.69 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 8 | 1.69 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 8 | 1.69 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 8 | 1.69 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 13 | 1.69 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 17 | 1.69 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 10 | 1.69 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 13 | 1.69 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 13 | 1.69 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 13 | 1.69 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 13 | 1.69 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 13 | 1.69 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 13 | 1.69 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 13 | 1.69 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 13 | 1.69 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 13 | 1.69 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 18 | 1.69 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 18 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 8 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 8 | 1.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 8 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 8 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 8 | 1.69 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 8 | 1.69 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 18 | 1.69 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 18 | 1.69 |
| (1,4362) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 18 | 1.69 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 18 | 1.69 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 18 | 1.69 |
| (1,4362) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 18 | 1.69 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 4 | 1.69 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 4 | 1.69 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 4 | 1.69 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 4 | 1.69 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 4 | 1.69 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 4 | 1.69 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 6 | 1.69 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 6 | 1.69 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 19 | 1.69 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 19 | 1.69 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 19 | 1.69 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 19 | 1.69 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 19 | 1.69 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 1 | 1.69 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 7 | 1.69 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 7 | 1.69 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 9 | 1.69 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 9 | 1.69 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 7 | 1.69 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 7 | 1.69 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 7 | 1.69 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 7 | 1.69 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 7 | 1.69 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 7 | 1.69 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 17 | 1.69 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 6 | 1.69 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 6 | 1.69 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 4 | 1.69 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 4 | 1.69 |
| (1,3477) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 4 | 1.69 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 4 | 1.69 |
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 4 | 1.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3477) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 4 | 1.69 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 4 | 1.69 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 4 | 1.69 |
| (1,3477) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 4 | 1.69 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 8 | 1.69 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 8 | 1.69 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 8 | 1.69 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 16 | 1.69 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 16 | 1.69 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 16 | 1.69 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 4 | 1.69 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 4 | 1.69 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 4 | 1.69 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 4 | 1.69 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 4 | 1.69 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 4 | 1.69 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 4 | 1.69 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 4 | 1.69 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 4 | 1.69 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 9 | 1.69 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 9 | 1.69 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 4 | 1.69 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 14 | 1.69 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 14 | 1.69 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 14 | 1.69 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 17 | 1.69 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 17 | 1.69 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 14 | 1.69 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 1.69 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 1.69 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 9 | 1.69 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 7 | 1.69 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 7 | 1.69 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 7 | 1.69 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 7 | 1.69 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 6 | 1.69 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 6 | 1.69 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 6 | 1.69 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 6 | 1.69 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 12 | 1.69 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 12 | 1.69 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 12 | 1.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 6 | 1.69 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 6 | 1.69 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 6 | 1.69 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 15 | 1.69 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 15 | 1.69 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 15 | 1.69 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 16 | 1.69 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 16 | 1.69 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 16 | 1.69 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 16 | 1.69 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 16 | 1.69 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 16 | 1.69 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 16 | 1.69 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 16 | 1.69 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 16 | 1.69 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 7 | 1.69 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 13 | 1.69 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 13 | 1.69 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 13 | 1.69 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 9 | 1.69 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 9 | 1.69 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 9 | 1.69 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 9 | 1.69 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 9 | 1.69 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 9 | 1.69 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 9 | 1.69 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 9 | 1.69 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 9 | 1.69 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 17 | 1.69 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 17 | 1.69 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 17 | 1.69 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 6 | 1.69 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 14 | 1.69 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 14 | 1.69 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 14 | 1.69 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 20 | 1.69 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 20 | 1.69 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 4 | 1.69 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 20 | 1.69 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 9 | 1.69 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 3 | 1.69 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 3 | 1.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 3 | 1.69 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 7 | 1.69 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 13 | 1.69 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 2 | 1.69 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 2 | 1.69 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 2 | 1.69 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 2 | 1.69 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 2 | 1.69 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 2 | 1.69 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 19 | 1.69 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 19 | 1.69 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 1 | 1.69 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 1 | 1.69 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 1 | 1.69 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 1 | 1.69 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 1 | 1.69 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 1 | 1.69 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 5 | 1.69 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 5 | 1.69 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 15 | 1.69 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 4 | 1.69 |
| (1,1091) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 9 | 1.69 |
| (1,1091) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 9 | 1.69 |
| (1,1091) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 9 | 1.69 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 12 | 1.69 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 1 | 1.69 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 1 | 1.69 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 1 | 1.69 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 16 | 1.69 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 16 | 1.69 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 16 | 1.69 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 5 | 1.69 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 9 | 1.69 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 9 | 1.69 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 9 | 1.69 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 5 | 1.69 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 2 | 1.69 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 18 | 1.69 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 18 | 1.69 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 18 | 1.69 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 10 | 1.69 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 15 | 1.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 20 | 1.69 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 14 | 1.69 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 14 | 1.69 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 14 | 1.69 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 14 | 1.69 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 14 | 1.69 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 14 | 1.69 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 1 | 1.69 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 1 | 1.69 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 1 | 1.69 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 1 | 1.69 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 1 | 1.69 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 1 | 1.69 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 19 | 1.69 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 19 | 1.69 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 19 | 1.69 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 16 | 1.69 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 15 | 1.69 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 15 | 1.69 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 15 | 1.69 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 20 | 1.69 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 6 | 1.69 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 6 | 1.69 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 6 | 1.69 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 6 | 1.69 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 6 | 1.69 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 6 | 1.69 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 17 | 1.69 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 9 | 1.69 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 11 | 1.69 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 14 | 1.69 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 12 | 1.69 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 9 | 1.69 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 9 | 1.69 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 9 | 1.69 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 10 | 1.69 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 14 | 1.68 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 16 | 1.68 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 15 | 1.68 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 15 | 1.68 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 15 | 1.68 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 15 | 1.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 15 | 1.68 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 15 | 1.68 |
| (1,8877) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 4 | 1.68 |
| (1,8877) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 4 | 1.68 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 9 | 1.68 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 9 | 1.68 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 9 | 1.68 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 9 | 1.68 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 6 | 1.68 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 6 | 1.68 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 3 | 1.68 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 3 | 1.68 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 3 | 1.68 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 3 | 1.68 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 3 | 1.68 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 3 | 1.68 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 2 | 1.68 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 2 | 1.68 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 2 | 1.68 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 14 | 1.68 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 14 | 1.68 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 14 | 1.68 |
| (1,6835) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 9 | 1.68 |
| (1,6835) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 9 | 1.68 |
| (1,6835) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 9 | 1.68 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 7 | 1.68 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 7 | 1.68 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 7 | 1.68 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 7 | 1.68 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 7 | 1.68 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 7 | 1.68 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 7 | 1.68 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 7 | 1.68 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 7 | 1.68 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 14 | 1.68 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 14 | 1.68 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 14 | 1.68 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 9 | 1.68 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 15 | 1.68 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 15 | 1.68 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 15 | 1.68 |
| (1,6341) | 1:154:A:SER:H | 1:155:A:GLY:H | 14 | 1.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 18 | 1.68 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 18 | 1.68 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 18 | 1.68 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 13 | 1.68 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 10 | 1.68 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 20 | 1.68 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 9 | 1.68 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 9 | 1.68 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 9 | 1.68 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 9 | 1.68 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 9 | 1.68 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 9 | 1.68 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 6 | 1.68 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 19 | 1.68 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 14 | 1.68 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 2 | 1.68 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 9 | 1.68 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 9 | 1.68 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 9 | 1.68 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 16 | 1.68 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 16 | 1.68 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 16 | 1.68 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 19 | 1.68 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 3 | 1.68 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 3 | 1.68 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 3 | 1.68 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 3 | 1.68 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 17 | 1.68 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 17 | 1.68 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 11 | 1.68 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 11 | 1.68 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 11 | 1.68 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 11 | 1.68 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 20 | 1.68 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 20 | 1.68 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 12 | 1.68 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 12 | 1.68 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 12 | 1.68 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 12 | 1.68 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 4 | 1.68 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 4 | 1.68 |
| (1,4217) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 4 | 1.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 4 | 1.68 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 4 | 1.68 |
| (1,4217) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 4 | 1.68 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 17 | 1.68 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 17 | 1.68 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 17 | 1.68 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 17 | 1.68 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 17 | 1.68 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 17 | 1.68 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 15 | 1.68 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 15 | 1.68 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 16 | 1.68 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 4 | 1.68 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 17 | 1.68 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 17 | 1.68 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 17 | 1.68 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 17 | 1.68 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 17 | 1.68 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 17 | 1.68 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 17 | 1.68 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 17 | 1.68 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 17 | 1.68 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 17 | 1.68 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 3 | 1.68 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 3 | 1.68 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 3 | 1.68 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 3 | 1.68 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 9 | 1.68 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 9 | 1.68 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 9 | 1.68 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 9 | 1.68 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 8 | 1.68 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 13 | 1.68 |
| (1,3537) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 19 | 1.68 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 3 | 1.68 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 3 | 1.68 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 3 | 1.68 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 6 | 1.68 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 6 | 1.68 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 6 | 1.68 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 6 | 1.68 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 6 | 1.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 6 | 1.68 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 6 | 1.68 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 6 | 1.68 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 6 | 1.68 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 19 | 1.68 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 6 | 1.68 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 6 | 1.68 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 7 | 1.68 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 7 | 1.68 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 7 | 1.68 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 10 | 1.68 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 10 | 1.68 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 10 | 1.68 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 3 | 1.68 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 2 | 1.68 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 17 | 1.68 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 7 | 1.68 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 17 | 1.68 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 6 | 1.68 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 13 | 1.68 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 16 | 1.68 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 6 | 1.68 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 6 | 1.68 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 8 | 1.68 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 8 | 1.68 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 8 | 1.68 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 8 | 1.68 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 8 | 1.68 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 8 | 1.68 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 12 | 1.68 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 12 | 1.68 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 3 | 1.68 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 3 | 1.68 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 3 | 1.68 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 13 | 1.68 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 12 | 1.68 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 15 | 1.68 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 15 | 1.68 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 15 | 1.68 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 9 | 1.68 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 17 | 1.68 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 19 | 1.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2018) | 1:154:A:SER:H | 1:155:A:GLY:H | 14 | 1.68 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 1 | 1.68 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 1 | 1.68 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 1 | 1.68 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 11 | 1.68 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 1 | 1.68 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 1 | 1.68 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 1 | 1.68 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 6 | 1.68 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 6 | 1.68 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 6 | 1.68 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 11 | 1.68 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 11 | 1.68 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 11 | 1.68 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 2 | 1.68 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 19 | 1.68 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 3 | 1.68 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 3 | 1.68 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 3 | 1.68 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 17 | 1.68 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 17 | 1.68 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 17 | 1.68 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 17 | 1.68 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 17 | 1.68 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 17 | 1.68 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 17 | 1.68 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 17 | 1.68 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 17 | 1.68 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 2 | 1.68 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 2 | 1.68 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 2 | 1.68 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 7 | 1.68 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 11 | 1.68 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 1 | 1.68 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 1 | 1.68 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 1 | 1.68 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 1.68 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 11 | 1.68 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 11 | 1.68 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 11 | 1.68 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 10 | 1.68 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 5 | 1.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 5 | 1.68 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 9 | 1.68 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 9 | 1.68 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 9 | 1.68 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 9 | 1.68 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 9 | 1.68 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 9 | 1.68 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 14 | 1.68 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 18 | 1.68 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 18 | 1.68 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 20 | 1.68 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 1 | 1.68 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 16 | 1.68 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 16 | 1.68 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 1 | 1.68 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 7 | 1.68 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 4 | 1.68 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 2 | 1.68 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 19 | 1.68 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 9 | 1.68 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 8 | 1.68 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 8 | 1.68 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 8 | 1.68 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 12 | 1.68 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 3 | 1.68 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 5 | 1.68 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 5 | 1.68 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 5 | 1.68 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 7 | 1.68 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 7 | 1.68 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 7 | 1.68 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 7 | 1.68 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 7 | 1.68 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 7 | 1.68 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 7 | 1.68 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 7 | 1.68 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 7 | 1.68 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 20 | 1.68 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 20 | 1.68 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 20 | 1.68 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 11 | 1.68 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 11 | 1.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 11 | 1.68 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 10 | 1.68 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 16 | 1.68 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 8 | 1.68 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 13 | 1.68 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 15 | 1.68 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 7 | 1.68 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 7 | 1.68 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 7 | 1.68 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 20 | 1.68 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 20 | 1.68 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 20 | 1.68 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 20 | 1.68 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 11 | 1.68 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 15 | 1.68 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 9 | 1.68 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 15 | 1.68 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 15 | 1.68 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 15 | 1.68 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 1 | 1.68 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 1 | 1.68 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 1 | 1.68 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 2 | 1.68 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 2 | 1.68 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 2 | 1.68 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 6 | 1.68 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 6 | 1.68 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 6 | 1.68 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 20 | 1.68 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 14 | 1.68 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 14 | 1.68 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 14 | 1.68 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 19 | 1.68 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 19 | 1.68 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 19 | 1.68 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 2 | 1.68 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 19 | 1.68 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 19 | 1.68 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 2 | 1.68 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 8 | 1.68 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 1 | 1.68 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 1 | 1.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 4 | 1.68 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 4 | 1.68 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 9 | 1.68 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 9 | 1.68 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 13 | 1.67 |
| (4,213) | 1:131:A:GLN:CB | 1:40:A:ASN:H | 10 | 1.67 |
| (3,258) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 17 | 1.67 |
| (3,258) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 17 | 1.67 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 3 | 1.67 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 3 | 1.67 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 4 | 1.67 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 4 | 1.67 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 4 | 1.67 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 4 | 1.67 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 8 | 1.67 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 8 | 1.67 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 11 | 1.67 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 11 | 1.67 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 11 | 1.67 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 11 | 1.67 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 16 | 1.67 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 16 | 1.67 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 16 | 1.67 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 16 | 1.67 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 16 | 1.67 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 16 | 1.67 |
| (1,8225) | 1:108:A:SER:HA | 1:120:A:GLY:H | 15 | 1.67 |
| (1,7988) | 1:80:A:ARG:H | 1:81:A:THR:H | 13 | 1.67 |
| (1,7659) | 1:33:A:GLN:H | 1:34:A:TRP:H | 11 | 1.67 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 1 | 1.67 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 1 | 1.67 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 13 | 1.67 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 13 | 1.67 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 13 | 1.67 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 20 | 1.67 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 20 | 1.67 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 20 | 1.67 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 8 | 1.67 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 8 | 1.67 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 1 | 1.67 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 7 | 1.67 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 7 | 1.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 7 | 1.67 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 20 | 1.67 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 20 | 1.67 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 20 | 1.67 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 12 | 1.67 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 5 | 1.67 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 19 | 1.67 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 19 | 1.67 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 19 | 1.67 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 3 | 1.67 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 16 | 1.67 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 16 | 1.67 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 19 | 1.67 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 19 | 1.67 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 19 | 1.67 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 19 | 1.67 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 19 | 1.67 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 19 | 1.67 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 8 | 1.67 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 8 | 1.67 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 1 | 1.67 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 1 | 1.67 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 15 | 1.67 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 15 | 1.67 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 18 | 1.67 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 18 | 1.67 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 18 | 1.67 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 18 | 1.67 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 18 | 1.67 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 18 | 1.67 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 15 | 1.67 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 15 | 1.67 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 15 | 1.67 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 15 | 1.67 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 15 | 1.67 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 15 | 1.67 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 16 | 1.67 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 16 | 1.67 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 15 | 1.67 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 15 | 1.67 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 19 | 1.67 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 19 | 1.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 5 | 1.67 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 13 | 1.67 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 13 | 1.67 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 13 | 1.67 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 4 | 1.67 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 2 | 1.67 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 15 | 1.67 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 11 | 1.67 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 11 | 1.67 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 4 | 1.67 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 5 | 1.67 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 8 | 1.67 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 5 | 1.67 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 5 | 1.67 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 8 | 1.67 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 8 | 1.67 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 19 | 1.67 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 5 | 1.67 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 2 | 1.67 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 18 | 1.67 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 18 | 1.67 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 6 | 1.67 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 6 | 1.67 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 6 | 1.67 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 6 | 1.67 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 6 | 1.67 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 6 | 1.67 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 3 | 1.67 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 3 | 1.67 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 8 | 1.67 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 9 | 1.67 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 6 | 1.67 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 10 | 1.67 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 5 | 1.67 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 18 | 1.67 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 18 | 1.67 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 18 | 1.67 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 12 | 1.67 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 12 | 1.67 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 12 | 1.67 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 10 | 1.67 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 1.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 1.67 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 1.67 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 17 | 1.67 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 17 | 1.67 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 17 | 1.67 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 13 | 1.67 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 13 | 1.67 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 13 | 1.67 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 9 | 1.67 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 9 | 1.67 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 9 | 1.67 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 9 | 1.67 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 9 | 1.67 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 9 | 1.67 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 9 | 1.67 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 9 | 1.67 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 9 | 1.67 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 3 | 1.67 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 3 | 1.67 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 3 | 1.67 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 3 | 1.67 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 10 | 1.67 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 10 | 1.67 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 10 | 1.67 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 3 | 1.67 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 13 | 1.67 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 9 | 1.67 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 20 | 1.67 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 20 | 1.67 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 20 | 1.67 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 9 | 1.67 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 12 | 1.67 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 12 | 1.67 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 16 | 1.67 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 16 | 1.67 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 16 | 1.67 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 16 | 1.67 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 16 | 1.67 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 16 | 1.67 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 16 | 1.67 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 16 | 1.67 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 16 | 1.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 11 | 1.67 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 19 | 1.67 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 7 | 1.67 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 7 | 1.67 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 7 | 1.67 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 11 | 1.67 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 11 | 1.67 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 11 | 1.67 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 15 | 1.67 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 15 | 1.67 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 15 | 1.67 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 19 | 1.67 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 19 | 1.67 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 19 | 1.67 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 19 | 1.67 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 1 | 1.67 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 6 | 1.67 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 2 | 1.67 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 1 | 1.67 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 1 | 1.67 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 1 | 1.67 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 1 | 1.67 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 1 | 1.67 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 1 | 1.67 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 5 | 1.67 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 5 | 1.67 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 15 | 1.67 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 15 | 1.67 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 15 | 1.67 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 5 | 1.67 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 5 | 1.67 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 5 | 1.67 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 20 | 1.67 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 7 | 1.67 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 3 | 1.67 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 9 | 1.67 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 9 | 1.67 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 9 | 1.67 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 9 | 1.67 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 2 | 1.67 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 2 | 1.67 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 2 | 1.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 2 | 1.67 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 2 | 1.67 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 2 | 1.67 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 2 | 1.67 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 12 | 1.67 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 12 | 1.67 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 1 | 1.67 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 1 | 1.67 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 1 | 1.67 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 4 | 1.67 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 4 | 1.67 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 4 | 1.67 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 4 | 1.67 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 4 | 1.67 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 4 | 1.67 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 10 | 1.67 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 10 | 1.67 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 10 | 1.67 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 10 | 1.67 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 9 | 1.67 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 3 | 1.67 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 19 | 1.67 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 12 | 1.67 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 1 | 1.67 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 1 | 1.67 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 1 | 1.67 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 18 | 1.67 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 18 | 1.67 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 18 | 1.67 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 2 | 1.67 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 2 | 1.67 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 2 | 1.67 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 2 | 1.67 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 2 | 1.67 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 2 | 1.67 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 2 | 1.67 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 2 | 1.67 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 2 | 1.67 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 18 | 1.67 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 18 | 1.67 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 18 | 1.67 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 13 | 1.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 13 | 1.67 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 13 | 1.67 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 13 | 1.67 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 13 | 1.67 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 13 | 1.67 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 13 | 1.67 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 13 | 1.67 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 13 | 1.67 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 5 | 1.67 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 3 | 1.67 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 3 | 1.67 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 3 | 1.67 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 20 | 1.67 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 13 | 1.67 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 13 | 1.67 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 13 | 1.67 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 1 | 1.67 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 1 | 1.67 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 1 | 1.67 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 1 | 1.67 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 1 | 1.67 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 6 | 1.67 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 6 | 1.67 |
| (4,250) | 1:15:A:MET:CB | 1:144:A:GLY:H | 20 | 1.66 |
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 18 | 1.66 |
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 15 | 1.66 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 10 | 1.66 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 10 | 1.66 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 8 | 1.66 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 8 | 1.66 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 8 | 1.66 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 8 | 1.66 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 8 | 1.66 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 8 | 1.66 |
| (1,8825) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 17 | 1.66 |
| (1,8825) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 17 | 1.66 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 16 | 1.66 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 19 | 1.66 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 19 | 1.66 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 19 | 1.66 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 19 | 1.66 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 19 | 1.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 19 | 1.66 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 19 | 1.66 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 19 | 1.66 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 19 | 1.66 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 18 | 1.66 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 18 | 1.66 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 18 | 1.66 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 8 | 1.66 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 13 | 1.66 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 8 | 1.66 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 14 | 1.66 |
| (1,6895) | 1:29:A:THR:H | 1:30:A:ASN:H | 9 | 1.66 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 15 | 1.66 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 2 | 1.66 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 2 | 1.66 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 7 | 1.66 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 17 | 1.66 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 17 | 1.66 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 17 | 1.66 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 3 | 1.66 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 8 | 1.66 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 20 | 1.66 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 19 | 1.66 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 19 | 1.66 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 9 | 1.66 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 9 | 1.66 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 15 | 1.66 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 15 | 1.66 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 15 | 1.66 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 15 | 1.66 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 15 | 1.66 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 15 | 1.66 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 14 | 1.66 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 14 | 1.66 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 19 | 1.66 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 19 | 1.66 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 19 | 1.66 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 19 | 1.66 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 19 | 1.66 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 19 | 1.66 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 10 | 1.66 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 10 | 1.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 15 | 1.66 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 15 | 1.66 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 2 | 1.66 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 2 | 1.66 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 14 | 1.66 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 14 | 1.66 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 1 | 1.66 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 1 | 1.66 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 1 | 1.66 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 1 | 1.66 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 1 | 1.66 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 1 | 1.66 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 1 | 1.66 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 1 | 1.66 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 1 | 1.66 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 5 | 1.66 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 5 | 1.66 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 15 | 1.66 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 15 | 1.66 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 19 | 1.66 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 19 | 1.66 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 15 | 1.66 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 13 | 1.66 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 13 | 1.66 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 7 | 1.66 |
| (1,3435) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 13 | 1.66 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 6 | 1.66 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 6 | 1.66 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 2 | 1.66 |
| (1,3211) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 18 | 1.66 |
| (1,3211) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 18 | 1.66 |
| (1,3211) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 18 | 1.66 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 9 | 1.66 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 9 | 1.66 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 9 | 1.66 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 7 | 1.66 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 15 | 1.66 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 5 | 1.66 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 10 | 1.66 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 14 | 1.66 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 14 | 1.66 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 14 | 1.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 3 | 1.66 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 3 | 1.66 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 14 | 1.66 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 14 | 1.66 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 1 | 1.66 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 10 | 1.66 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 6 | 1.66 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 6 | 1.66 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 6 | 1.66 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 6 | 1.66 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 1 | 1.66 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 1 | 1.66 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 14 | 1.66 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 11 | 1.66 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 19 | 1.66 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 19 | 1.66 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 19 | 1.66 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 18 | 1.66 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 5 | 1.66 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 16 | 1.66 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 10 | 1.66 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 14 | 1.66 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 6 | 1.66 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 7 | 1.66 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 7 | 1.66 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 7 | 1.66 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 12 | 1.66 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 19 | 1.66 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 19 | 1.66 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 19 | 1.66 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 19 | 1.66 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 19 | 1.66 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 19 | 1.66 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 19 | 1.66 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 19 | 1.66 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 19 | 1.66 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 18 | 1.66 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 9 | 1.66 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 9 | 1.66 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 9 | 1.66 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 9 | 1.66 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 3 | 1.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 14 | 1.66 |
| (1,1809) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 4 | 1.66 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 2 | 1.66 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 2 | 1.66 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 2 | 1.66 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 20 | 1.66 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 11 | 1.66 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 11 | 1.66 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 10 | 1.66 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 1 | 1.66 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 1 | 1.66 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 1 | 1.66 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 19 | 1.66 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 19 | 1.66 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 3 | 1.66 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 3 | 1.66 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 1 | 1.66 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 8 | 1.66 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 16 | 1.66 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 3 | 1.66 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 3 | 1.66 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 3 | 1.66 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 3 | 1.66 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 3 | 1.66 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 3 | 1.66 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 3 | 1.66 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 7 | 1.66 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 17 | 1.66 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 20 | 1.66 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 20 | 1.66 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 20 | 1.66 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 12 | 1.66 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 1 | 1.66 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 11 | 1.66 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 11 | 1.66 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 11 | 1.66 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 16 | 1.66 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 16 | 1.66 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 16 | 1.66 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 5 | 1.66 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 5 | 1.66 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 12 | 1.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 12 | 1.66 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 12 | 1.66 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 19 | 1.66 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 3 | 1.66 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 3 | 1.66 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 3 | 1.66 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 3 | 1.66 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 3 | 1.66 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 3 | 1.66 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 3 | 1.66 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 3 | 1.66 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 3 | 1.66 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 12 | 1.66 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 6 | 1.66 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 2 | 1.66 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 2 | 1.66 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 2 | 1.66 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 2 | 1.66 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 8 | 1.66 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 8 | 1.66 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 8 | 1.66 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 20 | 1.66 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 20 | 1.66 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 20 | 1.66 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 20 | 1.66 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 20 | 1.66 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 20 | 1.66 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 6 | 1.66 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 6 | 1.66 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 6 | 1.66 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 4 | 1.66 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 19 | 1.66 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 19 | 1.66 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 19 | 1.66 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 11 | 1.66 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 11 | 1.66 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 11 | 1.66 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 2 | 1.66 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 2 | 1.66 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 2 | 1.66 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 17 | 1.66 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 17 | 1.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 17 | 1.66 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 17 | 1.66 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 17 | 1.66 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 17 | 1.66 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 6 | 1.66 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 13 | 1.66 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 3 | 1.66 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 14 | 1.66 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 15 | 1.66 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 9 | 1.66 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 9 | 1.66 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 9 | 1.66 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 9 | 1.66 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 9 | 1.66 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 9 | 1.66 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 14 | 1.66 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 16 | 1.66 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 1.66 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 1 | 1.66 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 1 | 1.66 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 1 | 1.66 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 12 | 1.66 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 12 | 1.66 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 12 | 1.66 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 11 | 1.66 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 8 | 1.66 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 11 | 1.66 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 11 | 1.66 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 11 | 1.66 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 3 | 1.66 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 3 | 1.66 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 3 | 1.66 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 3 | 1.66 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 3 | 1.66 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 3 | 1.66 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 3 | 1.66 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 3 | 1.66 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 3 | 1.66 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 9 | 1.66 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 9 | 1.66 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 9 | 1.66 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 17 | 1.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 17 | 1.66 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 17 | 1.66 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 1 | 1.66 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 3 | 1.66 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 3 | 1.66 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 3 | 1.66 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 14 | 1.66 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 14 | 1.66 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 14 | 1.66 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 14 | 1.66 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 14 | 1.66 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 14 | 1.66 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 14 | 1.66 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 14 | 1.66 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 14 | 1.66 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 4 | 1.66 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 5 | 1.66 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 12 | 1.66 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 9 | 1.66 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 9 | 1.66 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 9 | 1.66 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 5 | 1.66 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 5 | 1.66 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 15 | 1.66 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 15 | 1.66 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 19 | 1.66 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 19 | 1.66 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 3 | 1.66 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 3 | 1.66 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 4 | 1.65 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 18 | 1.65 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 20 | 1.65 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 7 | 1.65 |
| (3,571) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 13 | 1.65 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 10 | 1.65 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 10 | 1.65 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 10 | 1.65 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 20 | 1.65 |
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 20 | 1.65 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 20 | 1.65 |
| (3,210) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 4 | 1.65 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 13 | 1.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 13 | 1.65 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 13 | 1.65 |
| (1,9026) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 15 | 1.65 |
| (1,9026) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 15 | 1.65 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 7 | 1.65 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 7 | 1.65 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 7 | 1.65 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 8 | 1.65 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 16 | 1.65 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 7 | 1.65 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 5 | 1.65 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 5 | 1.65 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 5 | 1.65 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 5 | 1.65 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 5 | 1.65 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 5 | 1.65 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 5 | 1.65 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 5 | 1.65 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 5 | 1.65 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 16 | 1.65 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 19 | 1.65 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 16 | 1.65 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 10 | 1.65 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 10 | 1.65 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 10 | 1.65 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 2 | 1.65 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 2 | 1.65 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 2 | 1.65 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 15 | 1.65 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 17 | 1.65 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 17 | 1.65 |
| (1,4537) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 17 | 1.65 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 4 | 1.65 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 4 | 1.65 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 19 | 1.65 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 19 | 1.65 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 7 | 1.65 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 7 | 1.65 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 7 | 1.65 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 16 | 1.65 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 16 | 1.65 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 7 | 1.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 7 | 1.65 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 1 | 1.65 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 1 | 1.65 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 1 | 1.65 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 1 | 1.65 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 1 | 1.65 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 1 | 1.65 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 1 | 1.65 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 11 | 1.65 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 11 | 1.65 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 19 | 1.65 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 19 | 1.65 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 7 | 1.65 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 7 | 1.65 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 7 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 7 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 7 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 7 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 7 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 7 | 1.65 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 7 | 1.65 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 11 | 1.65 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 4 | 1.65 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 4 | 1.65 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 15 | 1.65 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 15 | 1.65 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 16 | 1.65 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 16 | 1.65 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 16 | 1.65 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 16 | 1.65 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 14 | 1.65 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 14 | 1.65 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 14 | 1.65 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 14 | 1.65 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 15 | 1.65 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 15 | 1.65 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 14 | 1.65 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 14 | 1.65 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB2 | 16 | 1.65 |
| (1,3605) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 16 | 1.65 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB2 | 16 | 1.65 |
| (1,3605) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 16 | 1.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 20 | 1.65 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 1.65 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 20 | 1.65 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 5 | 1.65 |
| (1,3307) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 12 | 1.65 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 12 | 1.65 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 5 | 1.65 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 5 | 1.65 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 5 | 1.65 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 7 | 1.65 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 7 | 1.65 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 7 | 1.65 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 10 | 1.65 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 4 | 1.65 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 3 | 1.65 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 18 | 1.65 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 11 | 1.65 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 8 | 1.65 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 20 | 1.65 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 5 | 1.65 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 19 | 1.65 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 19 | 1.65 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 19 | 1.65 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 19 | 1.65 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 19 | 1.65 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 19 | 1.65 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 2 | 1.65 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 9 | 1.65 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 9 | 1.65 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 9 | 1.65 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 9 | 1.65 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 9 | 1.65 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 9 | 1.65 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 9 | 1.65 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 9 | 1.65 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 9 | 1.65 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 12 | 1.65 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 2 | 1.65 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 5 | 1.65 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 13 | 1.65 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 9 | 1.65 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 9 | 1.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 9 | 1.65 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 9 | 1.65 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 1 | 1.65 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 1 | 1.65 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 1 | 1.65 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 16 | 1.65 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 2 | 1.65 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 6 | 1.65 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 6 | 1.65 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 6 | 1.65 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 2 | 1.65 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 13 | 1.65 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 13 | 1.65 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 13 | 1.65 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 10 | 1.65 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 14 | 1.65 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 2 | 1.65 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 2 | 1.65 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 18 | 1.65 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 18 | 1.65 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 6 | 1.65 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 6 | 1.65 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 6 | 1.65 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 3 | 1.65 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 3 | 1.65 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 3 | 1.65 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 13 | 1.65 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 1 | 1.65 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 1 | 1.65 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 1 | 1.65 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 10 | 1.65 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 10 | 1.65 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 10 | 1.65 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 20 | 1.65 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 8 | 1.65 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 8 | 1.65 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 8 | 1.65 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 8 | 1.65 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 8 | 1.65 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 8 | 1.65 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 4 | 1.65 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 17 | 1.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 17 | 1.65 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 17 | 1.65 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 12 | 1.65 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 12 | 1.65 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 12 | 1.65 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 10 | 1.65 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 15 | 1.65 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 3 | 1.65 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 12 | 1.65 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 3 | 1.65 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 10 | 1.65 |
| (1,811) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 18 | 1.65 |
| (1,811) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 18 | 1.65 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 1.65 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 19 | 1.65 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 19 | 1.65 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 19 | 1.65 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 19 | 1.65 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 19 | 1.65 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 19 | 1.65 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 3 | 1.65 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 12 | 1.65 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 9 | 1.65 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 12 | 1.65 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 4 | 1.65 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 4 | 1.65 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 4 | 1.65 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 4 | 1.65 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 4 | 1.65 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 4 | 1.65 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 7 | 1.65 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 7 | 1.65 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 7 | 1.65 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 1 | 1.65 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 1 | 1.65 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 1 | 1.65 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 6 | 1.65 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 1 | 1.65 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 1 | 1.65 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 8 | 1.65 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 8 | 1.65 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 12 | 1.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 20 | 1.65 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 12 | 1.65 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 17 | 1.65 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 5 | 1.65 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 14 | 1.65 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 14 | 1.65 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 14 | 1.65 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 18 | 1.65 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 18 | 1.65 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 18 | 1.65 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 17 | 1.65 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 13 | 1.65 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 13 | 1.65 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 7 | 1.65 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 3 | 1.65 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 3 | 1.65 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 19 | 1.65 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 19 | 1.65 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 8 | 1.65 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 1.65 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 1.65 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 1.65 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 16 | 1.65 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 16 | 1.65 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 16 | 1.65 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 8 | 1.65 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 8 | 1.65 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 8 | 1.65 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 16 | 1.65 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 16 | 1.65 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 16 | 1.65 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 20 | 1.65 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 2 | 1.65 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 2 | 1.65 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 2 | 1.65 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 2 | 1.65 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 2 | 1.65 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 2 | 1.65 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 2 | 1.65 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 2 | 1.65 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 2 | 1.65 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 15 | 1.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 15 | 1.65 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 15 | 1.65 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 19 | 1.65 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 14 | 1.65 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 15 | 1.65 |
| (1,55) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 20 | 1.65 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 14 | 1.65 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 14 | 1.65 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 5 | 1.65 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 15 | 1.65 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 15 | 1.65 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 15 | 1.65 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 2 | 1.64 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 15 | 1.64 |
| (4,131) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 5 | 1.64 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 2 | 1.64 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 2 | 1.64 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 4 | 1.64 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 1 | 1.64 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 1 | 1.64 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 1 | 1.64 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 1 | 1.64 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 1 | 1.64 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 10 | 1.64 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 2 | 1.64 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 2 | 1.64 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 2 | 1.64 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 4 | 1.64 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 4 | 1.64 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 4 | 1.64 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 12 | 1.64 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 12 | 1.64 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 12 | 1.64 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 5 | 1.64 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 5 | 1.64 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 5 | 1.64 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 5 | 1.64 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 5 | 1.64 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 5 | 1.64 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 5 | 1.64 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 5 | 1.64 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 5 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 5 | 1.64 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 5 | 1.64 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 5 | 1.64 |
| (1,5830) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 13 | 1.64 |
| (1,5830) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 13 | 1.64 |
| (1,5830) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 13 | 1.64 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 20 | 1.64 |
| (1,5797) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 7 | 1.64 |
| (1,5797) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 7 | 1.64 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 5 | 1.64 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 5 | 1.64 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 5 | 1.64 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 5 | 1.64 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 5 | 1.64 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 5 | 1.64 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 5 | 1.64 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 5 | 1.64 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 5 | 1.64 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 11 | 1.64 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 11 | 1.64 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 11 | 1.64 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 19 | 1.64 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 19 | 1.64 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 19 | 1.64 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 7 | 1.64 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 7 | 1.64 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 7 | 1.64 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 7 | 1.64 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 7 | 1.64 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 7 | 1.64 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 7 | 1.64 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 7 | 1.64 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 7 | 1.64 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 20 | 1.64 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 8 | 1.64 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 8 | 1.64 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 3 | 1.64 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 3 | 1.64 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 3 | 1.64 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 3 | 1.64 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 3 | 1.64 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 3 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 7 | 1.64 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 12 | 1.64 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 12 | 1.64 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 3 | 1.64 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 3 | 1.64 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 3 | 1.64 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 3 | 1.64 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 3 | 1.64 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 3 | 1.64 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 5 | 1.64 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 5 | 1.64 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 15 | 1.64 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 6 | 1.64 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 6 | 1.64 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 6 | 1.64 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 6 | 1.64 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 6 | 1.64 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 6 | 1.64 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 6 | 1.64 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 6 | 1.64 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 6 | 1.64 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 13 | 1.64 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 7 | 1.64 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 7 | 1.64 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 7 | 1.64 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 7 | 1.64 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 7 | 1.64 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 7 | 1.64 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 17 | 1.64 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 17 | 1.64 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 17 | 1.64 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 17 | 1.64 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 17 | 1.64 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 17 | 1.64 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 14 | 1.64 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 14 | 1.64 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 14 | 1.64 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 14 | 1.64 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 14 | 1.64 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 14 | 1.64 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 3 | 1.64 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 5 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 3 | 1.64 |
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 6 | 1.64 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 18 | 1.64 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 18 | 1.64 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 18 | 1.64 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 18 | 1.64 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 18 | 1.64 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 18 | 1.64 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 19 | 1.64 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 4 | 1.64 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 6 | 1.64 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 6 | 1.64 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 6 | 1.64 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 17 | 1.64 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 17 | 1.64 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 7 | 1.64 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 19 | 1.64 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 6 | 1.64 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 11 | 1.64 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 19 | 1.64 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 11 | 1.64 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 11 | 1.64 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 11 | 1.64 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 10 | 1.64 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 10 | 1.64 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 9 | 1.64 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 9 | 1.64 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 9 | 1.64 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 9 | 1.64 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 9 | 1.64 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 9 | 1.64 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 9 | 1.64 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 9 | 1.64 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 9 | 1.64 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 9 | 1.64 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 6 | 1.64 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 20 | 1.64 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 20 | 1.64 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 20 | 1.64 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 20 | 1.64 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 20 | 1.64 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 20 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 20 | 1.64 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 20 | 1.64 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 20 | 1.64 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 8 | 1.64 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 5 | 1.64 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 5 | 1.64 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 5 | 1.64 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 5 | 1.64 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 5 | 1.64 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 5 | 1.64 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 18 | 1.64 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 16 | 1.64 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 10 | 1.64 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 4 | 1.64 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 18 | 1.64 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 6 | 1.64 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 3 | 1.64 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 3 | 1.64 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 3 | 1.64 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 3 | 1.64 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 7 | 1.64 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 7 | 1.64 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 7 | 1.64 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 9 | 1.64 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 7 | 1.64 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 20 | 1.64 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 20 | 1.64 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 20 | 1.64 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 16 | 1.64 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 6 | 1.64 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 6 | 1.64 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 6 | 1.64 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 5 | 1.64 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 13 | 1.64 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 20 | 1.64 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 10 | 1.64 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 1 | 1.64 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 1 | 1.64 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 1 | 1.64 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 19 | 1.64 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 5 | 1.64 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 5 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 5 | 1.64 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 3 | 1.64 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 4 | 1.64 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 4 | 1.64 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 7 | 1.64 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 7 | 1.64 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 10 | 1.64 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 10 | 1.64 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 16 | 1.64 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 7 | 1.64 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 7 | 1.64 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 20 | 1.64 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 15 | 1.64 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 15 | 1.64 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 15 | 1.64 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 15 | 1.64 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 15 | 1.64 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 15 | 1.64 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 10 | 1.64 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 10 | 1.64 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 10 | 1.64 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 1 | 1.64 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 7 | 1.64 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 7 | 1.64 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 7 | 1.64 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 18 | 1.64 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 18 | 1.64 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 18 | 1.64 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 18 | 1.64 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 8 | 1.64 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 14 | 1.64 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 17 | 1.64 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 14 | 1.64 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 5 | 1.64 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 7 | 1.64 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 19 | 1.64 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 19 | 1.64 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 19 | 1.64 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 12 | 1.64 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 12 | 1.64 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 12 | 1.64 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 5 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 5 | 1.64 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 5 | 1.64 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 5 | 1.64 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 5 | 1.64 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 5 | 1.64 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 13 | 1.64 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 13 | 1.64 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 13 | 1.64 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 9 | 1.64 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 9 | 1.64 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 9 | 1.64 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 17 | 1.64 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 16 | 1.64 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 2 | 1.64 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 2 | 1.64 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 2 | 1.64 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 5 | 1.64 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 3 | 1.64 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 3 | 1.64 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 3 | 1.64 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 13 | 1.64 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 13 | 1.64 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 13 | 1.64 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 10 | 1.64 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 2 | 1.64 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 2 | 1.64 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 4 | 1.64 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 4 | 1.64 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 12 | 1.64 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 12 | 1.64 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 12 | 1.64 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 9 | 1.64 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 9 | 1.64 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 9 | 1.64 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 13 | 1.64 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 13 | 1.64 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 14 | 1.64 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 14 | 1.64 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 1 | 1.64 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 4 | 1.64 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 11 | 1.64 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 15 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 6 | 1.64 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 6 | 1.64 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 6 | 1.64 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 20 | 1.64 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 20 | 1.64 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 20 | 1.64 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 7 | 1.64 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 7 | 1.64 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 7 | 1.64 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 7 | 1.64 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 9 | 1.64 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 18 | 1.64 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 5 | 1.64 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 5 | 1.64 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 5 | 1.64 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 19 | 1.64 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 7 | 1.64 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 7 | 1.64 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 19 | 1.64 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 19 | 1.64 |
| (4,326) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 10 | 1.63 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 1 | 1.63 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 20 | 1.63 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 18 | 1.63 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 4 | 1.63 |
| (4,27) | 1:15:A:MET:CB | 1:78:A:ILE:H | 19 | 1.63 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 17 | 1.63 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 17 | 1.63 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 19 | 1.63 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 19 | 1.63 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 15 | 1.63 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 15 | 1.63 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 14 | 1.63 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 14 | 1.63 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 13 | 1.63 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 13 | 1.63 |
| (3,18) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 1 | 1.63 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 3 | 1.63 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 3 | 1.63 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 10 | 1.63 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 10 | 1.63 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 17 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 17 | 1.63 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 17 | 1.63 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 17 | 1.63 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 6 | 1.63 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 6 | 1.63 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 6 | 1.63 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 6 | 1.63 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 6 | 1.63 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 6 | 1.63 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 13 | 1.63 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 13 | 1.63 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 9 | 1.63 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 12 | 1.63 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 12 | 1.63 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 12 | 1.63 |
| (1,7251) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 12 | 1.63 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 12 | 1.63 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 12 | 1.63 |
| (1,7251) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 12 | 1.63 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 12 | 1.63 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 12 | 1.63 |
| (1,7251) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 12 | 1.63 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 18 | 1.63 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 18 | 1.63 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 18 | 1.63 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 19 | 1.63 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 18 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 9 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 9 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 9 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 9 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 9 | 1.63 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 9 | 1.63 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 16 | 1.63 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 13 | 1.63 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 13 | 1.63 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 13 | 1.63 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 18 | 1.63 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 18 | 1.63 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 18 | 1.63 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 8 | 1.63 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 9 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 18 | 1.63 |
| (1,4850) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 16 | 1.63 |
| (1,4850) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 16 | 1.63 |
| (1,4850) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 16 | 1.63 |
| (1,4827) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 20 | 1.63 |
| (1,4827) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 20 | 1.63 |
| (1,4827) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 20 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 9 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 9 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 9 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 9 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 9 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 9 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 9 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 9 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 9 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 20 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 20 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 20 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 20 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 20 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 20 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 20 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 20 | 1.63 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 20 | 1.63 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 9 | 1.63 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 1.63 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 1.63 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 2 | 1.63 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 2 | 1.63 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 2 | 1.63 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 2 | 1.63 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 2 | 1.63 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 2 | 1.63 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 19 | 1.63 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 19 | 1.63 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 19 | 1.63 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 19 | 1.63 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 19 | 1.63 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 19 | 1.63 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 3 | 1.63 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 3 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 12 | 1.63 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 12 | 1.63 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 12 | 1.63 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 12 | 1.63 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 12 | 1.63 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 12 | 1.63 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 6 | 1.63 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 5 | 1.63 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 5 | 1.63 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 2 | 1.63 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 2 | 1.63 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 2 | 1.63 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 2 | 1.63 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 2 | 1.63 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 2 | 1.63 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 13 | 1.63 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 13 | 1.63 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 13 | 1.63 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 13 | 1.63 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 13 | 1.63 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 13 | 1.63 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 10 | 1.63 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 11 | 1.63 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 11 | 1.63 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 20 | 1.63 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 13 | 1.63 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 13 | 1.63 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 11 | 1.63 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 3 | 1.63 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 3 | 1.63 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 3 | 1.63 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 6 | 1.63 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 6 | 1.63 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 18 | 1.63 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 20 | 1.63 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 20 | 1.63 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 12 | 1.63 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 12 | 1.63 |
| (1,3460) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 12 | 1.63 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 12 | 1.63 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 12 | 1.63 |
| (1,3460) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 12 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 12 | 1.63 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 12 | 1.63 |
| (1,3460) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 12 | 1.63 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 14 | 1.63 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 7 | 1.63 |
| (1,3365) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 10 | 1.63 |
| (1,3365) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 10 | 1.63 |
| (1,3365) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 10 | 1.63 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 7 | 1.63 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 17 | 1.63 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 5 | 1.63 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 5 | 1.63 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 5 | 1.63 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 8 | 1.63 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 12 | 1.63 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 8 | 1.63 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 9 | 1.63 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 14 | 1.63 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 5 | 1.63 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 5 | 1.63 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 5 | 1.63 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 12 | 1.63 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 12 | 1.63 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 12 | 1.63 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 6 | 1.63 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 1 | 1.63 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 1 | 1.63 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 20 | 1.63 |
| (1,3013) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 20 | 1.63 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 9 | 1.63 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 9 | 1.63 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 9 | 1.63 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 20 | 1.63 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 20 | 1.63 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 20 | 1.63 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 19 | 1.63 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 2 | 1.63 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 2 | 1.63 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 2 | 1.63 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 18 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 4 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 4 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 4 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 4 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 4 | 1.63 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 4 | 1.63 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 17 | 1.63 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 17 | 1.63 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 17 | 1.63 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 4 | 1.63 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 8 | 1.63 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 3 | 1.63 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 8 | 1.63 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 5 | 1.63 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 5 | 1.63 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 5 | 1.63 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 5 | 1.63 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 5 | 1.63 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 5 | 1.63 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 5 | 1.63 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 5 | 1.63 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 5 | 1.63 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 14 | 1.63 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 1 | 1.63 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 14 | 1.63 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 17 | 1.63 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 17 | 1.63 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 17 | 1.63 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 18 | 1.63 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 4 | 1.63 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 4 | 1.63 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 4 | 1.63 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 4 | 1.63 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 17 | 1.63 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 17 | 1.63 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 17 | 1.63 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 17 | 1.63 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 18 | 1.63 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 18 | 1.63 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 18 | 1.63 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 11 | 1.63 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 11 | 1.63 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 8 | 1.63 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 8 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 16 | 1.63 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 14 | 1.63 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 14 | 1.63 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 14 | 1.63 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 12 | 1.63 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 16 | 1.63 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 9 | 1.63 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 8 | 1.63 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 17 | 1.63 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 17 | 1.63 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 17 | 1.63 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 2 | 1.63 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 6 | 1.63 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 12 | 1.63 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 11 | 1.63 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 11 | 1.63 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 17 | 1.63 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 19 | 1.63 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 19 | 1.63 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 3 | 1.63 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 3 | 1.63 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 10 | 1.63 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 1.63 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 1.63 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 1.63 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 6 | 1.63 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 6 | 1.63 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 6 | 1.63 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 1 | 1.63 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 8 | 1.63 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 7 | 1.63 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 2 | 1.63 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 8 | 1.63 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 14 | 1.63 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 15 | 1.63 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 5 | 1.63 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 18 | 1.63 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 18 | 1.63 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 18 | 1.63 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 18 | 1.63 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 18 | 1.63 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 18 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 19 | 1.63 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 19 | 1.63 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 19 | 1.63 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 19 | 1.63 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 19 | 1.63 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 19 | 1.63 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 17 | 1.63 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 17 | 1.63 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 17 | 1.63 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 10 | 1.63 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 10 | 1.63 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 10 | 1.63 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 6 | 1.63 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 6 | 1.63 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 6 | 1.63 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 14 | 1.63 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 3 | 1.63 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 18 | 1.63 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 18 | 1.63 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 18 | 1.63 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 1 | 1.63 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 1 | 1.63 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 1 | 1.63 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 4 | 1.63 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 10 | 1.63 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 2 | 1.63 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 2 | 1.63 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 2 | 1.63 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 4 | 1.63 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 4 | 1.63 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 4 | 1.63 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 16 | 1.63 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 20 | 1.63 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 20 | 1.63 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 20 | 1.63 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 12 | 1.63 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 12 | 1.63 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 12 | 1.63 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 17 | 1.63 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 7 | 1.63 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 7 | 1.63 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 3 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 6 | 1.63 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 6 | 1.63 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 6 | 1.63 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 10 | 1.63 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 10 | 1.63 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 10 | 1.63 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 11 | 1.63 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 11 | 1.63 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 11 | 1.63 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 2 | 1.63 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 1 | 1.63 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 7 | 1.63 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 15 | 1.63 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 8 | 1.63 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 8 | 1.63 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 8 | 1.63 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 4 | 1.63 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 9 | 1.63 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 3 | 1.62 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 13 | 1.62 |
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 13 | 1.62 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 13 | 1.62 |
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 4 | 1.62 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 2 | 1.62 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 2 | 1.62 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 2 | 1.62 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 2 | 1.62 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 2 | 1.62 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 2 | 1.62 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 6 | 1.62 |
| (1,8124) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 4 | 1.62 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 10 | 1.62 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 15 | 1.62 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 5 | 1.62 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 9 | 1.62 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 13 | 1.62 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 17 | 1.62 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 17 | 1.62 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 11 | 1.62 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 11 | 1.62 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 11 | 1.62 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 16 | 1.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 5 | 1.62 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 7 | 1.62 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 7 | 1.62 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 7 | 1.62 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 7 | 1.62 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 18 | 1.62 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 18 | 1.62 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 18 | 1.62 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 15 | 1.62 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 1 | 1.62 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 10 | 1.62 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 10 | 1.62 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 10 | 1.62 |
| (1,6116) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 13 | 1.62 |
| (1,6116) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 13 | 1.62 |
| (1,6116) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 13 | 1.62 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 10 | 1.62 |
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 4 | 1.62 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 4 | 1.62 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 4 | 1.62 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 19 | 1.62 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 19 | 1.62 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 19 | 1.62 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 10 | 1.62 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 10 | 1.62 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 10 | 1.62 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 14 | 1.62 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 14 | 1.62 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 14 | 1.62 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 4 | 1.62 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 10 | 1.62 |
| (1,4856) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 16 | 1.62 |
| (1,4856) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 16 | 1.62 |
| (1,4856) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 16 | 1.62 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 12 | 1.62 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 18 | 1.62 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 15 | 1.62 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 15 | 1.62 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 15 | 1.62 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 15 | 1.62 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 15 | 1.62 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 15 | 1.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 15 | 1.62 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 17 | 1.62 |
| (1,4535) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 17 | 1.62 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 6 | 1.62 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 6 | 1.62 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 15 | 1.62 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 15 | 1.62 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 15 | 1.62 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 15 | 1.62 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 15 | 1.62 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 15 | 1.62 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 16 | 1.62 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 16 | 1.62 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 16 | 1.62 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 16 | 1.62 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 16 | 1.62 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 16 | 1.62 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 17 | 1.62 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 10 | 1.62 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 10 | 1.62 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 10 | 1.62 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 10 | 1.62 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 10 | 1.62 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 10 | 1.62 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 7 | 1.62 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 7 | 1.62 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 7 | 1.62 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 7 | 1.62 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 7 | 1.62 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 7 | 1.62 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 19 | 1.62 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 19 | 1.62 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 19 | 1.62 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 16 | 1.62 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 16 | 1.62 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 16 | 1.62 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 16 | 1.62 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 16 | 1.62 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 16 | 1.62 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 17 | 1.62 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 17 | 1.62 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 17 | 1.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 7 | 1.62 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 7 | 1.62 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 7 | 1.62 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 7 | 1.62 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 7 | 1.62 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 7 | 1.62 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 9 | 1.62 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 9 | 1.62 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 13 | 1.62 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 13 | 1.62 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 13 | 1.62 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 13 | 1.62 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 13 | 1.62 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 13 | 1.62 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 19 | 1.62 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 19 | 1.62 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 19 | 1.62 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 19 | 1.62 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 19 | 1.62 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 19 | 1.62 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 17 | 1.62 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 17 | 1.62 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 2 | 1.62 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 2 | 1.62 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 1.62 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 1.62 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 1.62 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 1.62 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 1.62 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 1.62 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 19 | 1.62 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 19 | 1.62 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 19 | 1.62 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 19 | 1.62 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 19 | 1.62 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 19 | 1.62 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 19 | 1.62 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 19 | 1.62 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 20 | 1.62 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 20 | 1.62 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 20 | 1.62 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 9 | 1.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 9 | 1.62 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 9 | 1.62 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 9 | 1.62 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 3 | 1.62 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 3 | 1.62 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 3 | 1.62 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 3 | 1.62 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 3 | 1.62 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 3 | 1.62 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 6 | 1.62 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 6 | 1.62 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 6 | 1.62 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 6 | 1.62 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 6 | 1.62 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 6 | 1.62 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 11 | 1.62 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 8 | 1.62 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 8 | 1.62 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 8 | 1.62 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 8 | 1.62 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 8 | 1.62 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 8 | 1.62 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 12 | 1.62 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 12 | 1.62 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 12 | 1.62 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 2 | 1.62 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 13 | 1.62 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 8 | 1.62 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 4 | 1.62 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 10 | 1.62 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 1 | 1.62 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 18 | 1.62 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 2 | 1.62 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 6 | 1.62 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 4 | 1.62 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 4 | 1.62 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 1 | 1.62 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 4 | 1.62 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 2 | 1.62 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 14 | 1.62 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 6 | 1.62 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 9 | 1.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 17 | 1.62 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 17 | 1.62 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 17 | 1.62 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 17 | 1.62 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 18 | 1.62 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 18 | 1.62 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 18 | 1.62 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 18 | 1.62 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 18 | 1.62 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 18 | 1.62 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 20 | 1.62 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 20 | 1.62 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 20 | 1.62 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 20 | 1.62 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 20 | 1.62 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 20 | 1.62 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 19 | 1.62 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 11 | 1.62 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 11 | 1.62 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 9 | 1.62 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 13 | 1.62 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 13 | 1.62 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 13 | 1.62 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 16 | 1.62 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 11 | 1.62 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 1 | 1.62 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 14 | 1.62 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 7 | 1.62 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 2 | 1.62 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 16 | 1.62 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 6 | 1.62 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 6 | 1.62 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 6 | 1.62 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 8 | 1.62 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 18 | 1.62 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 6 | 1.62 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 6 | 1.62 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 6 | 1.62 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 7 | 1.62 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 7 | 1.62 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 7 | 1.62 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 8 | 1.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 8 | 1.62 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 8 | 1.62 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 8 | 1.62 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 8 | 1.62 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 8 | 1.62 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 8 | 1.62 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 8 | 1.62 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 8 | 1.62 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 20 | 1.62 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 17 | 1.62 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 17 | 1.62 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 17 | 1.62 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 15 | 1.62 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 7 | 1.62 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 7 | 1.62 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 7 | 1.62 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 5 | 1.62 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 4 | 1.62 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 4 | 1.62 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 1 | 1.62 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 1 | 1.62 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 1 | 1.62 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 6 | 1.62 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 6 | 1.62 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 6 | 1.62 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 6 | 1.62 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 6 | 1.62 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 10 | 1.62 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 10 | 1.62 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 10 | 1.62 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 9 | 1.62 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 9 | 1.62 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 9 | 1.62 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 17 | 1.62 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 1 | 1.62 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 10 | 1.62 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 10 | 1.62 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 10 | 1.62 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 15 | 1.62 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 10 | 1.62 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 20 | 1.62 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 2 | 1.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 14 | 1.62 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 7 | 1.62 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 19 | 1.62 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 10 | 1.62 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 10 | 1.62 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 10 | 1.62 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 15 | 1.62 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 15 | 1.62 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 15 | 1.62 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 16 | 1.62 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 17 | 1.62 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 17 | 1.62 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 17 | 1.62 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 17 | 1.62 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 7 | 1.62 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 16 | 1.62 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 9 | 1.62 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 9 | 1.62 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 9 | 1.62 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 9 | 1.62 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 9 | 1.62 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 9 | 1.62 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 9 | 1.62 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 9 | 1.62 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 9 | 1.62 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 13 | 1.62 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 13 | 1.62 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 13 | 1.62 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 13 | 1.62 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 13 | 1.62 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 13 | 1.62 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 10 | 1.62 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 10 | 1.62 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 10 | 1.62 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 19 | 1.62 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 12 | 1.62 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 12 | 1.62 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 12 | 1.62 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 12 | 1.62 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 12 | 1.62 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 12 | 1.62 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 12 | 1.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 12 | 1.62 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 12 | 1.62 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 12 | 1.62 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 8 | 1.62 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 8 | 1.62 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 8 | 1.62 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 18 | 1.62 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 12 | 1.62 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 3 | 1.62 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 13 | 1.62 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 3 | 1.62 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 3 | 1.62 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 3 | 1.62 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 10 | 1.62 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 10 | 1.62 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 10 | 1.62 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 15 | 1.62 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 6 | 1.62 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 2 | 1.62 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 2 | 1.62 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 2 | 1.62 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 17 | 1.62 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 17 | 1.62 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 17 | 1.62 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 13 | 1.62 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 13 | 1.62 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 13 | 1.62 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 4 | 1.62 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 4 | 1.62 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 7 | 1.62 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 7 | 1.62 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 7 | 1.62 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 19 | 1.62 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 3 | 1.62 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 3 | 1.62 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 3 | 1.62 |
| (1,138) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 3 | 1.62 |
| (1,138) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 3 | 1.62 |
| (1,138) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 3 | 1.62 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 19 | 1.62 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 20 | 1.62 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 1 | 1.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 1 | 1.62 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 1 | 1.62 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 1 | 1.62 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 1 | 1.62 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 1 | 1.62 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 7 | 1.62 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 14 | 1.62 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 15 | 1.62 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 10 | 1.62 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 10 | 1.62 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 5 | 1.61 |
| (4,54) | 1:15:A:MET:CB | 1:110:A:PHE:H | 14 | 1.61 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 17 | 1.61 |
| (3,275) | 1:25:A:PHE:HZ | 1:27:A:HIS:HA | 13 | 1.61 |
| (3,213) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 11 | 1.61 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 20 | 1.61 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 20 | 1.61 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 20 | 1.61 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 20 | 1.61 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 12 | 1.61 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 12 | 1.61 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 17 | 1.61 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 17 | 1.61 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 8 | 1.61 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 20 | 1.61 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 7 | 1.61 |
| (1,7273) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 14 | 1.61 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 13 | 1.61 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 13 | 1.61 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 2 | 1.61 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 2 | 1.61 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 2 | 1.61 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 14 | 1.61 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 2 | 1.61 |
| (1,6728) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 5 | 1.61 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 18 | 1.61 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 12 | 1.61 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 2 | 1.61 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 2 | 1.61 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 2 | 1.61 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 20 | 1.61 |
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 18 | 1.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 18 | 1.61 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 18 | 1.61 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 9 | 1.61 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 9 | 1.61 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 9 | 1.61 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 9 | 1.61 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 9 | 1.61 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 9 | 1.61 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 9 | 1.61 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 9 | 1.61 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 9 | 1.61 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 13 | 1.61 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 13 | 1.61 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 13 | 1.61 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 19 | 1.61 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 19 | 1.61 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 19 | 1.61 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 19 | 1.61 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 19 | 1.61 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 19 | 1.61 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 19 | 1.61 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 19 | 1.61 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 19 | 1.61 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 18 | 1.61 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 18 | 1.61 |
| (1,4597) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 18 | 1.61 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 6 | 1.61 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 6 | 1.61 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 7 | 1.61 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 7 | 1.61 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 2 | 1.61 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 2 | 1.61 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 1 | 1.61 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 1 | 1.61 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 18 | 1.61 |
| (1,4247) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 18 | 1.61 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 18 | 1.61 |
| (1,4247) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 18 | 1.61 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 11 | 1.61 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 11 | 1.61 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 11 | 1.61 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 10 | 1.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 14 | 1.61 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 14 | 1.61 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 10 | 1.61 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 10 | 1.61 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 15 | 1.61 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 12 | 1.61 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 12 | 1.61 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 6 | 1.61 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 6 | 1.61 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 4 | 1.61 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 4 | 1.61 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 5 | 1.61 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 5 | 1.61 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 2 | 1.61 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 2 | 1.61 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 2 | 1.61 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 13 | 1.61 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 13 | 1.61 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 13 | 1.61 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 12 | 1.61 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 19 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 13 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 13 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 13 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 13 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 13 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 13 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 17 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 17 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 17 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 17 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 17 | 1.61 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 17 | 1.61 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 16 | 1.61 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 10 | 1.61 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 14 | 1.61 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 20 | 1.61 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 13 | 1.61 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 13 | 1.61 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 13 | 1.61 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 12 | 1.61 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 12 | 1.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 9 | 1.61 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 10 | 1.61 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 10 | 1.61 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 10 | 1.61 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 4 | 1.61 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 9 | 1.61 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 18 | 1.61 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 14 | 1.61 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 14 | 1.61 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 14 | 1.61 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 15 | 1.61 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 15 | 1.61 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 15 | 1.61 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 3 | 1.61 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 3 | 1.61 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 3 | 1.61 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 9 | 1.61 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 13 | 1.61 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 13 | 1.61 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 3 | 1.61 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 3 | 1.61 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 3 | 1.61 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 3 | 1.61 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 3 | 1.61 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 3 | 1.61 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 3 | 1.61 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 3 | 1.61 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 3 | 1.61 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 15 | 1.61 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 15 | 1.61 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 15 | 1.61 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 16 | 1.61 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 16 | 1.61 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 16 | 1.61 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 6 | 1.61 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 19 | 1.61 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 3 | 1.61 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 3 | 1.61 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 3 | 1.61 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 12 | 1.61 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 12 | 1.61 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 12 | 1.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 20 | 1.61 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 20 | 1.61 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 20 | 1.61 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 5 | 1.61 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 7 | 1.61 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 7 | 1.61 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 7 | 1.61 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 1 | 1.61 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 5 | 1.61 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 1 | 1.61 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 1 | 1.61 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 1 | 1.61 |
| (1,1815) | 1:143:A:THR:H | 1:144:A:GLY:H | 5 | 1.61 |
| (1,1783) | 1:142:A:ARG:H | 1:143:A:THR:H | 2 | 1.61 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 11 | 1.61 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 16 | 1.61 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 16 | 1.61 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 16 | 1.61 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 13 | 1.61 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 13 | 1.61 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 9 | 1.61 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 9 | 1.61 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 9 | 1.61 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 9 | 1.61 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 9 | 1.61 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 9 | 1.61 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 9 | 1.61 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 9 | 1.61 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 16 | 1.61 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 14 | 1.61 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 14 | 1.61 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 5 | 1.61 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 16 | 1.61 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 16 | 1.61 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 16 | 1.61 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 18 | 1.61 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 2 | 1.61 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 15 | 1.61 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 12 | 1.61 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 9 | 1.61 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 9 | 1.61 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 14 | 1.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 14 | 1.61 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 14 | 1.61 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 10 | 1.61 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 16 | 1.61 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 15 | 1.61 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 15 | 1.61 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 15 | 1.61 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 15 | 1.61 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 15 | 1.61 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 15 | 1.61 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 2 | 1.61 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 2 | 1.61 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 2 | 1.61 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 2 | 1.61 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 2 | 1.61 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 2 | 1.61 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 3 | 1.61 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 3 | 1.61 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 3 | 1.61 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 3 | 1.61 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 3 | 1.61 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 3 | 1.61 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 19 | 1.61 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 19 | 1.61 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 19 | 1.61 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 19 | 1.61 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 19 | 1.61 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 19 | 1.61 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 12 | 1.61 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 12 | 1.61 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 12 | 1.61 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 12 | 1.61 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 12 | 1.61 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 12 | 1.61 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 12 | 1.61 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 12 | 1.61 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 12 | 1.61 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 1 | 1.61 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 1 | 1.61 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 1 | 1.61 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 14 | 1.61 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 14 | 1.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 14 | 1.61 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 19 | 1.61 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 3 | 1.61 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 7 | 1.61 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 10 | 1.61 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 3 | 1.61 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 2 | 1.61 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 1 | 1.61 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 16 | 1.61 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 4 | 1.61 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 4 | 1.61 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 4 | 1.61 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 20 | 1.61 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 5 | 1.61 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 5 | 1.61 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 7 | 1.61 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 17 | 1.61 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 17 | 1.61 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 5 | 1.61 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 5 | 1.61 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 5 | 1.61 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 8 | 1.61 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 4 | 1.61 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 4 | 1.61 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 4 | 1.61 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 8 | 1.61 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 11 | 1.61 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 16 | 1.61 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 13 | 1.61 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 2 | 1.61 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 3 | 1.61 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 15 | 1.61 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 10 | 1.61 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 3 | 1.61 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 11 | 1.61 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 7 | 1.61 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 7 | 1.61 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 5 | 1.6 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 6 | 1.6 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 15 | 1.6 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 5 | 1.6 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 5 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 14 | 1.6 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 14 | 1.6 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 14 | 1.6 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 5 | 1.6 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 5 | 1.6 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 5 | 1.6 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 5 | 1.6 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 5 | 1.6 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 5 | 1.6 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 10 | 1.6 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 10 | 1.6 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 10 | 1.6 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 10 | 1.6 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 10 | 1.6 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 10 | 1.6 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 9 | 1.6 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 9 | 1.6 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 9 | 1.6 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 9 | 1.6 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 9 | 1.6 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 9 | 1.6 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 4 | 1.6 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 4 | 1.6 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 11 | 1.6 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 5 | 1.6 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 5 | 1.6 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 13 | 1.6 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 13 | 1.6 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 13 | 1.6 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 3 | 1.6 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 3 | 1.6 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 19 | 1.6 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 3 | 1.6 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 3 | 1.6 |
| (1,6508) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 3 | 1.6 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 1 | 1.6 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 1 | 1.6 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 1 | 1.6 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 13 | 1.6 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 13 | 1.6 |
| (1,6330) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 13 | 1.6 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 18 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 18 | 1.6 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 18 | 1.6 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 14 | 1.6 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 14 | 1.6 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 14 | 1.6 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 14 | 1.6 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 14 | 1.6 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 14 | 1.6 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 14 | 1.6 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 14 | 1.6 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 14 | 1.6 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 4 | 1.6 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 9 | 1.6 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 12 | 1.6 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 13 | 1.6 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 11 | 1.6 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 16 | 1.6 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 1 | 1.6 |
| (1,4769) | 1:58:A:SER:H | 1:160:A:LEU:H | 17 | 1.6 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 7 | 1.6 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 7 | 1.6 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 14 | 1.6 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 10 | 1.6 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 12 | 1.6 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 12 | 1.6 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 12 | 1.6 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 12 | 1.6 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 9 | 1.6 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 15 | 1.6 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 15 | 1.6 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 12 | 1.6 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 12 | 1.6 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 4 | 1.6 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 4 | 1.6 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 3 | 1.6 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 3 | 1.6 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 3 | 1.6 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 3 | 1.6 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 3 | 1.6 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 3 | 1.6 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 13 | 1.6 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 13 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 3 | 1.6 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 3 | 1.6 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 1 | 1.6 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 1 | 1.6 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 1 | 1.6 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 1 | 1.6 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 1 | 1.6 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 1 | 1.6 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 19 | 1.6 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 19 | 1.6 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 19 | 1.6 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 10 | 1.6 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 10 | 1.6 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 6 | 1.6 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 1 | 1.6 |
| (1,3827) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 1 | 1.6 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 1 | 1.6 |
| (1,3827) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 1 | 1.6 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 1 | 1.6 |
| (1,3827) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 1 | 1.6 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 1 | 1.6 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 1 | 1.6 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 1 | 1.6 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 1 | 1.6 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 1 | 1.6 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 1 | 1.6 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 11 | 1.6 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 11 | 1.6 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 11 | 1.6 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 11 | 1.6 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 11 | 1.6 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 11 | 1.6 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 9 | 1.6 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 9 | 1.6 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 9 | 1.6 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 9 | 1.6 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 13 | 1.6 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 13 | 1.6 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 13 | 1.6 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 13 | 1.6 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 18 | 1.6 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 18 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3591) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 4 | 1.6 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 12 | 1.6 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 15 | 1.6 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 15 | 1.6 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 15 | 1.6 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 13 | 1.6 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 13 | 1.6 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 13 | 1.6 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 14 | 1.6 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 14 | 1.6 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 14 | 1.6 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 20 | 1.6 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 20 | 1.6 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 11 | 1.6 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 11 | 1.6 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 19 | 1.6 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 19 | 1.6 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 9 | 1.6 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 9 | 1.6 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 9 | 1.6 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 18 | 1.6 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 14 | 1.6 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 2 | 1.6 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 8 | 1.6 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 9 | 1.6 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 3 | 1.6 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 19 | 1.6 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 15 | 1.6 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 15 | 1.6 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 15 | 1.6 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 11 | 1.6 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 11 | 1.6 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 11 | 1.6 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 18 | 1.6 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 18 | 1.6 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 18 | 1.6 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 10 | 1.6 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 10 | 1.6 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 4 | 1.6 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 2 | 1.6 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 2 | 1.6 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 2 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 9 | 1.6 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 9 | 1.6 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 9 | 1.6 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 6 | 1.6 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 16 | 1.6 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 16 | 1.6 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 16 | 1.6 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 20 | 1.6 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 14 | 1.6 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 18 | 1.6 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 18 | 1.6 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 18 | 1.6 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 10 | 1.6 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 10 | 1.6 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 10 | 1.6 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 17 | 1.6 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 19 | 1.6 |
| (1,2347) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 3 | 1.6 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 8 | 1.6 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 20 | 1.6 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 8 | 1.6 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 15 | 1.6 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 9 | 1.6 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 9 | 1.6 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 9 | 1.6 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 18 | 1.6 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 5 | 1.6 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 5 | 1.6 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 5 | 1.6 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 11 | 1.6 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 9 | 1.6 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 9 | 1.6 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 9 | 1.6 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 18 | 1.6 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 18 | 1.6 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 18 | 1.6 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 10 | 1.6 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 10 | 1.6 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 10 | 1.6 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 19 | 1.6 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 19 | 1.6 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 19 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 16 | 1.6 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 17 | 1.6 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 12 | 1.6 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 11 | 1.6 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 11 | 1.6 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 11 | 1.6 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 1 | 1.6 |
| (1,1621) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 20 | 1.6 |
| (1,1621) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 20 | 1.6 |
| (1,1621) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 20 | 1.6 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 12 | 1.6 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 9 | 1.6 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 9 | 1.6 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 5 | 1.6 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 5 | 1.6 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 5 | 1.6 |
| (1,1463) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 18 | 1.6 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 10 | 1.6 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 10 | 1.6 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 10 | 1.6 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 13 | 1.6 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 13 | 1.6 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 13 | 1.6 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 15 | 1.6 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 6 | 1.6 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 6 | 1.6 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 6 | 1.6 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 6 | 1.6 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 6 | 1.6 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 6 | 1.6 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 14 | 1.6 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 16 | 1.6 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 16 | 1.6 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 14 | 1.6 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 13 | 1.6 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 13 | 1.6 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 13 | 1.6 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 12 | 1.6 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 5 | 1.6 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 5 | 1.6 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 5 | 1.6 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 15 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 15 | 1.6 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 15 | 1.6 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 12 | 1.6 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 8 | 1.6 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 8 | 1.6 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 8 | 1.6 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 8 | 1.6 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 8 | 1.6 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 8 | 1.6 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 8 | 1.6 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 8 | 1.6 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 8 | 1.6 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 13 | 1.6 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 13 | 1.6 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 13 | 1.6 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 13 | 1.6 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 13 | 1.6 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 13 | 1.6 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 20 | 1.6 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 20 | 1.6 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 20 | 1.6 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 20 | 1.6 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 20 | 1.6 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 20 | 1.6 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 8 | 1.6 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 8 | 1.6 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 8 | 1.6 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 20 | 1.6 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 20 | 1.6 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 20 | 1.6 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 14 | 1.6 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 14 | 1.6 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 14 | 1.6 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 14 | 1.6 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 14 | 1.6 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 14 | 1.6 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 14 | 1.6 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 14 | 1.6 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 14 | 1.6 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 1 | 1.6 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 1 | 1.6 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 1 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 2 | 1.6 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 2 | 1.6 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 2 | 1.6 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 20 | 1.6 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 20 | 1.6 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 20 | 1.6 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 1 | 1.6 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 2 | 1.6 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 1 | 1.6 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 1 | 1.6 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 1 | 1.6 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 18 | 1.6 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 18 | 1.6 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 18 | 1.6 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 18 | 1.6 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 18 | 1.6 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 18 | 1.6 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 18 | 1.6 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 18 | 1.6 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 18 | 1.6 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 10 | 1.6 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 10 | 1.6 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 10 | 1.6 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 14 | 1.6 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 4 | 1.6 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 4 | 1.6 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 4 | 1.6 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 2 | 1.6 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 2 | 1.6 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 2 | 1.6 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 2 | 1.6 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 2 | 1.6 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 2 | 1.6 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 2 | 1.6 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 2 | 1.6 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 2 | 1.6 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 4 | 1.6 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 8 | 1.6 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 13 | 1.6 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 13 | 1.6 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 13 | 1.6 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 17 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 17 | 1.6 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 17 | 1.6 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 10 | 1.6 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 1 | 1.6 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 19 | 1.6 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 19 | 1.6 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 13 | 1.6 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 13 | 1.6 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 13 | 1.6 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 13 | 1.6 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 13 | 1.6 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 13 | 1.6 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 13 | 1.6 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 13 | 1.6 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 13 | 1.6 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 1 | 1.6 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 1 | 1.6 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 1 | 1.6 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 1 | 1.6 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 1 | 1.6 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 1 | 1.6 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 19 | 1.6 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 19 | 1.6 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 19 | 1.6 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 1 | 1.6 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 16 | 1.6 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 16 | 1.6 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 8 | 1.59 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 8 | 1.59 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 5 | 1.59 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 19 | 1.59 |
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 15 | 1.59 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 15 | 1.59 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 15 | 1.59 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 9 | 1.59 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 9 | 1.59 |
| (1,8786) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 19 | 1.59 |
| (1,8786) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 19 | 1.59 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 1 | 1.59 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 6 | 1.59 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 10 | 1.59 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 10 | 1.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 3 | 1.59 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 5 | 1.59 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 5 | 1.59 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 5 | 1.59 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 7 | 1.59 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 5 | 1.59 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 5 | 1.59 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 5 | 1.59 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 5 | 1.59 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 5 | 1.59 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 5 | 1.59 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 5 | 1.59 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 5 | 1.59 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 5 | 1.59 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 14 | 1.59 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 2 | 1.59 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 8 | 1.59 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 18 | 1.59 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 18 | 1.59 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 18 | 1.59 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 8 | 1.59 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 6 | 1.59 |
| (1,4975) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 17 | 1.59 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 7 | 1.59 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 7 | 1.59 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 7 | 1.59 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 7 | 1.59 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 7 | 1.59 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 7 | 1.59 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 7 | 1.59 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 7 | 1.59 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 2 | 1.59 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 2 | 1.59 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 2 | 1.59 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 2 | 1.59 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 1 | 1.59 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 18 | 1.59 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 11 | 1.59 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 11 | 1.59 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 18 | 1.59 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 18 | 1.59 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 17 | 1.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 17 | 1.59 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 17 | 1.59 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 17 | 1.59 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 17 | 1.59 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 17 | 1.59 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 20 | 1.59 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 20 | 1.59 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 20 | 1.59 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 20 | 1.59 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 20 | 1.59 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 20 | 1.59 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 15 | 1.59 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 15 | 1.59 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 15 | 1.59 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 15 | 1.59 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 15 | 1.59 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 15 | 1.59 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 12 | 1.59 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 12 | 1.59 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 12 | 1.59 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 4 | 1.59 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 4 | 1.59 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 4 | 1.59 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 4 | 1.59 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 4 | 1.59 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 4 | 1.59 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 15 | 1.59 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 10 | 1.59 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 10 | 1.59 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 10 | 1.59 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 10 | 1.59 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 10 | 1.59 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 10 | 1.59 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 15 | 1.59 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 15 | 1.59 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 15 | 1.59 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 15 | 1.59 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 15 | 1.59 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 15 | 1.59 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 19 | 1.59 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 19 | 1.59 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 19 | 1.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 19 | 1.59 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 19 | 1.59 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 19 | 1.59 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG21 | 20 | 1.59 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG22 | 20 | 1.59 |
| (1,3427) | 1:15:A:MET:H | 1:22:A:VAL:HG23 | 20 | 1.59 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 14 | 1.59 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 1 | 1.59 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 15 | 1.59 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 8 | 1.59 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 14 | 1.59 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 14 | 1.59 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 15 | 1.59 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 15 | 1.59 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 8 | 1.59 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 10 | 1.59 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 11 | 1.59 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 4 | 1.59 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 1 | 1.59 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 5 | 1.59 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 14 | 1.59 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 5 | 1.59 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 5 | 1.59 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 16 | 1.59 |
| (1,2989) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 16 | 1.59 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 19 | 1.59 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 19 | 1.59 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 19 | 1.59 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 19 | 1.59 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 19 | 1.59 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 19 | 1.59 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 12 | 1.59 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 12 | 1.59 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 12 | 1.59 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 12 | 1.59 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 12 | 1.59 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 12 | 1.59 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 2 | 1.59 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 7 | 1.59 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 6 | 1.59 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 6 | 1.59 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 6 | 1.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 8 | 1.59 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 8 | 1.59 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 8 | 1.59 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 2 | 1.59 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 2 | 1.59 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 2 | 1.59 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 8 | 1.59 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 2 | 1.59 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 5 | 1.59 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 3 | 1.59 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 3 | 1.59 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 3 | 1.59 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 11 | 1.59 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 11 | 1.59 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 11 | 1.59 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 16 | 1.59 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 11 | 1.59 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 18 | 1.59 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 18 | 1.59 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 18 | 1.59 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 14 | 1.59 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 14 | 1.59 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 14 | 1.59 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 14 | 1.59 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 11 | 1.59 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 11 | 1.59 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 11 | 1.59 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 17 | 1.59 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 17 | 1.59 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 17 | 1.59 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 18 | 1.59 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 18 | 1.59 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 10 | 1.59 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 10 | 1.59 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 10 | 1.59 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 1 | 1.59 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 1 | 1.59 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 1 | 1.59 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 19 | 1.59 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 19 | 1.59 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 19 | 1.59 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 1 | 1.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 1 | 1.59 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 1 | 1.59 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 1 | 1.59 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 1 | 1.59 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 1 | 1.59 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 1 | 1.59 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 1 | 1.59 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 1 | 1.59 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 17 | 1.59 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 5 | 1.59 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 5 | 1.59 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 12 | 1.59 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 12 | 1.59 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 6 | 1.59 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 6 | 1.59 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 4 | 1.59 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 14 | 1.59 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 2 | 1.59 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 11 | 1.59 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 4 | 1.59 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 4 | 1.59 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 5 | 1.59 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 4 | 1.59 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 2 | 1.59 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 18 | 1.59 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 18 | 1.59 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 18 | 1.59 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 4 | 1.59 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 10 | 1.59 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 9 | 1.59 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 9 | 1.59 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 9 | 1.59 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 9 | 1.59 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 9 | 1.59 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 9 | 1.59 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 19 | 1.59 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 19 | 1.59 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 19 | 1.59 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 17 | 1.59 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 13 | 1.59 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 13 | 1.59 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 13 | 1.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 13 | 1.59 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 13 | 1.59 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 13 | 1.59 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 13 | 1.59 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 13 | 1.59 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 13 | 1.59 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 13 | 1.59 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 13 | 1.59 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 13 | 1.59 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 7 | 1.59 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 7 | 1.59 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 7 | 1.59 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 13 | 1.59 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 13 | 1.59 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 13 | 1.59 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 13 | 1.59 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 5 | 1.59 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 4 | 1.59 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 1 | 1.59 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 1 | 1.59 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 1 | 1.59 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 1 | 1.59 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 1 | 1.59 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 1 | 1.59 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 8 | 1.59 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 8 | 1.59 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 8 | 1.59 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 8 | 1.59 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 8 | 1.59 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 8 | 1.59 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 19 | 1.59 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 8 | 1.59 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 8 | 1.59 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 8 | 1.59 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 8 | 1.59 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 8 | 1.59 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 8 | 1.59 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 15 | 1.59 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 5 | 1.59 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 1 | 1.59 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 9 | 1.59 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 9 | 1.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 9 | 1.59 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 12 | 1.59 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 9 | 1.59 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 9 | 1.59 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 9 | 1.59 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 9 | 1.59 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 9 | 1.59 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 9 | 1.59 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 9 | 1.59 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 9 | 1.59 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 9 | 1.59 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 7 | 1.59 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 5 | 1.59 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 5 | 1.59 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 5 | 1.59 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 2 | 1.59 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 1 | 1.59 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 1 | 1.59 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 1 | 1.59 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 4 | 1.59 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 2 | 1.59 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 7 | 1.59 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 7 | 1.59 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 7 | 1.59 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 3 | 1.59 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 3 | 1.59 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 3 | 1.59 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 6 | 1.59 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 8 | 1.59 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 8 | 1.59 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 8 | 1.59 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 13 | 1.59 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 13 | 1.59 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 13 | 1.59 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 13 | 1.59 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 3 | 1.59 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 8 | 1.59 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 8 | 1.59 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 8 | 1.59 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 17 | 1.59 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 1 | 1.59 |
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 5 | 1.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,69) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 18 | 1.59 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 7 | 1.59 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 7 | 1.59 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 7 | 1.59 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 17 | 1.59 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 17 | 1.59 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 17 | 1.59 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 1 | 1.59 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 18 | 1.59 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 18 | 1.59 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 19 | 1.59 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 11 | 1.58 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 12 | 1.58 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 20 | 1.58 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 7 | 1.58 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 7 | 1.58 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 7 | 1.58 |
| (3,307) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 9 | 1.58 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 4 | 1.58 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 4 | 1.58 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 4 | 1.58 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 20 | 1.58 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 20 | 1.58 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 20 | 1.58 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 20 | 1.58 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 20 | 1.58 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 20 | 1.58 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 15 | 1.58 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 15 | 1.58 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 15 | 1.58 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 15 | 1.58 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 15 | 1.58 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 15 | 1.58 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 17 | 1.58 |
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 12 | 1.58 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 12 | 1.58 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 2 | 1.58 |
| (1,6642) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 12 | 1.58 |
| (1,6642) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 12 | 1.58 |
| (1,6642) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 12 | 1.58 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 10 | 1.58 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 11 | 1.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 9 | 1.58 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 9 | 1.58 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 9 | 1.58 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 18 | 1.58 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 15 | 1.58 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 3 | 1.58 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 6 | 1.58 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 6 | 1.58 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 6 | 1.58 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 13 | 1.58 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 13 | 1.58 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 13 | 1.58 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 13 | 1.58 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 11 | 1.58 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 17 | 1.58 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 17 | 1.58 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 6 | 1.58 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 6 | 1.58 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 6 | 1.58 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 1 | 1.58 |
| (1,4541) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 5 | 1.58 |
| (1,4541) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 5 | 1.58 |
| (1,4541) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 5 | 1.58 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 12 | 1.58 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 12 | 1.58 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 15 | 1.58 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 15 | 1.58 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 15 | 1.58 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 15 | 1.58 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 15 | 1.58 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 15 | 1.58 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 5 | 1.58 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 5 | 1.58 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 5 | 1.58 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 5 | 1.58 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 5 | 1.58 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 5 | 1.58 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 5 | 1.58 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 5 | 1.58 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 5 | 1.58 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 5 | 1.58 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 17 | 1.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 17 | 1.58 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 4 | 1.58 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 4 | 1.58 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 11 | 1.58 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 11 | 1.58 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 16 | 1.58 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 16 | 1.58 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 16 | 1.58 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 16 | 1.58 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 16 | 1.58 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 16 | 1.58 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 12 | 1.58 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 12 | 1.58 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 20 | 1.58 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 20 | 1.58 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 2 | 1.58 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 14 | 1.58 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 14 | 1.58 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 16 | 1.58 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 2 | 1.58 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 2 | 1.58 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 3 | 1.58 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 3 | 1.58 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 4 | 1.58 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 4 | 1.58 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 5 | 1.58 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 5 | 1.58 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 18 | 1.58 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 18 | 1.58 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 1 | 1.58 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 15 | 1.58 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 3 | 1.58 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 7 | 1.58 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 10 | 1.58 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 8 | 1.58 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 8 | 1.58 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 4 | 1.58 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 4 | 1.58 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 4 | 1.58 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 16 | 1.58 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 16 | 1.58 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 20 | 1.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 9 | 1.58 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 18 | 1.58 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 7 | 1.58 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 16 | 1.58 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 13 | 1.58 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 4 | 1.58 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 4 | 1.58 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 4 | 1.58 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 4 | 1.58 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 20 | 1.58 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 7 | 1.58 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 7 | 1.58 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 7 | 1.58 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 8 | 1.58 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 8 | 1.58 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 13 | 1.58 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 13 | 1.58 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 10 | 1.58 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 10 | 1.58 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 15 | 1.58 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 2 | 1.58 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 5 | 1.58 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 5 | 1.58 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 5 | 1.58 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 4 | 1.58 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 4 | 1.58 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 4 | 1.58 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 19 | 1.58 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 5 | 1.58 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 9 | 1.58 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 13 | 1.58 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 13 | 1.58 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 14 | 1.58 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 17 | 1.58 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 7 | 1.58 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 10 | 1.58 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 14 | 1.58 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 18 | 1.58 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 8 | 1.58 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 12 | 1.58 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 12 | 1.58 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 12 | 1.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 18 | 1.58 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 18 | 1.58 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 18 | 1.58 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 6 | 1.58 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 8 | 1.58 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 8 | 1.58 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 8 | 1.58 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 8 | 1.58 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 4 | 1.58 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 4 | 1.58 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 4 | 1.58 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 2 | 1.58 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 2 | 1.58 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 2 | 1.58 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 6 | 1.58 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 6 | 1.58 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 6 | 1.58 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 6 | 1.58 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 6 | 1.58 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 6 | 1.58 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 6 | 1.58 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 6 | 1.58 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 6 | 1.58 |
| (1,1795) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 8 | 1.58 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 8 | 1.58 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 2 | 1.58 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 2 | 1.58 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 2 | 1.58 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 2 | 1.58 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 2 | 1.58 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 2 | 1.58 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 2 | 1.58 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 2 | 1.58 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 2 | 1.58 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 13 | 1.58 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 13 | 1.58 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 13 | 1.58 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 13 | 1.58 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 13 | 1.58 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 13 | 1.58 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 13 | 1.58 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 13 | 1.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 13 | 1.58 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 15 | 1.58 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 5 | 1.58 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 3 | 1.58 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 1 | 1.58 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 15 | 1.58 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 11 | 1.58 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 15 | 1.58 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 17 | 1.58 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 14 | 1.58 |
| (1,1359) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 13 | 1.58 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 14 | 1.58 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 14 | 1.58 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 14 | 1.58 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 14 | 1.58 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 14 | 1.58 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 14 | 1.58 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 20 | 1.58 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 3 | 1.58 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 2 | 1.58 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 2 | 1.58 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 17 | 1.58 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 1.58 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 8 | 1.58 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 8 | 1.58 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 8 | 1.58 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 8 | 1.58 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 8 | 1.58 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 8 | 1.58 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 12 | 1.58 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 2 | 1.58 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 2 | 1.58 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 2 | 1.58 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 20 | 1.58 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 20 | 1.58 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 20 | 1.58 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 4 | 1.58 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 4 | 1.58 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 4 | 1.58 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 4 | 1.58 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 5 | 1.58 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 5 | 1.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 5 | 1.58 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 9 | 1.58 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 20 | 1.58 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 11 | 1.58 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 6 | 1.58 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 6 | 1.58 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 6 | 1.58 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 14 | 1.58 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 9 | 1.58 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 9 | 1.58 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 9 | 1.58 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 10 | 1.58 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 10 | 1.58 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 10 | 1.58 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 5 | 1.58 |
| (1,459) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 11 | 1.58 |
| (1,459) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 11 | 1.58 |
| (1,459) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 11 | 1.58 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 3 | 1.58 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 11 | 1.58 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 5 | 1.58 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 13 | 1.58 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 7 | 1.58 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 7 | 1.58 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 7 | 1.58 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 4 | 1.58 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 11 | 1.58 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 5 | 1.58 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 4 | 1.58 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 4 | 1.58 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 6 | 1.58 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 6 | 1.58 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 6 | 1.58 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 11 | 1.58 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 7 | 1.58 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 7 | 1.58 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 7 | 1.58 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 7 | 1.58 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 7 | 1.58 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 7 | 1.58 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 13 | 1.58 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 13 | 1.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 13 | 1.58 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 14 | 1.58 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 2 | 1.58 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 10 | 1.58 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 6 | 1.58 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 14 | 1.58 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 14 | 1.58 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 11 | 1.58 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 15 | 1.58 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 10 | 1.57 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 14 | 1.57 |
| (3,851) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 18 | 1.57 |
| (3,851) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 18 | 1.57 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 6 | 1.57 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 6 | 1.57 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 1 | 1.57 |
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 1 | 1.57 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 1 | 1.57 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 18 | 1.57 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 19 | 1.57 |
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 8 | 1.57 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 8 | 1.57 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 14 | 1.57 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 14 | 1.57 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 14 | 1.57 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 14 | 1.57 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 13 | 1.57 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 13 | 1.57 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 13 | 1.57 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 13 | 1.57 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 13 | 1.57 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 13 | 1.57 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 12 | 1.57 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 18 | 1.57 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 7 | 1.57 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 7 | 1.57 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 7 | 1.57 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 16 | 1.57 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 16 | 1.57 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 18 | 1.57 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 4 | 1.57 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 4 | 1.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 4 | 1.57 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 16 | 1.57 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 11 | 1.57 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 2 | 1.57 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 2 | 1.57 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 2 | 1.57 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 2 | 1.57 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 8 | 1.57 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 8 | 1.57 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 8 | 1.57 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 13 | 1.57 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 13 | 1.57 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 13 | 1.57 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 2 | 1.57 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 1 | 1.57 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 19 | 1.57 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 19 | 1.57 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 19 | 1.57 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 19 | 1.57 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 19 | 1.57 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 19 | 1.57 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 19 | 1.57 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 19 | 1.57 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 19 | 1.57 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 19 | 1.57 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 19 | 1.57 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 19 | 1.57 |
| (1,4769) | 1:58:A:SER:H | 1:160:A:LEU:H | 14 | 1.57 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 8 | 1.57 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 11 | 1.57 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 11 | 1.57 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 11 | 1.57 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 20 | 1.57 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 5 | 1.57 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 5 | 1.57 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 9 | 1.57 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 9 | 1.57 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 9 | 1.57 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 9 | 1.57 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 9 | 1.57 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 9 | 1.57 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 3 | 1.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 3 | 1.57 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 13 | 1.57 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 13 | 1.57 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 12 | 1.57 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 12 | 1.57 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 2 | 1.57 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 2 | 1.57 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 2 | 1.57 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 9 | 1.57 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 9 | 1.57 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 9 | 1.57 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 9 | 1.57 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 9 | 1.57 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 9 | 1.57 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 2 | 1.57 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 2 | 1.57 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 12 | 1.57 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 12 | 1.57 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 13 | 1.57 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 13 | 1.57 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 3 | 1.57 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 3 | 1.57 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 12 | 1.57 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 14 | 1.57 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 11 | 1.57 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 11 | 1.57 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 1 | 1.57 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 1 | 1.57 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 6 | 1.57 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 17 | 1.57 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 17 | 1.57 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 17 | 1.57 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 3 | 1.57 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 3 | 1.57 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 2 | 1.57 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 2 | 1.57 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 2 | 1.57 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 2 | 1.57 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 2 | 1.57 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 2 | 1.57 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 16 | 1.57 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 7 | 1.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 7 | 1.57 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 10 | 1.57 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 10 | 1.57 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD2 | 14 | 1.57 |
| (1,3895) | 1:69:A:ARG:HB2 | 1:70:A:PRO:HD3 | 14 | 1.57 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD2 | 14 | 1.57 |
| (1,3895) | 1:69:A:ARG:HB3 | 1:70:A:PRO:HD3 | 14 | 1.57 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 8 | 1.57 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 8 | 1.57 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 1 | 1.57 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 5 | 1.57 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 5 | 1.57 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 5 | 1.57 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 5 | 1.57 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 5 | 1.57 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 5 | 1.57 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 6 | 1.57 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 6 | 1.57 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 14 | 1.57 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 14 | 1.57 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 1 | 1.57 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 1 | 1.57 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 1 | 1.57 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 1 | 1.57 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 1 | 1.57 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 1 | 1.57 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 1 | 1.57 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 1 | 1.57 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 1 | 1.57 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 1 | 1.57 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 5 | 1.57 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 5 | 1.57 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 5 | 1.57 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 5 | 1.57 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 5 | 1.57 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 5 | 1.57 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 16 | 1.57 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 11 | 1.57 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 11 | 1.57 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 11 | 1.57 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 19 | 1.57 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 6 | 1.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 14 | 1.57 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 14 | 1.57 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 14 | 1.57 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 1 | 1.57 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 7 | 1.57 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 1 | 1.57 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 1 | 1.57 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 1 | 1.57 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 1 | 1.57 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 14 | 1.57 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 14 | 1.57 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 4 | 1.57 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 4 | 1.57 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 6 | 1.57 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 8 | 1.57 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 8 | 1.57 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 8 | 1.57 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 4 | 1.57 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 4 | 1.57 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 4 | 1.57 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 3 | 1.57 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 3 | 1.57 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 3 | 1.57 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 17 | 1.57 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 7 | 1.57 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 7 | 1.57 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 20 | 1.57 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 20 | 1.57 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 20 | 1.57 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 14 | 1.57 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 14 | 1.57 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 14 | 1.57 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 2 | 1.57 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 8 | 1.57 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 8 | 1.57 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 8 | 1.57 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 12 | 1.57 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 12 | 1.57 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 12 | 1.57 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 6 | 1.57 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 6 | 1.57 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 6 | 1.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 6 | 1.57 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 6 | 1.57 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 6 | 1.57 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 6 | 1.57 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 6 | 1.57 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 6 | 1.57 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 11 | 1.57 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 6 | 1.57 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 6 | 1.57 |
| (1,1987) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 6 | 1.57 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 17 | 1.57 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 1 | 1.57 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 16 | 1.57 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 16 | 1.57 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 16 | 1.57 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 16 | 1.57 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 10 | 1.57 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 10 | 1.57 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 10 | 1.57 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 10 | 1.57 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 10 | 1.57 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 10 | 1.57 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 10 | 1.57 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 10 | 1.57 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 10 | 1.57 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 1 | 1.57 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 1 | 1.57 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 1 | 1.57 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 1 | 1.57 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 1 | 1.57 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 1 | 1.57 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 1 | 1.57 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 1 | 1.57 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 1 | 1.57 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 16 | 1.57 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 16 | 1.57 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 16 | 1.57 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 10 | 1.57 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 10 | 1.57 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 10 | 1.57 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 5 | 1.57 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 5 | 1.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 13 | 1.57 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 13 | 1.57 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 13 | 1.57 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 14 | 1.57 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 12 | 1.57 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 12 | 1.57 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 12 | 1.57 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 5 | 1.57 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 4 | 1.57 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 17 | 1.57 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 16 | 1.57 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 16 | 1.57 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 16 | 1.57 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 16 | 1.57 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 16 | 1.57 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 16 | 1.57 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 9 | 1.57 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 9 | 1.57 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 9 | 1.57 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 9 | 1.57 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 9 | 1.57 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 9 | 1.57 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 9 | 1.57 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 9 | 1.57 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 9 | 1.57 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 10 | 1.57 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 14 | 1.57 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 14 | 1.57 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 14 | 1.57 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 15 | 1.57 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 2 | 1.57 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 19 | 1.57 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 19 | 1.57 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 19 | 1.57 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 10 | 1.57 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 11 | 1.57 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 18 | 1.57 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 18 | 1.57 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 18 | 1.57 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 18 | 1.57 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 18 | 1.57 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 18 | 1.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 5 | 1.57 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 3 | 1.57 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 3 | 1.57 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 3 | 1.57 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 17 | 1.57 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 2 | 1.57 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 1 | 1.57 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 1 | 1.57 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 13 | 1.57 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 13 | 1.57 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 13 | 1.57 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 3 | 1.57 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 3 | 1.57 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 3 | 1.57 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 3 | 1.57 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 3 | 1.57 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 3 | 1.57 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 12 | 1.57 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 12 | 1.57 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 12 | 1.57 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 12 | 1.57 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 12 | 1.57 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 12 | 1.57 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 2 | 1.57 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 2 | 1.57 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 2 | 1.57 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 14 | 1.57 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 14 | 1.57 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 14 | 1.57 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 8 | 1.57 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 3 | 1.57 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 3 | 1.57 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 3 | 1.57 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 3 | 1.57 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 15 | 1.57 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 6 | 1.57 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 4 | 1.57 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 4 | 1.57 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 4 | 1.57 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 13 | 1.57 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 13 | 1.57 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 13 | 1.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 8 | 1.57 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 19 | 1.57 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 15 | 1.57 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 15 | 1.57 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 5 | 1.57 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 5 | 1.57 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 5 | 1.57 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 13 | 1.57 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 13 | 1.57 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 13 | 1.57 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 5 | 1.57 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 5 | 1.57 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 10 | 1.57 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 10 | 1.57 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 10 | 1.57 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 1 | 1.57 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 11 | 1.57 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 11 | 1.57 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 11 | 1.57 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 8 | 1.57 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 8 | 1.57 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 8 | 1.57 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 8 | 1.57 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 8 | 1.57 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 8 | 1.57 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 8 | 1.57 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 8 | 1.57 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 8 | 1.57 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 15 | 1.57 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 8 | 1.57 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 19 | 1.57 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 7 | 1.57 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 15 | 1.57 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 20 | 1.57 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 12 | 1.57 |
| (4,171) | 1:98:A:SER:CB | 1:39:A:GLY:H | 18 | 1.56 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 12 | 1.56 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 9 | 1.56 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 8 | 1.56 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 11 | 1.56 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 16 | 1.56 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 16 | 1.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,571) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 20 | 1.56 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 4 | 1.56 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 4 | 1.56 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 4 | 1.56 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 4 | 1.56 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 4 | 1.56 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 4 | 1.56 |
| (3,288) | 1:26:A:ASN:H | 1:29:A:THR:H | 7 | 1.56 |
| (3,213) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 9 | 1.56 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 13 | 1.56 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 13 | 1.56 |
| (1,9499) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 13 | 1.56 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 13 | 1.56 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 13 | 1.56 |
| (1,9499) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 13 | 1.56 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 6 | 1.56 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 6 | 1.56 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 7 | 1.56 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 7 | 1.56 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 7 | 1.56 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 7 | 1.56 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 5 | 1.56 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 5 | 1.56 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 5 | 1.56 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 5 | 1.56 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 20 | 1.56 |
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 16 | 1.56 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 16 | 1.56 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 20 | 1.56 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 7 | 1.56 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 7 | 1.56 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 7 | 1.56 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 7 | 1.56 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 7 | 1.56 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 7 | 1.56 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 7 | 1.56 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 7 | 1.56 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 7 | 1.56 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 12 | 1.56 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 12 | 1.56 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 12 | 1.56 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 6 | 1.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 4 | 1.56 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 8 | 1.56 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 5 | 1.56 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 7 | 1.56 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 7 | 1.56 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 7 | 1.56 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 10 | 1.56 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 10 | 1.56 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 11 | 1.56 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 18 | 1.56 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 8 | 1.56 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 8 | 1.56 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 8 | 1.56 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 8 | 1.56 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 8 | 1.56 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 8 | 1.56 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 11 | 1.56 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 11 | 1.56 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 19 | 1.56 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 19 | 1.56 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 5 | 1.56 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 17 | 1.56 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 17 | 1.56 |
| (1,4269) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 17 | 1.56 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 8 | 1.56 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 8 | 1.56 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 14 | 1.56 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 14 | 1.56 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 16 | 1.56 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 16 | 1.56 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 16 | 1.56 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 16 | 1.56 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 16 | 1.56 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 19 | 1.56 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 19 | 1.56 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 19 | 1.56 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 19 | 1.56 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 19 | 1.56 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 19 | 1.56 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 15 | 1.56 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 15 | 1.56 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 1 | 1.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 1 | 1.56 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 1 | 1.56 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 1 | 1.56 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 11 | 1.56 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 11 | 1.56 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 11 | 1.56 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 11 | 1.56 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 15 | 1.56 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 15 | 1.56 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 16 | 1.56 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 16 | 1.56 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 19 | 1.56 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 19 | 1.56 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 8 | 1.56 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 1.56 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 8 | 1.56 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 11 | 1.56 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 11 | 1.56 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 11 | 1.56 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 10 | 1.56 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 10 | 1.56 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 10 | 1.56 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 10 | 1.56 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 2 | 1.56 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 2 | 1.56 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 4 | 1.56 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 4 | 1.56 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 4 | 1.56 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 4 | 1.56 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 4 | 1.56 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 4 | 1.56 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 11 | 1.56 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 14 | 1.56 |
| (1,3347) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HA | 13 | 1.56 |
| (1,3347) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HA | 13 | 1.56 |
| (1,3347) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HA | 13 | 1.56 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 17 | 1.56 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 7 | 1.56 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 18 | 1.56 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 19 | 1.56 |
| (1,3063) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 5 | 1.56 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 11 | 1.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 10 | 1.56 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 11 | 1.56 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 10 | 1.56 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 11 | 1.56 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 11 | 1.56 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 11 | 1.56 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 4 | 1.56 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 4 | 1.56 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 4 | 1.56 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 10 | 1.56 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 10 | 1.56 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 8 | 1.56 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 4 | 1.56 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 20 | 1.56 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 2 | 1.56 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 2 | 1.56 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 2 | 1.56 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 17 | 1.56 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 14 | 1.56 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 14 | 1.56 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 14 | 1.56 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 15 | 1.56 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 15 | 1.56 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 15 | 1.56 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 14 | 1.56 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 3 | 1.56 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 3 | 1.56 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 3 | 1.56 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 13 | 1.56 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 18 | 1.56 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 18 | 1.56 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 18 | 1.56 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 8 | 1.56 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 6 | 1.56 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 6 | 1.56 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 6 | 1.56 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 13 | 1.56 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 8 | 1.56 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 8 | 1.56 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 8 | 1.56 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 8 | 1.56 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 8 | 1.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 8 | 1.56 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 17 | 1.56 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 10 | 1.56 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 11 | 1.56 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 18 | 1.56 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 18 | 1.56 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 18 | 1.56 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 15 | 1.56 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 15 | 1.56 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 15 | 1.56 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 8 | 1.56 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 8 | 1.56 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 8 | 1.56 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 3 | 1.56 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 14 | 1.56 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 20 | 1.56 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 20 | 1.56 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 20 | 1.56 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 19 | 1.56 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 19 | 1.56 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 19 | 1.56 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 4 | 1.56 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 4 | 1.56 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 4 | 1.56 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 3 | 1.56 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 3 | 1.56 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 3 | 1.56 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 3 | 1.56 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 3 | 1.56 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 3 | 1.56 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 6 | 1.56 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 6 | 1.56 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 6 | 1.56 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 6 | 1.56 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 9 | 1.56 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 7 | 1.56 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 14 | 1.56 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 17 | 1.56 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 17 | 1.56 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 17 | 1.56 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 17 | 1.56 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 17 | 1.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 17 | 1.56 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 17 | 1.56 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 17 | 1.56 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 17 | 1.56 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 17 | 1.56 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 2 | 1.56 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 2 | 1.56 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 2 | 1.56 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 1 | 1.56 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 1 | 1.56 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 1 | 1.56 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 19 | 1.56 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 19 | 1.56 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 15 | 1.56 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 8 | 1.56 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 5 | 1.56 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 19 | 1.56 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 6 | 1.56 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 6 | 1.56 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 20 | 1.56 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 20 | 1.56 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 20 | 1.56 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 20 | 1.56 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 20 | 1.56 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 20 | 1.56 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 13 | 1.56 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 17 | 1.56 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 1 | 1.56 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 17 | 1.56 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 12 | 1.56 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 16 | 1.56 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 16 | 1.56 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 16 | 1.56 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 6 | 1.56 |
| (1,933) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 18 | 1.56 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 6 | 1.56 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 6 | 1.56 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 6 | 1.56 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 6 | 1.56 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 6 | 1.56 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 6 | 1.56 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 6 | 1.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 5 | 1.56 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 17 | 1.56 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 17 | 1.56 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 17 | 1.56 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 11 | 1.56 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 18 | 1.56 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 2 | 1.56 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 13 | 1.56 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 13 | 1.56 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 13 | 1.56 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 20 | 1.56 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 20 | 1.56 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 20 | 1.56 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 3 | 1.56 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 3 | 1.56 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 3 | 1.56 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 3 | 1.56 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 3 | 1.56 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 3 | 1.56 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 15 | 1.56 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 15 | 1.56 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 15 | 1.56 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 2 | 1.56 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 2 | 1.56 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 2 | 1.56 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 2 | 1.56 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 2 | 1.56 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 2 | 1.56 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 2 | 1.56 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 2 | 1.56 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 2 | 1.56 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 6 | 1.56 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 6 | 1.56 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 6 | 1.56 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 6 | 1.56 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 6 | 1.56 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 6 | 1.56 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 6 | 1.56 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 6 | 1.56 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 6 | 1.56 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 7 | 1.56 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 7 | 1.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 7 | 1.56 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 13 | 1.56 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 13 | 1.56 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 13 | 1.56 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 2 | 1.56 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 16 | 1.56 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 16 | 1.56 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 3 | 1.56 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 18 | 1.56 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 18 | 1.56 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 18 | 1.56 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 17 | 1.56 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 7 | 1.56 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 7 | 1.56 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 7 | 1.56 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 7 | 1.56 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 9 | 1.56 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 11 | 1.56 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 11 | 1.56 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 9 | 1.56 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 9 | 1.56 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 9 | 1.56 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 12 | 1.56 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 13 | 1.56 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 13 | 1.56 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 13 | 1.56 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 13 | 1.56 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 13 | 1.56 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 13 | 1.56 |
| (1,36) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 7 | 1.56 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 18 | 1.56 |
| (4,327) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 1 | 1.55 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 4 | 1.55 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 18 | 1.55 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 4 | 1.55 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 4 | 1.55 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 12 | 1.55 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 12 | 1.55 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 1 | 1.55 |
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 1 | 1.55 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 1 | 1.55 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 9 | 1.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 9 | 1.55 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 9 | 1.55 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 9 | 1.55 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 17 | 1.55 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 17 | 1.55 |
| (1,9033) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 3 | 1.55 |
| (1,9033) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 3 | 1.55 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 20 | 1.55 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 20 | 1.55 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 17 | 1.55 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 17 | 1.55 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 11 | 1.55 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 11 | 1.55 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 11 | 1.55 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 11 | 1.55 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 11 | 1.55 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 11 | 1.55 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 11 | 1.55 |
| (1,8124) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 20 | 1.55 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 8 | 1.55 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 13 | 1.55 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 13 | 1.55 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 13 | 1.55 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 13 | 1.55 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 13 | 1.55 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 13 | 1.55 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 2 | 1.55 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 2 | 1.55 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 2 | 1.55 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 13 | 1.55 |
| (1,6020) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 12 | 1.55 |
| (1,6020) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 12 | 1.55 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 8 | 1.55 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 7 | 1.55 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 15 | 1.55 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 16 | 1.55 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 16 | 1.55 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 16 | 1.55 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 15 | 1.55 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 15 | 1.55 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 15 | 1.55 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 13 | 1.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 2 | 1.55 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 2 | 1.55 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 2 | 1.55 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 16 | 1.55 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 16 | 1.55 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 16 | 1.55 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 16 | 1.55 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 16 | 1.55 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 16 | 1.55 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 20 | 1.55 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 20 | 1.55 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 20 | 1.55 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 20 | 1.55 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 20 | 1.55 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 20 | 1.55 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 18 | 1.55 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 18 | 1.55 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 6 | 1.55 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 4 | 1.55 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 4 | 1.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 4 | 1.55 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 10 | 1.55 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 19 | 1.55 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 19 | 1.55 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 19 | 1.55 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 19 | 1.55 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 19 | 1.55 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 19 | 1.55 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 2 | 1.55 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 2 | 1.55 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 14 | 1.55 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 14 | 1.55 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 8 | 1.55 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 8 | 1.55 |
| (1,3847) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 9 | 1.55 |
| (1,3847) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 9 | 1.55 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 1 | 1.55 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 1 | 1.55 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 1 | 1.55 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 1 | 1.55 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 1 | 1.55 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 1 | 1.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 20 | 1.55 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 12 | 1.55 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 12 | 1.55 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 10 | 1.55 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 10 | 1.55 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 10 | 1.55 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 10 | 1.55 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 10 | 1.55 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 10 | 1.55 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 11 | 1.55 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 11 | 1.55 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 16 | 1.55 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 16 | 1.55 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 1 | 1.55 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 6 | 1.55 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 11 | 1.55 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 4 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 8 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 8 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 8 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 16 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 16 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 16 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 19 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 19 | 1.55 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 19 | 1.55 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 5 | 1.55 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 20 | 1.55 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 9 | 1.55 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 11 | 1.55 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 11 | 1.55 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 11 | 1.55 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 3 | 1.55 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 10 | 1.55 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 18 | 1.55 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 10 | 1.55 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 4 | 1.55 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 4 | 1.55 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 4 | 1.55 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 7 | 1.55 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 13 | 1.55 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 14 | 1.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 8 | 1.55 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 3 | 1.55 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 17 | 1.55 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 17 | 1.55 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 17 | 1.55 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 16 | 1.55 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 16 | 1.55 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 16 | 1.55 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 13 | 1.55 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 13 | 1.55 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 13 | 1.55 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 13 | 1.55 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 3 | 1.55 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 3 | 1.55 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 3 | 1.55 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 16 | 1.55 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 16 | 1.55 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 18 | 1.55 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 18 | 1.55 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 4 | 1.55 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 19 | 1.55 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 19 | 1.55 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 19 | 1.55 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 19 | 1.55 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 19 | 1.55 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 19 | 1.55 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 19 | 1.55 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 19 | 1.55 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 19 | 1.55 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 17 | 1.55 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 17 | 1.55 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 1 | 1.55 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 1 | 1.55 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 15 | 1.55 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 15 | 1.55 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 15 | 1.55 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 15 | 1.55 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 14 | 1.55 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 2 | 1.55 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 1 | 1.55 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 1 | 1.55 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 1 | 1.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 1 | 1.55 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 1 | 1.55 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 1 | 1.55 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 16 | 1.55 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 16 | 1.55 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 1 | 1.55 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 5 | 1.55 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 5 | 1.55 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 5 | 1.55 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 8 | 1.55 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 3 | 1.55 |
| (1,1045) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 8 | 1.55 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 2 | 1.55 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 2 | 1.55 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 2 | 1.55 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 5 | 1.55 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 5 | 1.55 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 5 | 1.55 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 8 | 1.55 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 8 | 1.55 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 8 | 1.55 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 5 | 1.55 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 6 | 1.55 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 6 | 1.55 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 7 | 1.55 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 7 | 1.55 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 7 | 1.55 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 4 | 1.55 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 15 | 1.55 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 15 | 1.55 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 15 | 1.55 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 15 | 1.55 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 15 | 1.55 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 15 | 1.55 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 18 | 1.55 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 15 | 1.55 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 11 | 1.55 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 11 | 1.55 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 11 | 1.55 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 11 | 1.55 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 11 | 1.55 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 11 | 1.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 12 | 1.55 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 12 | 1.55 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 12 | 1.55 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 19 | 1.55 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 19 | 1.55 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 19 | 1.55 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 19 | 1.55 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 1 | 1.55 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 19 | 1.55 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 3 | 1.55 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 13 | 1.55 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 2 | 1.55 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 13 | 1.55 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 13 | 1.55 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 13 | 1.55 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 2 | 1.55 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 5 | 1.55 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 5 | 1.55 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 5 | 1.55 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 1 | 1.55 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 1 | 1.55 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 1 | 1.55 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 14 | 1.55 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 4 | 1.55 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 4 | 1.55 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 4 | 1.55 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 7 | 1.55 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 7 | 1.55 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 7 | 1.55 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 3 | 1.55 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 6 | 1.55 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 14 | 1.55 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 14 | 1.55 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 14 | 1.55 |
| (4,166) | 1:98:A:SER:CB | 1:30:A:ASN:H | 16 | 1.54 |
| (4,165) | 1:98:A:SER:CB | 1:29:A:THR:H | 16 | 1.54 |
| (4,98) | 1:15:A:MET:CB | 1:159:A:ILE:H | 20 | 1.54 |
| (3,143) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 20 | 1.54 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 19 | 1.54 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 19 | 1.54 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 7 | 1.54 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 7 | 1.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 17 | 1.54 |
| (1,7241) | 1:28:A:ILE:H | 1:29:A:THR:HA | 7 | 1.54 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 14 | 1.54 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 16 | 1.54 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 1 | 1.54 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 1 | 1.54 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 1 | 1.54 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 9 | 1.54 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 9 | 1.54 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 9 | 1.54 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 9 | 1.54 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 7 | 1.54 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 19 | 1.54 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 3 | 1.54 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 3 | 1.54 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 3 | 1.54 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 18 | 1.54 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 1 | 1.54 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 1 | 1.54 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 4 | 1.54 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 13 | 1.54 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 5 | 1.54 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 5 | 1.54 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 5 | 1.54 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 3 | 1.54 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 9 | 1.54 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 9 | 1.54 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 9 | 1.54 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 3 | 1.54 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 3 | 1.54 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 3 | 1.54 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 3 | 1.54 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 11 | 1.54 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 2 | 1.54 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 2 | 1.54 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 2 | 1.54 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 2 | 1.54 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 2 | 1.54 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 2 | 1.54 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 6 | 1.54 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 6 | 1.54 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 12 | 1.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 12 | 1.54 |
| (1,4387) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 18 | 1.54 |
| (1,4387) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 18 | 1.54 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 13 | 1.54 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 20 | 1.54 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 3 | 1.54 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 3 | 1.54 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 3 | 1.54 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 3 | 1.54 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 19 | 1.54 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 19 | 1.54 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 17 | 1.54 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 8 | 1.54 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 8 | 1.54 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 8 | 1.54 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 8 | 1.54 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 5 | 1.54 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 5 | 1.54 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 3 | 1.54 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 3 | 1.54 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 3 | 1.54 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 2 | 1.54 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 2 | 1.54 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 5 | 1.54 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 5 | 1.54 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 5 | 1.54 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 5 | 1.54 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 5 | 1.54 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 5 | 1.54 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 1.54 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 1.54 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 16 | 1.54 |
| (1,3931) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 16 | 1.54 |
| (1,3855) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 5 | 1.54 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 5 | 1.54 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 5 | 1.54 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 10 | 1.54 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 10 | 1.54 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 10 | 1.54 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 10 | 1.54 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 10 | 1.54 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 10 | 1.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 1 | 1.54 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 3 | 1.54 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 3 | 1.54 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 2 | 1.54 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 2 | 1.54 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 2 | 1.54 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 1 | 1.54 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 14 | 1.54 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 13 | 1.54 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 13 | 1.54 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 1 | 1.54 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 20 | 1.54 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 4 | 1.54 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 7 | 1.54 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 5 | 1.54 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 8 | 1.54 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 9 | 1.54 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 17 | 1.54 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 17 | 1.54 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 17 | 1.54 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 9 | 1.54 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 5 | 1.54 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 5 | 1.54 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 8 | 1.54 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 8 | 1.54 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 8 | 1.54 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 8 | 1.54 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 13 | 1.54 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 13 | 1.54 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 13 | 1.54 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 13 | 1.54 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 5 | 1.54 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 14 | 1.54 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 11 | 1.54 |
| (1,2599) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 10 | 1.54 |
| (1,2599) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 10 | 1.54 |
| (1,2599) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 10 | 1.54 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 12 | 1.54 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 12 | 1.54 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 12 | 1.54 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 9 | 1.54 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 19 | 1.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 6 | 1.54 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 8 | 1.54 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 2 | 1.54 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 13 | 1.54 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 13 | 1.54 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 18 | 1.54 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 1 | 1.54 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 1 | 1.54 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 1 | 1.54 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 1 | 1.54 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 2 | 1.54 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 1.54 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 1.54 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 1.54 |
| (1,2023) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 10 | 1.54 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 14 | 1.54 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 14 | 1.54 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 14 | 1.54 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 4 | 1.54 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 4 | 1.54 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 4 | 1.54 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 4 | 1.54 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 4 | 1.54 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 4 | 1.54 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 4 | 1.54 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 4 | 1.54 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 4 | 1.54 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 16 | 1.54 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 16 | 1.54 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 16 | 1.54 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 16 | 1.54 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 16 | 1.54 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 16 | 1.54 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 16 | 1.54 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 16 | 1.54 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 16 | 1.54 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 1 | 1.54 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 16 | 1.54 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 16 | 1.54 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 16 | 1.54 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 13 | 1.54 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 13 | 1.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 13 | 1.54 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 13 | 1.54 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 13 | 1.54 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 13 | 1.54 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 13 | 1.54 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 13 | 1.54 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 13 | 1.54 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 13 | 1.54 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 13 | 1.54 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 13 | 1.54 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 12 | 1.54 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 7 | 1.54 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 18 | 1.54 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 2 | 1.54 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 2 | 1.54 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 8 | 1.54 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 18 | 1.54 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 14 | 1.54 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 14 | 1.54 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 14 | 1.54 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 17 | 1.54 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 17 | 1.54 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 8 | 1.54 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 6 | 1.54 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 6 | 1.54 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 6 | 1.54 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 12 | 1.54 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 12 | 1.54 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 12 | 1.54 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 19 | 1.54 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 3 | 1.54 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 3 | 1.54 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 3 | 1.54 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 18 | 1.54 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 17 | 1.54 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 18 | 1.54 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 20 | 1.54 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 17 | 1.54 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 2 | 1.54 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 16 | 1.54 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 16 | 1.54 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 16 | 1.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 16 | 1.54 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 16 | 1.54 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 16 | 1.54 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 8 | 1.54 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 18 | 1.54 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 3 | 1.54 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 10 | 1.54 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 15 | 1.54 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 2 | 1.54 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 2 | 1.54 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 2 | 1.54 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 3 | 1.54 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 11 | 1.54 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 20 | 1.54 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 20 | 1.54 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 20 | 1.54 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 16 | 1.54 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 16 | 1.54 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 16 | 1.54 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 18 | 1.54 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 5 | 1.54 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 10 | 1.54 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 13 | 1.54 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 13 | 1.54 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 13 | 1.54 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 17 | 1.54 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 17 | 1.54 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 17 | 1.54 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 15 | 1.54 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 15 | 1.54 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 15 | 1.54 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 12 | 1.54 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 12 | 1.54 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 5 | 1.54 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 17 | 1.54 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 17 | 1.54 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 17 | 1.54 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 17 | 1.54 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 12 | 1.53 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 19 | 1.53 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 20 | 1.53 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 19 | 1.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 19 | 1.53 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 3 | 1.53 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 4 | 1.53 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 18 | 1.53 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 18 | 1.53 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 7 | 1.53 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 13 | 1.53 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 9 | 1.53 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 15 | 1.53 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 15 | 1.53 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 15 | 1.53 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 15 | 1.53 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 15 | 1.53 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 15 | 1.53 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 15 | 1.53 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 15 | 1.53 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 15 | 1.53 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 19 | 1.53 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 19 | 1.53 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 19 | 1.53 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 19 | 1.53 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 19 | 1.53 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 19 | 1.53 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 19 | 1.53 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 19 | 1.53 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 19 | 1.53 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 18 | 1.53 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 18 | 1.53 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 18 | 1.53 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 20 | 1.53 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 20 | 1.53 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 20 | 1.53 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 19 | 1.53 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 19 | 1.53 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 19 | 1.53 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 19 | 1.53 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 19 | 1.53 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 19 | 1.53 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 15 | 1.53 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 20 | 1.53 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 1 | 1.53 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 1 | 1.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 1 | 1.53 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 1 | 1.53 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 4 | 1.53 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 7 | 1.53 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 16 | 1.53 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 15 | 1.53 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 20 | 1.53 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 6 | 1.53 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 6 | 1.53 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 6 | 1.53 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 6 | 1.53 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 6 | 1.53 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 6 | 1.53 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 9 | 1.53 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 9 | 1.53 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 18 | 1.53 |
| (1,4405) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 18 | 1.53 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 16 | 1.53 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 17 | 1.53 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 17 | 1.53 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 13 | 1.53 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 13 | 1.53 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 13 | 1.53 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 16 | 1.53 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 16 | 1.53 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 3 | 1.53 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 3 | 1.53 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 12 | 1.53 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 12 | 1.53 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 14 | 1.53 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 14 | 1.53 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 14 | 1.53 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 7 | 1.53 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 7 | 1.53 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 7 | 1.53 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 7 | 1.53 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 7 | 1.53 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 7 | 1.53 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 2 | 1.53 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 2 | 1.53 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 10 | 1.53 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 10 | 1.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 19 | 1.53 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 19 | 1.53 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 19 | 1.53 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 12 | 1.53 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 12 | 1.53 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 12 | 1.53 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 12 | 1.53 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 14 | 1.53 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 14 | 1.53 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 14 | 1.53 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 8 | 1.53 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 8 | 1.53 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 14 | 1.53 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 6 | 1.53 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 6 | 1.53 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 1 | 1.53 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 1 | 1.53 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 1 | 1.53 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 6 | 1.53 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 6 | 1.53 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 6 | 1.53 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 2 | 1.53 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 1 | 1.53 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 3 | 1.53 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 6 | 1.53 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 4 | 1.53 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 13 | 1.53 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 13 | 1.53 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 13 | 1.53 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 18 | 1.53 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 5 | 1.53 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 20 | 1.53 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 3 | 1.53 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 18 | 1.53 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 18 | 1.53 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 18 | 1.53 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 19 | 1.53 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 19 | 1.53 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 19 | 1.53 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 12 | 1.53 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 12 | 1.53 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 12 | 1.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 14 | 1.53 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 11 | 1.53 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 11 | 1.53 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 11 | 1.53 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 15 | 1.53 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 4 | 1.53 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 16 | 1.53 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 16 | 1.53 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 16 | 1.53 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 1 | 1.53 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 12 | 1.53 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 1 | 1.53 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 3 | 1.53 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 12 | 1.53 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 5 | 1.53 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 5 | 1.53 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 5 | 1.53 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 1 | 1.53 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 1 | 1.53 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 1 | 1.53 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 5 | 1.53 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 11 | 1.53 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 11 | 1.53 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 11 | 1.53 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 11 | 1.53 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 2 | 1.53 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 2 | 1.53 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 2 | 1.53 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 11 | 1.53 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 20 | 1.53 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 20 | 1.53 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 3 | 1.53 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 16 | 1.53 |
| (1,1633) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 16 | 1.53 |
| (1,1623) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 10 | 1.53 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 17 | 1.53 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 17 | 1.53 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 17 | 1.53 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 4 | 1.53 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 4 | 1.53 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 5 | 1.53 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 5 | 1.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 16 | 1.53 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 16 | 1.53 |
| (1,1569) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 16 | 1.53 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 19 | 1.53 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 9 | 1.53 |
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 9 | 1.53 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 9 | 1.53 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 14 | 1.53 |
| (1,1449) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 7 | 1.53 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 14 | 1.53 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 15 | 1.53 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 3 | 1.53 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 20 | 1.53 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 20 | 1.53 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 20 | 1.53 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 5 | 1.53 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 8 | 1.53 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 13 | 1.53 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 8 | 1.53 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 8 | 1.53 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 18 | 1.53 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 18 | 1.53 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 18 | 1.53 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 16 | 1.53 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 16 | 1.53 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 16 | 1.53 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 10 | 1.53 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 10 | 1.53 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 10 | 1.53 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 10 | 1.53 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 11 | 1.53 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 11 | 1.53 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 11 | 1.53 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 13 | 1.53 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 20 | 1.53 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 8 | 1.53 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 16 | 1.53 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 10 | 1.53 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 10 | 1.53 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 10 | 1.53 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 5 | 1.53 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 16 | 1.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 16 | 1.53 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 9 | 1.53 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 12 | 1.53 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 4 | 1.53 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 4 | 1.53 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 4 | 1.53 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 16 | 1.53 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 8 | 1.53 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 7 | 1.53 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 19 | 1.53 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 6 | 1.53 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 7 | 1.53 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 7 | 1.53 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 7 | 1.53 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 18 | 1.53 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 13 | 1.53 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 1 | 1.53 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 16 | 1.53 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 16 | 1.53 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 16 | 1.53 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 7 | 1.53 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 17 | 1.53 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 17 | 1.53 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 17 | 1.53 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 17 | 1.53 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 17 | 1.53 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 17 | 1.53 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 15 | 1.53 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 13 | 1.53 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 13 | 1.53 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 13 | 1.53 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 4 | 1.53 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 6 | 1.53 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 16 | 1.53 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 18 | 1.53 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 18 | 1.53 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 18 | 1.53 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 3 | 1.53 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 3 | 1.53 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 19 | 1.53 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 20 | 1.53 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 7 | 1.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 6 | 1.52 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 20 | 1.52 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 11 | 1.52 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 4 | 1.52 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 4 | 1.52 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 18 | 1.52 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 18 | 1.52 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 14 | 1.52 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 14 | 1.52 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 14 | 1.52 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 3 | 1.52 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 3 | 1.52 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 14 | 1.52 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 14 | 1.52 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 14 | 1.52 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 14 | 1.52 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 15 | 1.52 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 15 | 1.52 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 13 | 1.52 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 13 | 1.52 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 11 | 1.52 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 17 | 1.52 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 17 | 1.52 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 17 | 1.52 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 17 | 1.52 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 17 | 1.52 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 17 | 1.52 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 17 | 1.52 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 17 | 1.52 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 17 | 1.52 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 18 | 1.52 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 18 | 1.52 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 13 | 1.52 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 13 | 1.52 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 13 | 1.52 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 16 | 1.52 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 16 | 1.52 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 17 | 1.52 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 19 | 1.52 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 1 | 1.52 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 1 | 1.52 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 1 | 1.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 1 | 1.52 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 1 | 1.52 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 1 | 1.52 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 1 | 1.52 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 1 | 1.52 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 1 | 1.52 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 15 | 1.52 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 10 | 1.52 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 15 | 1.52 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 1 | 1.52 |
| (1,5066) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 6 | 1.52 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 6 | 1.52 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 6 | 1.52 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 1 | 1.52 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 1 | 1.52 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 4 | 1.52 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 4 | 1.52 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 4 | 1.52 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 5 | 1.52 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 5 | 1.52 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 17 | 1.52 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 6 | 1.52 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 17 | 1.52 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 17 | 1.52 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 17 | 1.52 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 17 | 1.52 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 17 | 1.52 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 17 | 1.52 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 15 | 1.52 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 15 | 1.52 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 10 | 1.52 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 10 | 1.52 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 10 | 1.52 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 10 | 1.52 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 10 | 1.52 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 10 | 1.52 |
| (1,4159) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 1 | 1.52 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 15 | 1.52 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 15 | 1.52 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 15 | 1.52 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 15 | 1.52 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 15 | 1.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 15 | 1.52 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 3 | 1.52 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 3 | 1.52 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 3 | 1.52 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 3 | 1.52 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 3 | 1.52 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 3 | 1.52 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 11 | 1.52 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 14 | 1.52 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 14 | 1.52 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 13 | 1.52 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 13 | 1.52 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 13 | 1.52 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 13 | 1.52 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 13 | 1.52 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 13 | 1.52 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 1 | 1.52 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 1 | 1.52 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 1 | 1.52 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 1 | 1.52 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 1 | 1.52 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 1 | 1.52 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 8 | 1.52 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 8 | 1.52 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 1 | 1.52 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 1 | 1.52 |
| (1,3503) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 8 | 1.52 |
| (1,3503) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 8 | 1.52 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 13 | 1.52 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 13 | 1.52 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 13 | 1.52 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 13 | 1.52 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 4 | 1.52 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 10 | 1.52 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 13 | 1.52 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 16 | 1.52 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 6 | 1.52 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 6 | 1.52 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 11 | 1.52 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 11 | 1.52 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 11 | 1.52 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 19 | 1.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 17 | 1.52 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 13 | 1.52 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 12 | 1.52 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 11 | 1.52 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 11 | 1.52 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 20 | 1.52 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 15 | 1.52 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 5 | 1.52 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 5 | 1.52 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 5 | 1.52 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 11 | 1.52 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 11 | 1.52 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 16 | 1.52 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 12 | 1.52 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 12 | 1.52 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 16 | 1.52 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 16 | 1.52 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 17 | 1.52 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 19 | 1.52 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 10 | 1.52 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 10 | 1.52 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 6 | 1.52 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 6 | 1.52 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 15 | 1.52 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 15 | 1.52 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 15 | 1.52 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 15 | 1.52 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 15 | 1.52 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 15 | 1.52 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 15 | 1.52 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 15 | 1.52 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 15 | 1.52 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 5 | 1.52 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 19 | 1.52 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 4 | 1.52 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 4 | 1.52 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 4 | 1.52 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 8 | 1.52 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 16 | 1.52 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 11 | 1.52 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 11 | 1.52 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 11 | 1.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 13 | 1.52 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 15 | 1.52 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 15 | 1.52 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 15 | 1.52 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 19 | 1.52 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 8 | 1.52 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 1 | 1.52 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 1 | 1.52 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 1 | 1.52 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 1 | 1.52 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 1 | 1.52 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 1 | 1.52 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 1 | 1.52 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 1 | 1.52 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 1 | 1.52 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 3 | 1.52 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 3 | 1.52 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 3 | 1.52 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 7 | 1.52 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 7 | 1.52 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 7 | 1.52 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 11 | 1.52 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 11 | 1.52 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 11 | 1.52 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 18 | 1.52 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 6 | 1.52 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 7 | 1.52 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 6 | 1.52 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 6 | 1.52 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 20 | 1.52 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 20 | 1.52 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 20 | 1.52 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 18 | 1.52 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 13 | 1.52 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 13 | 1.52 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 13 | 1.52 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 13 | 1.52 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 13 | 1.52 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 13 | 1.52 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 13 | 1.52 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 13 | 1.52 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 13 | 1.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 8 | 1.52 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 9 | 1.52 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 18 | 1.52 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 16 | 1.52 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 16 | 1.52 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 16 | 1.52 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 16 | 1.52 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 16 | 1.52 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 16 | 1.52 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 8 | 1.52 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 16 | 1.52 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 4 | 1.52 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 15 | 1.52 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 16 | 1.52 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 16 | 1.52 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 16 | 1.52 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 16 | 1.52 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 16 | 1.52 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 16 | 1.52 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 11 | 1.52 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 11 | 1.52 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 12 | 1.52 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 12 | 1.52 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 20 | 1.52 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 4 | 1.52 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 20 | 1.52 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 10 | 1.52 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 19 | 1.52 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 19 | 1.52 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 19 | 1.52 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 4 | 1.52 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 4 | 1.52 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 4 | 1.52 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 12 | 1.52 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 12 | 1.52 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 12 | 1.52 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 7 | 1.52 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 4 | 1.52 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 19 | 1.52 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 12 | 1.52 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 4 | 1.52 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 4 | 1.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 4 | 1.52 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 9 | 1.52 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 9 | 1.52 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 9 | 1.52 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 2 | 1.52 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 2 | 1.52 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 9 | 1.52 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 9 | 1.52 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 15 | 1.52 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 15 | 1.52 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 15 | 1.52 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 10 | 1.52 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 10 | 1.52 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 10 | 1.52 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 10 | 1.52 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 10 | 1.52 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 10 | 1.52 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 7 | 1.52 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 7 | 1.52 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 7 | 1.52 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 6 | 1.52 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 6 | 1.52 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 6 | 1.52 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 6 | 1.52 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 6 | 1.52 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 6 | 1.52 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 6 | 1.52 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 6 | 1.52 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 6 | 1.52 |
| (1,477) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 1 | 1.52 |
| (1,477) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 1 | 1.52 |
| (1,477) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 1 | 1.52 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 16 | 1.52 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 3 | 1.52 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 18 | 1.52 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 18 | 1.52 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 18 | 1.52 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 18 | 1.52 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 18 | 1.52 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 18 | 1.52 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 18 | 1.52 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 18 | 1.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 18 | 1.52 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 11 | 1.52 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 11 | 1.52 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 11 | 1.52 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 11 | 1.52 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 11 | 1.52 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 11 | 1.52 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 19 | 1.52 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 6 | 1.52 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 13 | 1.52 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 20 | 1.52 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 8 | 1.52 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 17 | 1.52 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 17 | 1.52 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 17 | 1.52 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 14 | 1.52 |
| (1,77) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 16 | 1.52 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 10 | 1.52 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 10 | 1.52 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 10 | 1.52 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 17 | 1.52 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 17 | 1.52 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 17 | 1.52 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 18 | 1.52 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 18 | 1.52 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 18 | 1.52 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 18 | 1.52 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 15 | 1.51 |
| (4,182) | 1:131:A:GLN:CB | 1:7:A:LEU:H | 3 | 1.51 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 18 | 1.51 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 18 | 1.51 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 4 | 1.51 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 4 | 1.51 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 19 | 1.51 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 19 | 1.51 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 19 | 1.51 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 17 | 1.51 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 17 | 1.51 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 17 | 1.51 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 17 | 1.51 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 19 | 1.51 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 19 | 1.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 19 | 1.51 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 19 | 1.51 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 15 | 1.51 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 15 | 1.51 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 4 | 1.51 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 13 | 1.51 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 13 | 1.51 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 13 | 1.51 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 10 | 1.51 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 5 | 1.51 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 10 | 1.51 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 14 | 1.51 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 5 | 1.51 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 5 | 1.51 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 5 | 1.51 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 3 | 1.51 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 20 | 1.51 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 4 | 1.51 |
| (1,5877) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 20 | 1.51 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 12 | 1.51 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 5 | 1.51 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 2 | 1.51 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 10 | 1.51 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 14 | 1.51 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 15 | 1.51 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 15 | 1.51 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 15 | 1.51 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 15 | 1.51 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 9 | 1.51 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 13 | 1.51 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 18 | 1.51 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 18 | 1.51 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 18 | 1.51 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 18 | 1.51 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 18 | 1.51 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 18 | 1.51 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 18 | 1.51 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 12 | 1.51 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 12 | 1.51 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 1 | 1.51 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 1 | 1.51 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 17 | 1.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 17 | 1.51 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 8 | 1.51 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 4 | 1.51 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 1 | 1.51 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 1 | 1.51 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 14 | 1.51 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 14 | 1.51 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 10 | 1.51 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 10 | 1.51 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 10 | 1.51 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 10 | 1.51 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 10 | 1.51 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 10 | 1.51 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 3 | 1.51 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 3 | 1.51 |
| (1,4167) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 7 | 1.51 |
| (1,4167) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 7 | 1.51 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 9 | 1.51 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 19 | 1.51 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 19 | 1.51 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 19 | 1.51 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 19 | 1.51 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 19 | 1.51 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 19 | 1.51 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 12 | 1.51 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 12 | 1.51 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 11 | 1.51 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 11 | 1.51 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 11 | 1.51 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 14 | 1.51 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 8 | 1.51 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 8 | 1.51 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 8 | 1.51 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 8 | 1.51 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 8 | 1.51 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 8 | 1.51 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 4 | 1.51 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 4 | 1.51 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 11 | 1.51 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 11 | 1.51 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 14 | 1.51 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 14 | 1.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 3 | 1.51 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 3 | 1.51 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 4 | 1.51 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 4 | 1.51 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 9 | 1.51 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 9 | 1.51 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 20 | 1.51 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 14 | 1.51 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 6 | 1.51 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 6 | 1.51 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 6 | 1.51 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 16 | 1.51 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 15 | 1.51 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 18 | 1.51 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 5 | 1.51 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 5 | 1.51 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 5 | 1.51 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 10 | 1.51 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 3 | 1.51 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 13 | 1.51 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 17 | 1.51 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 19 | 1.51 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 4 | 1.51 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 2 | 1.51 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 10 | 1.51 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 18 | 1.51 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 18 | 1.51 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 5 | 1.51 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 10 | 1.51 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 1 | 1.51 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 18 | 1.51 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 19 | 1.51 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 4 | 1.51 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 14 | 1.51 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 16 | 1.51 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 2 | 1.51 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 4 | 1.51 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 19 | 1.51 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 11 | 1.51 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 19 | 1.51 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 8 | 1.51 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 8 | 1.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 8 | 1.51 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 20 | 1.51 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 20 | 1.51 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 20 | 1.51 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 19 | 1.51 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 12 | 1.51 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 18 | 1.51 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 18 | 1.51 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 18 | 1.51 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 14 | 1.51 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 5 | 1.51 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 5 | 1.51 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 16 | 1.51 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 16 | 1.51 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 16 | 1.51 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 1.51 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 18 | 1.51 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 9 | 1.51 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 9 | 1.51 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 9 | 1.51 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 15 | 1.51 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 15 | 1.51 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 15 | 1.51 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 15 | 1.51 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 15 | 1.51 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 15 | 1.51 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 15 | 1.51 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 15 | 1.51 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 15 | 1.51 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 18 | 1.51 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 17 | 1.51 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 17 | 1.51 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 17 | 1.51 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 17 | 1.51 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 17 | 1.51 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 17 | 1.51 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 5 | 1.51 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 10 | 1.51 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 19 | 1.51 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 17 | 1.51 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 17 | 1.51 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 17 | 1.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 6 | 1.51 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 4 | 1.51 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 4 | 1.51 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 4 | 1.51 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 4 | 1.51 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 4 | 1.51 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 4 | 1.51 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 4 | 1.51 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 4 | 1.51 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 4 | 1.51 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 4 | 1.51 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 18 | 1.51 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 18 | 1.51 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 18 | 1.51 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 18 | 1.51 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 2 | 1.51 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 12 | 1.51 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 5 | 1.51 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 15 | 1.51 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 3 | 1.51 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 3 | 1.51 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 3 | 1.51 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 6 | 1.51 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 6 | 1.51 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 6 | 1.51 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 13 | 1.51 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 13 | 1.51 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 13 | 1.51 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 18 | 1.51 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 18 | 1.51 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 18 | 1.51 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 6 | 1.51 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 8 | 1.51 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 2 | 1.51 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 4 | 1.51 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 4 | 1.51 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 2 | 1.51 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 12 | 1.51 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 6 | 1.51 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 1 | 1.51 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 1 | 1.51 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 1 | 1.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 11 | 1.51 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 11 | 1.51 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 11 | 1.51 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 4 | 1.51 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 4 | 1.51 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 4 | 1.51 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 11 | 1.51 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 14 | 1.51 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 1 | 1.51 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 8 | 1.51 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 8 | 1.51 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 8 | 1.51 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 9 | 1.51 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 9 | 1.51 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 9 | 1.51 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 14 | 1.51 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 14 | 1.51 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 14 | 1.51 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 14 | 1.51 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 14 | 1.51 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 14 | 1.51 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 9 | 1.51 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 9 | 1.51 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 9 | 1.51 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 9 | 1.51 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 9 | 1.51 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 9 | 1.51 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 9 | 1.51 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 9 | 1.51 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 3 | 1.51 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 5 | 1.51 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 5 | 1.51 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 5 | 1.51 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 9 | 1.51 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 9 | 1.51 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 9 | 1.51 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 11 | 1.51 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 8 | 1.51 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 8 | 1.51 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 8 | 1.51 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 9 | 1.51 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 9 | 1.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 9 | 1.51 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 3 | 1.51 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 13 | 1.51 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 13 | 1.51 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 13 | 1.51 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 13 | 1.51 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 13 | 1.51 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 13 | 1.51 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 13 | 1.51 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 13 | 1.51 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 13 | 1.51 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 4 | 1.51 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 4 | 1.51 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 4 | 1.51 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 11 | 1.51 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 13 | 1.51 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 10 | 1.51 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 17 | 1.51 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 18 | 1.51 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 4 | 1.51 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 4 | 1.51 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 16 | 1.5 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 12 | 1.5 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 12 | 1.5 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 19 | 1.5 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 19 | 1.5 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 11 | 1.5 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 11 | 1.5 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 11 | 1.5 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 14 | 1.5 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 14 | 1.5 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 14 | 1.5 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 14 | 1.5 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 7 | 1.5 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 7 | 1.5 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 19 | 1.5 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 19 | 1.5 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 16 | 1.5 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 16 | 1.5 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 16 | 1.5 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 16 | 1.5 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 4 | 1.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 4 | 1.5 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 4 | 1.5 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 4 | 1.5 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 4 | 1.5 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 4 | 1.5 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 3 | 1.5 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 4 | 1.5 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 16 | 1.5 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 16 | 1.5 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 16 | 1.5 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 11 | 1.5 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 11 | 1.5 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 11 | 1.5 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 20 | 1.5 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 20 | 1.5 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 20 | 1.5 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 20 | 1.5 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 18 | 1.5 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 7 | 1.5 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 17 | 1.5 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 19 | 1.5 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 19 | 1.5 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 19 | 1.5 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 4 | 1.5 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 4 | 1.5 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 4 | 1.5 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 2 | 1.5 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 16 | 1.5 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 10 | 1.5 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 10 | 1.5 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 10 | 1.5 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 8 | 1.5 |
| (1,4869) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 16 | 1.5 |
| (1,4869) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 16 | 1.5 |
| (1,4869) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 16 | 1.5 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 2 | 1.5 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 2 | 1.5 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 10 | 1.5 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 10 | 1.5 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 10 | 1.5 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 10 | 1.5 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 10 | 1.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 10 | 1.5 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 2 | 1.5 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 2 | 1.5 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 18 | 1.5 |
| (1,4385) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 18 | 1.5 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 18 | 1.5 |
| (1,4385) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 18 | 1.5 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 4 | 1.5 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 4 | 1.5 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 4 | 1.5 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 4 | 1.5 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 4 | 1.5 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 4 | 1.5 |
| (1,4345) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE22 | 8 | 1.5 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 12 | 1.5 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 12 | 1.5 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 13 | 1.5 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 13 | 1.5 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 13 | 1.5 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 13 | 1.5 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 13 | 1.5 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 13 | 1.5 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 18 | 1.5 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 18 | 1.5 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 18 | 1.5 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 14 | 1.5 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 14 | 1.5 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 14 | 1.5 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 14 | 1.5 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 14 | 1.5 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 14 | 1.5 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 19 | 1.5 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 19 | 1.5 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 7 | 1.5 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 7 | 1.5 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 7 | 1.5 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 7 | 1.5 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 7 | 1.5 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 7 | 1.5 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 17 | 1.5 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 1 | 1.5 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 1 | 1.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 1 | 1.5 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 1 | 1.5 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 1 | 1.5 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 1 | 1.5 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 14 | 1.5 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 14 | 1.5 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 14 | 1.5 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 14 | 1.5 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 5 | 1.5 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 1.5 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 5 | 1.5 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 19 | 1.5 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 19 | 1.5 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 10 | 1.5 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 10 | 1.5 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 14 | 1.5 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 14 | 1.5 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 20 | 1.5 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 20 | 1.5 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 20 | 1.5 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 5 | 1.5 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 3 | 1.5 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 10 | 1.5 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 10 | 1.5 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 10 | 1.5 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 14 | 1.5 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 14 | 1.5 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 14 | 1.5 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 10 | 1.5 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 10 | 1.5 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 18 | 1.5 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 1 | 1.5 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 17 | 1.5 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 17 | 1.5 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 13 | 1.5 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 12 | 1.5 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 2 | 1.5 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 2 | 1.5 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 2 | 1.5 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 11 | 1.5 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 2 | 1.5 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 8 | 1.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 15 | 1.5 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 18 | 1.5 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 12 | 1.5 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 7 | 1.5 |
| (1,2749) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 16 | 1.5 |
| (1,2749) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 16 | 1.5 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 15 | 1.5 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 15 | 1.5 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 15 | 1.5 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 15 | 1.5 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 11 | 1.5 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 11 | 1.5 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 19 | 1.5 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 6 | 1.5 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 6 | 1.5 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 6 | 1.5 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 6 | 1.5 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 6 | 1.5 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 6 | 1.5 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 6 | 1.5 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 6 | 1.5 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 6 | 1.5 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 10 | 1.5 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 5 | 1.5 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 13 | 1.5 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 16 | 1.5 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 18 | 1.5 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 17 | 1.5 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 3 | 1.5 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 11 | 1.5 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 16 | 1.5 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 1 | 1.5 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 3 | 1.5 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 1.5 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 2 | 1.5 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 2 | 1.5 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 2 | 1.5 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 19 | 1.5 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 19 | 1.5 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 19 | 1.5 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 3 | 1.5 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 10 | 1.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 10 | 1.5 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 10 | 1.5 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 17 | 1.5 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 8 | 1.5 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 8 | 1.5 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 8 | 1.5 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 2 | 1.5 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 12 | 1.5 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 13 | 1.5 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 13 | 1.5 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 13 | 1.5 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 6 | 1.5 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 6 | 1.5 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 6 | 1.5 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 10 | 1.5 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 10 | 1.5 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 10 | 1.5 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 10 | 1.5 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 10 | 1.5 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 10 | 1.5 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 10 | 1.5 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 10 | 1.5 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 10 | 1.5 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 11 | 1.5 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 11 | 1.5 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 11 | 1.5 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 1 | 1.5 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 1 | 1.5 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 14 | 1.5 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 14 | 1.5 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 1 | 1.5 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 10 | 1.5 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 10 | 1.5 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 10 | 1.5 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 8 | 1.5 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 8 | 1.5 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 8 | 1.5 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 8 | 1.5 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 8 | 1.5 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 8 | 1.5 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 8 | 1.5 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 8 | 1.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 8 | 1.5 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 8 | 1.5 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 8 | 1.5 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 8 | 1.5 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 20 | 1.5 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 20 | 1.5 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 7 | 1.5 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 7 | 1.5 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 7 | 1.5 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 6 | 1.5 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 11 | 1.5 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 2 | 1.5 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 8 | 1.5 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 20 | 1.5 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 16 | 1.5 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 16 | 1.5 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 6 | 1.5 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 6 | 1.5 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 6 | 1.5 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 6 | 1.5 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 17 | 1.5 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 17 | 1.5 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 17 | 1.5 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 17 | 1.5 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 17 | 1.5 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 8 | 1.5 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 13 | 1.5 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 3 | 1.5 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 19 | 1.5 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 16 | 1.5 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 11 | 1.5 |
| (1,977) | 1:105:A:SER:H | 1:106:A:LEU:HG | 3 | 1.5 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 20 | 1.5 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 15 | 1.5 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 16 | 1.5 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 16 | 1.5 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 16 | 1.5 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 4 | 1.5 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 17 | 1.5 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 17 | 1.5 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 17 | 1.5 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 17 | 1.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 17 | 1.5 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 17 | 1.5 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 16 | 1.5 |
| (1,783) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 7 | 1.5 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 13 | 1.5 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 20 | 1.5 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 16 | 1.5 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 16 | 1.5 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 16 | 1.5 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 20 | 1.5 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 15 | 1.5 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 13 | 1.5 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 13 | 1.5 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 13 | 1.5 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 7 | 1.5 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 15 | 1.5 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 1 | 1.5 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 4 | 1.5 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 4 | 1.5 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 4 | 1.5 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 9 | 1.5 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 15 | 1.5 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 15 | 1.5 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 18 | 1.5 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 18 | 1.5 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 18 | 1.5 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 10 | 1.5 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 20 | 1.5 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 20 | 1.5 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 20 | 1.5 |
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 8 | 1.5 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 20 | 1.5 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 20 | 1.5 |
| (1,170) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 20 | 1.5 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 18 | 1.5 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 6 | 1.5 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 6 | 1.5 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 6 | 1.5 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 15 | 1.49 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 15 | 1.49 |
| (3,129) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 1 | 1.49 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 13 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 13 | 1.49 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 13 | 1.49 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 13 | 1.49 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 13 | 1.49 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 13 | 1.49 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 4 | 1.49 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 4 | 1.49 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 4 | 1.49 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 4 | 1.49 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 4 | 1.49 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 4 | 1.49 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 16 | 1.49 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 20 | 1.49 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 5 | 1.49 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 19 | 1.49 |
| (1,7117) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 19 | 1.49 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 17 | 1.49 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 8 | 1.49 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 2 | 1.49 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 2 | 1.49 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 7 | 1.49 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 7 | 1.49 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 7 | 1.49 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 20 | 1.49 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 20 | 1.49 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 20 | 1.49 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 8 | 1.49 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 6 | 1.49 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 20 | 1.49 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 12 | 1.49 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 11 | 1.49 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 11 | 1.49 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 11 | 1.49 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 11 | 1.49 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 11 | 1.49 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 11 | 1.49 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 11 | 1.49 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 11 | 1.49 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 11 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 8 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 8 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 8 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 8 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 8 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 8 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 8 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 8 | 1.49 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 8 | 1.49 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 12 | 1.49 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 4 | 1.49 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 14 | 1.49 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 16 | 1.49 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 8 | 1.49 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 8 | 1.49 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 11 | 1.49 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 11 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 6 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 6 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 6 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 6 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 6 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 6 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 7 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 7 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 7 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 7 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 7 | 1.49 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 7 | 1.49 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 20 | 1.49 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 20 | 1.49 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 20 | 1.49 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 20 | 1.49 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 20 | 1.49 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 20 | 1.49 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 7 | 1.49 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 7 | 1.49 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 7 | 1.49 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 6 | 1.49 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 8 | 1.49 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 8 | 1.49 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 6 | 1.49 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 6 | 1.49 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 13 | 1.49 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 13 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 17 | 1.49 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 17 | 1.49 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 7 | 1.49 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 7 | 1.49 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 7 | 1.49 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 7 | 1.49 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 7 | 1.49 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 7 | 1.49 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 7 | 1.49 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 7 | 1.49 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 2 | 1.49 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 2 | 1.49 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 11 | 1.49 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 11 | 1.49 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 11 | 1.49 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB2 | 6 | 1.49 |
| (1,3621) | 1:34:A:TRP:HB2 | 1:35:A:GLU:HB3 | 6 | 1.49 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB2 | 6 | 1.49 |
| (1,3621) | 1:34:A:TRP:HB3 | 1:35:A:GLU:HB3 | 6 | 1.49 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 17 | 1.49 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 17 | 1.49 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 7 | 1.49 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 7 | 1.49 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 10 | 1.49 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 10 | 1.49 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 5 | 1.49 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 5 | 1.49 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 5 | 1.49 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 5 | 1.49 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 5 | 1.49 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 5 | 1.49 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 20 | 1.49 |
| (1,3385) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 19 | 1.49 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 15 | 1.49 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 15 | 1.49 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 5 | 1.49 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 5 | 1.49 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 17 | 1.49 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 17 | 1.49 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 4 | 1.49 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 4 | 1.49 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 19 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 19 | 1.49 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 19 | 1.49 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 19 | 1.49 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 19 | 1.49 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 19 | 1.49 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 10 | 1.49 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 10 | 1.49 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 10 | 1.49 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 15 | 1.49 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 15 | 1.49 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 15 | 1.49 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 17 | 1.49 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 12 | 1.49 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 12 | 1.49 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 12 | 1.49 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 5 | 1.49 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 15 | 1.49 |
| (1,3035) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 18 | 1.49 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 11 | 1.49 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 14 | 1.49 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 13 | 1.49 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 11 | 1.49 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 16 | 1.49 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 16 | 1.49 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 16 | 1.49 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 4 | 1.49 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 4 | 1.49 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 14 | 1.49 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 14 | 1.49 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 2 | 1.49 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 2 | 1.49 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 2 | 1.49 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 2 | 1.49 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 2 | 1.49 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 2 | 1.49 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 9 | 1.49 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 4 | 1.49 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 4 | 1.49 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 7 | 1.49 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 7 | 1.49 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 7 | 1.49 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 11 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 16 | 1.49 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 20 | 1.49 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 17 | 1.49 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 19 | 1.49 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 5 | 1.49 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 5 | 1.49 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 5 | 1.49 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 17 | 1.49 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 15 | 1.49 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 15 | 1.49 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 15 | 1.49 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 2 | 1.49 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 8 | 1.49 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 6 | 1.49 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 14 | 1.49 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 1 | 1.49 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 20 | 1.49 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 3 | 1.49 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 3 | 1.49 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 3 | 1.49 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 16 | 1.49 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 20 | 1.49 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 9 | 1.49 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 6 | 1.49 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 7 | 1.49 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 12 | 1.49 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 12 | 1.49 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 12 | 1.49 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 5 | 1.49 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 5 | 1.49 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 5 | 1.49 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 5 | 1.49 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 5 | 1.49 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 5 | 1.49 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 20 | 1.49 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 20 | 1.49 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 20 | 1.49 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 4 | 1.49 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 4 | 1.49 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 4 | 1.49 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 4 | 1.49 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 4 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 4 | 1.49 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 4 | 1.49 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 4 | 1.49 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 4 | 1.49 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 18 | 1.49 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 7 | 1.49 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 7 | 1.49 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 15 | 1.49 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 15 | 1.49 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 16 | 1.49 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 16 | 1.49 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 16 | 1.49 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 19 | 1.49 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 19 | 1.49 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 19 | 1.49 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 19 | 1.49 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 3 | 1.49 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 3 | 1.49 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 3 | 1.49 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 15 | 1.49 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 17 | 1.49 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 6 | 1.49 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 8 | 1.49 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 1 | 1.49 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 6 | 1.49 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 6 | 1.49 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 20 | 1.49 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 5 | 1.49 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 9 | 1.49 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 9 | 1.49 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 2 | 1.49 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 1 | 1.49 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 6 | 1.49 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 14 | 1.49 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 16 | 1.49 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 20 | 1.49 |
| (1,975) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 6 | 1.49 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 11 | 1.49 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 3 | 1.49 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 12 | 1.49 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 10 | 1.49 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 16 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 16 | 1.49 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 16 | 1.49 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 8 | 1.49 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 8 | 1.49 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 8 | 1.49 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 12 | 1.49 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 12 | 1.49 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 12 | 1.49 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 13 | 1.49 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 3 | 1.49 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 3 | 1.49 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 3 | 1.49 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 3 | 1.49 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 3 | 1.49 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 3 | 1.49 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 3 | 1.49 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 3 | 1.49 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 3 | 1.49 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 4 | 1.49 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 4 | 1.49 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 4 | 1.49 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 4 | 1.49 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 4 | 1.49 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 4 | 1.49 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 4 | 1.49 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 4 | 1.49 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 4 | 1.49 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 12 | 1.49 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 12 | 1.49 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 12 | 1.49 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 11 | 1.49 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 10 | 1.49 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 18 | 1.49 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 6 | 1.49 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 18 | 1.49 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 13 | 1.49 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 12 | 1.49 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 12 | 1.49 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 12 | 1.49 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 12 | 1.49 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 12 | 1.49 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 12 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 12 | 1.49 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 12 | 1.49 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 12 | 1.49 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 12 | 1.49 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 12 | 1.49 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 12 | 1.49 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 12 | 1.49 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 18 | 1.49 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 18 | 1.49 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 18 | 1.49 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 14 | 1.49 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 17 | 1.49 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 10 | 1.49 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 10 | 1.49 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 8 | 1.49 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 4 | 1.49 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 7 | 1.49 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 7 | 1.49 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 7 | 1.49 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 19 | 1.49 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 19 | 1.49 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 19 | 1.49 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 19 | 1.49 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 19 | 1.49 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 19 | 1.49 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 6 | 1.49 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 6 | 1.49 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 6 | 1.49 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 4 | 1.49 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 14 | 1.49 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 3 | 1.49 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 3 | 1.49 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 3 | 1.49 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 16 | 1.49 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 6 | 1.49 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 6 | 1.49 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 6 | 1.49 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 18 | 1.49 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 18 | 1.49 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 18 | 1.49 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 14 | 1.49 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 14 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,82) | 1:15:A:MET:CB | 1:141:A:LEU:H | 20 | 1.48 |
| (3,386) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 4 | 1.48 |
| (1,9026) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 4 | 1.48 |
| (1,9026) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 4 | 1.48 |
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 16 | 1.48 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 16 | 1.48 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 8 | 1.48 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 8 | 1.48 |
| (1,8753) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 4 | 1.48 |
| (1,8753) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 4 | 1.48 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 5 | 1.48 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 5 | 1.48 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 15 | 1.48 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 12 | 1.48 |
| (1,6774) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 11 | 1.48 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 10 | 1.48 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 4 | 1.48 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 4 | 1.48 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 14 | 1.48 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 8 | 1.48 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 8 | 1.48 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 8 | 1.48 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 8 | 1.48 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 8 | 1.48 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 8 | 1.48 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 12 | 1.48 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 18 | 1.48 |
| (1,5908) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 4 | 1.48 |
| (1,5908) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 4 | 1.48 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 5 | 1.48 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 18 | 1.48 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 15 | 1.48 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 19 | 1.48 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 1 | 1.48 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 8 | 1.48 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 2 | 1.48 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 2 | 1.48 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 2 | 1.48 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 2 | 1.48 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 2 | 1.48 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 2 | 1.48 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 2 | 1.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 2 | 1.48 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 2 | 1.48 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 5 | 1.48 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 5 | 1.48 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 5 | 1.48 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 8 | 1.48 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 8 | 1.48 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 8 | 1.48 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 8 | 1.48 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 8 | 1.48 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 8 | 1.48 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 8 | 1.48 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 8 | 1.48 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 8 | 1.48 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 8 | 1.48 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 8 | 1.48 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 11 | 1.48 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 5 | 1.48 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 5 | 1.48 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 9 | 1.48 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 9 | 1.48 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 9 | 1.48 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 14 | 1.48 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 14 | 1.48 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 14 | 1.48 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 14 | 1.48 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 14 | 1.48 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 14 | 1.48 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 8 | 1.48 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 8 | 1.48 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 7 | 1.48 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 7 | 1.48 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 12 | 1.48 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 1 | 1.48 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 1 | 1.48 |
| (1,4213) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 10 | 1.48 |
| (1,4213) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 10 | 1.48 |
| (1,4213) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 10 | 1.48 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 5 | 1.48 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 5 | 1.48 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 9 | 1.48 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 9 | 1.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 11 | 1.48 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 11 | 1.48 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 11 | 1.48 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 3 | 1.48 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 3 | 1.48 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 18 | 1.48 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 18 | 1.48 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 2 | 1.48 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 10 | 1.48 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 12 | 1.48 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 5 | 1.48 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 5 | 1.48 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 9 | 1.48 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 9 | 1.48 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 9 | 1.48 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 20 | 1.48 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 20 | 1.48 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 20 | 1.48 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 20 | 1.48 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 15 | 1.48 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 15 | 1.48 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 15 | 1.48 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 15 | 1.48 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 15 | 1.48 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 15 | 1.48 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 16 | 1.48 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 16 | 1.48 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 16 | 1.48 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 16 | 1.48 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 19 | 1.48 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 19 | 1.48 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 12 | 1.48 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 17 | 1.48 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 15 | 1.48 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 15 | 1.48 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 18 | 1.48 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 13 | 1.48 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 1 | 1.48 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 9 | 1.48 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 4 | 1.48 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 4 | 1.48 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 10 | 1.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 5 | 1.48 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 12 | 1.48 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 18 | 1.48 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 15 | 1.48 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 15 | 1.48 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 15 | 1.48 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 10 | 1.48 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 1 | 1.48 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 1 | 1.48 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 1 | 1.48 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 1 | 1.48 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 1 | 1.48 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 1 | 1.48 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 15 | 1.48 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 15 | 1.48 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 15 | 1.48 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 18 | 1.48 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 18 | 1.48 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 18 | 1.48 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 4 | 1.48 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 19 | 1.48 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 19 | 1.48 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 19 | 1.48 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 18 | 1.48 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 11 | 1.48 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 6 | 1.48 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 2 | 1.48 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 11 | 1.48 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 11 | 1.48 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 11 | 1.48 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 1 | 1.48 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 1 | 1.48 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 1 | 1.48 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 10 | 1.48 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 4 | 1.48 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 8 | 1.48 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 8 | 1.48 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 8 | 1.48 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 15 | 1.48 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 15 | 1.48 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 15 | 1.48 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 1 | 1.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 19 | 1.48 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 19 | 1.48 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 19 | 1.48 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 19 | 1.48 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 19 | 1.48 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 19 | 1.48 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 19 | 1.48 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 19 | 1.48 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 19 | 1.48 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 8 | 1.48 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 8 | 1.48 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 8 | 1.48 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 7 | 1.48 |
| (1,1941) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB2 | 11 | 1.48 |
| (1,1941) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB2 | 11 | 1.48 |
| (1,1941) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB2 | 11 | 1.48 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 20 | 1.48 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 20 | 1.48 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 20 | 1.48 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 16 | 1.48 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 4 | 1.48 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 17 | 1.48 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 10 | 1.48 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 7 | 1.48 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 1 | 1.48 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 5 | 1.48 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 8 | 1.48 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 12 | 1.48 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 18 | 1.48 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 1 | 1.48 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 1 | 1.48 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 2 | 1.48 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 2 | 1.48 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 13 | 1.48 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 13 | 1.48 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 13 | 1.48 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 13 | 1.48 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 13 | 1.48 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 13 | 1.48 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 17 | 1.48 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 2 | 1.48 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 2 | 1.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 2 | 1.48 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 17 | 1.48 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 17 | 1.48 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 17 | 1.48 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 1 | 1.48 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 1 | 1.48 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 1 | 1.48 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 14 | 1.48 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 16 | 1.48 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 1 | 1.48 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 6 | 1.48 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 6 | 1.48 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 6 | 1.48 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 15 | 1.48 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 2 | 1.48 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 19 | 1.48 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 15 | 1.48 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 15 | 1.48 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 15 | 1.48 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 15 | 1.48 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 15 | 1.48 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 15 | 1.48 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 15 | 1.48 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 15 | 1.48 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 15 | 1.48 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 17 | 1.48 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 17 | 1.48 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 17 | 1.48 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 3 | 1.48 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 3 | 1.48 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 3 | 1.48 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 7 | 1.48 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 7 | 1.48 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 7 | 1.48 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 20 | 1.48 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 12 | 1.48 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 12 | 1.48 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 1 | 1.48 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 1 | 1.48 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 1 | 1.48 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 10 | 1.48 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 14 | 1.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 6 | 1.48 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 6 | 1.48 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 6 | 1.48 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 2 | 1.48 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 2 | 1.48 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 2 | 1.48 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 7 | 1.48 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 7 | 1.48 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 7 | 1.48 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 14 | 1.48 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 5 | 1.48 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 18 | 1.48 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 8 | 1.48 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 8 | 1.48 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 8 | 1.48 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 18 | 1.48 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 12 | 1.48 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 5 | 1.48 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 12 | 1.48 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 8 | 1.48 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 3 | 1.48 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 10 | 1.48 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 10 | 1.48 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 10 | 1.48 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 20 | 1.48 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 20 | 1.48 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 20 | 1.48 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 7 | 1.48 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 7 | 1.48 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 7 | 1.48 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 10 | 1.48 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 7 | 1.48 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 13 | 1.48 |
| (4,285) | 1:98:A:SER:CB | 1:7:A:LEU:H | 9 | 1.47 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 5 | 1.47 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 10 | 1.47 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 14 | 1.47 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 14 | 1.47 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 17 | 1.47 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 17 | 1.47 |
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 9 | 1.47 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 9 | 1.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 9 | 1.47 |
| (3,213) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 7 | 1.47 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 2 | 1.47 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 2 | 1.47 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 14 | 1.47 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 16 | 1.47 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 16 | 1.47 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 16 | 1.47 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 14 | 1.47 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 6 | 1.47 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 6 | 1.47 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 6 | 1.47 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 1 | 1.47 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 7 | 1.47 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 6 | 1.47 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 20 | 1.47 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 20 | 1.47 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 20 | 1.47 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 12 | 1.47 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 5 | 1.47 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 5 | 1.47 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 3 | 1.47 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 8 | 1.47 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 15 | 1.47 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 20 | 1.47 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 3 | 1.47 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 3 | 1.47 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 3 | 1.47 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 9 | 1.47 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 9 | 1.47 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 9 | 1.47 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 6 | 1.47 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 19 | 1.47 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 19 | 1.47 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 19 | 1.47 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 19 | 1.47 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 19 | 1.47 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 19 | 1.47 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 19 | 1.47 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 19 | 1.47 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 19 | 1.47 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 12 | 1.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 16 | 1.47 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 15 | 1.47 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 15 | 1.47 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 15 | 1.47 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 15 | 1.47 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 15 | 1.47 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 15 | 1.47 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 15 | 1.47 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 15 | 1.47 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 15 | 1.47 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 13 | 1.47 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 18 | 1.47 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 18 | 1.47 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 18 | 1.47 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 8 | 1.47 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 8 | 1.47 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 16 | 1.47 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 16 | 1.47 |
| (1,4473) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 16 | 1.47 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 16 | 1.47 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 16 | 1.47 |
| (1,4473) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 16 | 1.47 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 6 | 1.47 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 6 | 1.47 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 16 | 1.47 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 14 | 1.47 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 14 | 1.47 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 16 | 1.47 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 16 | 1.47 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 1 | 1.47 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 11 | 1.47 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 11 | 1.47 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 3 | 1.47 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 9 | 1.47 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 9 | 1.47 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 14 | 1.47 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 14 | 1.47 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 13 | 1.47 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 1 | 1.47 |
| (1,4157) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 1 | 1.47 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 10 | 1.47 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 10 | 1.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 11 | 1.47 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 1.47 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 14 | 1.47 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 14 | 1.47 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 16 | 1.47 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 16 | 1.47 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 16 | 1.47 |
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 8 | 1.47 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 15 | 1.47 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 17 | 1.47 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 17 | 1.47 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 14 | 1.47 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 10 | 1.47 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 10 | 1.47 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 12 | 1.47 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 12 | 1.47 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 12 | 1.47 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 12 | 1.47 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 12 | 1.47 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 12 | 1.47 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 17 | 1.47 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 20 | 1.47 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 1 | 1.47 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 11 | 1.47 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 11 | 1.47 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 11 | 1.47 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 20 | 1.47 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 20 | 1.47 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 20 | 1.47 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 20 | 1.47 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 20 | 1.47 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 20 | 1.47 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 12 | 1.47 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 1 | 1.47 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 20 | 1.47 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 20 | 1.47 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 15 | 1.47 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 15 | 1.47 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 15 | 1.47 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 19 | 1.47 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 19 | 1.47 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 19 | 1.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 17 | 1.47 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 14 | 1.47 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 15 | 1.47 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 3 | 1.47 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 3 | 1.47 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 3 | 1.47 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 6 | 1.47 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 6 | 1.47 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 6 | 1.47 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 4 | 1.47 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 4 | 1.47 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 4 | 1.47 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 14 | 1.47 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 8 | 1.47 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 16 | 1.47 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 16 | 1.47 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 19 | 1.47 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 7 | 1.47 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 1 | 1.47 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 7 | 1.47 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 14 | 1.47 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 14 | 1.47 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 11 | 1.47 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 11 | 1.47 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 11 | 1.47 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 15 | 1.47 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 2 | 1.47 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 12 | 1.47 |
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 16 | 1.47 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 13 | 1.47 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 7 | 1.47 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 6 | 1.47 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 8 | 1.47 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 13 | 1.47 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 13 | 1.47 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 13 | 1.47 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 18 | 1.47 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 18 | 1.47 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 18 | 1.47 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 19 | 1.47 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 11 | 1.47 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 5 | 1.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 5 | 1.47 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 5 | 1.47 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 10 | 1.47 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 10 | 1.47 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 10 | 1.47 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 11 | 1.47 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 11 | 1.47 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 11 | 1.47 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 16 | 1.47 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 16 | 1.47 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 16 | 1.47 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 4 | 1.47 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 4 | 1.47 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 4 | 1.47 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 3 | 1.47 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 3 | 1.47 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 3 | 1.47 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 16 | 1.47 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 1 | 1.47 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 1 | 1.47 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 1 | 1.47 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 1 | 1.47 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 8 | 1.47 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 8 | 1.47 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 8 | 1.47 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 8 | 1.47 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 8 | 1.47 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 8 | 1.47 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 8 | 1.47 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 8 | 1.47 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 8 | 1.47 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 19 | 1.47 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 19 | 1.47 |
| (1,1539) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 14 | 1.47 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 8 | 1.47 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 12 | 1.47 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 9 | 1.47 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 9 | 1.47 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 9 | 1.47 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 3 | 1.47 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 8 | 1.47 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 7 | 1.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 7 | 1.47 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 7 | 1.47 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 17 | 1.47 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 17 | 1.47 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 17 | 1.47 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 17 | 1.47 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 17 | 1.47 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 17 | 1.47 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 15 | 1.47 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 13 | 1.47 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 13 | 1.47 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 13 | 1.47 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 19 | 1.47 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 19 | 1.47 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 19 | 1.47 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 11 | 1.47 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 11 | 1.47 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 11 | 1.47 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 7 | 1.47 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 7 | 1.47 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 7 | 1.47 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 14 | 1.47 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 14 | 1.47 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 14 | 1.47 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 14 | 1.47 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 16 | 1.47 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 16 | 1.47 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 7 | 1.47 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 8 | 1.47 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 8 | 1.47 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 8 | 1.47 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 8 | 1.47 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 8 | 1.47 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 8 | 1.47 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 16 | 1.47 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 16 | 1.47 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 16 | 1.47 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 12 | 1.47 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 12 | 1.47 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 10 | 1.47 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 10 | 1.47 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 10 | 1.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 5 | 1.47 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 8 | 1.47 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 4 | 1.47 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 17 | 1.47 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 19 | 1.47 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 19 | 1.47 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 19 | 1.47 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 15 | 1.47 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 8 | 1.47 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 8 | 1.47 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 8 | 1.47 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 11 | 1.47 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 20 | 1.47 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 1 | 1.47 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 19 | 1.47 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 19 | 1.47 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 19 | 1.47 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 19 | 1.47 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 19 | 1.47 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 19 | 1.47 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 19 | 1.47 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 19 | 1.47 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 19 | 1.47 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 4 | 1.47 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 4 | 1.47 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 4 | 1.47 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 4 | 1.47 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 4 | 1.47 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 4 | 1.47 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 4 | 1.47 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 4 | 1.47 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 4 | 1.47 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 13 | 1.47 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 17 | 1.47 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 17 | 1.47 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 17 | 1.47 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 6 | 1.47 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 6 | 1.47 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 6 | 1.47 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 9 | 1.47 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 9 | 1.47 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 11 | 1.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,192) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 10 | 1.46 |
| (4,74) | 1:15:A:MET:CB | 1:132:A:LYS:H | 10 | 1.46 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 14 | 1.46 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 14 | 1.46 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 16 | 1.46 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 16 | 1.46 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 16 | 1.46 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 16 | 1.46 |
| (3,545) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 13 | 1.46 |
| (3,545) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 13 | 1.46 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 8 | 1.46 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 8 | 1.46 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 9 | 1.46 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 9 | 1.46 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 14 | 1.46 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 14 | 1.46 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 15 | 1.46 |
| (1,7247) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 11 | 1.46 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 16 | 1.46 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 16 | 1.46 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 14 | 1.46 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 10 | 1.46 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 3 | 1.46 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 11 | 1.46 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 12 | 1.46 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 12 | 1.46 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 12 | 1.46 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 5 | 1.46 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 9 | 1.46 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 19 | 1.46 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 8 | 1.46 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 8 | 1.46 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 8 | 1.46 |
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 16 | 1.46 |
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 16 | 1.46 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 16 | 1.46 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 16 | 1.46 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 13 | 1.46 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 18 | 1.46 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 6 | 1.46 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 7 | 1.46 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 7 | 1.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 7 | 1.46 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 7 | 1.46 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 7 | 1.46 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 7 | 1.46 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 15 | 1.46 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 15 | 1.46 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 15 | 1.46 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 8 | 1.46 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 8 | 1.46 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 8 | 1.46 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 12 | 1.46 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 12 | 1.46 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 12 | 1.46 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 18 | 1.46 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 18 | 1.46 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 18 | 1.46 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 4 | 1.46 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 4 | 1.46 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 10 | 1.46 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 12 | 1.46 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 12 | 1.46 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 3 | 1.46 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 18 | 1.46 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 18 | 1.46 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 9 | 1.46 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 9 | 1.46 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 17 | 1.46 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 17 | 1.46 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 17 | 1.46 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 19 | 1.46 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 19 | 1.46 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 19 | 1.46 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 19 | 1.46 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 19 | 1.46 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 19 | 1.46 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 16 | 1.46 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 3 | 1.46 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 3 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 11 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 11 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 11 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 11 | 1.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 11 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 11 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 18 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 18 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 18 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 18 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 18 | 1.46 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 18 | 1.46 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 5 | 1.46 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 6 | 1.46 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 6 | 1.46 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 3 | 1.46 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 3 | 1.46 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 3 | 1.46 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 3 | 1.46 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 17 | 1.46 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 17 | 1.46 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 7 | 1.46 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 7 | 1.46 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 7 | 1.46 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 5 | 1.46 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 5 | 1.46 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 5 | 1.46 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 5 | 1.46 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 9 | 1.46 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 9 | 1.46 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 5 | 1.46 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 16 | 1.46 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 8 | 1.46 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 8 | 1.46 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 8 | 1.46 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 5 | 1.46 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 5 | 1.46 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 5 | 1.46 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 9 | 1.46 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 9 | 1.46 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 15 | 1.46 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 15 | 1.46 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 9 | 1.46 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 9 | 1.46 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 9 | 1.46 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 9 | 1.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 9 | 1.46 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 9 | 1.46 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 4 | 1.46 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 4 | 1.46 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 4 | 1.46 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 7 | 1.46 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 7 | 1.46 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 7 | 1.46 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 20 | 1.46 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 20 | 1.46 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 20 | 1.46 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 13 | 1.46 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 13 | 1.46 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 12 | 1.46 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 5 | 1.46 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 9 | 1.46 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 10 | 1.46 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 17 | 1.46 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 17 | 1.46 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 17 | 1.46 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 2 | 1.46 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 2 | 1.46 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 2 | 1.46 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 2 | 1.46 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 2 | 1.46 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 2 | 1.46 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 9 | 1.46 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 8 | 1.46 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 9 | 1.46 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 9 | 1.46 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 9 | 1.46 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 5 | 1.46 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 5 | 1.46 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 5 | 1.46 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 13 | 1.46 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 12 | 1.46 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 16 | 1.46 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 16 | 1.46 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 16 | 1.46 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 17 | 1.46 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 11 | 1.46 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 6 | 1.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 6 | 1.46 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 4 | 1.46 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 4 | 1.46 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 4 | 1.46 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 15 | 1.46 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 15 | 1.46 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 7 | 1.46 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 7 | 1.46 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 7 | 1.46 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 7 | 1.46 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 7 | 1.46 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 7 | 1.46 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 7 | 1.46 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 7 | 1.46 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 7 | 1.46 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 13 | 1.46 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 13 | 1.46 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 13 | 1.46 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 8 | 1.46 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 8 | 1.46 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 8 | 1.46 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 8 | 1.46 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 20 | 1.46 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 11 | 1.46 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 4 | 1.46 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 2 | 1.46 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 9 | 1.46 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 19 | 1.46 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 12 | 1.46 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 12 | 1.46 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 9 | 1.46 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 9 | 1.46 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 9 | 1.46 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 17 | 1.46 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 19 | 1.46 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 19 | 1.46 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 19 | 1.46 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 14 | 1.46 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 16 | 1.46 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 1.46 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 9 | 1.46 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 2 | 1.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 2 | 1.46 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 12 | 1.46 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 18 | 1.46 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 17 | 1.46 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 17 | 1.46 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 17 | 1.46 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 3 | 1.46 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 3 | 1.46 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 3 | 1.46 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 9 | 1.46 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 9 | 1.46 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 9 | 1.46 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 1.46 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 2 | 1.46 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 4 | 1.46 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 9 | 1.46 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 10 | 1.46 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 3 | 1.46 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 3 | 1.46 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 3 | 1.46 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 7 | 1.46 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 1 | 1.46 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 1 | 1.46 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 1 | 1.46 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 1 | 1.46 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 1 | 1.46 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 1 | 1.46 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 3 | 1.46 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 3 | 1.46 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 3 | 1.46 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 3 | 1.46 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 3 | 1.46 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 3 | 1.46 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 19 | 1.46 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 19 | 1.46 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 19 | 1.46 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 11 | 1.46 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 11 | 1.46 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 11 | 1.46 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 20 | 1.46 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 8 | 1.46 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 8 | 1.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 18 | 1.46 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 20 | 1.46 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 11 | 1.46 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 11 | 1.46 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 11 | 1.46 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 7 | 1.46 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 11 | 1.46 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 13 | 1.46 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 18 | 1.46 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 18 | 1.46 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 18 | 1.46 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 17 | 1.46 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 4 | 1.46 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 4 | 1.46 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 3 | 1.46 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 12 | 1.46 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 12 | 1.46 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 12 | 1.46 |
| (1,168) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 11 | 1.46 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 2 | 1.46 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 2 | 1.46 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 2 | 1.46 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 16 | 1.46 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 12 | 1.46 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 7 | 1.46 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 7 | 1.46 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 16 | 1.46 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 16 | 1.46 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 6 | 1.46 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 20 | 1.46 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 20 | 1.46 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 20 | 1.46 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 18 | 1.46 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 18 | 1.46 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 8 | 1.45 |
| (4,178) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 3 | 1.45 |
| (4,152) | 1:98:A:SER:CB | 1:12:A:GLU:H | 9 | 1.45 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 15 | 1.45 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 8 | 1.45 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 8 | 1.45 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 8 | 1.45 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 8 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 2 | 1.45 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 2 | 1.45 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 18 | 1.45 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 18 | 1.45 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 16 | 1.45 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 16 | 1.45 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 10 | 1.45 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 10 | 1.45 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 6 | 1.45 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 19 | 1.45 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 19 | 1.45 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 19 | 1.45 |
| (3,630) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 10 | 1.45 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 7 | 1.45 |
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 7 | 1.45 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 7 | 1.45 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 4 | 1.45 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 4 | 1.45 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 4 | 1.45 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 11 | 1.45 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 11 | 1.45 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 18 | 1.45 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 18 | 1.45 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 18 | 1.45 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 18 | 1.45 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 18 | 1.45 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 18 | 1.45 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 12 | 1.45 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 12 | 1.45 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 12 | 1.45 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 12 | 1.45 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 20 | 1.45 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 13 | 1.45 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 2 | 1.45 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 6 | 1.45 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 6 | 1.45 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 6 | 1.45 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 2 | 1.45 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 2 | 1.45 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 2 | 1.45 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 8 | 1.45 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 8 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 8 | 1.45 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 20 | 1.45 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 20 | 1.45 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 20 | 1.45 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 12 | 1.45 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 12 | 1.45 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 12 | 1.45 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 19 | 1.45 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 19 | 1.45 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 1 | 1.45 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 6 | 1.45 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 10 | 1.45 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 20 | 1.45 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 6 | 1.45 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 6 | 1.45 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 6 | 1.45 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 2 | 1.45 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 2 | 1.45 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 2 | 1.45 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 2 | 1.45 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 2 | 1.45 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 2 | 1.45 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 2 | 1.45 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 2 | 1.45 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 2 | 1.45 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 10 | 1.45 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 20 | 1.45 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 11 | 1.45 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 9 | 1.45 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 9 | 1.45 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 9 | 1.45 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 9 | 1.45 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 9 | 1.45 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 9 | 1.45 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 9 | 1.45 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 9 | 1.45 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 9 | 1.45 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 3 | 1.45 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 3 | 1.45 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 1 | 1.45 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 1 | 1.45 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 19 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 19 | 1.45 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 11 | 1.45 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 11 | 1.45 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 15 | 1.45 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 15 | 1.45 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 17 | 1.45 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 17 | 1.45 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 14 | 1.45 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 14 | 1.45 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 14 | 1.45 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 8 | 1.45 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 8 | 1.45 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 6 | 1.45 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 6 | 1.45 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 6 | 1.45 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 6 | 1.45 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 10 | 1.45 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 10 | 1.45 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 10 | 1.45 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 10 | 1.45 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 9 | 1.45 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 9 | 1.45 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 4 | 1.45 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 4 | 1.45 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 4 | 1.45 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 4 | 1.45 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 12 | 1.45 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 12 | 1.45 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 1.45 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 1.45 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 1.45 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 15 | 1.45 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 15 | 1.45 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 15 | 1.45 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 10 | 1.45 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 10 | 1.45 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 10 | 1.45 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 10 | 1.45 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 10 | 1.45 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 10 | 1.45 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 8 | 1.45 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 8 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 6 | 1.45 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 6 | 1.45 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 19 | 1.45 |
| (1,3917) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 19 | 1.45 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 12 | 1.45 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 12 | 1.45 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 12 | 1.45 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 12 | 1.45 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 12 | 1.45 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 12 | 1.45 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 13 | 1.45 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 13 | 1.45 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 13 | 1.45 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 13 | 1.45 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 13 | 1.45 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 13 | 1.45 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 5 | 1.45 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 5 | 1.45 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 16 | 1.45 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 16 | 1.45 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 16 | 1.45 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 16 | 1.45 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 16 | 1.45 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 16 | 1.45 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 5 | 1.45 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 5 | 1.45 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 4 | 1.45 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 4 | 1.45 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 5 | 1.45 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 5 | 1.45 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 18 | 1.45 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 18 | 1.45 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 10 | 1.45 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 20 | 1.45 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 3 | 1.45 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 15 | 1.45 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 10 | 1.45 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 17 | 1.45 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 19 | 1.45 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 14 | 1.45 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 14 | 1.45 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 14 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 14 | 1.45 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 10 | 1.45 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 10 | 1.45 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 20 | 1.45 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 20 | 1.45 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 20 | 1.45 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 9 | 1.45 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 2 | 1.45 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 18 | 1.45 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 12 | 1.45 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 4 | 1.45 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 3 | 1.45 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 7 | 1.45 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 7 | 1.45 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 7 | 1.45 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 7 | 1.45 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 7 | 1.45 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 7 | 1.45 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 12 | 1.45 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 2 | 1.45 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 2 | 1.45 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 2 | 1.45 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 7 | 1.45 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 7 | 1.45 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 7 | 1.45 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 8 | 1.45 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 6 | 1.45 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 4 | 1.45 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 20 | 1.45 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 11 | 1.45 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 9 | 1.45 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 12 | 1.45 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 15 | 1.45 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 8 | 1.45 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 8 | 1.45 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 8 | 1.45 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 5 | 1.45 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 5 | 1.45 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 5 | 1.45 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 19 | 1.45 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 19 | 1.45 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 19 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 14 | 1.45 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 14 | 1.45 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 14 | 1.45 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 14 | 1.45 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 14 | 1.45 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 14 | 1.45 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 14 | 1.45 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 14 | 1.45 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 14 | 1.45 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 14 | 1.45 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 14 | 1.45 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 14 | 1.45 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 1 | 1.45 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 1 | 1.45 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 1 | 1.45 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 3 | 1.45 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 3 | 1.45 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 3 | 1.45 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 16 | 1.45 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 16 | 1.45 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 16 | 1.45 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 16 | 1.45 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 16 | 1.45 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 16 | 1.45 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 16 | 1.45 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 16 | 1.45 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 16 | 1.45 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 2 | 1.45 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 2 | 1.45 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 13 | 1.45 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 15 | 1.45 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 15 | 1.45 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 15 | 1.45 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 10 | 1.45 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 10 | 1.45 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 10 | 1.45 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 10 | 1.45 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 10 | 1.45 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 10 | 1.45 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 1.45 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 19 | 1.45 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 19 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 19 | 1.45 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 19 | 1.45 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 19 | 1.45 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 19 | 1.45 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 3 | 1.45 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 4 | 1.45 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 4 | 1.45 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 4 | 1.45 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 6 | 1.45 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 17 | 1.45 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 13 | 1.45 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 18 | 1.45 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 18 | 1.45 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 18 | 1.45 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 18 | 1.45 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 18 | 1.45 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 18 | 1.45 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 18 | 1.45 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 18 | 1.45 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 18 | 1.45 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 6 | 1.45 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 14 | 1.45 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 20 | 1.45 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 6 | 1.45 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 6 | 1.45 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 6 | 1.45 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 6 | 1.45 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 6 | 1.45 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 6 | 1.45 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 12 | 1.45 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 12 | 1.45 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 12 | 1.45 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 9 | 1.45 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 9 | 1.45 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 9 | 1.45 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 11 | 1.45 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 11 | 1.45 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 11 | 1.45 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 17 | 1.45 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 13 | 1.45 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 11 | 1.45 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 2 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 2 | 1.45 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 2 | 1.45 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 2 | 1.45 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 2 | 1.45 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 2 | 1.45 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 5 | 1.45 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 5 | 1.45 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 5 | 1.45 |
| (1,781) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 13 | 1.45 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 15 | 1.45 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 3 | 1.45 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 14 | 1.45 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 7 | 1.45 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 5 | 1.45 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 5 | 1.45 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 5 | 1.45 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 14 | 1.45 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 5 | 1.45 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 5 | 1.45 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 11 | 1.45 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 11 | 1.45 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 11 | 1.45 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 13 | 1.45 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 13 | 1.45 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 13 | 1.45 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 16 | 1.45 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 6 | 1.45 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 6 | 1.45 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 6 | 1.45 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 9 | 1.45 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 6 | 1.45 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 15 | 1.45 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 15 | 1.45 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 15 | 1.45 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 2 | 1.45 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 20 | 1.45 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 6 | 1.45 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 6 | 1.45 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 13 | 1.45 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 11 | 1.45 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 11 | 1.45 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 11 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 10 | 1.45 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 10 | 1.45 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 10 | 1.45 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 10 | 1.45 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 10 | 1.45 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 10 | 1.45 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 10 | 1.45 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 10 | 1.45 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 10 | 1.45 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 10 | 1.45 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 10 | 1.45 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 10 | 1.45 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 12 | 1.45 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 2 | 1.45 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 2 | 1.45 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 2 | 1.45 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 6 | 1.45 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 6 | 1.45 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 7 | 1.45 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 7 | 1.45 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 8 | 1.44 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 4 | 1.44 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 18 | 1.44 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 18 | 1.44 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 5 | 1.44 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 5 | 1.44 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 20 | 1.44 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 20 | 1.44 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 20 | 1.44 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 20 | 1.44 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 20 | 1.44 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 20 | 1.44 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 11 | 1.44 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 11 | 1.44 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 11 | 1.44 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 11 | 1.44 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 11 | 1.44 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 11 | 1.44 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 4 | 1.44 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 4 | 1.44 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 4 | 1.44 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 4 | 1.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 12 | 1.44 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 18 | 1.44 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 2 | 1.44 |
| (1,6879) | 1:28:A:ILE:HB | 1:29:A:THR:H | 7 | 1.44 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 4 | 1.44 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 4 | 1.44 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 4 | 1.44 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 6 | 1.44 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 6 | 1.44 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 6 | 1.44 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 6 | 1.44 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 6 | 1.44 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 6 | 1.44 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 5 | 1.44 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 14 | 1.44 |
| (1,6532) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 20 | 1.44 |
| (1,6532) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 20 | 1.44 |
| (1,6532) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 20 | 1.44 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 15 | 1.44 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 4 | 1.44 |
| (1,5963) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 16 | 1.44 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 2 | 1.44 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 13 | 1.44 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 15 | 1.44 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 19 | 1.44 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 5 | 1.44 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 5 | 1.44 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 8 | 1.44 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 9 | 1.44 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 13 | 1.44 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 13 | 1.44 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 13 | 1.44 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 13 | 1.44 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 13 | 1.44 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 13 | 1.44 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 13 | 1.44 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 13 | 1.44 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 13 | 1.44 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 14 | 1.44 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 14 | 1.44 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 14 | 1.44 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 6 | 1.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 20 | 1.44 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 20 | 1.44 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 20 | 1.44 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 8 | 1.44 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 8 | 1.44 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 8 | 1.44 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 12 | 1.44 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 12 | 1.44 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 12 | 1.44 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 11 | 1.44 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 11 | 1.44 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 10 | 1.44 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 10 | 1.44 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 4 | 1.44 |
| (1,4463) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 4 | 1.44 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 8 | 1.44 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 14 | 1.44 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 14 | 1.44 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 1 | 1.44 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 1 | 1.44 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 9 | 1.44 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 9 | 1.44 |
| (1,4221) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 9 | 1.44 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 9 | 1.44 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 9 | 1.44 |
| (1,4221) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 9 | 1.44 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 7 | 1.44 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 7 | 1.44 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 15 | 1.44 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 15 | 1.44 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 3 | 1.44 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 3 | 1.44 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 3 | 1.44 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 11 | 1.44 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 11 | 1.44 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 11 | 1.44 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 11 | 1.44 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 11 | 1.44 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 11 | 1.44 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 1 | 1.44 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 1 | 1.44 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 11 | 1.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 11 | 1.44 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 11 | 1.44 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 11 | 1.44 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 11 | 1.44 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 11 | 1.44 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 2 | 1.44 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 2 | 1.44 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 9 | 1.44 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 9 | 1.44 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 9 | 1.44 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 9 | 1.44 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 9 | 1.44 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 9 | 1.44 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 18 | 1.44 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 18 | 1.44 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 17 | 1.44 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 17 | 1.44 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 10 | 1.44 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 10 | 1.44 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 1.44 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 1.44 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 20 | 1.44 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 20 | 1.44 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 14 | 1.44 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 14 | 1.44 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 5 | 1.44 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 5 | 1.44 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 5 | 1.44 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 12 | 1.44 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 12 | 1.44 |
| (1,3345) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 11 | 1.44 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 3 | 1.44 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 16 | 1.44 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 6 | 1.44 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 2 | 1.44 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 4 | 1.44 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 14 | 1.44 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 18 | 1.44 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 8 | 1.44 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 7 | 1.44 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 7 | 1.44 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 7 | 1.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 6 | 1.44 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 6 | 1.44 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 6 | 1.44 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 6 | 1.44 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 6 | 1.44 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 8 | 1.44 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 8 | 1.44 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 8 | 1.44 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 19 | 1.44 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 19 | 1.44 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 19 | 1.44 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 2 | 1.44 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 2 | 1.44 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 2 | 1.44 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 16 | 1.44 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 10 | 1.44 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 1 | 1.44 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 5 | 1.44 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 3 | 1.44 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 15 | 1.44 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 11 | 1.44 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 17 | 1.44 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 14 | 1.44 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 13 | 1.44 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 17 | 1.44 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 2 | 1.44 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 16 | 1.44 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 1.44 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 10 | 1.44 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 8 | 1.44 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 20 | 1.44 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 18 | 1.44 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 18 | 1.44 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 18 | 1.44 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 5 | 1.44 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 5 | 1.44 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 5 | 1.44 |
| (1,2055) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 1 | 1.44 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 4 | 1.44 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 4 | 1.44 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 4 | 1.44 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 20 | 1.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 20 | 1.44 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 20 | 1.44 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 14 | 1.44 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 14 | 1.44 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 14 | 1.44 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 6 | 1.44 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 6 | 1.44 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 6 | 1.44 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 10 | 1.44 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 10 | 1.44 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 10 | 1.44 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 19 | 1.44 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 19 | 1.44 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 19 | 1.44 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 19 | 1.44 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 2 | 1.44 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 11 | 1.44 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 11 | 1.44 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 11 | 1.44 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 13 | 1.44 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 13 | 1.44 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 13 | 1.44 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 5 | 1.44 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 12 | 1.44 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 12 | 1.44 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 12 | 1.44 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 6 | 1.44 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 6 | 1.44 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 6 | 1.44 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 11 | 1.44 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 11 | 1.44 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 11 | 1.44 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 11 | 1.44 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 11 | 1.44 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 11 | 1.44 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 14 | 1.44 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 14 | 1.44 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 20 | 1.44 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 20 | 1.44 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 16 | 1.44 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 16 | 1.44 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 9 | 1.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 5 | 1.44 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 15 | 1.44 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 15 | 1.44 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 15 | 1.44 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 15 | 1.44 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 15 | 1.44 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 15 | 1.44 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 5 | 1.44 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 5 | 1.44 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 2 | 1.44 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 13 | 1.44 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 15 | 1.44 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 15 | 1.44 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 5 | 1.44 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 5 | 1.44 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 3 | 1.44 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 9 | 1.44 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 9 | 1.44 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 9 | 1.44 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 9 | 1.44 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 9 | 1.44 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 14 | 1.44 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 7 | 1.44 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 7 | 1.44 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 7 | 1.44 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 11 | 1.44 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 4 | 1.44 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 2 | 1.44 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 1 | 1.44 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 11 | 1.44 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 11 | 1.44 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 11 | 1.44 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 11 | 1.44 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 11 | 1.44 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 11 | 1.44 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 16 | 1.44 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 16 | 1.44 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 16 | 1.44 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 5 | 1.44 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 5 | 1.44 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 18 | 1.44 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 18 | 1.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 18 | 1.44 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 1 | 1.44 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 1 | 1.44 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 1 | 1.44 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 1 | 1.44 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 1 | 1.44 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 1 | 1.44 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 8 | 1.44 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 8 | 1.44 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 8 | 1.44 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 8 | 1.44 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 18 | 1.44 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 18 | 1.44 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 18 | 1.44 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 18 | 1.44 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 12 | 1.44 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 19 | 1.44 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 19 | 1.44 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 19 | 1.44 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 9 | 1.44 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 11 | 1.44 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 11 | 1.44 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 11 | 1.44 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 6 | 1.44 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 2 | 1.44 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 20 | 1.44 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 20 | 1.44 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 20 | 1.44 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 20 | 1.44 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 20 | 1.44 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 20 | 1.44 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 20 | 1.44 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 20 | 1.44 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 20 | 1.44 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 7 | 1.44 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 7 | 1.44 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 7 | 1.44 |
| (1,112) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 10 | 1.44 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 17 | 1.44 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 17 | 1.44 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 17 | 1.44 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 17 | 1.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 19 | 1.44 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 19 | 1.44 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 13 | 1.44 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 13 | 1.44 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 16 | 1.44 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 16 | 1.44 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 4 | 1.43 |
| (3,235) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 8 | 1.43 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 4 | 1.43 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 4 | 1.43 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 9 | 1.43 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 9 | 1.43 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 9 | 1.43 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 9 | 1.43 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 9 | 1.43 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 9 | 1.43 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 10 | 1.43 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 10 | 1.43 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 4 | 1.43 |
| (1,7298) | 1:28:A:ILE:H | 1:29:A:THR:H | 7 | 1.43 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 20 | 1.43 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 20 | 1.43 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 7 | 1.43 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 4 | 1.43 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 8 | 1.43 |
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 4 | 1.43 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 18 | 1.43 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 2 | 1.43 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 2 | 1.43 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 5 | 1.43 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 5 | 1.43 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 5 | 1.43 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 8 | 1.43 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 2 | 1.43 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 2 | 1.43 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 2 | 1.43 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 2 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 7 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 7 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 7 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 7 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 7 | 1.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 7 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 10 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 10 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 10 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 10 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 10 | 1.43 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 10 | 1.43 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 7 | 1.43 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 7 | 1.43 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 10 | 1.43 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 10 | 1.43 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 4 | 1.43 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 13 | 1.43 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 8 | 1.43 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 6 | 1.43 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 6 | 1.43 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 6 | 1.43 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 13 | 1.43 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 20 | 1.43 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 10 | 1.43 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 10 | 1.43 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 10 | 1.43 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 19 | 1.43 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 13 | 1.43 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 4 | 1.43 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 13 | 1.43 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 13 | 1.43 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 13 | 1.43 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 1.43 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 8 | 1.43 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 3 | 1.43 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 3 | 1.43 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 3 | 1.43 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 3 | 1.43 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 3 | 1.43 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 3 | 1.43 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 3 | 1.43 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 1 | 1.43 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 1 | 1.43 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 12 | 1.43 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 12 | 1.43 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 12 | 1.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 12 | 1.43 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 12 | 1.43 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 12 | 1.43 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 10 | 1.43 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 10 | 1.43 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 10 | 1.43 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 10 | 1.43 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 10 | 1.43 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 10 | 1.43 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 16 | 1.43 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 16 | 1.43 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 7 | 1.43 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 7 | 1.43 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 7 | 1.43 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 19 | 1.43 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 19 | 1.43 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 20 | 1.43 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 20 | 1.43 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB2 | 7 | 1.43 |
| (1,4237) | 1:99:A:GLY:H | 1:100:A:GLU:HB3 | 7 | 1.43 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 16 | 1.43 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 16 | 1.43 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 3 | 1.43 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 3 | 1.43 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 19 | 1.43 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 19 | 1.43 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 19 | 1.43 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 20 | 1.43 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 20 | 1.43 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 20 | 1.43 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 20 | 1.43 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 20 | 1.43 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 20 | 1.43 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 4 | 1.43 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 4 | 1.43 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 4 | 1.43 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 4 | 1.43 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 4 | 1.43 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 4 | 1.43 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 1.43 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 1.43 |
| (1,4063) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 12 | 1.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 11 | 1.43 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 11 | 1.43 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 11 | 1.43 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 11 | 1.43 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 11 | 1.43 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 11 | 1.43 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 15 | 1.43 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 15 | 1.43 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 15 | 1.43 |
| (1,3949) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE22 | 18 | 1.43 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 18 | 1.43 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 7 | 1.43 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 7 | 1.43 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 2 | 1.43 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 8 | 1.43 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 8 | 1.43 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 8 | 1.43 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 8 | 1.43 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 8 | 1.43 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 8 | 1.43 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 20 | 1.43 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 20 | 1.43 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 20 | 1.43 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 20 | 1.43 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 20 | 1.43 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 20 | 1.43 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 20 | 1.43 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 20 | 1.43 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 20 | 1.43 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 9 | 1.43 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 9 | 1.43 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 8 | 1.43 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 9 | 1.43 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 19 | 1.43 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 13 | 1.43 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 13 | 1.43 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 1 | 1.43 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 1 | 1.43 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 18 | 1.43 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 18 | 1.43 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 1 | 1.43 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 1 | 1.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 1 | 1.43 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 20 | 1.43 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 3 | 1.43 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 16 | 1.43 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 20 | 1.43 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 4 | 1.43 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 15 | 1.43 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 15 | 1.43 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 15 | 1.43 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 5 | 1.43 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 5 | 1.43 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 5 | 1.43 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 18 | 1.43 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 14 | 1.43 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 14 | 1.43 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 14 | 1.43 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 20 | 1.43 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 20 | 1.43 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 20 | 1.43 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 12 | 1.43 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 14 | 1.43 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 14 | 1.43 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 14 | 1.43 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 4 | 1.43 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 4 | 1.43 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 4 | 1.43 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 8 | 1.43 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 6 | 1.43 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 14 | 1.43 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 19 | 1.43 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 3 | 1.43 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 3 | 1.43 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 3 | 1.43 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 18 | 1.43 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 20 | 1.43 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 7 | 1.43 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 7 | 1.43 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 7 | 1.43 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 20 | 1.43 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 20 | 1.43 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 20 | 1.43 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 18 | 1.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 18 | 1.43 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 18 | 1.43 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 12 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 1 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 1 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 1 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 10 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 10 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 10 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 11 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 11 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 11 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 17 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 17 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 17 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 19 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 19 | 1.43 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 19 | 1.43 |
| (1,2105) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 12 | 1.43 |
| (1,2105) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 12 | 1.43 |
| (1,2105) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 12 | 1.43 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 2 | 1.43 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 2 | 1.43 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 2 | 1.43 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 2 | 1.43 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 2 | 1.43 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 2 | 1.43 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 2 | 1.43 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 2 | 1.43 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 2 | 1.43 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 19 | 1.43 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 8 | 1.43 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 10 | 1.43 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 10 | 1.43 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 10 | 1.43 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 9 | 1.43 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 1 | 1.43 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 1 | 1.43 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 1 | 1.43 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 1.43 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 1.43 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 1.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 10 | 1.43 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 10 | 1.43 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 10 | 1.43 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 10 | 1.43 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 10 | 1.43 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 10 | 1.43 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 10 | 1.43 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 10 | 1.43 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 10 | 1.43 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 17 | 1.43 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 17 | 1.43 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 17 | 1.43 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 13 | 1.43 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 16 | 1.43 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 16 | 1.43 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 2 | 1.43 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 16 | 1.43 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 16 | 1.43 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 16 | 1.43 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 12 | 1.43 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 5 | 1.43 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 17 | 1.43 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 9 | 1.43 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 9 | 1.43 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 8 | 1.43 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 13 | 1.43 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 13 | 1.43 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 13 | 1.43 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 6 | 1.43 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 12 | 1.43 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 19 | 1.43 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 18 | 1.43 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 18 | 1.43 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 18 | 1.43 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 8 | 1.43 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 8 | 1.43 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 8 | 1.43 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 8 | 1.43 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 9 | 1.43 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 10 | 1.43 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 14 | 1.43 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 15 | 1.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 4 | 1.43 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 17 | 1.43 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 17 | 1.43 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 17 | 1.43 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 16 | 1.43 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 18 | 1.43 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 18 | 1.43 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 18 | 1.43 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 18 | 1.43 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 4 | 1.43 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 8 | 1.43 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 8 | 1.43 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 8 | 1.43 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 14 | 1.43 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 5 | 1.43 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 20 | 1.43 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 20 | 1.43 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 20 | 1.43 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 16 | 1.43 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 19 | 1.43 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 19 | 1.43 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 19 | 1.43 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 8 | 1.43 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 8 | 1.43 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 8 | 1.43 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 9 | 1.43 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 9 | 1.43 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 9 | 1.43 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 19 | 1.43 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 6 | 1.43 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 1 | 1.43 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 1 | 1.43 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 1 | 1.43 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 1 | 1.43 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 1 | 1.43 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 1 | 1.43 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 1 | 1.43 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 1 | 1.43 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 1 | 1.43 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 6 | 1.43 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 1 | 1.43 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 20 | 1.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 6 | 1.43 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 6 | 1.43 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 6 | 1.43 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 7 | 1.43 |
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 20 | 1.43 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 4 | 1.43 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 4 | 1.43 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 17 | 1.43 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 17 | 1.43 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 17 | 1.43 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 17 | 1.43 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 17 | 1.43 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 17 | 1.43 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 17 | 1.43 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 17 | 1.43 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 17 | 1.43 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 3 | 1.43 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 3 | 1.43 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 3 | 1.43 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 19 | 1.43 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 13 | 1.43 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 9 | 1.43 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 9 | 1.43 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 9 | 1.43 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 9 | 1.43 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 9 | 1.43 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 9 | 1.43 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 4 | 1.43 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 5 | 1.43 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 7 | 1.43 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 16 | 1.43 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 16 | 1.43 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 1 | 1.43 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 1 | 1.43 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 1 | 1.43 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 9 | 1.42 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 20 | 1.42 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 19 | 1.42 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 19 | 1.42 |
| (3,642) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 16 | 1.42 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 14 | 1.42 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 12 | 1.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 12 | 1.42 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 12 | 1.42 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 12 | 1.42 |
| (1,9580) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 13 | 1.42 |
| (1,9580) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 13 | 1.42 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 5 | 1.42 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 5 | 1.42 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 5 | 1.42 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 5 | 1.42 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 5 | 1.42 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 5 | 1.42 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 3 | 1.42 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 3 | 1.42 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 3 | 1.42 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 3 | 1.42 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 7 | 1.42 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 7 | 1.42 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 6 | 1.42 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 6 | 1.42 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 17 | 1.42 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 18 | 1.42 |
| (1,7583) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 18 | 1.42 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 3 | 1.42 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 3 | 1.42 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 1.42 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 19 | 1.42 |
| (1,6582) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 20 | 1.42 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 18 | 1.42 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 18 | 1.42 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 18 | 1.42 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 18 | 1.42 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 18 | 1.42 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 18 | 1.42 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 18 | 1.42 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 18 | 1.42 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 18 | 1.42 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 5 | 1.42 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 6 | 1.42 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 19 | 1.42 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 3 | 1.42 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 3 | 1.42 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 3 | 1.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 6 | 1.42 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 6 | 1.42 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 6 | 1.42 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 12 | 1.42 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 12 | 1.42 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 12 | 1.42 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 12 | 1.42 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 13 | 1.42 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 13 | 1.42 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 16 | 1.42 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 1.42 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 1.42 |
| (1,4519) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 11 | 1.42 |
| (1,4519) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 11 | 1.42 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 8 | 1.42 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 8 | 1.42 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 8 | 1.42 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 8 | 1.42 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 8 | 1.42 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 8 | 1.42 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 18 | 1.42 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 18 | 1.42 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 18 | 1.42 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 18 | 1.42 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 18 | 1.42 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 18 | 1.42 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 4 | 1.42 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 4 | 1.42 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 5 | 1.42 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 5 | 1.42 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 18 | 1.42 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 18 | 1.42 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 6 | 1.42 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 6 | 1.42 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 2 | 1.42 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 14 | 1.42 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 14 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 19 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 19 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 19 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 19 | 1.42 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 19 | 1.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 19 | 1.42 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 8 | 1.42 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 8 | 1.42 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 2 | 1.42 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 2 | 1.42 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 2 | 1.42 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 2 | 1.42 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 2 | 1.42 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 2 | 1.42 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 8 | 1.42 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 3 | 1.42 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 3 | 1.42 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 3 | 1.42 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 3 | 1.42 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 3 | 1.42 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 3 | 1.42 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 3 | 1.42 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 3 | 1.42 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 18 | 1.42 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 18 | 1.42 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 18 | 1.42 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 15 | 1.42 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 15 | 1.42 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 15 | 1.42 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 15 | 1.42 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 15 | 1.42 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 15 | 1.42 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 19 | 1.42 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 19 | 1.42 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 20 | 1.42 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 20 | 1.42 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 20 | 1.42 |
| (1,3239) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 16 | 1.42 |
| (1,3233) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 19 | 1.42 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 6 | 1.42 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 4 | 1.42 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 7 | 1.42 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 7 | 1.42 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 7 | 1.42 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 6 | 1.42 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 6 | 1.42 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 6 | 1.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 5 | 1.42 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 5 | 1.42 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 5 | 1.42 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 13 | 1.42 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 10 | 1.42 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 3 | 1.42 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 10 | 1.42 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 15 | 1.42 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 14 | 1.42 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 20 | 1.42 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 8 | 1.42 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 7 | 1.42 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 7 | 1.42 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 7 | 1.42 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 3 | 1.42 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 3 | 1.42 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 3 | 1.42 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 11 | 1.42 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 16 | 1.42 |
| (1,2611) | 1:16:A:SER:H | 1:17:A:ARG:HA | 18 | 1.42 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 10 | 1.42 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 17 | 1.42 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 17 | 1.42 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 17 | 1.42 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 18 | 1.42 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 18 | 1.42 |
| (1,2551) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 18 | 1.42 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 2 | 1.42 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 10 | 1.42 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 12 | 1.42 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 20 | 1.42 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 19 | 1.42 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 20 | 1.42 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 14 | 1.42 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 14 | 1.42 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 14 | 1.42 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 6 | 1.42 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 6 | 1.42 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 6 | 1.42 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 12 | 1.42 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 12 | 1.42 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 12 | 1.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 2 | 1.42 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 4 | 1.42 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 16 | 1.42 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 6 | 1.42 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 6 | 1.42 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 6 | 1.42 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 7 | 1.42 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 7 | 1.42 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 7 | 1.42 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 3 | 1.42 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 4 | 1.42 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 4 | 1.42 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 5 | 1.42 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 5 | 1.42 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 5 | 1.42 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 12 | 1.42 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 12 | 1.42 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 12 | 1.42 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 19 | 1.42 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 19 | 1.42 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 19 | 1.42 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 11 | 1.42 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 11 | 1.42 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 11 | 1.42 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 9 | 1.42 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 9 | 1.42 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 9 | 1.42 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 11 | 1.42 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 11 | 1.42 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 11 | 1.42 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 11 | 1.42 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 11 | 1.42 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 11 | 1.42 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 11 | 1.42 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 11 | 1.42 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 11 | 1.42 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 4 | 1.42 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 4 | 1.42 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 4 | 1.42 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 15 | 1.42 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 3 | 1.42 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 3 | 1.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 17 | 1.42 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 17 | 1.42 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 13 | 1.42 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 13 | 1.42 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 13 | 1.42 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 12 | 1.42 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 12 | 1.42 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 12 | 1.42 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 3 | 1.42 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 3 | 1.42 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 3 | 1.42 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 4 | 1.42 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 4 | 1.42 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 4 | 1.42 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 4 | 1.42 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 4 | 1.42 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 4 | 1.42 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 4 | 1.42 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 4 | 1.42 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 4 | 1.42 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 1 | 1.42 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 1 | 1.42 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 1 | 1.42 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 15 | 1.42 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 3 | 1.42 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 3 | 1.42 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 3 | 1.42 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 6 | 1.42 |
| (1,1539) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 19 | 1.42 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 17 | 1.42 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 17 | 1.42 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 2 | 1.42 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 13 | 1.42 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 13 | 1.42 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 13 | 1.42 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 8 | 1.42 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 8 | 1.42 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 8 | 1.42 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 18 | 1.42 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 6 | 1.42 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 10 | 1.42 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 10 | 1.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 6 | 1.42 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 6 | 1.42 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 2 | 1.42 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 12 | 1.42 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 3 | 1.42 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 3 | 1.42 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 3 | 1.42 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 3 | 1.42 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 3 | 1.42 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 3 | 1.42 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 3 | 1.42 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 10 | 1.42 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 10 | 1.42 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 10 | 1.42 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 3 | 1.42 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 3 | 1.42 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 10 | 1.42 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 10 | 1.42 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 19 | 1.42 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 19 | 1.42 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 1 | 1.42 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 18 | 1.42 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 11 | 1.42 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 2 | 1.42 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 2 | 1.42 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 2 | 1.42 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 18 | 1.42 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 18 | 1.42 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 18 | 1.42 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 19 | 1.42 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 19 | 1.42 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 12 | 1.42 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 12 | 1.42 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 12 | 1.42 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 18 | 1.42 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 18 | 1.42 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 18 | 1.42 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 13 | 1.42 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 13 | 1.42 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 13 | 1.42 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 13 | 1.42 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 13 | 1.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 13 | 1.42 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 3 | 1.42 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 3 | 1.42 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 3 | 1.42 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 3 | 1.42 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 3 | 1.42 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 3 | 1.42 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 6 | 1.42 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 6 | 1.42 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 6 | 1.42 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 12 | 1.42 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 12 | 1.42 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 12 | 1.42 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 14 | 1.42 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 14 | 1.42 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 14 | 1.42 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 20 | 1.42 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 20 | 1.42 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 20 | 1.42 |
| (1,439) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 8 | 1.42 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 17 | 1.42 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 17 | 1.42 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 17 | 1.42 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 17 | 1.42 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 17 | 1.42 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 17 | 1.42 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 3 | 1.42 |
| (1,369) | 1:84:A:GLU:H | 1:87:A:GLU:H | 18 | 1.42 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 14 | 1.42 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 14 | 1.42 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 14 | 1.42 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 14 | 1.42 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 14 | 1.42 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 14 | 1.42 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 12 | 1.42 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 18 | 1.42 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 1 | 1.42 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 1 | 1.42 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 20 | 1.42 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 20 | 1.42 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 12 | 1.42 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 12 | 1.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 12 | 1.42 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 14 | 1.42 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 4 | 1.42 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 4 | 1.42 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 4 | 1.42 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 6 | 1.42 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 6 | 1.42 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 6 | 1.42 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 19 | 1.42 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 19 | 1.42 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 19 | 1.42 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 1 | 1.42 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 2 | 1.42 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 19 | 1.42 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 16 | 1.42 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 2 | 1.41 |
| (4,154) | 1:98:A:SER:CB | 1:14:A:ARG:H | 13 | 1.41 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 12 | 1.41 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 3 | 1.41 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 10 | 1.41 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 2 | 1.41 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 2 | 1.41 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 2 | 1.41 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 9 | 1.41 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 9 | 1.41 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 9 | 1.41 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 9 | 1.41 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 9 | 1.41 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 9 | 1.41 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 11 | 1.41 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 11 | 1.41 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 15 | 1.41 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 16 | 1.41 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 1 | 1.41 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 10 | 1.41 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 10 | 1.41 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 19 | 1.41 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 19 | 1.41 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 20 | 1.41 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 20 | 1.41 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 9 | 1.41 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 9 | 1.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 2 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 19 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 19 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 19 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 19 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 19 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 19 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 19 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 19 | 1.41 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 19 | 1.41 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 20 | 1.41 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 20 | 1.41 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 20 | 1.41 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 20 | 1.41 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 20 | 1.41 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 20 | 1.41 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 20 | 1.41 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 20 | 1.41 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 20 | 1.41 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 18 | 1.41 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 18 | 1.41 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 1 | 1.41 |
| (1,4583) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 1 | 1.41 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 17 | 1.41 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 17 | 1.41 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 14 | 1.41 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 14 | 1.41 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 17 | 1.41 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 17 | 1.41 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 6 | 1.41 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 6 | 1.41 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 10 | 1.41 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 10 | 1.41 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 17 | 1.41 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 17 | 1.41 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 20 | 1.41 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 1.41 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 1 | 1.41 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 1 | 1.41 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 1 | 1.41 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 1 | 1.41 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 3 | 1.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 3 | 1.41 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 3 | 1.41 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 3 | 1.41 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 1 | 1.41 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 1 | 1.41 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 6 | 1.41 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 6 | 1.41 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 17 | 1.41 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 17 | 1.41 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 10 | 1.41 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 11 | 1.41 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 16 | 1.41 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 16 | 1.41 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 2 | 1.41 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 2 | 1.41 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 2 | 1.41 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 2 | 1.41 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 2 | 1.41 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 2 | 1.41 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 8 | 1.41 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 8 | 1.41 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 8 | 1.41 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 2 | 1.41 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 2 | 1.41 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 1.41 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 1.41 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 1.41 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 1.41 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 8 | 1.41 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 12 | 1.41 |
| (1,3831) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 12 | 1.41 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 12 | 1.41 |
| (1,3831) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 12 | 1.41 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 20 | 1.41 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 20 | 1.41 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 20 | 1.41 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 20 | 1.41 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 20 | 1.41 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 20 | 1.41 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 18 | 1.41 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 18 | 1.41 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 18 | 1.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 18 | 1.41 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 18 | 1.41 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 18 | 1.41 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 1 | 1.41 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 1 | 1.41 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 1 | 1.41 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 1 | 1.41 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 7 | 1.41 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 7 | 1.41 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 7 | 1.41 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 7 | 1.41 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 7 | 1.41 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 7 | 1.41 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 13 | 1.41 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 4 | 1.41 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 11 | 1.41 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 11 | 1.41 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 6 | 1.41 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 10 | 1.41 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 10 | 1.41 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 11 | 1.41 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 18 | 1.41 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 2 | 1.41 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 10 | 1.41 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 3 | 1.41 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 6 | 1.41 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 6 | 1.41 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 6 | 1.41 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 14 | 1.41 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 14 | 1.41 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 14 | 1.41 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 14 | 1.41 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 14 | 1.41 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 14 | 1.41 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 5 | 1.41 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 5 | 1.41 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 5 | 1.41 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 15 | 1.41 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 15 | 1.41 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 15 | 1.41 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 7 | 1.41 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 13 | 1.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 8 | 1.41 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 10 | 1.41 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 14 | 1.41 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 14 | 1.41 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 14 | 1.41 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 10 | 1.41 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 2 | 1.41 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 2 | 1.41 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 2 | 1.41 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 17 | 1.41 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 17 | 1.41 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 17 | 1.41 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 17 | 1.41 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 17 | 1.41 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 17 | 1.41 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 17 | 1.41 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 17 | 1.41 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 17 | 1.41 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 13 | 1.41 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 13 | 1.41 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 13 | 1.41 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 15 | 1.41 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 15 | 1.41 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 15 | 1.41 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 19 | 1.41 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 19 | 1.41 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 19 | 1.41 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 3 | 1.41 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 3 | 1.41 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 3 | 1.41 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 3 | 1.41 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 3 | 1.41 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 3 | 1.41 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 3 | 1.41 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 3 | 1.41 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 3 | 1.41 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 4 | 1.41 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 16 | 1.41 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 16 | 1.41 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 16 | 1.41 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 3 | 1.41 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 2 | 1.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 18 | 1.41 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 18 | 1.41 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 18 | 1.41 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 3 | 1.41 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 3 | 1.41 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 3 | 1.41 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 17 | 1.41 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 17 | 1.41 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 17 | 1.41 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 16 | 1.41 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 9 | 1.41 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 9 | 1.41 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 9 | 1.41 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 9 | 1.41 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 9 | 1.41 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 9 | 1.41 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 11 | 1.41 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 11 | 1.41 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 5 | 1.41 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 8 | 1.41 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 8 | 1.41 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 8 | 1.41 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 19 | 1.41 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 19 | 1.41 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 19 | 1.41 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 1 | 1.41 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 2 | 1.41 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 2 | 1.41 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 2 | 1.41 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 19 | 1.41 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 13 | 1.41 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 17 | 1.41 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 5 | 1.41 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 4 | 1.41 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 4 | 1.41 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 4 | 1.41 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 10 | 1.41 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 8 | 1.41 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 8 | 1.41 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 8 | 1.41 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 1 | 1.41 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 9 | 1.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 14 | 1.41 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 8 | 1.41 |
| (1,62) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 12 | 1.41 |
| (1,62) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 12 | 1.41 |
| (1,62) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 12 | 1.41 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 9 | 1.41 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 9 | 1.41 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 5 | 1.4 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 15 | 1.4 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 15 | 1.4 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 3 | 1.4 |
| (4,50) | 1:15:A:MET:CB | 1:107:A:ALA:H | 14 | 1.4 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 19 | 1.4 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 5 | 1.4 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 5 | 1.4 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 5 | 1.4 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 5 | 1.4 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 20 | 1.4 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 20 | 1.4 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 13 | 1.4 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 13 | 1.4 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 4 | 1.4 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 18 | 1.4 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 2 | 1.4 |
| (1,6969) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 3 | 1.4 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 5 | 1.4 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 1 | 1.4 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 1 | 1.4 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 1 | 1.4 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 9 | 1.4 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 6 | 1.4 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 11 | 1.4 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 16 | 1.4 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 19 | 1.4 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 19 | 1.4 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 19 | 1.4 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 19 | 1.4 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 19 | 1.4 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 19 | 1.4 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 19 | 1.4 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 19 | 1.4 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 19 | 1.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 15 | 1.4 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 1 | 1.4 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 1 | 1.4 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 1 | 1.4 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 1 | 1.4 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 1 | 1.4 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 1 | 1.4 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 12 | 1.4 |
| (1,5669) | 1:105:A:SER:HA | 1:108:A:SER:H | 4 | 1.4 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 13 | 1.4 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 13 | 1.4 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 13 | 1.4 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 20 | 1.4 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 20 | 1.4 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 20 | 1.4 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 5 | 1.4 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 12 | 1.4 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 20 | 1.4 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 14 | 1.4 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 16 | 1.4 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 5 | 1.4 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 15 | 1.4 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 11 | 1.4 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 16 | 1.4 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 16 | 1.4 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 1 | 1.4 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 1 | 1.4 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 1 | 1.4 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 1 | 1.4 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 1 | 1.4 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 1 | 1.4 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 5 | 1.4 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 5 | 1.4 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 5 | 1.4 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 5 | 1.4 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 5 | 1.4 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 5 | 1.4 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 17 | 1.4 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 17 | 1.4 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 17 | 1.4 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 17 | 1.4 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 17 | 1.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 17 | 1.4 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 3 | 1.4 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 3 | 1.4 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 3 | 1.4 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 14 | 1.4 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 17 | 1.4 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 17 | 1.4 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 17 | 1.4 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 17 | 1.4 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 17 | 1.4 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 17 | 1.4 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 3 | 1.4 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 5 | 1.4 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 5 | 1.4 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 5 | 1.4 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 5 | 1.4 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 5 | 1.4 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 5 | 1.4 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 5 | 1.4 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 5 | 1.4 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 14 | 1.4 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 14 | 1.4 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 14 | 1.4 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 7 | 1.4 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 7 | 1.4 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 13 | 1.4 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 13 | 1.4 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 8 | 1.4 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 1.4 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 17 | 1.4 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 17 | 1.4 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB2 | 10 | 1.4 |
| (1,4211) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HB3 | 10 | 1.4 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB2 | 10 | 1.4 |
| (1,4211) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HB3 | 10 | 1.4 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB2 | 10 | 1.4 |
| (1,4211) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HB3 | 10 | 1.4 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 5 | 1.4 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 5 | 1.4 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 13 | 1.4 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 13 | 1.4 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 16 | 1.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 16 | 1.4 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 16 | 1.4 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 16 | 1.4 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 16 | 1.4 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 16 | 1.4 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 15 | 1.4 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 15 | 1.4 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 11 | 1.4 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 11 | 1.4 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 11 | 1.4 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 18 | 1.4 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 6 | 1.4 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 6 | 1.4 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 6 | 1.4 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 6 | 1.4 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 6 | 1.4 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 6 | 1.4 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 4 | 1.4 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 4 | 1.4 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 4 | 1.4 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 4 | 1.4 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 7 | 1.4 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 7 | 1.4 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 7 | 1.4 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 7 | 1.4 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 15 | 1.4 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 15 | 1.4 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 14 | 1.4 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 14 | 1.4 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 14 | 1.4 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 14 | 1.4 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 14 | 1.4 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 14 | 1.4 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 9 | 1.4 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 9 | 1.4 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 9 | 1.4 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 9 | 1.4 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 9 | 1.4 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 9 | 1.4 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 9 | 1.4 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 9 | 1.4 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 9 | 1.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 10 | 1.4 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 4 | 1.4 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 3 | 1.4 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 3 | 1.4 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 2 | 1.4 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 16 | 1.4 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 15 | 1.4 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 16 | 1.4 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 1.4 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 1.4 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 2 | 1.4 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 8 | 1.4 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 1 | 1.4 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 10 | 1.4 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 10 | 1.4 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 10 | 1.4 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 4 | 1.4 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 4 | 1.4 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 4 | 1.4 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 14 | 1.4 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 14 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 7 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 7 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 7 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 7 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 18 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 18 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 18 | 1.4 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 18 | 1.4 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 3 | 1.4 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 3 | 1.4 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 3 | 1.4 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 3 | 1.4 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 17 | 1.4 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 1 | 1.4 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 5 | 1.4 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 6 | 1.4 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 8 | 1.4 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 9 | 1.4 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 20 | 1.4 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 6 | 1.4 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 11 | 1.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 18 | 1.4 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 18 | 1.4 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 18 | 1.4 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 5 | 1.4 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 3 | 1.4 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 5 | 1.4 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 7 | 1.4 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 11 | 1.4 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 9 | 1.4 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 5 | 1.4 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 5 | 1.4 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 5 | 1.4 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 1 | 1.4 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 1 | 1.4 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 20 | 1.4 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 20 | 1.4 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 20 | 1.4 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 13 | 1.4 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 9 | 1.4 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 9 | 1.4 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 9 | 1.4 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 19 | 1.4 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 19 | 1.4 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 19 | 1.4 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 4 | 1.4 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 4 | 1.4 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 4 | 1.4 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 10 | 1.4 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 2 | 1.4 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 2 | 1.4 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 2 | 1.4 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 1 | 1.4 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 10 | 1.4 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 17 | 1.4 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 19 | 1.4 |
| (1,1705) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 20 | 1.4 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 13 | 1.4 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 3 | 1.4 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 3 | 1.4 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 3 | 1.4 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 6 | 1.4 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 6 | 1.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 6 | 1.4 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 16 | 1.4 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 16 | 1.4 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 16 | 1.4 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 8 | 1.4 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 18 | 1.4 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 18 | 1.4 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 14 | 1.4 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 5 | 1.4 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 19 | 1.4 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 4 | 1.4 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 18 | 1.4 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 7 | 1.4 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 4 | 1.4 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 4 | 1.4 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 4 | 1.4 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 4 | 1.4 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 4 | 1.4 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 4 | 1.4 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 14 | 1.4 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 11 | 1.4 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 10 | 1.4 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 10 | 1.4 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 10 | 1.4 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 4 | 1.4 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 5 | 1.4 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 8 | 1.4 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 6 | 1.4 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 6 | 1.4 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 6 | 1.4 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 1 | 1.4 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 1 | 1.4 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 1 | 1.4 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 7 | 1.4 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 17 | 1.4 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 5 | 1.4 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 5 | 1.4 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 8 | 1.4 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 11 | 1.4 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 11 | 1.4 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 11 | 1.4 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 11 | 1.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 11 | 1.4 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 11 | 1.4 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 17 | 1.4 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 16 | 1.4 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 16 | 1.4 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 16 | 1.4 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 18 | 1.4 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 16 | 1.4 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 10 | 1.4 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 12 | 1.4 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 12 | 1.4 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 12 | 1.4 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 12 | 1.4 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 5 | 1.4 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 11 | 1.4 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 11 | 1.4 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 11 | 1.4 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 3 | 1.4 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 2 | 1.4 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 14 | 1.4 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 16 | 1.4 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 7 | 1.4 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 7 | 1.4 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 7 | 1.4 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 7 | 1.4 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 7 | 1.4 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 7 | 1.4 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 7 | 1.4 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 7 | 1.4 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 7 | 1.4 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 15 | 1.4 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 11 | 1.4 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 12 | 1.4 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 12 | 1.4 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 14 | 1.4 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 14 | 1.4 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 6 | 1.39 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 16 | 1.39 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 4 | 1.39 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 18 | 1.39 |
| (3,876) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 3 | 1.39 |
| (3,876) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 3 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 5 | 1.39 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 5 | 1.39 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 5 | 1.39 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 2 | 1.39 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 2 | 1.39 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 4 | 1.39 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 4 | 1.39 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 4 | 1.39 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 6 | 1.39 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 6 | 1.39 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 6 | 1.39 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 6 | 1.39 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 6 | 1.39 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 6 | 1.39 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 6 | 1.39 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 6 | 1.39 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 6 | 1.39 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 14 | 1.39 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 14 | 1.39 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 14 | 1.39 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 14 | 1.39 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 14 | 1.39 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 14 | 1.39 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 15 | 1.39 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 15 | 1.39 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 15 | 1.39 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 15 | 1.39 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 18 | 1.39 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 18 | 1.39 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 8 | 1.39 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 8 | 1.39 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 8 | 1.39 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 8 | 1.39 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 1 | 1.39 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 1 | 1.39 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 1 | 1.39 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 1 | 1.39 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 7 | 1.39 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 7 | 1.39 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 19 | 1.39 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 4 | 1.39 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 7 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 7 | 1.39 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 11 | 1.39 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 3 | 1.39 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 13 | 1.39 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 16 | 1.39 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 16 | 1.39 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 16 | 1.39 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 16 | 1.39 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 16 | 1.39 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 16 | 1.39 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 16 | 1.39 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 16 | 1.39 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 16 | 1.39 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 18 | 1.39 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 19 | 1.39 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 19 | 1.39 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 18 | 1.39 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 20 | 1.39 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 11 | 1.39 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 11 | 1.39 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 11 | 1.39 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 20 | 1.39 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 20 | 1.39 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 20 | 1.39 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 4 | 1.39 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 4 | 1.39 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 4 | 1.39 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 4 | 1.39 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 4 | 1.39 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 4 | 1.39 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 4 | 1.39 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 4 | 1.39 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 4 | 1.39 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 4 | 1.39 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 4 | 1.39 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 4 | 1.39 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 2 | 1.39 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 5 | 1.39 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 8 | 1.39 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 8 | 1.39 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 8 | 1.39 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 9 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 8 | 1.39 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 14 | 1.39 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 14 | 1.39 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 14 | 1.39 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 14 | 1.39 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 14 | 1.39 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 14 | 1.39 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 4 | 1.39 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 4 | 1.39 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 16 | 1.39 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 16 | 1.39 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 3 | 1.39 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 3 | 1.39 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 12 | 1.39 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 12 | 1.39 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 15 | 1.39 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 15 | 1.39 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 10 | 1.39 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 10 | 1.39 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 1 | 1.39 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 6 | 1.39 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 6 | 1.39 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 16 | 1.39 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 16 | 1.39 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 16 | 1.39 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 16 | 1.39 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 16 | 1.39 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 16 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 4 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 4 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 4 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 4 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 4 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 4 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 12 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 12 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 12 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 12 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 12 | 1.39 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 12 | 1.39 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 1 | 1.39 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 1 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3953) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 18 | 1.39 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 11 | 1.39 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 11 | 1.39 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 14 | 1.39 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 14 | 1.39 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 14 | 1.39 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 14 | 1.39 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 14 | 1.39 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 14 | 1.39 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 18 | 1.39 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 18 | 1.39 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 18 | 1.39 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 18 | 1.39 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 18 | 1.39 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 18 | 1.39 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 3 | 1.39 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 3 | 1.39 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 14 | 1.39 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 1 | 1.39 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 1 | 1.39 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 3 | 1.39 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 18 | 1.39 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 18 | 1.39 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 10 | 1.39 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 19 | 1.39 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 1.39 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 1.39 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 1.39 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 2 | 1.39 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 2 | 1.39 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 2 | 1.39 |
| (1,3283) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 6 | 1.39 |
| (1,3283) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 6 | 1.39 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 12 | 1.39 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 12 | 1.39 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 1 | 1.39 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 15 | 1.39 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 14 | 1.39 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 20 | 1.39 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 6 | 1.39 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 1 | 1.39 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 13 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 13 | 1.39 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 13 | 1.39 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 17 | 1.39 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 17 | 1.39 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 17 | 1.39 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 17 | 1.39 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 17 | 1.39 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 17 | 1.39 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 12 | 1.39 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 12 | 1.39 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 12 | 1.39 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 12 | 1.39 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 12 | 1.39 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 16 | 1.39 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 16 | 1.39 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 11 | 1.39 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 5 | 1.39 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 12 | 1.39 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 14 | 1.39 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 10 | 1.39 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 10 | 1.39 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 10 | 1.39 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 18 | 1.39 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 18 | 1.39 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 18 | 1.39 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 18 | 1.39 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 14 | 1.39 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 16 | 1.39 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 13 | 1.39 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 13 | 1.39 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 8 | 1.39 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 8 | 1.39 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 8 | 1.39 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 7 | 1.39 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 7 | 1.39 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 7 | 1.39 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 16 | 1.39 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 16 | 1.39 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 16 | 1.39 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 16 | 1.39 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 16 | 1.39 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 16 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 17 | 1.39 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 17 | 1.39 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 17 | 1.39 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 17 | 1.39 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 17 | 1.39 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 17 | 1.39 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 8 | 1.39 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 12 | 1.39 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 18 | 1.39 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 20 | 1.39 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 7 | 1.39 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 7 | 1.39 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 7 | 1.39 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 5 | 1.39 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 10 | 1.39 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 10 | 1.39 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 10 | 1.39 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 15 | 1.39 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 15 | 1.39 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 18 | 1.39 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 2 | 1.39 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 2 | 1.39 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 2 | 1.39 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 20 | 1.39 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 20 | 1.39 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 20 | 1.39 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 8 | 1.39 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 6 | 1.39 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 4 | 1.39 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 8 | 1.39 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 1 | 1.39 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 15 | 1.39 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 15 | 1.39 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 15 | 1.39 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 1 | 1.39 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 1 | 1.39 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 4 | 1.39 |
| (1,1213) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 4 | 1.39 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 9 | 1.39 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 9 | 1.39 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 9 | 1.39 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 1 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 1 | 1.39 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 5 | 1.39 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 19 | 1.39 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 2 | 1.39 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 6 | 1.39 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 6 | 1.39 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 6 | 1.39 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 16 | 1.39 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 6 | 1.39 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 6 | 1.39 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 6 | 1.39 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 6 | 1.39 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 6 | 1.39 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 6 | 1.39 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 20 | 1.39 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 20 | 1.39 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 20 | 1.39 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 20 | 1.39 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 20 | 1.39 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 20 | 1.39 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 18 | 1.39 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 18 | 1.39 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 18 | 1.39 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 18 | 1.39 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 18 | 1.39 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 18 | 1.39 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 12 | 1.39 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 12 | 1.39 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 12 | 1.39 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 12 | 1.39 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 17 | 1.39 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 17 | 1.39 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 17 | 1.39 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 7 | 1.39 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 7 | 1.39 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 7 | 1.39 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 7 | 1.39 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 7 | 1.39 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 7 | 1.39 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 15 | 1.39 |
| (1,320) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 20 | 1.39 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 2 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 15 | 1.39 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 15 | 1.39 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 15 | 1.39 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 17 | 1.39 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 17 | 1.39 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 17 | 1.39 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 17 | 1.39 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 17 | 1.39 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 17 | 1.39 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 17 | 1.39 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 17 | 1.39 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 17 | 1.39 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 8 | 1.39 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 13 | 1.39 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 16 | 1.39 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 10 | 1.39 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 8 | 1.39 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 18 | 1.39 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 11 | 1.39 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 20 | 1.39 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 20 | 1.39 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 20 | 1.39 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 5 | 1.39 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 5 | 1.39 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 5 | 1.39 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 5 | 1.39 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 5 | 1.39 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 5 | 1.39 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 5 | 1.39 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 5 | 1.39 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 5 | 1.39 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 6 | 1.39 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 6 | 1.39 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 6 | 1.39 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 10 | 1.39 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 10 | 1.39 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 10 | 1.39 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 15 | 1.39 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 3 | 1.39 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 3 | 1.39 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 3 | 1.39 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 15 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 15 | 1.39 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 15 | 1.39 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 15 | 1.39 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 15 | 1.39 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 15 | 1.39 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 19 | 1.39 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 19 | 1.39 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 9 | 1.39 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 18 | 1.39 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 2 | 1.39 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 10 | 1.38 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 10 | 1.38 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 10 | 1.38 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 10 | 1.38 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 10 | 1.38 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 10 | 1.38 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 10 | 1.38 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 10 | 1.38 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 10 | 1.38 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 10 | 1.38 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 20 | 1.38 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 20 | 1.38 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 20 | 1.38 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 20 | 1.38 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 20 | 1.38 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 20 | 1.38 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 8 | 1.38 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 8 | 1.38 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 9 | 1.38 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 16 | 1.38 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 4 | 1.38 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 10 | 1.38 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 5 | 1.38 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 1 | 1.38 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 8 | 1.38 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 1 | 1.38 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 1 | 1.38 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 1 | 1.38 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 3 | 1.38 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 3 | 1.38 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 3 | 1.38 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 4 | 1.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 4 | 1.38 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 18 | 1.38 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 12 | 1.38 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 2 | 1.38 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 12 | 1.38 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 6 | 1.38 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 1 | 1.38 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 1 | 1.38 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 1 | 1.38 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 17 | 1.38 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 17 | 1.38 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 17 | 1.38 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 17 | 1.38 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 17 | 1.38 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 17 | 1.38 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 17 | 1.38 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 17 | 1.38 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 17 | 1.38 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 13 | 1.38 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 1 | 1.38 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 1 | 1.38 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 1 | 1.38 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 1 | 1.38 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 1 | 1.38 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 3 | 1.38 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 3 | 1.38 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 3 | 1.38 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 9 | 1.38 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 9 | 1.38 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 9 | 1.38 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 7 | 1.38 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 7 | 1.38 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 7 | 1.38 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 7 | 1.38 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 7 | 1.38 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 7 | 1.38 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 5 | 1.38 |
| (1,4107) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 5 | 1.38 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 5 | 1.38 |
| (1,4107) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 5 | 1.38 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 5 | 1.38 |
| (1,4107) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 5 | 1.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 7 | 1.38 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 10 | 1.38 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 10 | 1.38 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 10 | 1.38 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 12 | 1.38 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 12 | 1.38 |
| (1,3699) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 12 | 1.38 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 12 | 1.38 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 12 | 1.38 |
| (1,3699) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 12 | 1.38 |
| (1,3627) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 12 | 1.38 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 16 | 1.38 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 16 | 1.38 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 19 | 1.38 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 7 | 1.38 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 19 | 1.38 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 1 | 1.38 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 1 | 1.38 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 10 | 1.38 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 14 | 1.38 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 14 | 1.38 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 1 | 1.38 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 1 | 1.38 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 1 | 1.38 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 10 | 1.38 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 10 | 1.38 |
| (1,3241) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 10 | 1.38 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 18 | 1.38 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 18 | 1.38 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 18 | 1.38 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 2 | 1.38 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 10 | 1.38 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 10 | 1.38 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 10 | 1.38 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 14 | 1.38 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 14 | 1.38 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 5 | 1.38 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 3 | 1.38 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 7 | 1.38 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 11 | 1.38 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 11 | 1.38 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 11 | 1.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 9 | 1.38 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 16 | 1.38 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 16 | 1.38 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 16 | 1.38 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 14 | 1.38 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 14 | 1.38 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 13 | 1.38 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 13 | 1.38 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 13 | 1.38 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 13 | 1.38 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 13 | 1.38 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 13 | 1.38 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 9 | 1.38 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 9 | 1.38 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 2 | 1.38 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 15 | 1.38 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 15 | 1.38 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 15 | 1.38 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 6 | 1.38 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 7 | 1.38 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 11 | 1.38 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 1 | 1.38 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 8 | 1.38 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 15 | 1.38 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 15 | 1.38 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 15 | 1.38 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 15 | 1.38 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 15 | 1.38 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 15 | 1.38 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 13 | 1.38 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 16 | 1.38 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 17 | 1.38 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 3 | 1.38 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 6 | 1.38 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 6 | 1.38 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 6 | 1.38 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 6 | 1.38 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 6 | 1.38 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 6 | 1.38 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 4 | 1.38 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 10 | 1.38 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 10 | 1.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 10 | 1.38 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 14 | 1.38 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 14 | 1.38 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 14 | 1.38 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 10 | 1.38 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 10 | 1.38 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 10 | 1.38 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 10 | 1.38 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 4 | 1.38 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 4 | 1.38 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 4 | 1.38 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 6 | 1.38 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 6 | 1.38 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 6 | 1.38 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 14 | 1.38 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 14 | 1.38 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 9 | 1.38 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 9 | 1.38 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 9 | 1.38 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 15 | 1.38 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 7 | 1.38 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 3 | 1.38 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 3 | 1.38 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 3 | 1.38 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 2 | 1.38 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 7 | 1.38 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 7 | 1.38 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 7 | 1.38 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 7 | 1.38 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 7 | 1.38 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 7 | 1.38 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 7 | 1.38 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 7 | 1.38 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 7 | 1.38 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 19 | 1.38 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 19 | 1.38 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 19 | 1.38 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 6 | 1.38 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 6 | 1.38 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 6 | 1.38 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 6 | 1.38 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 6 | 1.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 6 | 1.38 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 5 | 1.38 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 11 | 1.38 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 11 | 1.38 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 20 | 1.38 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 10 | 1.38 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 9 | 1.38 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 9 | 1.38 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 17 | 1.38 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 1 | 1.38 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 1 | 1.38 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 1 | 1.38 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 1 | 1.38 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 15 | 1.38 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 15 | 1.38 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 15 | 1.38 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 2 | 1.38 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 2 | 1.38 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 2 | 1.38 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 11 | 1.38 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 2 | 1.38 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 2 | 1.38 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 2 | 1.38 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 19 | 1.38 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 19 | 1.38 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 19 | 1.38 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 6 | 1.38 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 7 | 1.38 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 7 | 1.38 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 18 | 1.38 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 20 | 1.38 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 5 | 1.38 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 5 | 1.38 |
| (1,857) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 5 | 1.38 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 18 | 1.38 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 18 | 1.38 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 18 | 1.38 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 16 | 1.38 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 17 | 1.38 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 7 | 1.38 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 11 | 1.38 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 18 | 1.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 18 | 1.38 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 18 | 1.38 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 18 | 1.38 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 18 | 1.38 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 18 | 1.38 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 2 | 1.38 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 2 | 1.38 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 2 | 1.38 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 2 | 1.38 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 2 | 1.38 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 2 | 1.38 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 20 | 1.38 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 20 | 1.38 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 20 | 1.38 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 1 | 1.38 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 1 | 1.38 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 1 | 1.38 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 14 | 1.38 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 14 | 1.38 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 14 | 1.38 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 6 | 1.38 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 6 | 1.38 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 6 | 1.38 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 8 | 1.38 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 8 | 1.38 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 8 | 1.38 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 12 | 1.38 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 12 | 1.38 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 12 | 1.38 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 13 | 1.38 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 13 | 1.38 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 13 | 1.38 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 19 | 1.38 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 19 | 1.38 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 19 | 1.38 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 6 | 1.38 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 6 | 1.38 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 13 | 1.38 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 13 | 1.38 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 17 | 1.38 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 17 | 1.38 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 7 | 1.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 7 | 1.38 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 7 | 1.38 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 8 | 1.38 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 8 | 1.38 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 8 | 1.38 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 19 | 1.38 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 19 | 1.38 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 19 | 1.38 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 14 | 1.38 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 14 | 1.38 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 14 | 1.38 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 14 | 1.38 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 7 | 1.38 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 7 | 1.38 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 7 | 1.38 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 7 | 1.38 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 7 | 1.38 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 7 | 1.38 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 7 | 1.38 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 7 | 1.38 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 7 | 1.38 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 15 | 1.38 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 15 | 1.38 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 15 | 1.38 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 15 | 1.38 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 15 | 1.38 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 15 | 1.38 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 15 | 1.38 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 15 | 1.38 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 15 | 1.38 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 19 | 1.38 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 17 | 1.38 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 17 | 1.38 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 17 | 1.38 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 12 | 1.38 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 9 | 1.38 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 9 | 1.38 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 9 | 1.38 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 8 | 1.38 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 8 | 1.38 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 8 | 1.38 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 19 | 1.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 7 | 1.38 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 5 | 1.38 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 6 | 1.38 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 15 | 1.38 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 13 | 1.38 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 13 | 1.38 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 2 | 1.38 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 12 | 1.38 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 20 | 1.38 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 3 | 1.38 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 3 | 1.38 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 3 | 1.38 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 3 | 1.38 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 3 | 1.38 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 3 | 1.38 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 3 | 1.38 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 3 | 1.38 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 3 | 1.38 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 6 | 1.38 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 6 | 1.38 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 6 | 1.38 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 6 | 1.38 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 6 | 1.38 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 6 | 1.38 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 6 | 1.38 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 6 | 1.38 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 6 | 1.38 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 5 | 1.38 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 5 | 1.38 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 5 | 1.38 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 15 | 1.38 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 15 | 1.38 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 15 | 1.38 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 15 | 1.38 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 15 | 1.38 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 15 | 1.38 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 15 | 1.38 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 15 | 1.38 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 15 | 1.38 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 11 | 1.38 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 9 | 1.38 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 13 | 1.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 5 | 1.38 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 5 | 1.38 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 5 | 1.38 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 12 | 1.38 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 12 | 1.38 |
| (1,22) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 12 | 1.38 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 4 | 1.37 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 4 | 1.37 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 7 | 1.37 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 14 | 1.37 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 4 | 1.37 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 4 | 1.37 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 14 | 1.37 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 14 | 1.37 |
| (3,179) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 18 | 1.37 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 7 | 1.37 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 7 | 1.37 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 9 | 1.37 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 9 | 1.37 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 5 | 1.37 |
| (1,7735) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 6 | 1.37 |
| (1,7735) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 6 | 1.37 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 4 | 1.37 |
| (1,7330) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 9 | 1.37 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 20 | 1.37 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 6 | 1.37 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 6 | 1.37 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 6 | 1.37 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 6 | 1.37 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 2 | 1.37 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 2 | 1.37 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 2 | 1.37 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 11 | 1.37 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 4 | 1.37 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 10 | 1.37 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 5 | 1.37 |
| (1,6532) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 10 | 1.37 |
| (1,6532) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 10 | 1.37 |
| (1,6532) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 10 | 1.37 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 10 | 1.37 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 4 | 1.37 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 4 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 4 | 1.37 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 5 | 1.37 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 20 | 1.37 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 9 | 1.37 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 9 | 1.37 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 3 | 1.37 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 3 | 1.37 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 4 | 1.37 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 4 | 1.37 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 9 | 1.37 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 9 | 1.37 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 16 | 1.37 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 16 | 1.37 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 7 | 1.37 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 15 | 1.37 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 1.37 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 10 | 1.37 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 10 | 1.37 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 10 | 1.37 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 17 | 1.37 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 1 | 1.37 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 4 | 1.37 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 4 | 1.37 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 4 | 1.37 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 4 | 1.37 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 4 | 1.37 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 4 | 1.37 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 4 | 1.37 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 4 | 1.37 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 4 | 1.37 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 2 | 1.37 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 16 | 1.37 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 6 | 1.37 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 6 | 1.37 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 8 | 1.37 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 8 | 1.37 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 8 | 1.37 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 3 | 1.37 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 3 | 1.37 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 3 | 1.37 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 3 | 1.37 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 3 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 3 | 1.37 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 11 | 1.37 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 11 | 1.37 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 11 | 1.37 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 11 | 1.37 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 11 | 1.37 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 11 | 1.37 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 12 | 1.37 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 12 | 1.37 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 15 | 1.37 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 15 | 1.37 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 15 | 1.37 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 15 | 1.37 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 15 | 1.37 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 15 | 1.37 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 16 | 1.37 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 16 | 1.37 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 1 | 1.37 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 1 | 1.37 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 19 | 1.37 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 19 | 1.37 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 19 | 1.37 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 6 | 1.37 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 6 | 1.37 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 6 | 1.37 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 6 | 1.37 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 6 | 1.37 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 6 | 1.37 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 11 | 1.37 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 11 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 13 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 13 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 13 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 13 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 13 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 13 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 15 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 15 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 15 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 15 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 15 | 1.37 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 15 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 5 | 1.37 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 5 | 1.37 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 17 | 1.37 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 17 | 1.37 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 17 | 1.37 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 17 | 1.37 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 17 | 1.37 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 17 | 1.37 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 19 | 1.37 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 19 | 1.37 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 19 | 1.37 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 19 | 1.37 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 19 | 1.37 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 19 | 1.37 |
| (1,3753) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 7 | 1.37 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 2 | 1.37 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 2 | 1.37 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 2 | 1.37 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 20 | 1.37 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 20 | 1.37 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 20 | 1.37 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 20 | 1.37 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 20 | 1.37 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 20 | 1.37 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 16 | 1.37 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 16 | 1.37 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 8 | 1.37 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 8 | 1.37 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 8 | 1.37 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 14 | 1.37 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 2 | 1.37 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 2 | 1.37 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 2 | 1.37 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 8 | 1.37 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 8 | 1.37 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 4 | 1.37 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 17 | 1.37 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 3 | 1.37 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 15 | 1.37 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 15 | 1.37 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 15 | 1.37 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 20 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 2 | 1.37 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 4 | 1.37 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 4 | 1.37 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 4 | 1.37 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 3 | 1.37 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 3 | 1.37 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 17 | 1.37 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 17 | 1.37 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 17 | 1.37 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 17 | 1.37 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 11 | 1.37 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 11 | 1.37 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 11 | 1.37 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 2 | 1.37 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 2 | 1.37 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 2 | 1.37 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 19 | 1.37 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 16 | 1.37 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 6 | 1.37 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 6 | 1.37 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 5 | 1.37 |
| (1,2383) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 17 | 1.37 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 5 | 1.37 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 9 | 1.37 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 19 | 1.37 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 16 | 1.37 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 6 | 1.37 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 15 | 1.37 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 2 | 1.37 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 8 | 1.37 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 9 | 1.37 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 11 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 8 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 8 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 8 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 8 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 8 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 8 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 8 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 8 | 1.37 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 8 | 1.37 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 9 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 5 | 1.37 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 16 | 1.37 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 16 | 1.37 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 16 | 1.37 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 16 | 1.37 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 8 | 1.37 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 8 | 1.37 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 20 | 1.37 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 20 | 1.37 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 20 | 1.37 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 9 | 1.37 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 9 | 1.37 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 9 | 1.37 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 19 | 1.37 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 19 | 1.37 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 19 | 1.37 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 19 | 1.37 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 19 | 1.37 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 19 | 1.37 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 8 | 1.37 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 8 | 1.37 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 8 | 1.37 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 6 | 1.37 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 6 | 1.37 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 6 | 1.37 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 3 | 1.37 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 3 | 1.37 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 1 | 1.37 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 1 | 1.37 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 1 | 1.37 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 1 | 1.37 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 1 | 1.37 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 1 | 1.37 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 14 | 1.37 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 3 | 1.37 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 9 | 1.37 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 8 | 1.37 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 13 | 1.37 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 13 | 1.37 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 1 | 1.37 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 6 | 1.37 |
| (1,1493) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 3 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1493) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 3 | 1.37 |
| (1,1493) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 3 | 1.37 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 6 | 1.37 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 6 | 1.37 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 6 | 1.37 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 8 | 1.37 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 8 | 1.37 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 8 | 1.37 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 1.37 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 1.37 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 1.37 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 1.37 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 19 | 1.37 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 5 | 1.37 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 13 | 1.37 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 10 | 1.37 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 10 | 1.37 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 10 | 1.37 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 15 | 1.37 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 1 | 1.37 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 17 | 1.37 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 10 | 1.37 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 10 | 1.37 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 10 | 1.37 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 7 | 1.37 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 7 | 1.37 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 7 | 1.37 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 10 | 1.37 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 2 | 1.37 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 2 | 1.37 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 2 | 1.37 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 2 | 1.37 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 2 | 1.37 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 2 | 1.37 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 10 | 1.37 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 10 | 1.37 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 10 | 1.37 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 1 | 1.37 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 7 | 1.37 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 2 | 1.37 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 20 | 1.37 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 20 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 20 | 1.37 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 4 | 1.37 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 9 | 1.37 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 9 | 1.37 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 9 | 1.37 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 9 | 1.37 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 9 | 1.37 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 9 | 1.37 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 9 | 1.37 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 9 | 1.37 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 9 | 1.37 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 13 | 1.37 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 13 | 1.37 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 12 | 1.37 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 8 | 1.37 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 12 | 1.37 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 18 | 1.37 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 18 | 1.37 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 18 | 1.37 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 5 | 1.37 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 5 | 1.37 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 5 | 1.37 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 5 | 1.37 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 5 | 1.37 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 5 | 1.37 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 5 | 1.37 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 5 | 1.37 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 5 | 1.37 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 8 | 1.37 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 19 | 1.37 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 19 | 1.37 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 19 | 1.37 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 11 | 1.37 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 7 | 1.37 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 11 | 1.37 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 20 | 1.37 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 17 | 1.37 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 14 | 1.37 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 5 | 1.37 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 5 | 1.37 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 1 | 1.37 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 1 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 1 | 1.37 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 1 | 1.37 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 1 | 1.37 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 1 | 1.37 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 14 | 1.37 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 14 | 1.37 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 14 | 1.37 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 14 | 1.37 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 14 | 1.37 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 14 | 1.37 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 14 | 1.37 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 14 | 1.37 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 14 | 1.37 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 10 | 1.37 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 10 | 1.37 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 10 | 1.37 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 4 | 1.37 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 4 | 1.37 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 4 | 1.37 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 4 | 1.37 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 4 | 1.37 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 4 | 1.37 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 4 | 1.37 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 4 | 1.37 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 4 | 1.37 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 2 | 1.37 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 1 | 1.37 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 9 | 1.37 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 8 | 1.37 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 8 | 1.37 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 16 | 1.37 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 17 | 1.36 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 17 | 1.36 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 14 | 1.36 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 8 | 1.36 |
| (4,162) | 1:98:A:SER:CB | 1:26:A:ASN:H | 13 | 1.36 |
| (4,157) | 1:98:A:SER:CB | 1:20:A:GLY:H | 2 | 1.36 |
| (4,60) | 1:15:A:MET:CB | 1:118:A:ALA:H | 19 | 1.36 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 7 | 1.36 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 5 | 1.36 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 5 | 1.36 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 5 | 1.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 5 | 1.36 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 8 | 1.36 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 8 | 1.36 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 8 | 1.36 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 8 | 1.36 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 17 | 1.36 |
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 6 | 1.36 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 6 | 1.36 |
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 6 | 1.36 |
| (3,210) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 14 | 1.36 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 7 | 1.36 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 7 | 1.36 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 7 | 1.36 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 7 | 1.36 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 7 | 1.36 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 7 | 1.36 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 7 | 1.36 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 7 | 1.36 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 7 | 1.36 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 20 | 1.36 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 20 | 1.36 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 20 | 1.36 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 20 | 1.36 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 20 | 1.36 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 20 | 1.36 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 10 | 1.36 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 10 | 1.36 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 3 | 1.36 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 3 | 1.36 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 13 | 1.36 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 9 | 1.36 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 1 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 1 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 1 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 2 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 2 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 5 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 5 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 6 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 6 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 7 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 7 | 1.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 8 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 8 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 10 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 10 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 11 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 11 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 12 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 12 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 13 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 13 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 14 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 14 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 15 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 15 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 17 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 17 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 18 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 18 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 19 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 19 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB2 | 1:125:A:PHE:HZ | 20 | 1.36 |
| (1,5935) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HZ | 20 | 1.36 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 16 | 1.36 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 12 | 1.36 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 12 | 1.36 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 12 | 1.36 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 16 | 1.36 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 16 | 1.36 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 16 | 1.36 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 9 | 1.36 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 11 | 1.36 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 1 | 1.36 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 1 | 1.36 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 1 | 1.36 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 7 | 1.36 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 5 | 1.36 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 5 | 1.36 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 5 | 1.36 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 5 | 1.36 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 5 | 1.36 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 5 | 1.36 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 5 | 1.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 5 | 1.36 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 5 | 1.36 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 6 | 1.36 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 19 | 1.36 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 3 | 1.36 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 3 | 1.36 |
| (1,4563) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 3 | 1.36 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 19 | 1.36 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 6 | 1.36 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 6 | 1.36 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 17 | 1.36 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 17 | 1.36 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 1 | 1.36 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 5 | 1.36 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 6 | 1.36 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 6 | 1.36 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 17 | 1.36 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 17 | 1.36 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 13 | 1.36 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 8 | 1.36 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 8 | 1.36 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 15 | 1.36 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 15 | 1.36 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 19 | 1.36 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 19 | 1.36 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 5 | 1.36 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 1.36 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 1.36 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 1.36 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 12 | 1.36 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 10 | 1.36 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 11 | 1.36 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 11 | 1.36 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 11 | 1.36 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 11 | 1.36 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 11 | 1.36 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 11 | 1.36 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 12 | 1.36 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 12 | 1.36 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 12 | 1.36 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 18 | 1.36 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 18 | 1.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 18 | 1.36 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 3 | 1.36 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 5 | 1.36 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 5 | 1.36 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 5 | 1.36 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 10 | 1.36 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 10 | 1.36 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 10 | 1.36 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 2 | 1.36 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 2 | 1.36 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 4 | 1.36 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 12 | 1.36 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 14 | 1.36 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 20 | 1.36 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 14 | 1.36 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 3 | 1.36 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 3 | 1.36 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 3 | 1.36 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 2 | 1.36 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 2 | 1.36 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 2 | 1.36 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 3 | 1.36 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 3 | 1.36 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 3 | 1.36 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 5 | 1.36 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 20 | 1.36 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 20 | 1.36 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 20 | 1.36 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 3 | 1.36 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 3 | 1.36 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 1 | 1.36 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 4 | 1.36 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 4 | 1.36 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 4 | 1.36 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 4 | 1.36 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 4 | 1.36 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 4 | 1.36 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 4 | 1.36 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 4 | 1.36 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 6 | 1.36 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 6 | 1.36 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 19 | 1.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 15 | 1.36 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 9 | 1.36 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 13 | 1.36 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 13 | 1.36 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 13 | 1.36 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 13 | 1.36 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 3 | 1.36 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 19 | 1.36 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 7 | 1.36 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 18 | 1.36 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 3 | 1.36 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 16 | 1.36 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 10 | 1.36 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 6 | 1.36 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 19 | 1.36 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 16 | 1.36 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 16 | 1.36 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 16 | 1.36 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 7 | 1.36 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 15 | 1.36 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 7 | 1.36 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 7 | 1.36 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 7 | 1.36 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 16 | 1.36 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 16 | 1.36 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 16 | 1.36 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 14 | 1.36 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 19 | 1.36 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 19 | 1.36 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 19 | 1.36 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 19 | 1.36 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 2 | 1.36 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 2 | 1.36 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 2 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 4 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 4 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 4 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 9 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 9 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 9 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 15 | 1.36 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 15 | 1.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 15 | 1.36 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 16 | 1.36 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 16 | 1.36 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 1 | 1.36 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 1 | 1.36 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 1 | 1.36 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 5 | 1.36 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 17 | 1.36 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 17 | 1.36 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 17 | 1.36 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 6 | 1.36 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 11 | 1.36 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 17 | 1.36 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 17 | 1.36 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 17 | 1.36 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 15 | 1.36 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 15 | 1.36 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 15 | 1.36 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 8 | 1.36 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 8 | 1.36 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 8 | 1.36 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 9 | 1.36 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 9 | 1.36 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 9 | 1.36 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 7 | 1.36 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 1 | 1.36 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 1.36 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 1 | 1.36 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 16 | 1.36 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 16 | 1.36 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 20 | 1.36 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 20 | 1.36 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 20 | 1.36 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 20 | 1.36 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 20 | 1.36 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 20 | 1.36 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 20 | 1.36 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 20 | 1.36 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 20 | 1.36 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 9 | 1.36 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 9 | 1.36 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 9 | 1.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 4 | 1.36 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 4 | 1.36 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 16 | 1.36 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 16 | 1.36 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 16 | 1.36 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 16 | 1.36 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 9 | 1.36 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 9 | 1.36 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 1 | 1.36 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 6 | 1.36 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 6 | 1.36 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 6 | 1.36 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 2 | 1.36 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 1 | 1.36 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 5 | 1.36 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 9 | 1.36 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 14 | 1.36 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 1.36 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 11 | 1.36 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 11 | 1.36 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 11 | 1.36 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 16 | 1.36 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 16 | 1.36 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 16 | 1.36 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 12 | 1.36 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 12 | 1.36 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 12 | 1.36 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 7 | 1.36 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 19 | 1.36 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 15 | 1.36 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 15 | 1.36 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 15 | 1.36 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 15 | 1.36 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 15 | 1.36 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 15 | 1.36 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 8 | 1.36 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 8 | 1.36 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 8 | 1.36 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 8 | 1.36 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 8 | 1.36 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 8 | 1.36 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 14 | 1.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 14 | 1.36 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 14 | 1.36 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 14 | 1.36 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 14 | 1.36 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 14 | 1.36 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 5 | 1.36 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 5 | 1.36 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 5 | 1.36 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 20 | 1.36 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 5 | 1.36 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 5 | 1.36 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 5 | 1.36 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 9 | 1.36 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 10 | 1.36 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 10 | 1.36 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 11 | 1.36 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 1.36 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 6 | 1.36 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 6 | 1.36 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 6 | 1.36 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 14 | 1.36 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 2 | 1.36 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 19 | 1.36 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 6 | 1.36 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 6 | 1.36 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 3 | 1.36 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 3 | 1.36 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 3 | 1.36 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 9 | 1.36 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 9 | 1.36 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 9 | 1.36 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 14 | 1.36 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 12 | 1.36 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 12 | 1.36 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 12 | 1.36 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 9 | 1.36 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 9 | 1.36 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 9 | 1.36 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 3 | 1.36 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 13 | 1.36 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 5 | 1.36 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 10 | 1.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 12 | 1.36 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 18 | 1.36 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 18 | 1.36 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 18 | 1.36 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 6 | 1.36 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 19 | 1.36 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 19 | 1.36 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 18 | 1.36 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 14 | 1.36 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 14 | 1.36 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 7 | 1.35 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 16 | 1.35 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 2 | 1.35 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 9 | 1.35 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 9 | 1.35 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 15 | 1.35 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 15 | 1.35 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 15 | 1.35 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 15 | 1.35 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 11 | 1.35 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 11 | 1.35 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 17 | 1.35 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 17 | 1.35 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 1 | 1.35 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 16 | 1.35 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 16 | 1.35 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 16 | 1.35 |
| (1,8877) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 5 | 1.35 |
| (1,8877) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 5 | 1.35 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 11 | 1.35 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 11 | 1.35 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 11 | 1.35 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 11 | 1.35 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 6 | 1.35 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 1 | 1.35 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 16 | 1.35 |
| (1,7195) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 13 | 1.35 |
| (1,7195) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 13 | 1.35 |
| (1,7195) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 13 | 1.35 |
| (1,7195) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 13 | 1.35 |
| (1,7195) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 13 | 1.35 |
| (1,7195) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 13 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7195) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 13 | 1.35 |
| (1,7195) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 13 | 1.35 |
| (1,7195) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 13 | 1.35 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 17 | 1.35 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 18 | 1.35 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 18 | 1.35 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 18 | 1.35 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 15 | 1.35 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 15 | 1.35 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 11 | 1.35 |
| (1,6634) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 14 | 1.35 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 11 | 1.35 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 11 | 1.35 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 11 | 1.35 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 15 | 1.35 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 13 | 1.35 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 13 | 1.35 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 13 | 1.35 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 11 | 1.35 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 11 | 1.35 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 11 | 1.35 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 11 | 1.35 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 11 | 1.35 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 11 | 1.35 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 11 | 1.35 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 11 | 1.35 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 11 | 1.35 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 17 | 1.35 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 17 | 1.35 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 14 | 1.35 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 8 | 1.35 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 3 | 1.35 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 13 | 1.35 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 18 | 1.35 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 14 | 1.35 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 14 | 1.35 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 14 | 1.35 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 14 | 1.35 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 20 | 1.35 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 19 | 1.35 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 10 | 1.35 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 17 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 8 | 1.35 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 8 | 1.35 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 8 | 1.35 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 2 | 1.35 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 8 | 1.35 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 8 | 1.35 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 8 | 1.35 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 17 | 1.35 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 3 | 1.35 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 3 | 1.35 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 4 | 1.35 |
| (1,4461) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 4 | 1.35 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 4 | 1.35 |
| (1,4461) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 4 | 1.35 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 5 | 1.35 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 5 | 1.35 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 5 | 1.35 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 17 | 1.35 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 17 | 1.35 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 17 | 1.35 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 4 | 1.35 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 10 | 1.35 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 16 | 1.35 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 17 | 1.35 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 20 | 1.35 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 10 | 1.35 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 10 | 1.35 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 15 | 1.35 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 15 | 1.35 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 7 | 1.35 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 7 | 1.35 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 13 | 1.35 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 13 | 1.35 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 4 | 1.35 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 4 | 1.35 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 4 | 1.35 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 14 | 1.35 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 14 | 1.35 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 14 | 1.35 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 1.35 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 1 | 1.35 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 1 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 1 | 1.35 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 1 | 1.35 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 1 | 1.35 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 1 | 1.35 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 14 | 1.35 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 14 | 1.35 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 14 | 1.35 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 19 | 1.35 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 19 | 1.35 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 19 | 1.35 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 19 | 1.35 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 12 | 1.35 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 12 | 1.35 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 18 | 1.35 |
| (1,3741) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 14 | 1.35 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 17 | 1.35 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 17 | 1.35 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 17 | 1.35 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 8 | 1.35 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 8 | 1.35 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 8 | 1.35 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 8 | 1.35 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 8 | 1.35 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 8 | 1.35 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 16 | 1.35 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 16 | 1.35 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 3 | 1.35 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 3 | 1.35 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 3 | 1.35 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 6 | 1.35 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 1 | 1.35 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 12 | 1.35 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 10 | 1.35 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 4 | 1.35 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 18 | 1.35 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 2 | 1.35 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 2 | 1.35 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 14 | 1.35 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 14 | 1.35 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 14 | 1.35 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 3 | 1.35 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 3 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 3 | 1.35 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 12 | 1.35 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 12 | 1.35 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 17 | 1.35 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 17 | 1.35 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 17 | 1.35 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 20 | 1.35 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 11 | 1.35 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 6 | 1.35 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 6 | 1.35 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 6 | 1.35 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 19 | 1.35 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 8 | 1.35 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 8 | 1.35 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 12 | 1.35 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 12 | 1.35 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 18 | 1.35 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 6 | 1.35 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 6 | 1.35 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 10 | 1.35 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 10 | 1.35 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 10 | 1.35 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 7 | 1.35 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 16 | 1.35 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 20 | 1.35 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 11 | 1.35 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 2 | 1.35 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 2 | 1.35 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 2 | 1.35 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 6 | 1.35 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 6 | 1.35 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 6 | 1.35 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 8 | 1.35 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 3 | 1.35 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 3 | 1.35 |
| (1,2499) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 14 | 1.35 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 8 | 1.35 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 9 | 1.35 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 9 | 1.35 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 9 | 1.35 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 10 | 1.35 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 10 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 10 | 1.35 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 15 | 1.35 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 3 | 1.35 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 3 | 1.35 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 3 | 1.35 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 6 | 1.35 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 14 | 1.35 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 14 | 1.35 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 14 | 1.35 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 2 | 1.35 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 2 | 1.35 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 2 | 1.35 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 1 | 1.35 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 1 | 1.35 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 1 | 1.35 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 7 | 1.35 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 7 | 1.35 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 7 | 1.35 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 7 | 1.35 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 1 | 1.35 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 1 | 1.35 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 1 | 1.35 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 14 | 1.35 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 17 | 1.35 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 1 | 1.35 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 17 | 1.35 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 17 | 1.35 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 17 | 1.35 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 6 | 1.35 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 6 | 1.35 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 13 | 1.35 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 13 | 1.35 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 13 | 1.35 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 18 | 1.35 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 18 | 1.35 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 18 | 1.35 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 10 | 1.35 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 7 | 1.35 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 7 | 1.35 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 7 | 1.35 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 2 | 1.35 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 1.35 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 1.35 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 11 | 1.35 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 11 | 1.35 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 19 | 1.35 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 19 | 1.35 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 19 | 1.35 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 16 | 1.35 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 16 | 1.35 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 11 | 1.35 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 15 | 1.35 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 15 | 1.35 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 15 | 1.35 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 15 | 1.35 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 15 | 1.35 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 15 | 1.35 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 15 | 1.35 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 15 | 1.35 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 15 | 1.35 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 20 | 1.35 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 20 | 1.35 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 20 | 1.35 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 19 | 1.35 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 19 | 1.35 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 19 | 1.35 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 19 | 1.35 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 19 | 1.35 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 19 | 1.35 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 3 | 1.35 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 10 | 1.35 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 14 | 1.35 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 1 | 1.35 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 7 | 1.35 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 1.35 |
| (1,1353) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 9 | 1.35 |
| (1,1353) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 9 | 1.35 |
| (1,1353) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 9 | 1.35 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 2 | 1.35 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 2 | 1.35 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 2 | 1.35 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 3 | 1.35 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 3 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 3 | 1.35 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 5 | 1.35 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 5 | 1.35 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 3 | 1.35 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 15 | 1.35 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 15 | 1.35 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 15 | 1.35 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 9 | 1.35 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 18 | 1.35 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 15 | 1.35 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 15 | 1.35 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 15 | 1.35 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 9 | 1.35 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 9 | 1.35 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 9 | 1.35 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 18 | 1.35 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 18 | 1.35 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 18 | 1.35 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 6 | 1.35 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 14 | 1.35 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 14 | 1.35 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 14 | 1.35 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 16 | 1.35 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 16 | 1.35 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 16 | 1.35 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 3 | 1.35 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 3 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 2 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 2 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 2 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 10 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 10 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 10 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 14 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 14 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 14 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 18 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 18 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 18 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 19 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 19 | 1.35 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 19 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 4 | 1.35 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 19 | 1.35 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 19 | 1.35 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 19 | 1.35 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 19 | 1.35 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 1 | 1.35 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 1 | 1.35 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 1 | 1.35 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 17 | 1.35 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 4 | 1.35 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 15 | 1.35 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 3 | 1.35 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 8 | 1.35 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 10 | 1.35 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 2 | 1.35 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 2 | 1.35 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 14 | 1.35 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 14 | 1.35 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 14 | 1.35 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 18 | 1.35 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 18 | 1.35 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 18 | 1.35 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 18 | 1.35 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 18 | 1.35 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 18 | 1.35 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 7 | 1.35 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 13 | 1.35 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 11 | 1.35 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 11 | 1.35 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 15 | 1.35 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 15 | 1.35 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 8 | 1.35 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 2 | 1.35 |
| (4,172) | 1:98:A:SER:CB | 1:44:A:GLY:H | 4 | 1.34 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 4 | 1.34 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 16 | 1.34 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 16 | 1.34 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 16 | 1.34 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 7 | 1.34 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 5 | 1.34 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 5 | 1.34 |
| (3,257) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 8 | 1.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 7 | 1.34 |
| (3,135) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 9 | 1.34 |
| (3,135) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 9 | 1.34 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 10 | 1.34 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 10 | 1.34 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 11 | 1.34 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 11 | 1.34 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 11 | 1.34 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 11 | 1.34 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 11 | 1.34 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 11 | 1.34 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 7 | 1.34 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 8 | 1.34 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 17 | 1.34 |
| (1,7962) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 4 | 1.34 |
| (1,7962) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 4 | 1.34 |
| (1,7962) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 4 | 1.34 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 1 | 1.34 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 5 | 1.34 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 2 | 1.34 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 2 | 1.34 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 2 | 1.34 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 17 | 1.34 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 18 | 1.34 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 18 | 1.34 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 9 | 1.34 |
| (1,6530) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 14 | 1.34 |
| (1,6530) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 14 | 1.34 |
| (1,6530) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 14 | 1.34 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 14 | 1.34 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 14 | 1.34 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 14 | 1.34 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 7 | 1.34 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 2 | 1.34 |
| (1,5963) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 12 | 1.34 |
| (1,5963) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 13 | 1.34 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 18 | 1.34 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 16 | 1.34 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 16 | 1.34 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 16 | 1.34 |
| (1,5877) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 18 | 1.34 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 2 | 1.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 1 | 1.34 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 1 | 1.34 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 1 | 1.34 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 2 | 1.34 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 16 | 1.34 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 6 | 1.34 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 17 | 1.34 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 17 | 1.34 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 17 | 1.34 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 3 | 1.34 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 2 | 1.34 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 17 | 1.34 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 13 | 1.34 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 17 | 1.34 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 17 | 1.34 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 13 | 1.34 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 7 | 1.34 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 7 | 1.34 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 16 | 1.34 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 16 | 1.34 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 16 | 1.34 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 16 | 1.34 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 16 | 1.34 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 16 | 1.34 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 15 | 1.34 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 1 | 1.34 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 1 | 1.34 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 18 | 1.34 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 18 | 1.34 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 18 | 1.34 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 18 | 1.34 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 18 | 1.34 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 8 | 1.34 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 12 | 1.34 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 9 | 1.34 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 9 | 1.34 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 9 | 1.34 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 9 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 1 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 1 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 1 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 1 | 1.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 1 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 1 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 16 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 16 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 16 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 16 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 16 | 1.34 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 16 | 1.34 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 12 | 1.34 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 17 | 1.34 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 17 | 1.34 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 11 | 1.34 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 11 | 1.34 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 11 | 1.34 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 11 | 1.34 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 11 | 1.34 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 11 | 1.34 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 11 | 1.34 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 11 | 1.34 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 11 | 1.34 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 15 | 1.34 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 15 | 1.34 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 15 | 1.34 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 15 | 1.34 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 15 | 1.34 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 15 | 1.34 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 3 | 1.34 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 3 | 1.34 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 3 | 1.34 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 18 | 1.34 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 15 | 1.34 |
| (1,3853) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 15 | 1.34 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 17 | 1.34 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 17 | 1.34 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 17 | 1.34 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 4 | 1.34 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 9 | 1.34 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 6 | 1.34 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 8 | 1.34 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 9 | 1.34 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 5 | 1.34 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 5 | 1.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 5 | 1.34 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 5 | 1.34 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 5 | 1.34 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 5 | 1.34 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 2 | 1.34 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 16 | 1.34 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 16 | 1.34 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 16 | 1.34 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 5 | 1.34 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 10 | 1.34 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 15 | 1.34 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 12 | 1.34 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 12 | 1.34 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 19 | 1.34 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 3 | 1.34 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 3 | 1.34 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 3 | 1.34 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 8 | 1.34 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 5 | 1.34 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 16 | 1.34 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 16 | 1.34 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 16 | 1.34 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 11 | 1.34 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 9 | 1.34 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 19 | 1.34 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 6 | 1.34 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 6 | 1.34 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 4 | 1.34 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 10 | 1.34 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 13 | 1.34 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 20 | 1.34 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 6 | 1.34 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 12 | 1.34 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 12 | 1.34 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 12 | 1.34 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 3 | 1.34 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 3 | 1.34 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 3 | 1.34 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 12 | 1.34 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 12 | 1.34 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 12 | 1.34 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 2 | 1.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 6 | 1.34 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 8 | 1.34 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 13 | 1.34 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 11 | 1.34 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 11 | 1.34 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 11 | 1.34 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 19 | 1.34 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 19 | 1.34 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 19 | 1.34 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 1 | 1.34 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 1 | 1.34 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 1 | 1.34 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 17 | 1.34 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 17 | 1.34 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 17 | 1.34 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 5 | 1.34 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 13 | 1.34 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 13 | 1.34 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 13 | 1.34 |
| (1,1813) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 8 | 1.34 |
| (1,1813) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 8 | 1.34 |
| (1,1813) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 8 | 1.34 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 18 | 1.34 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 18 | 1.34 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 18 | 1.34 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 17 | 1.34 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 17 | 1.34 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 17 | 1.34 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 4 | 1.34 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 4 | 1.34 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 17 | 1.34 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 17 | 1.34 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 17 | 1.34 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 19 | 1.34 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 19 | 1.34 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 19 | 1.34 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 12 | 1.34 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 12 | 1.34 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 12 | 1.34 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 15 | 1.34 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 15 | 1.34 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 1 | 1.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 10 | 1.34 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 7 | 1.34 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 5 | 1.34 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 9 | 1.34 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 4 | 1.34 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 18 | 1.34 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 5 | 1.34 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 5 | 1.34 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 2 | 1.34 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 2 | 1.34 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 9 | 1.34 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 9 | 1.34 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 16 | 1.34 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 3 | 1.34 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 3 | 1.34 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 3 | 1.34 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 3 | 1.34 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 3 | 1.34 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 3 | 1.34 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 12 | 1.34 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 20 | 1.34 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 20 | 1.34 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 20 | 1.34 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 13 | 1.34 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 13 | 1.34 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 13 | 1.34 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 13 | 1.34 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 13 | 1.34 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 13 | 1.34 |
| (1,1257) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 10 | 1.34 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 8 | 1.34 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 8 | 1.34 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 8 | 1.34 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 14 | 1.34 |
| (1,987) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 4 | 1.34 |
| (1,987) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 4 | 1.34 |
| (1,987) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 4 | 1.34 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 10 | 1.34 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 10 | 1.34 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 10 | 1.34 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 15 | 1.34 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 15 | 1.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 15 | 1.34 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 15 | 1.34 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 15 | 1.34 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 15 | 1.34 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 20 | 1.34 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 20 | 1.34 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 20 | 1.34 |
| (1,831) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 15 | 1.34 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 20 | 1.34 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 1 | 1.34 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 14 | 1.34 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 18 | 1.34 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 19 | 1.34 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 19 | 1.34 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 19 | 1.34 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 7 | 1.34 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 7 | 1.34 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 7 | 1.34 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 7 | 1.34 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 7 | 1.34 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 7 | 1.34 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 18 | 1.34 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 16 | 1.34 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 16 | 1.34 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 16 | 1.34 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 9 | 1.34 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 9 | 1.34 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 9 | 1.34 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 20 | 1.34 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 6 | 1.34 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 19 | 1.34 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 19 | 1.34 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 4 | 1.34 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 4 | 1.34 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 13 | 1.34 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 13 | 1.34 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 13 | 1.34 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 1 | 1.34 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 1 | 1.34 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 1 | 1.34 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 10 | 1.34 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 6 | 1.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 20 | 1.34 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 20 | 1.34 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 20 | 1.34 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 4 | 1.34 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 10 | 1.34 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 10 | 1.34 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 10 | 1.34 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 10 | 1.34 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 10 | 1.34 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 10 | 1.34 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 10 | 1.34 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 10 | 1.34 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 10 | 1.34 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 10 | 1.34 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 12 | 1.34 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 12 | 1.34 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 12 | 1.34 |
| (1,115) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 16 | 1.34 |
| (1,115) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 16 | 1.34 |
| (1,115) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 16 | 1.34 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 17 | 1.34 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 4 | 1.34 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 9 | 1.34 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 9 | 1.34 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 9 | 1.34 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 14 | 1.34 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 14 | 1.34 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 14 | 1.34 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 13 | 1.34 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 10 | 1.34 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 10 | 1.34 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 12 | 1.33 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 3 | 1.33 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 5 | 1.33 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 4 | 1.33 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 4 | 1.33 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 11 | 1.33 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 1 | 1.33 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 1 | 1.33 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 1 | 1.33 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 5 | 1.33 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 5 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 5 | 1.33 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 5 | 1.33 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 5 | 1.33 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 5 | 1.33 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 14 | 1.33 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 14 | 1.33 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 8 | 1.33 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 8 | 1.33 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 8 | 1.33 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 8 | 1.33 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 8 | 1.33 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 8 | 1.33 |
| (1,8711) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 2 | 1.33 |
| (1,8711) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 2 | 1.33 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 19 | 1.33 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 19 | 1.33 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 19 | 1.33 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 19 | 1.33 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 19 | 1.33 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 19 | 1.33 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 20 | 1.33 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 20 | 1.33 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 13 | 1.33 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 8 | 1.33 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 20 | 1.33 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 11 | 1.33 |
| (1,7583) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 16 | 1.33 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 19 | 1.33 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 17 | 1.33 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 17 | 1.33 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 17 | 1.33 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 8 | 1.33 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 10 | 1.33 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 18 | 1.33 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 18 | 1.33 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 13 | 1.33 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 7 | 1.33 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 10 | 1.33 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 10 | 1.33 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 10 | 1.33 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 10 | 1.33 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 10 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 10 | 1.33 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 10 | 1.33 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 10 | 1.33 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 10 | 1.33 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 17 | 1.33 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 12 | 1.33 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 12 | 1.33 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 12 | 1.33 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 12 | 1.33 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 12 | 1.33 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 12 | 1.33 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 12 | 1.33 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 12 | 1.33 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 12 | 1.33 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 18 | 1.33 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 4 | 1.33 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 4 | 1.33 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 4 | 1.33 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 4 | 1.33 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 4 | 1.33 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 4 | 1.33 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 16 | 1.33 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 3 | 1.33 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 18 | 1.33 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 7 | 1.33 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 20 | 1.33 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 17 | 1.33 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 17 | 1.33 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 17 | 1.33 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 4 | 1.33 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 4 | 1.33 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 4 | 1.33 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 4 | 1.33 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 4 | 1.33 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 4 | 1.33 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 4 | 1.33 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 4 | 1.33 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 4 | 1.33 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 11 | 1.33 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 11 | 1.33 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 11 | 1.33 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 11 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 11 | 1.33 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 11 | 1.33 |
| (1,4489) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 17 | 1.33 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 20 | 1.33 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 20 | 1.33 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 10 | 1.33 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 10 | 1.33 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 10 | 1.33 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 11 | 1.33 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 11 | 1.33 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 11 | 1.33 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 5 | 1.33 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 5 | 1.33 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 5 | 1.33 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 5 | 1.33 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 5 | 1.33 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 5 | 1.33 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 13 | 1.33 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 1.33 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 1.33 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 14 | 1.33 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 8 | 1.33 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 3 | 1.33 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 3 | 1.33 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 3 | 1.33 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 3 | 1.33 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 3 | 1.33 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 1 | 1.33 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 1 | 1.33 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 16 | 1.33 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 16 | 1.33 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 3 | 1.33 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 3 | 1.33 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 16 | 1.33 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 16 | 1.33 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 20 | 1.33 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 20 | 1.33 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 7 | 1.33 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 7 | 1.33 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 7 | 1.33 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 7 | 1.33 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 7 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 7 | 1.33 |
| (1,3951) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 18 | 1.33 |
| (1,3951) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 18 | 1.33 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 1 | 1.33 |
| (1,3751) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 7 | 1.33 |
| (1,3751) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 7 | 1.33 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 1 | 1.33 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 1 | 1.33 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 1 | 1.33 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 1 | 1.33 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 1 | 1.33 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 1 | 1.33 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 18 | 1.33 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 18 | 1.33 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 18 | 1.33 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 18 | 1.33 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 6 | 1.33 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 6 | 1.33 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 10 | 1.33 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 2 | 1.33 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 2 | 1.33 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 9 | 1.33 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 9 | 1.33 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 13 | 1.33 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 13 | 1.33 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 5 | 1.33 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 6 | 1.33 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 20 | 1.33 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 20 | 1.33 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 20 | 1.33 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 5 | 1.33 |
| (1,3311) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 15 | 1.33 |
| (1,3311) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 15 | 1.33 |
| (1,3311) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 15 | 1.33 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 7 | 1.33 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 15 | 1.33 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 17 | 1.33 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 19 | 1.33 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 19 | 1.33 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 11 | 1.33 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 14 | 1.33 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 11 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 11 | 1.33 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 2 | 1.33 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 14 | 1.33 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 14 | 1.33 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 10 | 1.33 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 13 | 1.33 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 5 | 1.33 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 5 | 1.33 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 11 | 1.33 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 11 | 1.33 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 11 | 1.33 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 11 | 1.33 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 11 | 1.33 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 11 | 1.33 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 11 | 1.33 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 11 | 1.33 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 11 | 1.33 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 19 | 1.33 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 17 | 1.33 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 18 | 1.33 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 11 | 1.33 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 2 | 1.33 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 15 | 1.33 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 12 | 1.33 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 18 | 1.33 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 18 | 1.33 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 18 | 1.33 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 18 | 1.33 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 18 | 1.33 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 18 | 1.33 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 9 | 1.33 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 18 | 1.33 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 10 | 1.33 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 18 | 1.33 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 18 | 1.33 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 18 | 1.33 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 17 | 1.33 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 12 | 1.33 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 8 | 1.33 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 8 | 1.33 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 8 | 1.33 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 12 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 1 | 1.33 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 19 | 1.33 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 19 | 1.33 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 19 | 1.33 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 19 | 1.33 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 1 | 1.33 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 4 | 1.33 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 5 | 1.33 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 18 | 1.33 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 18 | 1.33 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 18 | 1.33 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 17 | 1.33 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 17 | 1.33 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 17 | 1.33 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 17 | 1.33 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 11 | 1.33 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 9 | 1.33 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 9 | 1.33 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 9 | 1.33 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 7 | 1.33 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 7 | 1.33 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 7 | 1.33 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 11 | 1.33 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 11 | 1.33 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 15 | 1.33 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 8 | 1.33 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 8 | 1.33 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 8 | 1.33 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 15 | 1.33 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 7 | 1.33 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 7 | 1.33 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 7 | 1.33 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 5 | 1.33 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 15 | 1.33 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 11 | 1.33 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 11 | 1.33 |
| (1,1619) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 11 | 1.33 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 4 | 1.33 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 5 | 1.33 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 5 | 1.33 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 8 | 1.33 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 4 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 6 | 1.33 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 4 | 1.33 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 15 | 1.33 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 19 | 1.33 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 15 | 1.33 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 15 | 1.33 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 15 | 1.33 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 15 | 1.33 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 15 | 1.33 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 15 | 1.33 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 15 | 1.33 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 15 | 1.33 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 15 | 1.33 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 18 | 1.33 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 18 | 1.33 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 18 | 1.33 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 1.33 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 1.33 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 1.33 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 18 | 1.33 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 10 | 1.33 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 10 | 1.33 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 10 | 1.33 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 11 | 1.33 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 13 | 1.33 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 17 | 1.33 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 3 | 1.33 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 9 | 1.33 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 1 | 1.33 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 1 | 1.33 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 1 | 1.33 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 13 | 1.33 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 20 | 1.33 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 20 | 1.33 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 20 | 1.33 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 20 | 1.33 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 20 | 1.33 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 3 | 1.33 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 1 | 1.33 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 1 | 1.33 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 12 | 1.33 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 12 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 5 | 1.33 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 5 | 1.33 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 5 | 1.33 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 5 | 1.33 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 5 | 1.33 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 5 | 1.33 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 15 | 1.33 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 15 | 1.33 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 15 | 1.33 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 15 | 1.33 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 15 | 1.33 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 15 | 1.33 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 15 | 1.33 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 15 | 1.33 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 15 | 1.33 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 17 | 1.33 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 17 | 1.33 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 17 | 1.33 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 2 | 1.33 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 2 | 1.33 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 2 | 1.33 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 20 | 1.33 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 15 | 1.33 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 15 | 1.33 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 19 | 1.33 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 19 | 1.33 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 7 | 1.33 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 7 | 1.33 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 11 | 1.33 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 11 | 1.33 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 11 | 1.33 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 3 | 1.33 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 3 | 1.33 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 3 | 1.33 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 12 | 1.33 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 12 | 1.33 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 12 | 1.33 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 15 | 1.33 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 15 | 1.33 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 15 | 1.33 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 15 | 1.33 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 15 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 15 | 1.33 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 11 | 1.33 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 14 | 1.33 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 17 | 1.33 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 17 | 1.33 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 17 | 1.33 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 8 | 1.33 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 3 | 1.33 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 3 | 1.33 |
| (1,224) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 3 | 1.33 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 7 | 1.33 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 20 | 1.33 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 19 | 1.33 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 19 | 1.33 |
| (1,90) | 1:57:A:CYS:H | 1:57:A:CYS:HB3 | 9 | 1.33 |
| (1,90) | 1:57:A:CYS:H | 1:57:A:CYS:HB3 | 16 | 1.33 |
| (1,87) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 17 | 1.33 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 1 | 1.33 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 4 | 1.33 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 12 | 1.33 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 12 | 1.33 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 7 | 1.33 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 7 | 1.33 |
| (4,197) | 1:131:A:GLN:CB | 1:26:A:ASN:H | 18 | 1.32 |
| (4,174) | 1:98:A:SER:CB | 1:47:A:ASN:H | 5 | 1.32 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 15 | 1.32 |
| (3,941) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 13 | 1.32 |
| (3,941) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 13 | 1.32 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 6 | 1.32 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 6 | 1.32 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 6 | 1.32 |
| (3,642) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 7 | 1.32 |
| (3,455) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 15 | 1.32 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 10 | 1.32 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 10 | 1.32 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 7 | 1.32 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 12 | 1.32 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 12 | 1.32 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 2 | 1.32 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 2 | 1.32 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 2 | 1.32 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 2 | 1.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 2 | 1.32 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 2 | 1.32 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 18 | 1.32 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 18 | 1.32 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 18 | 1.32 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 18 | 1.32 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 18 | 1.32 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 18 | 1.32 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 12 | 1.32 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 12 | 1.32 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 12 | 1.32 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 12 | 1.32 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 12 | 1.32 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 12 | 1.32 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 1 | 1.32 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 1 | 1.32 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 9 | 1.32 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 19 | 1.32 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 13 | 1.32 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 6 | 1.32 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 5 | 1.32 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 8 | 1.32 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 8 | 1.32 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 8 | 1.32 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 16 | 1.32 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 3 | 1.32 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 6 | 1.32 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 6 | 1.32 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 6 | 1.32 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 6 | 1.32 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 6 | 1.32 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 6 | 1.32 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 8 | 1.32 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 12 | 1.32 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 12 | 1.32 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 12 | 1.32 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 1 | 1.32 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 15 | 1.32 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 15 | 1.32 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 15 | 1.32 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 17 | 1.32 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 17 | 1.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 17 | 1.32 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 16 | 1.32 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 1 | 1.32 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 1 | 1.32 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 18 | 1.32 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 10 | 1.32 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 10 | 1.32 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 10 | 1.32 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 10 | 1.32 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 10 | 1.32 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 10 | 1.32 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 8 | 1.32 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 8 | 1.32 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 8 | 1.32 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 8 | 1.32 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 8 | 1.32 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 8 | 1.32 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 2 | 1.32 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 2 | 1.32 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 14 | 1.32 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 14 | 1.32 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 14 | 1.32 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 14 | 1.32 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 14 | 1.32 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 14 | 1.32 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 14 | 1.32 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 14 | 1.32 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 15 | 1.32 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 1 | 1.32 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 1 | 1.32 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 1 | 1.32 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 17 | 1.32 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 17 | 1.32 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 17 | 1.32 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 17 | 1.32 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 17 | 1.32 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 17 | 1.32 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 9 | 1.32 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 9 | 1.32 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 4 | 1.32 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 4 | 1.32 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 5 | 1.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 1 | 1.32 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 1 | 1.32 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 1 | 1.32 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 1 | 1.32 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 1 | 1.32 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 1 | 1.32 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 6 | 1.32 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 6 | 1.32 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 9 | 1.32 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 9 | 1.32 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 19 | 1.32 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 19 | 1.32 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 2 | 1.32 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 2 | 1.32 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 2 | 1.32 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 2 | 1.32 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 2 | 1.32 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 2 | 1.32 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 12 | 1.32 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 12 | 1.32 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 12 | 1.32 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 12 | 1.32 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 12 | 1.32 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 12 | 1.32 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 2 | 1.32 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 2 | 1.32 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 2 | 1.32 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 2 | 1.32 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 2 | 1.32 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 2 | 1.32 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 18 | 1.32 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 18 | 1.32 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 18 | 1.32 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 18 | 1.32 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 3 | 1.32 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 3 | 1.32 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 7 | 1.32 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 7 | 1.32 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 8 | 1.32 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 8 | 1.32 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 13 | 1.32 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 13 | 1.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 13 | 1.32 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 2 | 1.32 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 8 | 1.32 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 7 | 1.32 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 12 | 1.32 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 1 | 1.32 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 15 | 1.32 |
| (1,3113) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 4 | 1.32 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 15 | 1.32 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 11 | 1.32 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 15 | 1.32 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 15 | 1.32 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 10 | 1.32 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 10 | 1.32 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 10 | 1.32 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 10 | 1.32 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 10 | 1.32 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 10 | 1.32 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 11 | 1.32 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 11 | 1.32 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 11 | 1.32 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 11 | 1.32 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 17 | 1.32 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 17 | 1.32 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 17 | 1.32 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 17 | 1.32 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 17 | 1.32 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 17 | 1.32 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 20 | 1.32 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 14 | 1.32 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 14 | 1.32 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 1 | 1.32 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 10 | 1.32 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 8 | 1.32 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 8 | 1.32 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 8 | 1.32 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 20 | 1.32 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 20 | 1.32 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 20 | 1.32 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 6 | 1.32 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 2 | 1.32 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 4 | 1.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 6 | 1.32 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 15 | 1.32 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 17 | 1.32 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 3 | 1.32 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 5 | 1.32 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 13 | 1.32 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 13 | 1.32 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 13 | 1.32 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 8 | 1.32 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 8 | 1.32 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 4 | 1.32 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 4 | 1.32 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 4 | 1.32 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 12 | 1.32 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 12 | 1.32 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 12 | 1.32 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 12 | 1.32 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 8 | 1.32 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 8 | 1.32 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 8 | 1.32 |
| (1,2103) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 4 | 1.32 |
| (1,2103) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 4 | 1.32 |
| (1,2103) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 4 | 1.32 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 4 | 1.32 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 19 | 1.32 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 19 | 1.32 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 19 | 1.32 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 3 | 1.32 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 3 | 1.32 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 8 | 1.32 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 8 | 1.32 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 8 | 1.32 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 1.32 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 15 | 1.32 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 15 | 1.32 |
| (1,1825) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 15 | 1.32 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 3 | 1.32 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 3 | 1.32 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 3 | 1.32 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 11 | 1.32 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 11 | 1.32 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 11 | 1.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 4 | 1.32 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 17 | 1.32 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 8 | 1.32 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 1 | 1.32 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 2 | 1.32 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 9 | 1.32 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 11 | 1.32 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 15 | 1.32 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 19 | 1.32 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 19 | 1.32 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 19 | 1.32 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 10 | 1.32 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 8 | 1.32 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 9 | 1.32 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 12 | 1.32 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 18 | 1.32 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 18 | 1.32 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 18 | 1.32 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 9 | 1.32 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 9 | 1.32 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 2 | 1.32 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 2 | 1.32 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 4 | 1.32 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 4 | 1.32 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 16 | 1.32 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 9 | 1.32 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 9 | 1.32 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 9 | 1.32 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 13 | 1.32 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 13 | 1.32 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 13 | 1.32 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 2 | 1.32 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 3 | 1.32 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 7 | 1.32 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 14 | 1.32 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 19 | 1.32 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 1 | 1.32 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 1 | 1.32 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 1 | 1.32 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 1 | 1.32 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 1 | 1.32 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 1 | 1.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 17 | 1.32 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 17 | 1.32 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 17 | 1.32 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 15 | 1.32 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 4 | 1.32 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 2 | 1.32 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 6 | 1.32 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 6 | 1.32 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 6 | 1.32 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 11 | 1.32 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 11 | 1.32 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 11 | 1.32 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 9 | 1.32 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 9 | 1.32 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 9 | 1.32 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 3 | 1.32 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 19 | 1.32 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 16 | 1.32 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 2 | 1.32 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 2 | 1.32 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 2 | 1.32 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 16 | 1.32 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 11 | 1.32 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 11 | 1.32 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 11 | 1.32 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 4 | 1.32 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 6 | 1.32 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 15 | 1.32 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 15 | 1.32 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 15 | 1.32 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 16 | 1.32 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 16 | 1.32 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 16 | 1.32 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 6 | 1.32 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 17 | 1.32 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 17 | 1.32 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 17 | 1.32 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 1.32 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 1.32 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 14 | 1.32 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 12 | 1.32 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 12 | 1.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 12 | 1.32 |
| (1,374) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 15 | 1.32 |
| (1,374) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 15 | 1.32 |
| (1,374) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 15 | 1.32 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 16 | 1.32 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 10 | 1.32 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 10 | 1.32 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 10 | 1.32 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 19 | 1.32 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 19 | 1.32 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 19 | 1.32 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 8 | 1.32 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 8 | 1.32 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 8 | 1.32 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 8 | 1.32 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 4 | 1.32 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 4 | 1.32 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 4 | 1.32 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 4 | 1.32 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 4 | 1.32 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 4 | 1.32 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 4 | 1.32 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 4 | 1.32 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 4 | 1.32 |
| (1,129) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 17 | 1.32 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 10 | 1.32 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 19 | 1.32 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 19 | 1.32 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 19 | 1.32 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 19 | 1.32 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 19 | 1.32 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 19 | 1.32 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 13 | 1.32 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 9 | 1.32 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 9 | 1.32 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 9 | 1.32 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 19 | 1.32 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 1 | 1.32 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 1 | 1.32 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 20 | 1.32 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 20 | 1.32 |
| (4,283) | 1:98:A:SER:CB | 1:5:A:GLU:H | 9 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 16 | 1.31 |
| (4,58) | 1:15:A:MET:CB | 1:116:A:ALA:H | 10 | 1.31 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 18 | 1.31 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 13 | 1.31 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 13 | 1.31 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 12 | 1.31 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 12 | 1.31 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 12 | 1.31 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 12 | 1.31 |
| (3,875) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 6 | 1.31 |
| (3,875) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 6 | 1.31 |
| (3,875) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 6 | 1.31 |
| (3,875) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 6 | 1.31 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 10 | 1.31 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 10 | 1.31 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 3 | 1.31 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 3 | 1.31 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 3 | 1.31 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 13 | 1.31 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 13 | 1.31 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 13 | 1.31 |
| (3,235) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 15 | 1.31 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 17 | 1.31 |
| (3,25) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 2 | 1.31 |
| (3,25) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 2 | 1.31 |
| (3,25) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 2 | 1.31 |
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 20 | 1.31 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 20 | 1.31 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 15 | 1.31 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 15 | 1.31 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 11 | 1.31 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 11 | 1.31 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 11 | 1.31 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 11 | 1.31 |
| (1,9033) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 18 | 1.31 |
| (1,9033) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 18 | 1.31 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 20 | 1.31 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 20 | 1.31 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 20 | 1.31 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 20 | 1.31 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 20 | 1.31 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 20 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8786) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 11 | 1.31 |
| (1,8786) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 11 | 1.31 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 1 | 1.31 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 2 | 1.31 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 12 | 1.31 |
| (1,7406) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 15 | 1.31 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 6 | 1.31 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 16 | 1.31 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 16 | 1.31 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 16 | 1.31 |
| (1,7271) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 15 | 1.31 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 10 | 1.31 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 7 | 1.31 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 11 | 1.31 |
| (1,6606) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 15 | 1.31 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 16 | 1.31 |
| (1,6174) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 4 | 1.31 |
| (1,6174) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 4 | 1.31 |
| (1,6174) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 4 | 1.31 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 8 | 1.31 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 19 | 1.31 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 11 | 1.31 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 11 | 1.31 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 7 | 1.31 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 3 | 1.31 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 8 | 1.31 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 15 | 1.31 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 20 | 1.31 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 18 | 1.31 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 7 | 1.31 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 18 | 1.31 |
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 7 | 1.31 |
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 7 | 1.31 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 7 | 1.31 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 8 | 1.31 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 10 | 1.31 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 10 | 1.31 |
| (1,5103) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 10 | 1.31 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 5 | 1.31 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 12 | 1.31 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 12 | 1.31 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 12 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 12 | 1.31 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 12 | 1.31 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 12 | 1.31 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 12 | 1.31 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 12 | 1.31 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 12 | 1.31 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 11 | 1.31 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 11 | 1.31 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 11 | 1.31 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 10 | 1.31 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 10 | 1.31 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 17 | 1.31 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 17 | 1.31 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 3 | 1.31 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 3 | 1.31 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 3 | 1.31 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 3 | 1.31 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 3 | 1.31 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 8 | 1.31 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 8 | 1.31 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 8 | 1.31 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 13 | 1.31 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 13 | 1.31 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 13 | 1.31 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 13 | 1.31 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 13 | 1.31 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 13 | 1.31 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 20 | 1.31 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 20 | 1.31 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 20 | 1.31 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 20 | 1.31 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 20 | 1.31 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 20 | 1.31 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 3 | 1.31 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 3 | 1.31 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 10 | 1.31 |
| (1,4287) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 10 | 1.31 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 10 | 1.31 |
| (1,4287) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 10 | 1.31 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 1 | 1.31 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 1 | 1.31 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 1 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 1 | 1.31 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 1 | 1.31 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 1 | 1.31 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 12 | 1.31 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 12 | 1.31 |
| (1,4009) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 17 | 1.31 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 16 | 1.31 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 16 | 1.31 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 16 | 1.31 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 4 | 1.31 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 4 | 1.31 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 8 | 1.31 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 8 | 1.31 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 20 | 1.31 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 20 | 1.31 |
| (1,3473) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 20 | 1.31 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 7 | 1.31 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 8 | 1.31 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 8 | 1.31 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 8 | 1.31 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 8 | 1.31 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 8 | 1.31 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 8 | 1.31 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 8 | 1.31 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 8 | 1.31 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 8 | 1.31 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 8 | 1.31 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 11 | 1.31 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 10 | 1.31 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 2 | 1.31 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 1.31 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 5 | 1.31 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 8 | 1.31 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 18 | 1.31 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 18 | 1.31 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 11 | 1.31 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 11 | 1.31 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 13 | 1.31 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 13 | 1.31 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 13 | 1.31 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 11 | 1.31 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 7 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 17 | 1.31 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 15 | 1.31 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 15 | 1.31 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 7 | 1.31 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 7 | 1.31 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 12 | 1.31 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 12 | 1.31 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 12 | 1.31 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 12 | 1.31 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 12 | 1.31 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 12 | 1.31 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 12 | 1.31 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 12 | 1.31 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 12 | 1.31 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 5 | 1.31 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 13 | 1.31 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 8 | 1.31 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 8 | 1.31 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 8 | 1.31 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 11 | 1.31 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 1 | 1.31 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 1 | 1.31 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 1 | 1.31 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 11 | 1.31 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 5 | 1.31 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 13 | 1.31 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 17 | 1.31 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 9 | 1.31 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 3 | 1.31 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 9 | 1.31 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 8 | 1.31 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 8 | 1.31 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 8 | 1.31 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 17 | 1.31 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 17 | 1.31 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 17 | 1.31 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 9 | 1.31 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 9 | 1.31 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 9 | 1.31 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 11 | 1.31 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 11 | 1.31 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 11 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 13 | 1.31 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 13 | 1.31 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 13 | 1.31 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 18 | 1.31 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 18 | 1.31 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 18 | 1.31 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 12 | 1.31 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 17 | 1.31 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 17 | 1.31 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 10 | 1.31 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 10 | 1.31 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 10 | 1.31 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 18 | 1.31 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 18 | 1.31 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 18 | 1.31 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 1 | 1.31 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 14 | 1.31 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 14 | 1.31 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 14 | 1.31 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 11 | 1.31 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 11 | 1.31 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 11 | 1.31 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 7 | 1.31 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 15 | 1.31 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 13 | 1.31 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 18 | 1.31 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 16 | 1.31 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 16 | 1.31 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 3 | 1.31 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 1.31 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 8 | 1.31 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 20 | 1.31 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 19 | 1.31 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 19 | 1.31 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 13 | 1.31 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 14 | 1.31 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 14 | 1.31 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 7 | 1.31 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 4 | 1.31 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 4 | 1.31 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 4 | 1.31 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 16 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 16 | 1.31 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 3 | 1.31 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 8 | 1.31 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 2 | 1.31 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 2 | 1.31 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 2 | 1.31 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 2 | 1.31 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 2 | 1.31 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 2 | 1.31 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 5 | 1.31 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 18 | 1.31 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 18 | 1.31 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 18 | 1.31 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 6 | 1.31 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 15 | 1.31 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 17 | 1.31 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 15 | 1.31 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 20 | 1.31 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 6 | 1.31 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 7 | 1.31 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 18 | 1.31 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 6 | 1.31 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 6 | 1.31 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 6 | 1.31 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 6 | 1.31 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 6 | 1.31 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 6 | 1.31 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 1 | 1.31 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 15 | 1.31 |
| (1,767) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 6 | 1.31 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 9 | 1.31 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 9 | 1.31 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 9 | 1.31 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 9 | 1.31 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 9 | 1.31 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 9 | 1.31 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 8 | 1.31 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 3 | 1.31 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 3 | 1.31 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 15 | 1.31 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 15 | 1.31 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 2 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 8 | 1.31 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 8 | 1.31 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 8 | 1.31 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 8 | 1.31 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 8 | 1.31 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 8 | 1.31 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 8 | 1.31 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 8 | 1.31 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 8 | 1.31 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 20 | 1.31 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 20 | 1.31 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 20 | 1.31 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 11 | 1.31 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 14 | 1.31 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 4 | 1.31 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 9 | 1.31 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 9 | 1.31 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 14 | 1.31 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 14 | 1.31 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 9 | 1.31 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 9 | 1.31 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 9 | 1.31 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 14 | 1.31 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 14 | 1.31 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 14 | 1.31 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 14 | 1.31 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 1 | 1.31 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 1 | 1.31 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 1 | 1.31 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 19 | 1.31 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 12 | 1.31 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 6 | 1.31 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 14 | 1.31 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 17 | 1.31 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 3 | 1.31 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 16 | 1.31 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 5 | 1.31 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 14 | 1.31 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 14 | 1.31 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 14 | 1.31 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 17 | 1.31 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 17 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 17 | 1.31 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 17 | 1.31 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 17 | 1.31 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 17 | 1.31 |
| (1,79) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 4 | 1.31 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 2 | 1.31 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 13 | 1.31 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 13 | 1.31 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 13 | 1.31 |
| (4,315) | 1:131:A:GLN:CB | 1:4:A:GLU:H | 15 | 1.3 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 7 | 1.3 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 13 | 1.3 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 18 | 1.3 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 1 | 1.3 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 1 | 1.3 |
| (3,948) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 9 | 1.3 |
| (3,948) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 9 | 1.3 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 14 | 1.3 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 19 | 1.3 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 19 | 1.3 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 19 | 1.3 |
| (3,10) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 15 | 1.3 |
| (3,10) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 15 | 1.3 |
| (3,10) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 15 | 1.3 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 11 | 1.3 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 11 | 1.3 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 4 | 1.3 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 4 | 1.3 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 18 | 1.3 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 18 | 1.3 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 18 | 1.3 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 18 | 1.3 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 15 | 1.3 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 15 | 1.3 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 19 | 1.3 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 11 | 1.3 |
| (1,7406) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 20 | 1.3 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 4 | 1.3 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 4 | 1.3 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 4 | 1.3 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 2 | 1.3 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 15 | 1.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 1 | 1.3 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 3 | 1.3 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 3 | 1.3 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 18 | 1.3 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 13 | 1.3 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 13 | 1.3 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 2 | 1.3 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 17 | 1.3 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 17 | 1.3 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 17 | 1.3 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 14 | 1.3 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 14 | 1.3 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 14 | 1.3 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 14 | 1.3 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 14 | 1.3 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 14 | 1.3 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 16 | 1.3 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 5 | 1.3 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 5 | 1.3 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 5 | 1.3 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 9 | 1.3 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 9 | 1.3 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 9 | 1.3 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 9 | 1.3 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 9 | 1.3 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 9 | 1.3 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 6 | 1.3 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 6 | 1.3 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 6 | 1.3 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 8 | 1.3 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 8 | 1.3 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 8 | 1.3 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 13 | 1.3 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 5 | 1.3 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 12 | 1.3 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 12 | 1.3 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 12 | 1.3 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 3 | 1.3 |
| (1,5390) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 9 | 1.3 |
| (1,5390) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 9 | 1.3 |
| (1,5390) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 9 | 1.3 |
| (1,5273) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 13 | 1.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5273) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 13 | 1.3 |
| (1,5273) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 13 | 1.3 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 7 | 1.3 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 20 | 1.3 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 14 | 1.3 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 5 | 1.3 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 3 | 1.3 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 19 | 1.3 |
| (1,4827) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 8 | 1.3 |
| (1,4827) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 8 | 1.3 |
| (1,4827) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 8 | 1.3 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 5 | 1.3 |
| (1,4517) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 6 | 1.3 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 1 | 1.3 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 1 | 1.3 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 10 | 1.3 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 10 | 1.3 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 12 | 1.3 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 12 | 1.3 |
| (1,4363) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 12 | 1.3 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 3 | 1.3 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 3 | 1.3 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 7 | 1.3 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 7 | 1.3 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 13 | 1.3 |
| (1,4227) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 13 | 1.3 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 15 | 1.3 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 15 | 1.3 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 15 | 1.3 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 15 | 1.3 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 15 | 1.3 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 15 | 1.3 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 16 | 1.3 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 16 | 1.3 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 17 | 1.3 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 17 | 1.3 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 19 | 1.3 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 19 | 1.3 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 18 | 1.3 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 18 | 1.3 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 18 | 1.3 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 18 | 1.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 18 | 1.3 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 18 | 1.3 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 14 | 1.3 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 14 | 1.3 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 14 | 1.3 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 14 | 1.3 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 14 | 1.3 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 14 | 1.3 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 14 | 1.3 |
| (1,3739) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 14 | 1.3 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 7 | 1.3 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 7 | 1.3 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 7 | 1.3 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 7 | 1.3 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 11 | 1.3 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 11 | 1.3 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 11 | 1.3 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 11 | 1.3 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 10 | 1.3 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 10 | 1.3 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 11 | 1.3 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 11 | 1.3 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 16 | 1.3 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 16 | 1.3 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 18 | 1.3 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 5 | 1.3 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 12 | 1.3 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 4 | 1.3 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 17 | 1.3 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 17 | 1.3 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 18 | 1.3 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 18 | 1.3 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 3 | 1.3 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 18 | 1.3 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 18 | 1.3 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 18 | 1.3 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 4 | 1.3 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 19 | 1.3 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 5 | 1.3 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 5 | 1.3 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 18 | 1.3 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 16 | 1.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 17 | 1.3 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 7 | 1.3 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 1 | 1.3 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 1 | 1.3 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 1 | 1.3 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 1 | 1.3 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 1 | 1.3 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 1 | 1.3 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 17 | 1.3 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 17 | 1.3 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 17 | 1.3 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 17 | 1.3 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 2 | 1.3 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 2 | 1.3 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 2 | 1.3 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 2 | 1.3 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 13 | 1.3 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 13 | 1.3 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 13 | 1.3 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 6 | 1.3 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 6 | 1.3 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 6 | 1.3 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 6 | 1.3 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 2 | 1.3 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 2 | 1.3 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 3 | 1.3 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 3 | 1.3 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 3 | 1.3 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 3 | 1.3 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 15 | 1.3 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 15 | 1.3 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 15 | 1.3 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 15 | 1.3 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 15 | 1.3 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 15 | 1.3 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 15 | 1.3 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 15 | 1.3 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 15 | 1.3 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 7 | 1.3 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 7 | 1.3 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 7 | 1.3 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 16 | 1.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 16 | 1.3 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 16 | 1.3 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 3 | 1.3 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 3 | 1.3 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 3 | 1.3 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 16 | 1.3 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 13 | 1.3 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 16 | 1.3 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 3 | 1.3 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 13 | 1.3 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 2 | 1.3 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 6 | 1.3 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 12 | 1.3 |
| (1,2273) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 6 | 1.3 |
| (1,2273) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 6 | 1.3 |
| (1,2273) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 6 | 1.3 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 17 | 1.3 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 9 | 1.3 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 9 | 1.3 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 9 | 1.3 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 6 | 1.3 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 6 | 1.3 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 6 | 1.3 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 2 | 1.3 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 2 | 1.3 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 2 | 1.3 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 5 | 1.3 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 5 | 1.3 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 5 | 1.3 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 6 | 1.3 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 6 | 1.3 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 6 | 1.3 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 6 | 1.3 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 6 | 1.3 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 6 | 1.3 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 6 | 1.3 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 6 | 1.3 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 6 | 1.3 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 6 | 1.3 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 18 | 1.3 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 14 | 1.3 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 7 | 1.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 7 | 1.3 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 7 | 1.3 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 7 | 1.3 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 7 | 1.3 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 7 | 1.3 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 13 | 1.3 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 11 | 1.3 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 15 | 1.3 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 19 | 1.3 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 9 | 1.3 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 1 | 1.3 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 17 | 1.3 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 18 | 1.3 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 4 | 1.3 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 15 | 1.3 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 6 | 1.3 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 14 | 1.3 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 16 | 1.3 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 16 | 1.3 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 2 | 1.3 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 13 | 1.3 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 13 | 1.3 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 6 | 1.3 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 6 | 1.3 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 6 | 1.3 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 12 | 1.3 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 9 | 1.3 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 9 | 1.3 |
| (1,1063) | 1:109:A:GLN:HB3 | 1:109:A:GLN:HE21 | 18 | 1.3 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 3 | 1.3 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 3 | 1.3 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 3 | 1.3 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 3 | 1.3 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 3 | 1.3 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 3 | 1.3 |
| (1,1007) | 1:107:A:ALA:HB1 | 1:108:A:SER:HA | 8 | 1.3 |
| (1,1007) | 1:107:A:ALA:HB2 | 1:108:A:SER:HA | 8 | 1.3 |
| (1,1007) | 1:107:A:ALA:HB3 | 1:108:A:SER:HA | 8 | 1.3 |
| (1,979) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 5 | 1.3 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 13 | 1.3 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 8 | 1.3 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 19 | 1.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 2 | 1.3 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 2 | 1.3 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 15 | 1.3 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 15 | 1.3 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 16 | 1.3 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 9 | 1.3 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 9 | 1.3 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 9 | 1.3 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 6 | 1.3 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 7 | 1.3 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 13 | 1.3 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 13 | 1.3 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 16 | 1.3 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 16 | 1.3 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 18 | 1.3 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 18 | 1.3 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 19 | 1.3 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 19 | 1.3 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 16 | 1.3 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 17 | 1.3 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 17 | 1.3 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 17 | 1.3 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 17 | 1.3 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 17 | 1.3 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 17 | 1.3 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 7 | 1.3 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 8 | 1.3 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 2 | 1.3 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 16 | 1.3 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 16 | 1.3 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 16 | 1.3 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 2 | 1.3 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 2 | 1.3 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 5 | 1.3 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 10 | 1.3 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 1 | 1.3 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 1 | 1.3 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 1 | 1.3 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 7 | 1.3 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 7 | 1.3 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 7 | 1.3 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 13 | 1.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 7 | 1.3 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 8 | 1.3 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 10 | 1.3 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 10 | 1.3 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 10 | 1.3 |
| (1,222) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 12 | 1.3 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 9 | 1.3 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 9 | 1.3 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 9 | 1.3 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 19 | 1.3 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 3 | 1.3 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 19 | 1.3 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 16 | 1.3 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 4 | 1.3 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 4 | 1.3 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 4 | 1.3 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 15 | 1.3 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 5 | 1.3 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 5 | 1.3 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 8 | 1.3 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 8 | 1.3 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 10 | 1.29 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 7 | 1.29 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 19 | 1.29 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 3 | 1.29 |
| (4,65) | 1:15:A:MET:CB | 1:124:A:ALA:H | 7 | 1.29 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 16 | 1.29 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 16 | 1.29 |
| (3,839) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 3 | 1.29 |
| (3,839) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 3 | 1.29 |
| (3,839) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 3 | 1.29 |
| (3,839) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 3 | 1.29 |
| (3,839) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 3 | 1.29 |
| (3,839) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 3 | 1.29 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 18 | 1.29 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 18 | 1.29 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 18 | 1.29 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 10 | 1.29 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 10 | 1.29 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 10 | 1.29 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 6 | 1.29 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 18 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 18 | 1.29 |
| (1,9561) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 20 | 1.29 |
| (1,9561) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 20 | 1.29 |
| (1,9561) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 20 | 1.29 |
| (1,9561) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 20 | 1.29 |
| (1,9561) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 20 | 1.29 |
| (1,9561) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 20 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 8 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 8 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 8 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 8 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 8 | 1.29 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 8 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 20 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 20 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 20 | 1.29 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 1.29 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 4 | 1.29 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 4 | 1.29 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 4 | 1.29 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 4 | 1.29 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 4 | 1.29 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 4 | 1.29 |
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 8 | 1.29 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 8 | 1.29 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 20 | 1.29 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 20 | 1.29 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 17 | 1.29 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 17 | 1.29 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 8 | 1.29 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 8 | 1.29 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 19 | 1.29 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 4 | 1.29 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 4 | 1.29 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 4 | 1.29 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 20 | 1.29 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 1 | 1.29 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 13 | 1.29 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 17 | 1.29 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 6 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 15 | 1.29 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 20 | 1.29 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 19 | 1.29 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 19 | 1.29 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 19 | 1.29 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 19 | 1.29 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 19 | 1.29 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 19 | 1.29 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 19 | 1.29 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 19 | 1.29 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 19 | 1.29 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 15 | 1.29 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 15 | 1.29 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 15 | 1.29 |
| (1,5125) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 20 | 1.29 |
| (1,5125) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 20 | 1.29 |
| (1,5125) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 20 | 1.29 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 7 | 1.29 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 7 | 1.29 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 7 | 1.29 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 9 | 1.29 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 18 | 1.29 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 18 | 1.29 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 6 | 1.29 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 8 | 1.29 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 8 | 1.29 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 8 | 1.29 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 8 | 1.29 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 8 | 1.29 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 8 | 1.29 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 1 | 1.29 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 1 | 1.29 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 5 | 1.29 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 5 | 1.29 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 20 | 1.29 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 1.29 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 6 | 1.29 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 6 | 1.29 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 6 | 1.29 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 6 | 1.29 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 6 | 1.29 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 6 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 14 | 1.29 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 14 | 1.29 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 17 | 1.29 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 17 | 1.29 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 2 | 1.29 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 2 | 1.29 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 16 | 1.29 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 16 | 1.29 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD21 | 5 | 1.29 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD22 | 5 | 1.29 |
| (1,4267) | 1:103:A:PHE:HB2 | 1:160:A:LEU:HD23 | 5 | 1.29 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD21 | 5 | 1.29 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD22 | 5 | 1.29 |
| (1,4267) | 1:103:A:PHE:HB3 | 1:160:A:LEU:HD23 | 5 | 1.29 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 5 | 1.29 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 5 | 1.29 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 8 | 1.29 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 8 | 1.29 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 8 | 1.29 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 8 | 1.29 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 8 | 1.29 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 8 | 1.29 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 6 | 1.29 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 6 | 1.29 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 8 | 1.29 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 8 | 1.29 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 15 | 1.29 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 15 | 1.29 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 3 | 1.29 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 3 | 1.29 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 3 | 1.29 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 3 | 1.29 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 3 | 1.29 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 3 | 1.29 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 20 | 1.29 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 20 | 1.29 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 20 | 1.29 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 20 | 1.29 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 20 | 1.29 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 20 | 1.29 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 11 | 1.29 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 4 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 4 | 1.29 |
| (1,3825) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 6 | 1.29 |
| (1,3825) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 6 | 1.29 |
| (1,3825) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 6 | 1.29 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 19 | 1.29 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 19 | 1.29 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 19 | 1.29 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 12 | 1.29 |
| (1,3625) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 12 | 1.29 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 17 | 1.29 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 17 | 1.29 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 17 | 1.29 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 17 | 1.29 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 17 | 1.29 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 17 | 1.29 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 8 | 1.29 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 11 | 1.29 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 5 | 1.29 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 13 | 1.29 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 13 | 1.29 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 8 | 1.29 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 8 | 1.29 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 8 | 1.29 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 8 | 1.29 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 8 | 1.29 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 8 | 1.29 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 15 | 1.29 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 16 | 1.29 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 13 | 1.29 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 10 | 1.29 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 5 | 1.29 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 19 | 1.29 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 10 | 1.29 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 19 | 1.29 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 16 | 1.29 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 2 | 1.29 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 2 | 1.29 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 2 | 1.29 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 2 | 1.29 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 2 | 1.29 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 19 | 1.29 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 19 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 5 | 1.29 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 5 | 1.29 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 14 | 1.29 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 14 | 1.29 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 14 | 1.29 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 14 | 1.29 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 14 | 1.29 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 14 | 1.29 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 14 | 1.29 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 14 | 1.29 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 14 | 1.29 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 8 | 1.29 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 17 | 1.29 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 18 | 1.29 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 3 | 1.29 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 14 | 1.29 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 14 | 1.29 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 14 | 1.29 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 14 | 1.29 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 14 | 1.29 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 14 | 1.29 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 15 | 1.29 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 15 | 1.29 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 15 | 1.29 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 9 | 1.29 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 3 | 1.29 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 10 | 1.29 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 17 | 1.29 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 17 | 1.29 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 13 | 1.29 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 13 | 1.29 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 13 | 1.29 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 6 | 1.29 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 15 | 1.29 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 15 | 1.29 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 15 | 1.29 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 12 | 1.29 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 14 | 1.29 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 3 | 1.29 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 16 | 1.29 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 16 | 1.29 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 16 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 10 | 1.29 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 10 | 1.29 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 10 | 1.29 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 15 | 1.29 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 1 | 1.29 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 1 | 1.29 |
| (1,1903) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 1 | 1.29 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 20 | 1.29 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 20 | 1.29 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 20 | 1.29 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 17 | 1.29 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 17 | 1.29 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 17 | 1.29 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 16 | 1.29 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 14 | 1.29 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 14 | 1.29 |
| (1,1461) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 14 | 1.29 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 5 | 1.29 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 5 | 1.29 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 5 | 1.29 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 19 | 1.29 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 11 | 1.29 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 15 | 1.29 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 6 | 1.29 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 6 | 1.29 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 6 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 7 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 7 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 7 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 7 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 7 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 7 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 10 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 10 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 10 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 10 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 10 | 1.29 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 10 | 1.29 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 3 | 1.29 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 1 | 1.29 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 1 | 1.29 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 1 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 1 | 1.29 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 1 | 1.29 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 1 | 1.29 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 1 | 1.29 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 1 | 1.29 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 1 | 1.29 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 18 | 1.29 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 19 | 1.29 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 19 | 1.29 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 19 | 1.29 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 17 | 1.29 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 14 | 1.29 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 14 | 1.29 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 14 | 1.29 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 2 | 1.29 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 2 | 1.29 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 2 | 1.29 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 20 | 1.29 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 20 | 1.29 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 20 | 1.29 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 2 | 1.29 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 2 | 1.29 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 2 | 1.29 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 10 | 1.29 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 10 | 1.29 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 10 | 1.29 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 7 | 1.29 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 7 | 1.29 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 7 | 1.29 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 7 | 1.29 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 16 | 1.29 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 1 | 1.29 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 1 | 1.29 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 20 | 1.29 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 20 | 1.29 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 20 | 1.29 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 1 | 1.29 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 14 | 1.29 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 14 | 1.29 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 14 | 1.29 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 9 | 1.29 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 15 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 8 | 1.29 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 8 | 1.29 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 13 | 1.29 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 13 | 1.29 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 4 | 1.29 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 1 | 1.29 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 1 | 1.29 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 1 | 1.29 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 7 | 1.29 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 7 | 1.29 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 7 | 1.29 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 17 | 1.29 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 10 | 1.29 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 16 | 1.29 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 1 | 1.29 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 7 | 1.29 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 7 | 1.29 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 7 | 1.29 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 11 | 1.29 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 11 | 1.29 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 11 | 1.29 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 20 | 1.29 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 11 | 1.29 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 15 | 1.29 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 15 | 1.29 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 15 | 1.29 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 7 | 1.29 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 7 | 1.29 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 7 | 1.29 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 12 | 1.29 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 14 | 1.29 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 14 | 1.29 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 14 | 1.29 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 9 | 1.29 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 9 | 1.29 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 9 | 1.29 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 16 | 1.29 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 16 | 1.29 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 16 | 1.29 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 16 | 1.29 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 16 | 1.29 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 16 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 6 | 1.29 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 15 | 1.29 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 15 | 1.29 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 15 | 1.29 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 15 | 1.29 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 15 | 1.29 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 15 | 1.29 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 15 | 1.29 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 15 | 1.29 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 15 | 1.29 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 15 | 1.29 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 15 | 1.29 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 15 | 1.29 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 6 | 1.29 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 6 | 1.29 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 6 | 1.29 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 9 | 1.29 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 19 | 1.29 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 19 | 1.29 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 19 | 1.29 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 5 | 1.29 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 1 | 1.28 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 13 | 1.28 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 13 | 1.28 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 12 | 1.28 |
| (4,112) | 1:90:A:ASN:CB | 1:12:A:GLU:H | 4 | 1.28 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 16 | 1.28 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 16 | 1.28 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 3 | 1.28 |
| (3,64) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 8 | 1.28 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 6 | 1.28 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 6 | 1.28 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 8 | 1.28 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 8 | 1.28 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 8 | 1.28 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 8 | 1.28 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 8 | 1.28 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 8 | 1.28 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 10 | 1.28 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 10 | 1.28 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 10 | 1.28 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 10 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 10 | 1.28 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 10 | 1.28 |
| (1,9026) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 6 | 1.28 |
| (1,9026) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 6 | 1.28 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 8 | 1.28 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 8 | 1.28 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 2 | 1.28 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 2 | 1.28 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 20 | 1.28 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 20 | 1.28 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 20 | 1.28 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 20 | 1.28 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 20 | 1.28 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 20 | 1.28 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 1 | 1.28 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 1 | 1.28 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 1 | 1.28 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 1 | 1.28 |
| (1,8711) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 13 | 1.28 |
| (1,8711) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 13 | 1.28 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 17 | 1.28 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 17 | 1.28 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 17 | 1.28 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 17 | 1.28 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 13 | 1.28 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 13 | 1.28 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 7 | 1.28 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 5 | 1.28 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 9 | 1.28 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 9 | 1.28 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 9 | 1.28 |
| (1,7740) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 16 | 1.28 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 6 | 1.28 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 6 | 1.28 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 6 | 1.28 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 6 | 1.28 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 6 | 1.28 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 6 | 1.28 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 11 | 1.28 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 11 | 1.28 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 15 | 1.28 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 15 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 15 | 1.28 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 8 | 1.28 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 19 | 1.28 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 10 | 1.28 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 8 | 1.28 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 3 | 1.28 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 10 | 1.28 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 10 | 1.28 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 4 | 1.28 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 20 | 1.28 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 20 | 1.28 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 20 | 1.28 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 14 | 1.28 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 14 | 1.28 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 14 | 1.28 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 14 | 1.28 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 14 | 1.28 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 14 | 1.28 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 9 | 1.28 |
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 10 | 1.28 |
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 10 | 1.28 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 10 | 1.28 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 6 | 1.28 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 3 | 1.28 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 3 | 1.28 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 3 | 1.28 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 3 | 1.28 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 3 | 1.28 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 3 | 1.28 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 17 | 1.28 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 15 | 1.28 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 15 | 1.28 |
| (1,4557) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 15 | 1.28 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 15 | 1.28 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 15 | 1.28 |
| (1,4557) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 15 | 1.28 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 7 | 1.28 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 7 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 2 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 2 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 2 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 2 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 2 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 2 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 12 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 12 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 12 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 12 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 12 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 12 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 17 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 17 | 1.28 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 17 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 17 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 17 | 1.28 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 17 | 1.28 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 2 | 1.28 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 4 | 1.28 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 4 | 1.28 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 4 | 1.28 |
| (1,4185) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 4 | 1.28 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 4 | 1.28 |
| (1,4099) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 4 | 1.28 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 4 | 1.28 |
| (1,4099) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 4 | 1.28 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 4 | 1.28 |
| (1,4099) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 4 | 1.28 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 6 | 1.28 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 6 | 1.28 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 6 | 1.28 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 6 | 1.28 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 6 | 1.28 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 6 | 1.28 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 4 | 1.28 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 4 | 1.28 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 20 | 1.28 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 20 | 1.28 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 20 | 1.28 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 18 | 1.28 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 18 | 1.28 |
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 1.28 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 1 | 1.28 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 1 | 1.28 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 1 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 1 | 1.28 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 20 | 1.28 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 17 | 1.28 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 1.28 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 17 | 1.28 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 17 | 1.28 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 17 | 1.28 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 17 | 1.28 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 17 | 1.28 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 17 | 1.28 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 17 | 1.28 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 9 | 1.28 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 9 | 1.28 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 9 | 1.28 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 17 | 1.28 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 16 | 1.28 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 5 | 1.28 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 8 | 1.28 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 7 | 1.28 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 7 | 1.28 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 7 | 1.28 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 4 | 1.28 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 4 | 1.28 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 4 | 1.28 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 4 | 1.28 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 4 | 1.28 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 4 | 1.28 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 1 | 1.28 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 1 | 1.28 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 1 | 1.28 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 1 | 1.28 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 3 | 1.28 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 18 | 1.28 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 16 | 1.28 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 3 | 1.28 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 1.28 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 20 | 1.28 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 1 | 1.28 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 14 | 1.28 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 14 | 1.28 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 14 | 1.28 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 15 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 9 | 1.28 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 3 | 1.28 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 2 | 1.28 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 10 | 1.28 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 12 | 1.28 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 8 | 1.28 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 2 | 1.28 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 10 | 1.28 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 10 | 1.28 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 6 | 1.28 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 8 | 1.28 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 8 | 1.28 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 8 | 1.28 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 11 | 1.28 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 19 | 1.28 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 5 | 1.28 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 14 | 1.28 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 16 | 1.28 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 19 | 1.28 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 12 | 1.28 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 12 | 1.28 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 12 | 1.28 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 4 | 1.28 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 4 | 1.28 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 4 | 1.28 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 12 | 1.28 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 12 | 1.28 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 12 | 1.28 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 5 | 1.28 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 18 | 1.28 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 1 | 1.28 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 1 | 1.28 |
| (1,1885) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 1 | 1.28 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 19 | 1.28 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 7 | 1.28 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 4 | 1.28 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 4 | 1.28 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 4 | 1.28 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 4 | 1.28 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 4 | 1.28 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 4 | 1.28 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 12 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 12 | 1.28 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 18 | 1.28 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 10 | 1.28 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 10 | 1.28 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 10 | 1.28 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 7 | 1.28 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 7 | 1.28 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 7 | 1.28 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 7 | 1.28 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 7 | 1.28 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 7 | 1.28 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 7 | 1.28 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 7 | 1.28 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 7 | 1.28 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 7 | 1.28 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 7 | 1.28 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 3 | 1.28 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 16 | 1.28 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 10 | 1.28 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 11 | 1.28 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 14 | 1.28 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 12 | 1.28 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 12 | 1.28 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 12 | 1.28 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 12 | 1.28 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 4 | 1.28 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 7 | 1.28 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 7 | 1.28 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 7 | 1.28 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 7 | 1.28 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 7 | 1.28 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 7 | 1.28 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 7 | 1.28 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 7 | 1.28 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 7 | 1.28 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 10 | 1.28 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 20 | 1.28 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 9 | 1.28 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 9 | 1.28 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 20 | 1.28 |
| (1,1119) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 2 | 1.28 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 17 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 17 | 1.28 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 17 | 1.28 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 5 | 1.28 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 5 | 1.28 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 3 | 1.28 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 3 | 1.28 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 3 | 1.28 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 17 | 1.28 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 17 | 1.28 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 17 | 1.28 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 15 | 1.28 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 15 | 1.28 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 15 | 1.28 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 3 | 1.28 |
| (1,929) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 19 | 1.28 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 12 | 1.28 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 12 | 1.28 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 12 | 1.28 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 12 | 1.28 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 12 | 1.28 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 12 | 1.28 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 10 | 1.28 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 14 | 1.28 |
| (1,739) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 9 | 1.28 |
| (1,739) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 9 | 1.28 |
| (1,739) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 9 | 1.28 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 9 | 1.28 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 4 | 1.28 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 4 | 1.28 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 4 | 1.28 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 4 | 1.28 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 8 | 1.28 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 1 | 1.28 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 7 | 1.28 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 7 | 1.28 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 16 | 1.28 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 16 | 1.28 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 11 | 1.28 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 5 | 1.28 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 5 | 1.28 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 9 | 1.28 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 9 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 9 | 1.28 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 9 | 1.28 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 8 | 1.28 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 13 | 1.28 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 13 | 1.28 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 9 | 1.28 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 9 | 1.28 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 9 | 1.28 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 9 | 1.28 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 9 | 1.28 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 9 | 1.28 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 9 | 1.28 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 9 | 1.28 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 9 | 1.28 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 6 | 1.28 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 6 | 1.28 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 6 | 1.28 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 8 | 1.28 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 8 | 1.28 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 8 | 1.28 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 3 | 1.28 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 9 | 1.28 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 9 | 1.28 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 9 | 1.28 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 9 | 1.28 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 9 | 1.28 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 9 | 1.28 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 14 | 1.28 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 4 | 1.28 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 10 | 1.28 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 5 | 1.28 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 5 | 1.28 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 5 | 1.28 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 15 | 1.28 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 15 | 1.28 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 15 | 1.28 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 13 | 1.28 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 3 | 1.28 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 3 | 1.28 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 3 | 1.28 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 13 | 1.28 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 13 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 13 | 1.28 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 1 | 1.28 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 1 | 1.28 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 1 | 1.28 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 2 | 1.28 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 18 | 1.28 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 19 | 1.28 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 20 | 1.28 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 20 | 1.28 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 20 | 1.28 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 3 | 1.28 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 3 | 1.28 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 3 | 1.28 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 4 | 1.28 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 17 | 1.28 |
| (1,90) | 1:57:A:CYS:H | 1:57:A:CYS:HB3 | 8 | 1.28 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 1 | 1.28 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 1 | 1.28 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 15 | 1.28 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 15 | 1.28 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 15 | 1.28 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 6 | 1.28 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 6 | 1.28 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 8 | 1.27 |
| (3,979) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 2 | 1.27 |
| (3,979) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 2 | 1.27 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 5 | 1.27 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 5 | 1.27 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 17 | 1.27 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 17 | 1.27 |
| (3,400) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 16 | 1.27 |
| (3,400) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 16 | 1.27 |
| (3,400) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 16 | 1.27 |
| (3,258) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 3 | 1.27 |
| (3,258) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 3 | 1.27 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 13 | 1.27 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 13 | 1.27 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 13 | 1.27 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 10 | 1.27 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 10 | 1.27 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 2 | 1.27 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 2 | 1.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 2 | 1.27 |
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 2 | 1.27 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 2 | 1.27 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 2 | 1.27 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 2 | 1.27 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 2 | 1.27 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 6 | 1.27 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 6 | 1.27 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 6 | 1.27 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 6 | 1.27 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 6 | 1.27 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 12 | 1.27 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 12 | 1.27 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 7 | 1.27 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 3 | 1.27 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 19 | 1.27 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 10 | 1.27 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 10 | 1.27 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 10 | 1.27 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 10 | 1.27 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 10 | 1.27 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 10 | 1.27 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 7 | 1.27 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 2 | 1.27 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 12 | 1.27 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 16 | 1.27 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 16 | 1.27 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 16 | 1.27 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 16 | 1.27 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 16 | 1.27 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 16 | 1.27 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 16 | 1.27 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 16 | 1.27 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 16 | 1.27 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 14 | 1.27 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 14 | 1.27 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 14 | 1.27 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 14 | 1.27 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 14 | 1.27 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 14 | 1.27 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 14 | 1.27 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 14 | 1.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 14 | 1.27 |
| (1,4611) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 9 | 1.27 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 16 | 1.27 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 16 | 1.27 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 17 | 1.27 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 17 | 1.27 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 19 | 1.27 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 19 | 1.27 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 11 | 1.27 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 11 | 1.27 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 18 | 1.27 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 10 | 1.27 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 10 | 1.27 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 13 | 1.27 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 13 | 1.27 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 2 | 1.27 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 2 | 1.27 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 17 | 1.27 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 17 | 1.27 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 8 | 1.27 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 8 | 1.27 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 8 | 1.27 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 8 | 1.27 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 8 | 1.27 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 8 | 1.27 |
| (1,3813) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 9 | 1.27 |
| (1,3813) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 9 | 1.27 |
| (1,3813) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 9 | 1.27 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 18 | 1.27 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 18 | 1.27 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 10 | 1.27 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 10 | 1.27 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 10 | 1.27 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 17 | 1.27 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 17 | 1.27 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 12 | 1.27 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 12 | 1.27 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 12 | 1.27 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 12 | 1.27 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 12 | 1.27 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 12 | 1.27 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 12 | 1.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 12 | 1.27 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 12 | 1.27 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 15 | 1.27 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 17 | 1.27 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 11 | 1.27 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 11 | 1.27 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 11 | 1.27 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 9 | 1.27 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 9 | 1.27 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 9 | 1.27 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 10 | 1.27 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 10 | 1.27 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 15 | 1.27 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 4 | 1.27 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 5 | 1.27 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 13 | 1.27 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 1 | 1.27 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 1 | 1.27 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 1 | 1.27 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 18 | 1.27 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 8 | 1.27 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 8 | 1.27 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 8 | 1.27 |
| (1,3161) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 17 | 1.27 |
| (1,3161) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 17 | 1.27 |
| (1,3161) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 17 | 1.27 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 14 | 1.27 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 12 | 1.27 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 16 | 1.27 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 6 | 1.27 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 17 | 1.27 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 14 | 1.27 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 7 | 1.27 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 5 | 1.27 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 17 | 1.27 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 20 | 1.27 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 11 | 1.27 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 11 | 1.27 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 11 | 1.27 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 20 | 1.27 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 20 | 1.27 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 5 | 1.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 5 | 1.27 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 5 | 1.27 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 5 | 1.27 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 5 | 1.27 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 5 | 1.27 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 17 | 1.27 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 1 | 1.27 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 13 | 1.27 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 10 | 1.27 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 11 | 1.27 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 11 | 1.27 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 11 | 1.27 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 17 | 1.27 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 17 | 1.27 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 17 | 1.27 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 15 | 1.27 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 18 | 1.27 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 16 | 1.27 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 7 | 1.27 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 12 | 1.27 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 20 | 1.27 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 15 | 1.27 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 17 | 1.27 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 7 | 1.27 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 7 | 1.27 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 7 | 1.27 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 19 | 1.27 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 6 | 1.27 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 6 | 1.27 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 6 | 1.27 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 11 | 1.27 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 2 | 1.27 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 18 | 1.27 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 1 | 1.27 |
| (1,2329) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 8 | 1.27 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 12 | 1.27 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 18 | 1.27 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 18 | 1.27 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 18 | 1.27 |
| (1,2091) | 1:147:A:SER:H | 1:158:A:ILE:HA | 18 | 1.27 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 14 | 1.27 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 14 | 1.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 14 | 1.27 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 14 | 1.27 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 14 | 1.27 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 14 | 1.27 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 11 | 1.27 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 8 | 1.27 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 8 | 1.27 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 8 | 1.27 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 4 | 1.27 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 8 | 1.27 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 6 | 1.27 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 20 | 1.27 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 4 | 1.27 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 4 | 1.27 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 4 | 1.27 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 19 | 1.27 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 10 | 1.27 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 17 | 1.27 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 16 | 1.27 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 16 | 1.27 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 16 | 1.27 |
| (1,1555) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 13 | 1.27 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 13 | 1.27 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 13 | 1.27 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 13 | 1.27 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 14 | 1.27 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 1 | 1.27 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 17 | 1.27 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 17 | 1.27 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 17 | 1.27 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 17 | 1.27 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 17 | 1.27 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 17 | 1.27 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 14 | 1.27 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 14 | 1.27 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 6 | 1.27 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 11 | 1.27 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 12 | 1.27 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 16 | 1.27 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 16 | 1.27 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 16 | 1.27 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 7 | 1.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 13 | 1.27 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 7 | 1.27 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 1 | 1.27 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 1 | 1.27 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 1 | 1.27 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 5 | 1.27 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 2 | 1.27 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 19 | 1.27 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 13 | 1.27 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 17 | 1.27 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 17 | 1.27 |
| (1,879) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 17 | 1.27 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 13 | 1.27 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 13 | 1.27 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 13 | 1.27 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 13 | 1.27 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 13 | 1.27 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 13 | 1.27 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 14 | 1.27 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 14 | 1.27 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 14 | 1.27 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 3 | 1.27 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 3 | 1.27 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 20 | 1.27 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 20 | 1.27 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 14 | 1.27 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 13 | 1.27 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 13 | 1.27 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 13 | 1.27 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 13 | 1.27 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 13 | 1.27 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 13 | 1.27 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 10 | 1.27 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 10 | 1.27 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 10 | 1.27 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 10 | 1.27 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 20 | 1.27 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 20 | 1.27 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 20 | 1.27 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 4 | 1.27 |
| (1,376) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 12 | 1.27 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 2 | 1.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 2 | 1.27 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 13 | 1.27 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 4 | 1.27 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 4 | 1.27 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 4 | 1.27 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 8 | 1.27 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 8 | 1.27 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 8 | 1.27 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 6 | 1.27 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 12 | 1.27 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 6 | 1.27 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 6 | 1.27 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 6 | 1.27 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 13 | 1.27 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 9 | 1.27 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 9 | 1.27 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 9 | 1.27 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 18 | 1.27 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 18 | 1.27 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 18 | 1.27 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 18 | 1.27 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 18 | 1.27 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 18 | 1.27 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 2 | 1.27 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 2 | 1.27 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 8 | 1.26 |
| (4,77) | 1:15:A:MET:CB | 1:136:A:ASP:H | 14 | 1.26 |
| (4,23) | 1:15:A:MET:CB | 1:73:A:TRP:HE1 | 1 | 1.26 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 5 | 1.26 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 5 | 1.26 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 9 | 1.26 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 9 | 1.26 |
| (3,876) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 9 | 1.26 |
| (3,876) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 9 | 1.26 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 7 | 1.26 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 7 | 1.26 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 19 | 1.26 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 18 | 1.26 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 18 | 1.26 |
| (1,8894) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG12 | 6 | 1.26 |
| (1,8894) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HG13 | 6 | 1.26 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 9 | 1.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 9 | 1.26 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 9 | 1.26 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 9 | 1.26 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 9 | 1.26 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 9 | 1.26 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 13 | 1.26 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 13 | 1.26 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 5 | 1.26 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 5 | 1.26 |
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 20 | 1.26 |
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 20 | 1.26 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 20 | 1.26 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 20 | 1.26 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 5 | 1.26 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 5 | 1.26 |
| (1,8124) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 10 | 1.26 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 4 | 1.26 |
| (1,7406) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 1 | 1.26 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 16 | 1.26 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 16 | 1.26 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 16 | 1.26 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 5 | 1.26 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 5 | 1.26 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 5 | 1.26 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 16 | 1.26 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 16 | 1.26 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 16 | 1.26 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 12 | 1.26 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 12 | 1.26 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 12 | 1.26 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 12 | 1.26 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 12 | 1.26 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 12 | 1.26 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 13 | 1.26 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 9 | 1.26 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 9 | 1.26 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 9 | 1.26 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 3 | 1.26 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 6 | 1.26 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 6 | 1.26 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 15 | 1.26 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 15 | 1.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 6 | 1.26 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 6 | 1.26 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 8 | 1.26 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 8 | 1.26 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 18 | 1.26 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 18 | 1.26 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 7 | 1.26 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 7 | 1.26 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 7 | 1.26 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 7 | 1.26 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 7 | 1.26 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 7 | 1.26 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 9 | 1.26 |
| (1,4131) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 9 | 1.26 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 9 | 1.26 |
| (1,4131) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 9 | 1.26 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 9 | 1.26 |
| (1,4131) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 9 | 1.26 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 7 | 1.26 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 14 | 1.26 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 14 | 1.26 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 16 | 1.26 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 16 | 1.26 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 16 | 1.26 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 16 | 1.26 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 16 | 1.26 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 16 | 1.26 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 18 | 1.26 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 18 | 1.26 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 18 | 1.26 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 18 | 1.26 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 18 | 1.26 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 18 | 1.26 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 14 | 1.26 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 14 | 1.26 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 14 | 1.26 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 16 | 1.26 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 16 | 1.26 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 16 | 1.26 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 2 | 1.26 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 3 | 1.26 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 3 | 1.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 18 | 1.26 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 18 | 1.26 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 1 | 1.26 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 2 | 1.26 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 2 | 1.26 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 2 | 1.26 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 19 | 1.26 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 9 | 1.26 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 9 | 1.26 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 9 | 1.26 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 9 | 1.26 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 9 | 1.26 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 9 | 1.26 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 9 | 1.26 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 9 | 1.26 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 9 | 1.26 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 19 | 1.26 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 19 | 1.26 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 19 | 1.26 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 4 | 1.26 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 3 | 1.26 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 1 | 1.26 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 2 | 1.26 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 2 | 1.26 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 4 | 1.26 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 11 | 1.26 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 11 | 1.26 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 11 | 1.26 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 4 | 1.26 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 16 | 1.26 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 16 | 1.26 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 16 | 1.26 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 8 | 1.26 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 8 | 1.26 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 8 | 1.26 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 5 | 1.26 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 20 | 1.26 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 20 | 1.26 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 20 | 1.26 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 20 | 1.26 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 6 | 1.26 |
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 14 | 1.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2763) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 14 | 1.26 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 3 | 1.26 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 18 | 1.26 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 18 | 1.26 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 18 | 1.26 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 4 | 1.26 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 10 | 1.26 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 10 | 1.26 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 10 | 1.26 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 13 | 1.26 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 20 | 1.26 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 8 | 1.26 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 10 | 1.26 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 3 | 1.26 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 3 | 1.26 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 3 | 1.26 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 14 | 1.26 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 14 | 1.26 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 14 | 1.26 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 10 | 1.26 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 17 | 1.26 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 18 | 1.26 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 18 | 1.26 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 18 | 1.26 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 2 | 1.26 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 2 | 1.26 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 2 | 1.26 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 3 | 1.26 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 3 | 1.26 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 3 | 1.26 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 15 | 1.26 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 15 | 1.26 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 15 | 1.26 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 19 | 1.26 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 19 | 1.26 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 19 | 1.26 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 13 | 1.26 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 13 | 1.26 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 13 | 1.26 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 20 | 1.26 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 20 | 1.26 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 20 | 1.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 9 | 1.26 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 9 | 1.26 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 10 | 1.26 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 6 | 1.26 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 9 | 1.26 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 17 | 1.26 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 17 | 1.26 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 11 | 1.26 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 17 | 1.26 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 14 | 1.26 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 18 | 1.26 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 17 | 1.26 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 17 | 1.26 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 5 | 1.26 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 14 | 1.26 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 16 | 1.26 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 12 | 1.26 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 12 | 1.26 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 16 | 1.26 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 16 | 1.26 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 16 | 1.26 |
| (1,985) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 2 | 1.26 |
| (1,985) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 2 | 1.26 |
| (1,985) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 2 | 1.26 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 5 | 1.26 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 18 | 1.26 |
| (1,861) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 3 | 1.26 |
| (1,861) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 3 | 1.26 |
| (1,861) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 3 | 1.26 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 1.26 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 12 | 1.26 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 17 | 1.26 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 17 | 1.26 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 17 | 1.26 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 14 | 1.26 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 7 | 1.26 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 10 | 1.26 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 2 | 1.26 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 2 | 1.26 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 5 | 1.26 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 5 | 1.26 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 10 | 1.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 10 | 1.26 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 12 | 1.26 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 2 | 1.26 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 17 | 1.26 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 2 | 1.26 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 2 | 1.26 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 2 | 1.26 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 19 | 1.26 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 10 | 1.26 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 6 | 1.26 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 18 | 1.26 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 18 | 1.26 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 18 | 1.26 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 19 | 1.26 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 19 | 1.26 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 19 | 1.26 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 3 | 1.26 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 5 | 1.26 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 8 | 1.26 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 8 | 1.26 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 8 | 1.26 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 8 | 1.26 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 8 | 1.26 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 8 | 1.26 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 11 | 1.26 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 11 | 1.26 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 11 | 1.26 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 17 | 1.26 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 17 | 1.26 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 17 | 1.26 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 12 | 1.26 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 11 | 1.26 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 16 | 1.26 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 3 | 1.26 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 16 | 1.26 |
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 9 | 1.26 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 14 | 1.26 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 14 | 1.26 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 5 | 1.26 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 10 | 1.26 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 11 | 1.26 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 11 | 1.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 11 | 1.26 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 7 | 1.26 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 7 | 1.26 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 2 | 1.26 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 2 | 1.26 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 2 | 1.26 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 2 | 1.26 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 2 | 1.26 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 2 | 1.26 |
| (1,90) | 1:57:A:CYS:H | 1:57:A:CYS:HB3 | 6 | 1.26 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 17 | 1.26 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 10 | 1.26 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 1 | 1.26 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 1 | 1.26 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 1 | 1.26 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 3 | 1.26 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 3 | 1.26 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 15 | 1.26 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 15 | 1.26 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 15 | 1.26 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 15 | 1.26 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 16 | 1.26 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 16 | 1.26 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 18 | 1.25 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 1 | 1.25 |
| (3,214) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 4 | 1.25 |
| (3,214) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 4 | 1.25 |
| (3,214) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 4 | 1.25 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 18 | 1.25 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 20 | 1.25 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 20 | 1.25 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 8 | 1.25 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 8 | 1.25 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 8 | 1.25 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 8 | 1.25 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 8 | 1.25 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 8 | 1.25 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 5 | 1.25 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 5 | 1.25 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 5 | 1.25 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 5 | 1.25 |
| (1,7406) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 12 | 1.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 17 | 1.25 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 17 | 1.25 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 16 | 1.25 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 19 | 1.25 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 19 | 1.25 |
| (1,6634) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 20 | 1.25 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 12 | 1.25 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 6 | 1.25 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 6 | 1.25 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 6 | 1.25 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 6 | 1.25 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 6 | 1.25 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 6 | 1.25 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 15 | 1.25 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 15 | 1.25 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 15 | 1.25 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 7 | 1.25 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 7 | 1.25 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 7 | 1.25 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 8 | 1.25 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 8 | 1.25 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 8 | 1.25 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 17 | 1.25 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 2 | 1.25 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 12 | 1.25 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 9 | 1.25 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 9 | 1.25 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 9 | 1.25 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 9 | 1.25 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 14 | 1.25 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 14 | 1.25 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 11 | 1.25 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 11 | 1.25 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 11 | 1.25 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 15 | 1.25 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 15 | 1.25 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 14 | 1.25 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 14 | 1.25 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 2 | 1.25 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 2 | 1.25 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 13 | 1.25 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 13 | 1.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 3 | 1.25 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 3 | 1.25 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 20 | 1.25 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 20 | 1.25 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 16 | 1.25 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 16 | 1.25 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 16 | 1.25 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 16 | 1.25 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 16 | 1.25 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 16 | 1.25 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 2 | 1.25 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 1 | 1.25 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 1 | 1.25 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 13 | 1.25 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 13 | 1.25 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 1 | 1.25 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 6 | 1.25 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 11 | 1.25 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 4 | 1.25 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 4 | 1.25 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 9 | 1.25 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 9 | 1.25 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 10 | 1.25 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 10 | 1.25 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 16 | 1.25 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 16 | 1.25 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 20 | 1.25 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 1 | 1.25 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 3 | 1.25 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 15 | 1.25 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 10 | 1.25 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 10 | 1.25 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 10 | 1.25 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 14 | 1.25 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 15 | 1.25 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 10 | 1.25 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 10 | 1.25 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 19 | 1.25 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 14 | 1.25 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 19 | 1.25 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 3 | 1.25 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 16 | 1.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 3 | 1.25 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 11 | 1.25 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 19 | 1.25 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 19 | 1.25 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 19 | 1.25 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 19 | 1.25 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 19 | 1.25 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 19 | 1.25 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 9 | 1.25 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 9 | 1.25 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 17 | 1.25 |
| (1,2499) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 20 | 1.25 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 7 | 1.25 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 16 | 1.25 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 13 | 1.25 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 13 | 1.25 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 8 | 1.25 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 8 | 1.25 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 8 | 1.25 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 2 | 1.25 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 3 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 4 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 4 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 4 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 4 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 4 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 4 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 4 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 4 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 4 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 12 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 12 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 12 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 12 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 12 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 12 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 12 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 12 | 1.25 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 12 | 1.25 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 4 | 1.25 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 1 | 1.25 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 9 | 1.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 9 | 1.25 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 9 | 1.25 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 3 | 1.25 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 3 | 1.25 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 3 | 1.25 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 5 | 1.25 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 5 | 1.25 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 5 | 1.25 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 7 | 1.25 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 7 | 1.25 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 7 | 1.25 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 8 | 1.25 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 9 | 1.25 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 10 | 1.25 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 10 | 1.25 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 10 | 1.25 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 11 | 1.25 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 11 | 1.25 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 11 | 1.25 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 5 | 1.25 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 5 | 1.25 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 5 | 1.25 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 5 | 1.25 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 5 | 1.25 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 5 | 1.25 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 5 | 1.25 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 5 | 1.25 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 5 | 1.25 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 11 | 1.25 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 12 | 1.25 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 4 | 1.25 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 9 | 1.25 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 11 | 1.25 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 8 | 1.25 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 8 | 1.25 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 8 | 1.25 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 8 | 1.25 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 1 | 1.25 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 1 | 1.25 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 1 | 1.25 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 12 | 1.25 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 12 | 1.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 2 | 1.25 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 19 | 1.25 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 6 | 1.25 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 18 | 1.25 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 17 | 1.25 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 4 | 1.25 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 4 | 1.25 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 8 | 1.25 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 8 | 1.25 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 12 | 1.25 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 12 | 1.25 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 9 | 1.25 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 1 | 1.25 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 1 | 1.25 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 1 | 1.25 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 4 | 1.25 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 4 | 1.25 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 4 | 1.25 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 11 | 1.25 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 11 | 1.25 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 11 | 1.25 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 7 | 1.25 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 7 | 1.25 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 7 | 1.25 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 16 | 1.25 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 19 | 1.25 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 19 | 1.25 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 19 | 1.25 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 14 | 1.25 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 7 | 1.25 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 15 | 1.25 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 5 | 1.25 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 16 | 1.25 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 16 | 1.25 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 16 | 1.25 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 4 | 1.25 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 4 | 1.25 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 3 | 1.25 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 17 | 1.25 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 19 | 1.25 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 13 | 1.25 |
| (1,187) | 1:67:A:SER:HA | 1:69:A:ARG:H | 10 | 1.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 2 | 1.25 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 12 | 1.25 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 12 | 1.25 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 12 | 1.25 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 16 | 1.25 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 14 | 1.25 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 14 | 1.25 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 14 | 1.25 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 12 | 1.25 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 13 | 1.25 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 13 | 1.25 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 13 | 1.25 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 10 | 1.25 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 10 | 1.25 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 10 | 1.25 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 13 | 1.25 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 11 | 1.25 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 11 | 1.25 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 11 | 1.25 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 16 | 1.25 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 16 | 1.25 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 16 | 1.25 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 8 | 1.24 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 4 | 1.24 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 8 | 1.24 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 8 | 1.24 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 19 | 1.24 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 19 | 1.24 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 19 | 1.24 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 19 | 1.24 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 19 | 1.24 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 19 | 1.24 |
| (3,783) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 4 | 1.24 |
| (3,783) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 4 | 1.24 |
| (3,605) | 1:115:A:SER:H | 1:122:A:LEU:H | 11 | 1.24 |
| (3,571) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 8 | 1.24 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 19 | 1.24 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 15 | 1.24 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 15 | 1.24 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 12 | 1.24 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 12 | 1.24 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 12 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 2 | 1.24 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 2 | 1.24 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 2 | 1.24 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 7 | 1.24 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 7 | 1.24 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 8 | 1.24 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 8 | 1.24 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 8 | 1.24 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 8 | 1.24 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 8 | 1.24 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 8 | 1.24 |
| (1,8225) | 1:108:A:SER:HA | 1:120:A:GLY:H | 8 | 1.24 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 20 | 1.24 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 16 | 1.24 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 9 | 1.24 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 6 | 1.24 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 16 | 1.24 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 16 | 1.24 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 16 | 1.24 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 16 | 1.24 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 16 | 1.24 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 16 | 1.24 |
| (1,6642) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 1 | 1.24 |
| (1,6642) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 1 | 1.24 |
| (1,6642) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 1 | 1.24 |
| (1,6582) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 15 | 1.24 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 5 | 1.24 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 5 | 1.24 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 5 | 1.24 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 1 | 1.24 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 1 | 1.24 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 1 | 1.24 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 1 | 1.24 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 1 | 1.24 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 1 | 1.24 |
| (1,6340) | 1:154:A:SER:H | 1:155:A:GLY:H | 3 | 1.24 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 13 | 1.24 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 13 | 1.24 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 13 | 1.24 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 11 | 1.24 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 11 | 1.24 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 11 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 11 | 1.24 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 11 | 1.24 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 11 | 1.24 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 13 | 1.24 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 11 | 1.24 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 18 | 1.24 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 6 | 1.24 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 6 | 1.24 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 17 | 1.24 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 17 | 1.24 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 9 | 1.24 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 12 | 1.24 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 7 | 1.24 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 7 | 1.24 |
| (1,5080) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 13 | 1.24 |
| (1,5080) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 13 | 1.24 |
| (1,5080) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 13 | 1.24 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 12 | 1.24 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 12 | 1.24 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 12 | 1.24 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 14 | 1.24 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 20 | 1.24 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 18 | 1.24 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 18 | 1.24 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 18 | 1.24 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 7 | 1.24 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 7 | 1.24 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 7 | 1.24 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 19 | 1.24 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 19 | 1.24 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 19 | 1.24 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 19 | 1.24 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 8 | 1.24 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 16 | 1.24 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 16 | 1.24 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 16 | 1.24 |
| (1,4513) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 15 | 1.24 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 6 | 1.24 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 6 | 1.24 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 12 | 1.24 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 12 | 1.24 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 1 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 1 | 1.24 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 1 | 1.24 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 1 | 1.24 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 1 | 1.24 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 1 | 1.24 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 8 | 1.24 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 8 | 1.24 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 8 | 1.24 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 8 | 1.24 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 8 | 1.24 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 8 | 1.24 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 5 | 1.24 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 5 | 1.24 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 5 | 1.24 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 5 | 1.24 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 2 | 1.24 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 9 | 1.24 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 9 | 1.24 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 17 | 1.24 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 17 | 1.24 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 1 | 1.24 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 1 | 1.24 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 1 | 1.24 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 1 | 1.24 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 1 | 1.24 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 1 | 1.24 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 16 | 1.24 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 16 | 1.24 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 16 | 1.24 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 16 | 1.24 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 9 | 1.24 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 9 | 1.24 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 4 | 1.24 |
| (1,3655) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 4 | 1.24 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 5 | 1.24 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 5 | 1.24 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 15 | 1.24 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 15 | 1.24 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 15 | 1.24 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 15 | 1.24 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 4 | 1.24 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 4 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 4 | 1.24 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 4 | 1.24 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 4 | 1.24 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 4 | 1.24 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 4 | 1.24 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 4 | 1.24 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 4 | 1.24 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 4 | 1.24 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 4 | 1.24 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 14 | 1.24 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 14 | 1.24 |
| (1,3353) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 14 | 1.24 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 14 | 1.24 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 14 | 1.24 |
| (1,3353) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 14 | 1.24 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 14 | 1.24 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 14 | 1.24 |
| (1,3353) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 14 | 1.24 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 7 | 1.24 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 7 | 1.24 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 9 | 1.24 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 9 | 1.24 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 18 | 1.24 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 4 | 1.24 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 9 | 1.24 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 18 | 1.24 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 20 | 1.24 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 20 | 1.24 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 10 | 1.24 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 20 | 1.24 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 1 | 1.24 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 10 | 1.24 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 11 | 1.24 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 9 | 1.24 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 20 | 1.24 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 20 | 1.24 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 20 | 1.24 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 20 | 1.24 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 17 | 1.24 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 1 | 1.24 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 1 | 1.24 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 19 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 7 | 1.24 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 11 | 1.24 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 8 | 1.24 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 13 | 1.24 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 8 | 1.24 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 8 | 1.24 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 8 | 1.24 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 19 | 1.24 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 8 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 17 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 17 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 17 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 17 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 17 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 17 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 17 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 17 | 1.24 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 17 | 1.24 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 10 | 1.24 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 10 | 1.24 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 10 | 1.24 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 14 | 1.24 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 14 | 1.24 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 14 | 1.24 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 12 | 1.24 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 11 | 1.24 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 17 | 1.24 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 7 | 1.24 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 12 | 1.24 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 12 | 1.24 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 1 | 1.24 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 1 | 1.24 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 1 | 1.24 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 1 | 1.24 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 1 | 1.24 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 1.24 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 1.24 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 1.24 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 11 | 1.24 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 11 | 1.24 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 11 | 1.24 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 11 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 18 | 1.24 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 15 | 1.24 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 15 | 1.24 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 15 | 1.24 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 10 | 1.24 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 10 | 1.24 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 10 | 1.24 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 10 | 1.24 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 10 | 1.24 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 10 | 1.24 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 2 | 1.24 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 5 | 1.24 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 11 | 1.24 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 11 | 1.24 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 11 | 1.24 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 14 | 1.24 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 14 | 1.24 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 14 | 1.24 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 14 | 1.24 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 17 | 1.24 |
| (1,1523) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 4 | 1.24 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 16 | 1.24 |
| (1,1489) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 11 | 1.24 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 8 | 1.24 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 8 | 1.24 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 20 | 1.24 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 17 | 1.24 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 9 | 1.24 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 12 | 1.24 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 19 | 1.24 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 10 | 1.24 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 19 | 1.24 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 19 | 1.24 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 19 | 1.24 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 19 | 1.24 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 19 | 1.24 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 19 | 1.24 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 17 | 1.24 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 18 | 1.24 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 18 | 1.24 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 18 | 1.24 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 10 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 5 | 1.24 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 5 | 1.24 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 5 | 1.24 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 14 | 1.24 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 2 | 1.24 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 2 | 1.24 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 14 | 1.24 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 14 | 1.24 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 16 | 1.24 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 16 | 1.24 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 9 | 1.24 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 15 | 1.24 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 15 | 1.24 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 15 | 1.24 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 1 | 1.24 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 15 | 1.24 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 11 | 1.24 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 11 | 1.24 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 11 | 1.24 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 18 | 1.24 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 18 | 1.24 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 18 | 1.24 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 18 | 1.24 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 18 | 1.24 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 18 | 1.24 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 18 | 1.24 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 18 | 1.24 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 18 | 1.24 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 2 | 1.24 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 2 | 1.24 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 2 | 1.24 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 2 | 1.24 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 2 | 1.24 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 2 | 1.24 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 2 | 1.24 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 2 | 1.24 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 2 | 1.24 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 13 | 1.24 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 13 | 1.24 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 13 | 1.24 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 13 | 1.24 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 13 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 13 | 1.24 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 13 | 1.24 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 13 | 1.24 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 13 | 1.24 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 17 | 1.24 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 17 | 1.24 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 17 | 1.24 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 6 | 1.24 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 4 | 1.24 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 4 | 1.24 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 12 | 1.24 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 17 | 1.24 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 17 | 1.24 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 17 | 1.24 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 5 | 1.24 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 5 | 1.24 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 5 | 1.24 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 3 | 1.24 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 9 | 1.24 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 9 | 1.24 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 9 | 1.24 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 2 | 1.24 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 2 | 1.24 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 2 | 1.24 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 15 | 1.24 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 15 | 1.24 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 15 | 1.24 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 15 | 1.24 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 15 | 1.24 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 15 | 1.24 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 17 | 1.24 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 9 | 1.24 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 12 | 1.24 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 20 | 1.24 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 19 | 1.24 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 9 | 1.24 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 9 | 1.24 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 9 | 1.24 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 20 | 1.24 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 8 | 1.24 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 6 | 1.24 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 9 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 9 | 1.24 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 9 | 1.24 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 7 | 1.24 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 2 | 1.23 |
| (4,79) | 1:15:A:MET:CB | 1:138:A:SER:H | 17 | 1.23 |
| (3,979) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 7 | 1.23 |
| (3,979) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 7 | 1.23 |
| (3,855) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 18 | 1.23 |
| (3,855) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 18 | 1.23 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 10 | 1.23 |
| (3,96) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 1 | 1.23 |
| (3,96) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 1 | 1.23 |
| (3,96) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 1 | 1.23 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 11 | 1.23 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 11 | 1.23 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 5 | 1.23 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 5 | 1.23 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 14 | 1.23 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 14 | 1.23 |
| (1,8829) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 5 | 1.23 |
| (1,8829) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 5 | 1.23 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 16 | 1.23 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 16 | 1.23 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 20 | 1.23 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 20 | 1.23 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 19 | 1.23 |
| (1,8066) | 1:90:A:ASN:H | 1:93:A:ILE:H | 5 | 1.23 |
| (1,8038) | 1:87:A:GLU:H | 1:88:A:LEU:HB2 | 14 | 1.23 |
| (1,7600) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 19 | 1.23 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 9 | 1.23 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 9 | 1.23 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 9 | 1.23 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 8 | 1.23 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 8 | 1.23 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 8 | 1.23 |
| (1,6969) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 15 | 1.23 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 15 | 1.23 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 13 | 1.23 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 2 | 1.23 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 17 | 1.23 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 7 | 1.23 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 15 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 16 | 1.23 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 11 | 1.23 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 11 | 1.23 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 11 | 1.23 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 4 | 1.23 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 9 | 1.23 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 9 | 1.23 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 9 | 1.23 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 15 | 1.23 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 15 | 1.23 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 15 | 1.23 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 12 | 1.23 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 3 | 1.23 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 3 | 1.23 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 6 | 1.23 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 6 | 1.23 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 6 | 1.23 |
| (1,5724) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 12 | 1.23 |
| (1,5724) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 12 | 1.23 |
| (1,5724) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 12 | 1.23 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 4 | 1.23 |
| (1,5457) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 14 | 1.23 |
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 20 | 1.23 |
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 20 | 1.23 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 20 | 1.23 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 3 | 1.23 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 3 | 1.23 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 3 | 1.23 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 11 | 1.23 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 11 | 1.23 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 19 | 1.23 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 7 | 1.23 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 7 | 1.23 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 10 | 1.23 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 10 | 1.23 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 6 | 1.23 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 6 | 1.23 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 9 | 1.23 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 9 | 1.23 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 7 | 1.23 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 7 | 1.23 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 11 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 11 | 1.23 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 15 | 1.23 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 15 | 1.23 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 1 | 1.23 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 1 | 1.23 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 1 | 1.23 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 1 | 1.23 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 1 | 1.23 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 1 | 1.23 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 12 | 1.23 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 12 | 1.23 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 12 | 1.23 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 4 | 1.23 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 4 | 1.23 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 4 | 1.23 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 4 | 1.23 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 4 | 1.23 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 4 | 1.23 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 4 | 1.23 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 4 | 1.23 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 11 | 1.23 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 11 | 1.23 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 11 | 1.23 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 11 | 1.23 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 11 | 1.23 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 11 | 1.23 |
| (1,3583) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 7 | 1.23 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 2 | 1.23 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 2 | 1.23 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 2 | 1.23 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 2 | 1.23 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 2 | 1.23 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 2 | 1.23 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 2 | 1.23 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 17 | 1.23 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 16 | 1.23 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 16 | 1.23 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 16 | 1.23 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 12 | 1.23 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 16 | 1.23 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 4 | 1.23 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 5 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 19 | 1.23 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 19 | 1.23 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 1 | 1.23 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 20 | 1.23 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 9 | 1.23 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 9 | 1.23 |
| (1,3157) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 4 | 1.23 |
| (1,3157) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 4 | 1.23 |
| (1,3157) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 4 | 1.23 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 18 | 1.23 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 18 | 1.23 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 18 | 1.23 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 12 | 1.23 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 1 | 1.23 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 10 | 1.23 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 12 | 1.23 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 4 | 1.23 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 4 | 1.23 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 4 | 1.23 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 7 | 1.23 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 4 | 1.23 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 15 | 1.23 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 13 | 1.23 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 1 | 1.23 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 9 | 1.23 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 9 | 1.23 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 9 | 1.23 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 14 | 1.23 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 1 | 1.23 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 4 | 1.23 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 1 | 1.23 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 15 | 1.23 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 16 | 1.23 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 5 | 1.23 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 3 | 1.23 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 15 | 1.23 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 4 | 1.23 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 18 | 1.23 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 7 | 1.23 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 7 | 1.23 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 7 | 1.23 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 19 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 19 | 1.23 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 19 | 1.23 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 4 | 1.23 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 4 | 1.23 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 4 | 1.23 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 20 | 1.23 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 2 | 1.23 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 2 | 1.23 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 16 | 1.23 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 16 | 1.23 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 16 | 1.23 |
| (1,2029) | 1:152:A:THR:H | 1:155:A:GLY:H | 7 | 1.23 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 18 | 1.23 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 18 | 1.23 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 18 | 1.23 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 3 | 1.23 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 17 | 1.23 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 17 | 1.23 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 17 | 1.23 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 15 | 1.23 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 15 | 1.23 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 15 | 1.23 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 14 | 1.23 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 14 | 1.23 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 14 | 1.23 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 14 | 1.23 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 14 | 1.23 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 14 | 1.23 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 14 | 1.23 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 14 | 1.23 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 14 | 1.23 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 19 | 1.23 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 19 | 1.23 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 19 | 1.23 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 19 | 1.23 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 19 | 1.23 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 19 | 1.23 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 19 | 1.23 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 19 | 1.23 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 19 | 1.23 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 8 | 1.23 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 8 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 8 | 1.23 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 8 | 1.23 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 8 | 1.23 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 8 | 1.23 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 1 | 1.23 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 1 | 1.23 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 4 | 1.23 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 4 | 1.23 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 4 | 1.23 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 5 | 1.23 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 3 | 1.23 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 1 | 1.23 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 2 | 1.23 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 20 | 1.23 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 20 | 1.23 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 19 | 1.23 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 19 | 1.23 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 19 | 1.23 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 19 | 1.23 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 19 | 1.23 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 19 | 1.23 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 19 | 1.23 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 19 | 1.23 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 19 | 1.23 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 19 | 1.23 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 19 | 1.23 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 8 | 1.23 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 2 | 1.23 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 9 | 1.23 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 19 | 1.23 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 19 | 1.23 |
| (1,1109) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 19 | 1.23 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 15 | 1.23 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 15 | 1.23 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 15 | 1.23 |
| (1,989) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 14 | 1.23 |
| (1,989) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 14 | 1.23 |
| (1,989) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 14 | 1.23 |
| (1,893) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 12 | 1.23 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 5 | 1.23 |
| (1,875) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 1.23 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 7 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 7 | 1.23 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 7 | 1.23 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 7 | 1.23 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 7 | 1.23 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 7 | 1.23 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 13 | 1.23 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 13 | 1.23 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 13 | 1.23 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 13 | 1.23 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 13 | 1.23 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 13 | 1.23 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 7 | 1.23 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 12 | 1.23 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 3 | 1.23 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 13 | 1.23 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 5 | 1.23 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 18 | 1.23 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 18 | 1.23 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 18 | 1.23 |
| (1,649) | 1:94:A:GLN:H | 1:96:A:ILE:H | 15 | 1.23 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 7 | 1.23 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 7 | 1.23 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 7 | 1.23 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 7 | 1.23 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 15 | 1.23 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 15 | 1.23 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 18 | 1.23 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 18 | 1.23 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 19 | 1.23 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 19 | 1.23 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 5 | 1.23 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 5 | 1.23 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 5 | 1.23 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 9 | 1.23 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 9 | 1.23 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 9 | 1.23 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 18 | 1.23 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 18 | 1.23 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 18 | 1.23 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 6 | 1.23 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 13 | 1.23 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 4 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 4 | 1.23 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 4 | 1.23 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 9 | 1.23 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 1 | 1.23 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 11 | 1.23 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 8 | 1.23 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 18 | 1.23 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 18 | 1.23 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 18 | 1.23 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 2 | 1.23 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 12 | 1.23 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 12 | 1.23 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 19 | 1.23 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 19 | 1.23 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 12 | 1.23 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 12 | 1.23 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 12 | 1.23 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 20 | 1.23 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 20 | 1.23 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 20 | 1.23 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 14 | 1.23 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 14 | 1.23 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 14 | 1.23 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 4 | 1.23 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 7 | 1.23 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 1 | 1.23 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 10 | 1.23 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 19 | 1.23 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 3 | 1.23 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 5 | 1.23 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 5 | 1.23 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 8 | 1.23 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 8 | 1.23 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 12 | 1.23 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 12 | 1.23 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 14 | 1.23 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 14 | 1.23 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 2 | 1.23 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 2 | 1.23 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 2 | 1.23 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 14 | 1.23 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 14 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 14 | 1.23 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 3 | 1.23 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 3 | 1.23 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 3 | 1.23 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 11 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 3 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 3 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 3 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 3 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 3 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 3 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 6 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 6 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 6 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 6 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 6 | 1.23 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 6 | 1.23 |
| (1,90) | 1:57:A:CYS:H | 1:57:A:CYS:HB3 | 20 | 1.23 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 4 | 1.23 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 4 | 1.23 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 4 | 1.23 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 14 | 1.23 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD21 | 9 | 1.22 |
| (4,139) | 1:90:A:ASN:CB | 1:47:A:ASN:HD22 | 9 | 1.22 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 19 | 1.22 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 11 | 1.22 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 12 | 1.22 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 12 | 1.22 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 12 | 1.22 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 4 | 1.22 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 4 | 1.22 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 4 | 1.22 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 4 | 1.22 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 4 | 1.22 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 4 | 1.22 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 4 | 1.22 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 4 | 1.22 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 4 | 1.22 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 7 | 1.22 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 7 | 1.22 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 7 | 1.22 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 7 | 1.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 7 | 1.22 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 7 | 1.22 |
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 2 | 1.22 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 2 | 1.22 |
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 9 | 1.22 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 9 | 1.22 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 20 | 1.22 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 20 | 1.22 |
| (1,7406) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 3 | 1.22 |
| (1,7277) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 4 | 1.22 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 12 | 1.22 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 16 | 1.22 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 4 | 1.22 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 4 | 1.22 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 4 | 1.22 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 8 | 1.22 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 8 | 1.22 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 2 | 1.22 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 2 | 1.22 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 2 | 1.22 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 11 | 1.22 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 9 | 1.22 |
| (1,6289) | 1:150:A:VAL:H | 1:157:A:HIS:H | 5 | 1.22 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 20 | 1.22 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 11 | 1.22 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 11 | 1.22 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 11 | 1.22 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 13 | 1.22 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 13 | 1.22 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 13 | 1.22 |
| (1,6006) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 14 | 1.22 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 5 | 1.22 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 5 | 1.22 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 5 | 1.22 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 5 | 1.22 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 5 | 1.22 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 5 | 1.22 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 5 | 1.22 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 4 | 1.22 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 4 | 1.22 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 4 | 1.22 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 4 | 1.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5321) | 1:88:A:LEU:HA | 1:88:A:LEU:HD21 | 14 | 1.22 |
| (1,5321) | 1:88:A:LEU:HA | 1:88:A:LEU:HD22 | 14 | 1.22 |
| (1,5321) | 1:88:A:LEU:HA | 1:88:A:LEU:HD23 | 14 | 1.22 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 1 | 1.22 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 13 | 1.22 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 13 | 1.22 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 13 | 1.22 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 13 | 1.22 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 13 | 1.22 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 13 | 1.22 |
| (1,4850) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 1 | 1.22 |
| (1,4850) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 1 | 1.22 |
| (1,4850) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 1 | 1.22 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 5 | 1.22 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB2 | 6 | 1.22 |
| (1,4515) | 1:141:A:LEU:HA | 1:142:A:ARG:HB3 | 6 | 1.22 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 5 | 1.22 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 5 | 1.22 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 5 | 1.22 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 5 | 1.22 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 1.22 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 3 | 1.22 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 3 | 1.22 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 3 | 1.22 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 3 | 1.22 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 3 | 1.22 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 3 | 1.22 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 19 | 1.22 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 19 | 1.22 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 19 | 1.22 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 19 | 1.22 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 19 | 1.22 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 19 | 1.22 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 16 | 1.22 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 16 | 1.22 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 7 | 1.22 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 7 | 1.22 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 6 | 1.22 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 6 | 1.22 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 6 | 1.22 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 14 | 1.22 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 14 | 1.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 14 | 1.22 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 14 | 1.22 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 14 | 1.22 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 14 | 1.22 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 3 | 1.22 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 3 | 1.22 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 3 | 1.22 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 2 | 1.22 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 2 | 1.22 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 2 | 1.22 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 2 | 1.22 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 7 | 1.22 |
| (1,3581) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 7 | 1.22 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 7 | 1.22 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 7 | 1.22 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 11 | 1.22 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 17 | 1.22 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 17 | 1.22 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 7 | 1.22 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 2 | 1.22 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 2 | 1.22 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 2 | 1.22 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 18 | 1.22 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 2 | 1.22 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 13 | 1.22 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 20 | 1.22 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 11 | 1.22 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 11 | 1.22 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 11 | 1.22 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 2 | 1.22 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 2 | 1.22 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 2 | 1.22 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 8 | 1.22 |
| (1,3125) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 8 | 1.22 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 13 | 1.22 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 15 | 1.22 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 15 | 1.22 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 15 | 1.22 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 15 | 1.22 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 1.22 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 1 | 1.22 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 11 | 1.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 2 | 1.22 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 1 | 1.22 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 13 | 1.22 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 10 | 1.22 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 10 | 1.22 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 10 | 1.22 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 11 | 1.22 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 5 | 1.22 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 5 | 1.22 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 17 | 1.22 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 1 | 1.22 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 7 | 1.22 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 13 | 1.22 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 13 | 1.22 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 10 | 1.22 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 10 | 1.22 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 10 | 1.22 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 10 | 1.22 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 18 | 1.22 |
| (1,2481) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 14 | 1.22 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 18 | 1.22 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 9 | 1.22 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 1.22 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 16 | 1.22 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 7 | 1.22 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 3 | 1.22 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 11 | 1.22 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 11 | 1.22 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 11 | 1.22 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 20 | 1.22 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 20 | 1.22 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 20 | 1.22 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 15 | 1.22 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 15 | 1.22 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 15 | 1.22 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 16 | 1.22 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 16 | 1.22 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 16 | 1.22 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 2 | 1.22 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 2 | 1.22 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 2 | 1.22 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 2 | 1.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 2 | 1.22 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 2 | 1.22 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 2 | 1.22 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 2 | 1.22 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 2 | 1.22 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 8 | 1.22 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 8 | 1.22 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 8 | 1.22 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 12 | 1.22 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 12 | 1.22 |
| (1,2079) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 12 | 1.22 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 4 | 1.22 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 17 | 1.22 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 17 | 1.22 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 17 | 1.22 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 17 | 1.22 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 17 | 1.22 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 17 | 1.22 |
| (1,2021) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 10 | 1.22 |
| (1,2021) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 10 | 1.22 |
| (1,2021) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 10 | 1.22 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 11 | 1.22 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 11 | 1.22 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 17 | 1.22 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 17 | 1.22 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 7 | 1.22 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 7 | 1.22 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 7 | 1.22 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 20 | 1.22 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 14 | 1.22 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 2 | 1.22 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 2 | 1.22 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 12 | 1.22 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 7 | 1.22 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 9 | 1.22 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 9 | 1.22 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 9 | 1.22 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 9 | 1.22 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 9 | 1.22 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 9 | 1.22 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 9 | 1.22 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 9 | 1.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 9 | 1.22 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 18 | 1.22 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 18 | 1.22 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 18 | 1.22 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 1.22 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 7 | 1.22 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 7 | 1.22 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 7 | 1.22 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 7 | 1.22 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 7 | 1.22 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 7 | 1.22 |
| (1,1509) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 14 | 1.22 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 10 | 1.22 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 15 | 1.22 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 11 | 1.22 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 11 | 1.22 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 11 | 1.22 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 14 | 1.22 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 14 | 1.22 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 14 | 1.22 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 17 | 1.22 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 17 | 1.22 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 17 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 7 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 7 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 7 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 7 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 7 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 7 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 10 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 10 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 10 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 10 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 10 | 1.22 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 10 | 1.22 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 5 | 1.22 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 16 | 1.22 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 3 | 1.22 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 6 | 1.22 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 5 | 1.22 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 5 | 1.22 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 5 | 1.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 2 | 1.22 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 2 | 1.22 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 2 | 1.22 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 4 | 1.22 |
| (1,959) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 17 | 1.22 |
| (1,959) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 17 | 1.22 |
| (1,959) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 17 | 1.22 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 13 | 1.22 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 13 | 1.22 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 13 | 1.22 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 10 | 1.22 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 10 | 1.22 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 10 | 1.22 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 10 | 1.22 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 10 | 1.22 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 10 | 1.22 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 8 | 1.22 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 8 | 1.22 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 8 | 1.22 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 12 | 1.22 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 12 | 1.22 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 12 | 1.22 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 13 | 1.22 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 13 | 1.22 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 13 | 1.22 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 5 | 1.22 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 4 | 1.22 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 4 | 1.22 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 4 | 1.22 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 11 | 1.22 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 11 | 1.22 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 11 | 1.22 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 3 | 1.22 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 14 | 1.22 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 14 | 1.22 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 14 | 1.22 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 7 | 1.22 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 7 | 1.22 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 11 | 1.22 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 15 | 1.22 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 12 | 1.22 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 12 | 1.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 12 | 1.22 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 14 | 1.22 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 14 | 1.22 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 14 | 1.22 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 15 | 1.22 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 15 | 1.22 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 14 | 1.22 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 14 | 1.22 |
| (1,307) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 14 | 1.22 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 4 | 1.22 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 4 | 1.22 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 4 | 1.22 |
| (1,290) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 5 | 1.22 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 14 | 1.22 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 14 | 1.22 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 14 | 1.22 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 17 | 1.22 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 17 | 1.22 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 17 | 1.22 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 19 | 1.22 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 19 | 1.22 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 19 | 1.22 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 1 | 1.22 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 9 | 1.22 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 11 | 1.22 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 7 | 1.22 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 12 | 1.22 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 16 | 1.22 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 18 | 1.22 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 15 | 1.22 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 15 | 1.22 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 8 | 1.22 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 8 | 1.22 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 8 | 1.22 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 5 | 1.22 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 1 | 1.22 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 1 | 1.22 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 1 | 1.22 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 10 | 1.22 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 10 | 1.22 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 10 | 1.22 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 16 | 1.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 16 | 1.22 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 16 | 1.22 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 11 | 1.22 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 5 | 1.22 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 7 | 1.22 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 7 | 1.22 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 12 | 1.22 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 14 | 1.22 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 12 | 1.22 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 12 | 1.22 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 17 | 1.22 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 17 | 1.22 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 2 | 1.21 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 8 | 1.21 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 8 | 1.21 |
| (4,189) | 1:131:A:GLN:CB | 1:15:A:MET:H | 14 | 1.21 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 2 | 1.21 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 2 | 1.21 |
| (3,490) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 9 | 1.21 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 6 | 1.21 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 6 | 1.21 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 6 | 1.21 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 2 | 1.21 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 2 | 1.21 |
| (3,104) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 16 | 1.21 |
| (3,104) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 16 | 1.21 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 15 | 1.21 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 15 | 1.21 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 13 | 1.21 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 13 | 1.21 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 13 | 1.21 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 13 | 1.21 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 13 | 1.21 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 13 | 1.21 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 19 | 1.21 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 19 | 1.21 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 19 | 1.21 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 19 | 1.21 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 1 | 1.21 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 1 | 1.21 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 8 | 1.21 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 18 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 1 | 1.21 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 4 | 1.21 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 2 | 1.21 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 4 | 1.21 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 18 | 1.21 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 18 | 1.21 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 18 | 1.21 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 1 | 1.21 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 18 | 1.21 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 18 | 1.21 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 18 | 1.21 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 16 | 1.21 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 14 | 1.21 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 3 | 1.21 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 3 | 1.21 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 3 | 1.21 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 4 | 1.21 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 18 | 1.21 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 11 | 1.21 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 11 | 1.21 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 11 | 1.21 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 11 | 1.21 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 11 | 1.21 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 11 | 1.21 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 11 | 1.21 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 11 | 1.21 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 11 | 1.21 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 13 | 1.21 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 13 | 1.21 |
| (1,6055) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 13 | 1.21 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 4 | 1.21 |
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 4 | 1.21 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 5 | 1.21 |
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 5 | 1.21 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 5 | 1.21 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 12 | 1.21 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 12 | 1.21 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 12 | 1.21 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 12 | 1.21 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 12 | 1.21 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 12 | 1.21 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 12 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 12 | 1.21 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 12 | 1.21 |
| (1,5877) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 6 | 1.21 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 1 | 1.21 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 1 | 1.21 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 16 | 1.21 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 16 | 1.21 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 16 | 1.21 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 16 | 1.21 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 5 | 1.21 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 17 | 1.21 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 16 | 1.21 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 16 | 1.21 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 16 | 1.21 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 16 | 1.21 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 16 | 1.21 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 16 | 1.21 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 16 | 1.21 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 16 | 1.21 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 16 | 1.21 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 2 | 1.21 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 2 | 1.21 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 2 | 1.21 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 11 | 1.21 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 11 | 1.21 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 3 | 1.21 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 3 | 1.21 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 16 | 1.21 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 11 | 1.21 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 11 | 1.21 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 18 | 1.21 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 18 | 1.21 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 3 | 1.21 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 3 | 1.21 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 2 | 1.21 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 2 | 1.21 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 2 | 1.21 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 2 | 1.21 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 2 | 1.21 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 2 | 1.21 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 3 | 1.21 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 3 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 9 | 1.21 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 9 | 1.21 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 18 | 1.21 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 18 | 1.21 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 11 | 1.21 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 11 | 1.21 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 11 | 1.21 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 11 | 1.21 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 11 | 1.21 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 11 | 1.21 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 11 | 1.21 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 11 | 1.21 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 11 | 1.21 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 11 | 1.21 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 11 | 1.21 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 11 | 1.21 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 11 | 1.21 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 11 | 1.21 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 11 | 1.21 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 10 | 1.21 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 10 | 1.21 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 1 | 1.21 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 1 | 1.21 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 9 | 1.21 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 9 | 1.21 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 9 | 1.21 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 9 | 1.21 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 9 | 1.21 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 9 | 1.21 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 19 | 1.21 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 19 | 1.21 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 19 | 1.21 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 19 | 1.21 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 19 | 1.21 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 19 | 1.21 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 17 | 1.21 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 17 | 1.21 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 17 | 1.21 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 17 | 1.21 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 17 | 1.21 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 17 | 1.21 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 17 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 17 | 1.21 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 17 | 1.21 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 17 | 1.21 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 17 | 1.21 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 17 | 1.21 |
| (1,3511) | 1:5:A:GLU:HB3 | 1:6:A:LYS:H | 8 | 1.21 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 10 | 1.21 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 17 | 1.21 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 17 | 1.21 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 17 | 1.21 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 13 | 1.21 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 12 | 1.21 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 12 | 1.21 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 19 | 1.21 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 15 | 1.21 |
| (1,3091) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 16 | 1.21 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 1 | 1.21 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 12 | 1.21 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 8 | 1.21 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 8 | 1.21 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 8 | 1.21 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 10 | 1.21 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 16 | 1.21 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 15 | 1.21 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 14 | 1.21 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 18 | 1.21 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 18 | 1.21 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 15 | 1.21 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 1 | 1.21 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 1 | 1.21 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 7 | 1.21 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 19 | 1.21 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 6 | 1.21 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 6 | 1.21 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 6 | 1.21 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 13 | 1.21 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 13 | 1.21 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 16 | 1.21 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 12 | 1.21 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 12 | 1.21 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 12 | 1.21 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 11 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 1 | 1.21 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 4 | 1.21 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 4 | 1.21 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 4 | 1.21 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 19 | 1.21 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 19 | 1.21 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 19 | 1.21 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 20 | 1.21 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 20 | 1.21 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 20 | 1.21 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 20 | 1.21 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 20 | 1.21 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 20 | 1.21 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 20 | 1.21 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 20 | 1.21 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 20 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 5 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 5 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 5 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 5 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 5 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 5 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 5 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 5 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 5 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 14 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 14 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 14 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 14 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 14 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 14 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 14 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 14 | 1.21 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 14 | 1.21 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 15 | 1.21 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 15 | 1.21 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 15 | 1.21 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 12 | 1.21 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 12 | 1.21 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 12 | 1.21 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 9 | 1.21 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 20 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 20 | 1.21 |
| (1,2069) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 20 | 1.21 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 7 | 1.21 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 7 | 1.21 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 10 | 1.21 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 10 | 1.21 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 6 | 1.21 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 6 | 1.21 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 6 | 1.21 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 8 | 1.21 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 8 | 1.21 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 8 | 1.21 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 16 | 1.21 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 1.21 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 11 | 1.21 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 4 | 1.21 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 18 | 1.21 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 8 | 1.21 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 8 | 1.21 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 20 | 1.21 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 20 | 1.21 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 17 | 1.21 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 10 | 1.21 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 20 | 1.21 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 20 | 1.21 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 20 | 1.21 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 20 | 1.21 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 20 | 1.21 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 20 | 1.21 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 20 | 1.21 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 20 | 1.21 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 20 | 1.21 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 1 | 1.21 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 17 | 1.21 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 17 | 1.21 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 17 | 1.21 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 9 | 1.21 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 12 | 1.21 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 8 | 1.21 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 18 | 1.21 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 12 | 1.21 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 16 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 16 | 1.21 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 16 | 1.21 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 16 | 1.21 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 16 | 1.21 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 16 | 1.21 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 5 | 1.21 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 16 | 1.21 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 10 | 1.21 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 10 | 1.21 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 19 | 1.21 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 6 | 1.21 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 18 | 1.21 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 18 | 1.21 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 18 | 1.21 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 1 | 1.21 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 1 | 1.21 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 1 | 1.21 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 4 | 1.21 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 4 | 1.21 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 4 | 1.21 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 10 | 1.21 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 10 | 1.21 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 10 | 1.21 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 11 | 1.21 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 6 | 1.21 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 6 | 1.21 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 6 | 1.21 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 9 | 1.21 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 9 | 1.21 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 9 | 1.21 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 13 | 1.21 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 13 | 1.21 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 13 | 1.21 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 2 | 1.21 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 2 | 1.21 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 2 | 1.21 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 5 | 1.21 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 3 | 1.21 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 11 | 1.21 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 14 | 1.21 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 20 | 1.21 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 20 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 20 | 1.21 |
| (1,829) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 7 | 1.21 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 11 | 1.21 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 11 | 1.21 |
| (1,817) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 11 | 1.21 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 11 | 1.21 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 11 | 1.21 |
| (1,817) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 11 | 1.21 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 18 | 1.21 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 10 | 1.21 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 10 | 1.21 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 2 | 1.21 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 2 | 1.21 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 2 | 1.21 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 9 | 1.21 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 9 | 1.21 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 9 | 1.21 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 1 | 1.21 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 1 | 1.21 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 1 | 1.21 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 1 | 1.21 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 1 | 1.21 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 1 | 1.21 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 7 | 1.21 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 7 | 1.21 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 7 | 1.21 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 10 | 1.21 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 10 | 1.21 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 10 | 1.21 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 10 | 1.21 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 10 | 1.21 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 10 | 1.21 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 8 | 1.21 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 8 | 1.21 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 8 | 1.21 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 2 | 1.21 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 2 | 1.21 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 2 | 1.21 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 13 | 1.21 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 9 | 1.21 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 9 | 1.21 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 9 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 18 | 1.21 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 6 | 1.21 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 6 | 1.21 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 9 | 1.21 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 9 | 1.21 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 10 | 1.21 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 1 | 1.21 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 1 | 1.21 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 1 | 1.21 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 1 | 1.21 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 16 | 1.21 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 6 | 1.21 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 6 | 1.21 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 6 | 1.21 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 6 | 1.21 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 1 | 1.21 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 1 | 1.21 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 1 | 1.21 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 4 | 1.21 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 14 | 1.21 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 17 | 1.21 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 6 | 1.21 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 16 | 1.21 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 12 | 1.21 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 12 | 1.21 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 2 | 1.21 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 1 | 1.21 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 17 | 1.21 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 18 | 1.21 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 18 | 1.21 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 18 | 1.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 17 | 1.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 17 | 1.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 17 | 1.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 17 | 1.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 17 | 1.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 17 | 1.21 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 7 | 1.21 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 7 | 1.21 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 7 | 1.21 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 6 | 1.21 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 6 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 9 | 1.21 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 14 | 1.21 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 14 | 1.21 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 4 | 1.2 |
| (4,223) | 1:15:A:MET:CB | 1:53:A:ALA:H | 17 | 1.2 |
| (4,63) | 1:15:A:MET:CB | 1:121:A:ASP:H | 17 | 1.2 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 9 | 1.2 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 9 | 1.2 |
| (3,307) | 1:33:A:GLN:HE21 | 1:35:A:GLU:H | 6 | 1.2 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 4 | 1.2 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 4 | 1.2 |
| (3,96) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 6 | 1.2 |
| (3,96) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 6 | 1.2 |
| (3,96) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 6 | 1.2 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 3 | 1.2 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 3 | 1.2 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 5 | 1.2 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 5 | 1.2 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 5 | 1.2 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 5 | 1.2 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 5 | 1.2 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 5 | 1.2 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 9 | 1.2 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 9 | 1.2 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 6 | 1.2 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 6 | 1.2 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 9 | 1.2 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 4 | 1.2 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 4 | 1.2 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 16 | 1.2 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 10 | 1.2 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 10 | 1.2 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 10 | 1.2 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 12 | 1.2 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 12 | 1.2 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 12 | 1.2 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 18 | 1.2 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 18 | 1.2 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 18 | 1.2 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 11 | 1.2 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 11 | 1.2 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 11 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 11 | 1.2 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 11 | 1.2 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 11 | 1.2 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 11 | 1.2 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 11 | 1.2 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 11 | 1.2 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 13 | 1.2 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 13 | 1.2 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 13 | 1.2 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 9 | 1.2 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 11 | 1.2 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 11 | 1.2 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 15 | 1.2 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 15 | 1.2 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 15 | 1.2 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 20 | 1.2 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 20 | 1.2 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 20 | 1.2 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 20 | 1.2 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 11 | 1.2 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 11 | 1.2 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 11 | 1.2 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 2 | 1.2 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 4 | 1.2 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 6 | 1.2 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 15 | 1.2 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 15 | 1.2 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 8 | 1.2 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 8 | 1.2 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 13 | 1.2 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 13 | 1.2 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 13 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 1 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 1 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 1 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 1 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 1 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 1 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 7 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 7 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 7 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 7 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 7 | 1.2 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 7 | 1.2 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 20 | 1.2 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 20 | 1.2 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 9 | 1.2 |
| (1,4425) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 9 | 1.2 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 1.2 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 11 | 1.2 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 14 | 1.2 |
| (1,4401) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 14 | 1.2 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 10 | 1.2 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 16 | 1.2 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 16 | 1.2 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 16 | 1.2 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 16 | 1.2 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 7 | 1.2 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 7 | 1.2 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 18 | 1.2 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 18 | 1.2 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 16 | 1.2 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 16 | 1.2 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 4 | 1.2 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 2 | 1.2 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 2 | 1.2 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 2 | 1.2 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 14 | 1.2 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 14 | 1.2 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 14 | 1.2 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 14 | 1.2 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 14 | 1.2 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 14 | 1.2 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 3 | 1.2 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 3 | 1.2 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 3 | 1.2 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 3 | 1.2 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 3 | 1.2 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 3 | 1.2 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 11 | 1.2 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 11 | 1.2 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 11 | 1.2 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 11 | 1.2 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 11 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 11 | 1.2 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 10 | 1.2 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 10 | 1.2 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 11 | 1.2 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 11 | 1.2 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 9 | 1.2 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 9 | 1.2 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 9 | 1.2 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 9 | 1.2 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 9 | 1.2 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 9 | 1.2 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 8 | 1.2 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 8 | 1.2 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 8 | 1.2 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 6 | 1.2 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 7 | 1.2 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 7 | 1.2 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 7 | 1.2 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 5 | 1.2 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 5 | 1.2 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 5 | 1.2 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 5 | 1.2 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 13 | 1.2 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 7 | 1.2 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 13 | 1.2 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 4 | 1.2 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 9 | 1.2 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 14 | 1.2 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 10 | 1.2 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 10 | 1.2 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 14 | 1.2 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 7 | 1.2 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 7 | 1.2 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 7 | 1.2 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 13 | 1.2 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 13 | 1.2 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 13 | 1.2 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 1 | 1.2 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 4 | 1.2 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 7 | 1.2 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 7 | 1.2 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 7 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 16 | 1.2 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 20 | 1.2 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 20 | 1.2 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 7 | 1.2 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 18 | 1.2 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 20 | 1.2 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 4 | 1.2 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 5 | 1.2 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 8 | 1.2 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 11 | 1.2 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 11 | 1.2 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 11 | 1.2 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 17 | 1.2 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 17 | 1.2 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 17 | 1.2 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 7 | 1.2 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 7 | 1.2 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 7 | 1.2 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 4 | 1.2 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 7 | 1.2 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 7 | 1.2 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 7 | 1.2 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 7 | 1.2 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 3 | 1.2 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 3 | 1.2 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 2 | 1.2 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 2 | 1.2 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 3 | 1.2 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 14 | 1.2 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 14 | 1.2 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 14 | 1.2 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 16 | 1.2 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 3 | 1.2 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 19 | 1.2 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 9 | 1.2 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 16 | 1.2 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 8 | 1.2 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 5 | 1.2 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 5 | 1.2 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 5 | 1.2 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 13 | 1.2 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 13 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 13 | 1.2 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 13 | 1.2 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 13 | 1.2 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 13 | 1.2 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 13 | 1.2 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 13 | 1.2 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 13 | 1.2 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 3 | 1.2 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 3 | 1.2 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 3 | 1.2 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 3 | 1.2 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 3 | 1.2 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 3 | 1.2 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 3 | 1.2 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 3 | 1.2 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 3 | 1.2 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 3 | 1.2 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 3 | 1.2 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 3 | 1.2 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 5 | 1.2 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 7 | 1.2 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 8 | 1.2 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 6 | 1.2 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 6 | 1.2 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 6 | 1.2 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 16 | 1.2 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 16 | 1.2 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 16 | 1.2 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 14 | 1.2 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 14 | 1.2 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 14 | 1.2 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 14 | 1.2 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 14 | 1.2 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 14 | 1.2 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 18 | 1.2 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 18 | 1.2 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 18 | 1.2 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 3 | 1.2 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 3 | 1.2 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 3 | 1.2 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 14 | 1.2 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 7 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 3 | 1.2 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 17 | 1.2 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 16 | 1.2 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 4 | 1.2 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 12 | 1.2 |
| (1,1489) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 10 | 1.2 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 11 | 1.2 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 8 | 1.2 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 1 | 1.2 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 13 | 1.2 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 18 | 1.2 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 18 | 1.2 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 18 | 1.2 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 18 | 1.2 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 11 | 1.2 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 17 | 1.2 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 17 | 1.2 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 17 | 1.2 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 17 | 1.2 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 17 | 1.2 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 17 | 1.2 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 1 | 1.2 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 13 | 1.2 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 13 | 1.2 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 13 | 1.2 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 4 | 1.2 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 4 | 1.2 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 11 | 1.2 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 13 | 1.2 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 13 | 1.2 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 13 | 1.2 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 10 | 1.2 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 15 | 1.2 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 17 | 1.2 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 11 | 1.2 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 5 | 1.2 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 18 | 1.2 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 6 | 1.2 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 6 | 1.2 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 12 | 1.2 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 3 | 1.2 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 3 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 13 | 1.2 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 8 | 1.2 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 3 | 1.2 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 3 | 1.2 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 3 | 1.2 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 4 | 1.2 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 4 | 1.2 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 12 | 1.2 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 12 | 1.2 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 12 | 1.2 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 6 | 1.2 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 6 | 1.2 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 6 | 1.2 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 20 | 1.2 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 20 | 1.2 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 20 | 1.2 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 2 | 1.2 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 2 | 1.2 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 2 | 1.2 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 8 | 1.2 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 8 | 1.2 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 8 | 1.2 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 14 | 1.2 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 14 | 1.2 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 14 | 1.2 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 8 | 1.2 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 6 | 1.2 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 6 | 1.2 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 6 | 1.2 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 17 | 1.2 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 15 | 1.2 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 5 | 1.2 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 20 | 1.2 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 8 | 1.2 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 8 | 1.2 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 8 | 1.2 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 8 | 1.2 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 4 | 1.2 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 4 | 1.2 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 4 | 1.2 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 18 | 1.2 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 18 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 18 | 1.2 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 18 | 1.2 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 18 | 1.2 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 18 | 1.2 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 18 | 1.2 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 18 | 1.2 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 18 | 1.2 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 12 | 1.2 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 12 | 1.2 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 12 | 1.2 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 4 | 1.2 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 4 | 1.2 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 4 | 1.2 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 2 | 1.2 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 18 | 1.2 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 18 | 1.2 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 18 | 1.2 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 18 | 1.2 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 18 | 1.2 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 18 | 1.2 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 4 | 1.2 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 4 | 1.2 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 4 | 1.2 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 4 | 1.2 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 18 | 1.2 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 18 | 1.2 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 6 | 1.2 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 19 | 1.19 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 2 | 1.19 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 11 | 1.19 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 11 | 1.19 |
| (3,630) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 5 | 1.19 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 3 | 1.19 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 3 | 1.19 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 3 | 1.19 |
| (3,458) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HG12 | 6 | 1.19 |
| (3,458) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HG12 | 6 | 1.19 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 16 | 1.19 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 16 | 1.19 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 16 | 1.19 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 16 | 1.19 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 16 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 16 | 1.19 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 16 | 1.19 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 16 | 1.19 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 16 | 1.19 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 15 | 1.19 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 15 | 1.19 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 15 | 1.19 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 15 | 1.19 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 5 | 1.19 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 5 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 18 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 18 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 18 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 18 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 18 | 1.19 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 18 | 1.19 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 1 | 1.19 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 1 | 1.19 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 10 | 1.19 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 10 | 1.19 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 10 | 1.19 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 10 | 1.19 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 11 | 1.19 |
| (1,7330) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 13 | 1.19 |
| (1,7275) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 4 | 1.19 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 10 | 1.19 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 10 | 1.19 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 13 | 1.19 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 13 | 1.19 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 9 | 1.19 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 7 | 1.19 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 7 | 1.19 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 7 | 1.19 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 18 | 1.19 |
| (1,6728) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 7 | 1.19 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 19 | 1.19 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 2 | 1.19 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 3 | 1.19 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 14 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 14 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 14 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 14 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 14 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 14 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 14 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 14 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 14 | 1.19 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 14 | 1.19 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 16 | 1.19 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 2 | 1.19 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 17 | 1.19 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 15 | 1.19 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 15 | 1.19 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 15 | 1.19 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 16 | 1.19 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 16 | 1.19 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 16 | 1.19 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 16 | 1.19 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 16 | 1.19 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 16 | 1.19 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 16 | 1.19 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 16 | 1.19 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 16 | 1.19 |
| (1,5955) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 3 | 1.19 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 4 | 1.19 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 2 | 1.19 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 10 | 1.19 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 10 | 1.19 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 18 | 1.19 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 18 | 1.19 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 18 | 1.19 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 18 | 1.19 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 18 | 1.19 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 18 | 1.19 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 16 | 1.19 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 4 | 1.19 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 13 | 1.19 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 13 | 1.19 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 13 | 1.19 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 1 | 1.19 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 19 | 1.19 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 15 | 1.19 |
| (1,4969) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 18 | 1.19 |
| (1,4969) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 18 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 16 | 1.19 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 8 | 1.19 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 8 | 1.19 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 8 | 1.19 |
| (1,4869) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 13 | 1.19 |
| (1,4869) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 13 | 1.19 |
| (1,4869) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 13 | 1.19 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 16 | 1.19 |
| (1,4708) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 10 | 1.19 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 14 | 1.19 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 14 | 1.19 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 14 | 1.19 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 14 | 1.19 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 14 | 1.19 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 14 | 1.19 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 11 | 1.19 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 11 | 1.19 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 19 | 1.19 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 19 | 1.19 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 8 | 1.19 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 8 | 1.19 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 17 | 1.19 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 17 | 1.19 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 9 | 1.19 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 9 | 1.19 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 4 | 1.19 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 4 | 1.19 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 9 | 1.19 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 9 | 1.19 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 20 | 1.19 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 20 | 1.19 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 20 | 1.19 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 20 | 1.19 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 20 | 1.19 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 20 | 1.19 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 2 | 1.19 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 2 | 1.19 |
| (1,3757) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 2 | 1.19 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 8 | 1.19 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 8 | 1.19 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 12 | 1.19 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 2 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 13 | 1.19 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 13 | 1.19 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 13 | 1.19 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 13 | 1.19 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 18 | 1.19 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 1 | 1.19 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 1 | 1.19 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 1 | 1.19 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 16 | 1.19 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 16 | 1.19 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 16 | 1.19 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 16 | 1.19 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 16 | 1.19 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 16 | 1.19 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 8 | 1.19 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 6 | 1.19 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 6 | 1.19 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 6 | 1.19 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 2 | 1.19 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 14 | 1.19 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 1.19 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 1 | 1.19 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 1 | 1.19 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 7 | 1.19 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 4 | 1.19 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 19 | 1.19 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 1 | 1.19 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 4 | 1.19 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 2 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 11 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 11 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 11 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 11 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 11 | 1.19 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 11 | 1.19 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 5 | 1.19 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 18 | 1.19 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 2 | 1.19 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 2 | 1.19 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 16 | 1.19 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 16 | 1.19 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 4 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 2 | 1.19 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 5 | 1.19 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 8 | 1.19 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 16 | 1.19 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 1 | 1.19 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 19 | 1.19 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 6 | 1.19 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 6 | 1.19 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 6 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 10 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 10 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 10 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 10 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 10 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 10 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 10 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 10 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 10 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 19 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 19 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 19 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 19 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 19 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 19 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 19 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 19 | 1.19 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 19 | 1.19 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 18 | 1.19 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 2 | 1.19 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 2 | 1.19 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 2 | 1.19 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 13 | 1.19 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 13 | 1.19 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 13 | 1.19 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 2 | 1.19 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 2 | 1.19 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 17 | 1.19 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 17 | 1.19 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 17 | 1.19 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 17 | 1.19 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 17 | 1.19 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 17 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 1 | 1.19 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 1 | 1.19 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 1 | 1.19 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 11 | 1.19 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 3 | 1.19 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 11 | 1.19 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 11 | 1.19 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 11 | 1.19 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 11 | 1.19 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 2 | 1.19 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 11 | 1.19 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 11 | 1.19 |
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 16 | 1.19 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 1 | 1.19 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 8 | 1.19 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 13 | 1.19 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 11 | 1.19 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 8 | 1.19 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 8 | 1.19 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 8 | 1.19 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 8 | 1.19 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 15 | 1.19 |
| (1,1391) | 1:127:A:ARG:H | 1:127:A:ARG:HG3 | 3 | 1.19 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 1 | 1.19 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 12 | 1.19 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 12 | 1.19 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 12 | 1.19 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 12 | 1.19 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 12 | 1.19 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 12 | 1.19 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 3 | 1.19 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 3 | 1.19 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 9 | 1.19 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 9 | 1.19 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 5 | 1.19 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 9 | 1.19 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 15 | 1.19 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 10 | 1.19 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 10 | 1.19 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 3 | 1.19 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 6 | 1.19 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 7 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 7 | 1.19 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 7 | 1.19 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 20 | 1.19 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 11 | 1.19 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 11 | 1.19 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 11 | 1.19 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 18 | 1.19 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 8 | 1.19 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 1 | 1.19 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 6 | 1.19 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 6 | 1.19 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 7 | 1.19 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 20 | 1.19 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 6 | 1.19 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 6 | 1.19 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 6 | 1.19 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 6 | 1.19 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 6 | 1.19 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 6 | 1.19 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 16 | 1.19 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 14 | 1.19 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 20 | 1.19 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 18 | 1.19 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 1 | 1.19 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 11 | 1.19 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 11 | 1.19 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 5 | 1.19 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 2 | 1.19 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 2 | 1.19 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 17 | 1.19 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 17 | 1.19 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 17 | 1.19 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 5 | 1.19 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 5 | 1.19 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 5 | 1.19 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 20 | 1.19 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 20 | 1.19 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 20 | 1.19 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 15 | 1.19 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 15 | 1.19 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 15 | 1.19 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 16 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 16 | 1.19 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 16 | 1.19 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 16 | 1.19 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 16 | 1.19 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 16 | 1.19 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 15 | 1.19 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 15 | 1.19 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 15 | 1.19 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 4 | 1.19 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 18 | 1.19 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 18 | 1.19 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 18 | 1.19 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 18 | 1.19 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 18 | 1.19 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 18 | 1.19 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 17 | 1.19 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 17 | 1.19 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 1 | 1.19 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 3 | 1.19 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 16 | 1.19 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 16 | 1.19 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 16 | 1.19 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 16 | 1.19 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 16 | 1.19 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 16 | 1.19 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 18 | 1.19 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 18 | 1.19 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 18 | 1.19 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 20 | 1.19 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 20 | 1.19 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 9 | 1.19 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 9 | 1.19 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 12 | 1.19 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 12 | 1.19 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 12 | 1.19 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 15 | 1.19 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 15 | 1.19 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 15 | 1.19 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 15 | 1.19 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 15 | 1.19 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 15 | 1.19 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 15 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 15 | 1.19 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 15 | 1.19 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 6 | 1.19 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 6 | 1.19 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 6 | 1.19 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 18 | 1.19 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 18 | 1.19 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 18 | 1.19 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 16 | 1.19 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 15 | 1.19 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 15 | 1.19 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 15 | 1.19 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 20 | 1.19 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 7 | 1.19 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 3 | 1.18 |
| (3,642) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 20 | 1.18 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 18 | 1.18 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 18 | 1.18 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 3 | 1.18 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 3 | 1.18 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 1 | 1.18 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 1 | 1.18 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 1 | 1.18 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 1 | 1.18 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 1 | 1.18 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 1 | 1.18 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 19 | 1.18 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 19 | 1.18 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 19 | 1.18 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 19 | 1.18 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 3 | 1.18 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 3 | 1.18 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 3 | 1.18 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 3 | 1.18 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 3 | 1.18 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 3 | 1.18 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 13 | 1.18 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 13 | 1.18 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 2 | 1.18 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 2 | 1.18 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 2 | 1.18 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 2 | 1.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 2 | 1.18 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 2 | 1.18 |
| (1,7642) | 1:28:A:ILE:H | 1:31:A:ALA:H | 9 | 1.18 |
| (1,7304) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 19 | 1.18 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 19 | 1.18 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 19 | 1.18 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 19 | 1.18 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 3 | 1.18 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 3 | 1.18 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 18 | 1.18 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 10 | 1.18 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 1 | 1.18 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 12 | 1.18 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 12 | 1.18 |
| (1,6929) | 1:32:A:SER:HA | 1:33:A:GLN:H | 8 | 1.18 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 1 | 1.18 |
| (1,6642) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 7 | 1.18 |
| (1,6642) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 7 | 1.18 |
| (1,6642) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 7 | 1.18 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 17 | 1.18 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 6 | 1.18 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 17 | 1.18 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 17 | 1.18 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 17 | 1.18 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 17 | 1.18 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 17 | 1.18 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 17 | 1.18 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 1 | 1.18 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 1 | 1.18 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 1 | 1.18 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 14 | 1.18 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 14 | 1.18 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 10 | 1.18 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 12 | 1.18 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 19 | 1.18 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 19 | 1.18 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 16 | 1.18 |
| (1,5797) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 13 | 1.18 |
| (1,5797) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 13 | 1.18 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 18 | 1.18 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 4 | 1.18 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 4 | 1.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 4 | 1.18 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 1 | 1.18 |
| (1,4783) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 1 | 1.18 |
| (1,4783) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 1 | 1.18 |
| (1,4783) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 1 | 1.18 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 18 | 1.18 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 18 | 1.18 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 18 | 1.18 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 18 | 1.18 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 18 | 1.18 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 18 | 1.18 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 20 | 1.18 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 20 | 1.18 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 20 | 1.18 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 20 | 1.18 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 20 | 1.18 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 20 | 1.18 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 7 | 1.18 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 7 | 1.18 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 7 | 1.18 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 7 | 1.18 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 7 | 1.18 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 7 | 1.18 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 13 | 1.18 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 13 | 1.18 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 13 | 1.18 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 13 | 1.18 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 13 | 1.18 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 13 | 1.18 |
| (1,4469) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 14 | 1.18 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 12 | 1.18 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 12 | 1.18 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 2 | 1.18 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 2 | 1.18 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 10 | 1.18 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 10 | 1.18 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 11 | 1.18 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 11 | 1.18 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 11 | 1.18 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 11 | 1.18 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 11 | 1.18 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 11 | 1.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 7 | 1.18 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 6 | 1.18 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 6 | 1.18 |
| (1,4283) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 16 | 1.18 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 18 | 1.18 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 18 | 1.18 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 18 | 1.18 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 18 | 1.18 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 18 | 1.18 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 18 | 1.18 |
| (1,4057) | 1:84:A:GLU:HG2 | 1:85:A:ALA:H | 12 | 1.18 |
| (1,4057) | 1:84:A:GLU:HG3 | 1:85:A:ALA:H | 12 | 1.18 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 1 | 1.18 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 1 | 1.18 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 1 | 1.18 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 3 | 1.18 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 3 | 1.18 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 3 | 1.18 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 3 | 1.18 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 3 | 1.18 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 3 | 1.18 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 17 | 1.18 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 17 | 1.18 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 9 | 1.18 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 20 | 1.18 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 18 | 1.18 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 18 | 1.18 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 15 | 1.18 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 15 | 1.18 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 7 | 1.18 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 7 | 1.18 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 5 | 1.18 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 5 | 1.18 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 5 | 1.18 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 5 | 1.18 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 5 | 1.18 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 5 | 1.18 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 5 | 1.18 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 19 | 1.18 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 6 | 1.18 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 5 | 1.18 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 14 | 1.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 17 | 1.18 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD2 | 3 | 1.18 |
| (1,3181) | 1:77:A:LYS:H | 1:77:A:LYS:HD3 | 3 | 1.18 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG21 | 5 | 1.18 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG22 | 5 | 1.18 |
| (1,3151) | 1:60:A:LEU:H | 1:158:A:ILE:HG23 | 5 | 1.18 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 7 | 1.18 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 16 | 1.18 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 5 | 1.18 |
| (1,2945) | 1:32:A:SER:HA | 1:33:A:GLN:H | 8 | 1.18 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 12 | 1.18 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 19 | 1.18 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 19 | 1.18 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 19 | 1.18 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 11 | 1.18 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 6 | 1.18 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 6 | 1.18 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 6 | 1.18 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 6 | 1.18 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 10 | 1.18 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 10 | 1.18 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 10 | 1.18 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 10 | 1.18 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 13 | 1.18 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 10 | 1.18 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 10 | 1.18 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 4 | 1.18 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 12 | 1.18 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 1.18 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 1.18 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 1.18 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 17 | 1.18 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 12 | 1.18 |
| (1,2371) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 14 | 1.18 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 8 | 1.18 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 1.18 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 5 | 1.18 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 5 | 1.18 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 5 | 1.18 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 16 | 1.18 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 20 | 1.18 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 12 | 1.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 12 | 1.18 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 12 | 1.18 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 14 | 1.18 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 14 | 1.18 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 14 | 1.18 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 20 | 1.18 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 20 | 1.18 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 20 | 1.18 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 14 | 1.18 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 14 | 1.18 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 19 | 1.18 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 19 | 1.18 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 1 | 1.18 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 1 | 1.18 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 1 | 1.18 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 1 | 1.18 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 1 | 1.18 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 1 | 1.18 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 1 | 1.18 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 1 | 1.18 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 1 | 1.18 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 11 | 1.18 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 11 | 1.18 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 11 | 1.18 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 3 | 1.18 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 3 | 1.18 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 3 | 1.18 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 13 | 1.18 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 6 | 1.18 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 15 | 1.18 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 15 | 1.18 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 15 | 1.18 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 10 | 1.18 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 19 | 1.18 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 1 | 1.18 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 1 | 1.18 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 1 | 1.18 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 17 | 1.18 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 17 | 1.18 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 17 | 1.18 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 14 | 1.18 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 5 | 1.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 1 | 1.18 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 11 | 1.18 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 20 | 1.18 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 11 | 1.18 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 14 | 1.18 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 9 | 1.18 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 9 | 1.18 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 11 | 1.18 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 15 | 1.18 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 15 | 1.18 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 15 | 1.18 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 15 | 1.18 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 15 | 1.18 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 15 | 1.18 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 12 | 1.18 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 10 | 1.18 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 18 | 1.18 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 7 | 1.18 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 7 | 1.18 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 7 | 1.18 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 7 | 1.18 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 7 | 1.18 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 17 | 1.18 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 4 | 1.18 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 1 | 1.18 |
| (1,931) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 14 | 1.18 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 8 | 1.18 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 8 | 1.18 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 8 | 1.18 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 8 | 1.18 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 8 | 1.18 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 8 | 1.18 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 13 | 1.18 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 19 | 1.18 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 2 | 1.18 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 17 | 1.18 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 6 | 1.18 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 6 | 1.18 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 17 | 1.18 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 17 | 1.18 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 13 | 1.18 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 3 | 1.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 3 | 1.18 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 3 | 1.18 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 8 | 1.18 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 8 | 1.18 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 8 | 1.18 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 8 | 1.18 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 8 | 1.18 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 8 | 1.18 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 7 | 1.18 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 7 | 1.18 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 18 | 1.18 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 17 | 1.18 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 17 | 1.18 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 17 | 1.18 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 20 | 1.18 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 20 | 1.18 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 20 | 1.18 |
| (1,372) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 12 | 1.18 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 9 | 1.18 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 16 | 1.18 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 16 | 1.18 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 11 | 1.18 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 11 | 1.18 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 11 | 1.18 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 14 | 1.18 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 4 | 1.18 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 15 | 1.18 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 1 | 1.18 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 1 | 1.18 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 1 | 1.18 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 11 | 1.18 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 11 | 1.18 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 11 | 1.18 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 10 | 1.18 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 10 | 1.18 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 10 | 1.18 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 18 | 1.18 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 14 | 1.18 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 14 | 1.18 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 14 | 1.18 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 15 | 1.18 |
| (4,325) | 1:131:A:GLN:CB | 1:32:A:SER:H | 20 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 18 | 1.17 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 5 | 1.17 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 2 | 1.17 |
| (4,87) | 1:15:A:MET:CB | 1:146:A:MET:H | 4 | 1.17 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 19 | 1.17 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 13 | 1.17 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 13 | 1.17 |
| (3,876) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 19 | 1.17 |
| (3,876) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 19 | 1.17 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 5 | 1.17 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 5 | 1.17 |
| (3,747) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 14 | 1.17 |
| (3,747) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 14 | 1.17 |
| (3,747) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 14 | 1.17 |
| (3,630) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 7 | 1.17 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 16 | 1.17 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 16 | 1.17 |
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 19 | 1.17 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 19 | 1.17 |
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 19 | 1.17 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 7 | 1.17 |
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 7 | 1.17 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 7 | 1.17 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 13 | 1.17 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 13 | 1.17 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 13 | 1.17 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 13 | 1.17 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 13 | 1.17 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 13 | 1.17 |
| (1,8877) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 19 | 1.17 |
| (1,8877) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 19 | 1.17 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 4 | 1.17 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 4 | 1.17 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 4 | 1.17 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 4 | 1.17 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 4 | 1.17 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 4 | 1.17 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 1 | 1.17 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 11 | 1.17 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 15 | 1.17 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 12 | 1.17 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 5 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 13 | 1.17 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 6 | 1.17 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 6 | 1.17 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 2 | 1.17 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 14 | 1.17 |
| (1,6724) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 12 | 1.17 |
| (1,6724) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 20 | 1.17 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 7 | 1.17 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 7 | 1.17 |
| (1,6642) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 10 | 1.17 |
| (1,6642) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 10 | 1.17 |
| (1,6642) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 10 | 1.17 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 13 | 1.17 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 5 | 1.17 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 14 | 1.17 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 14 | 1.17 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 14 | 1.17 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 14 | 1.17 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 14 | 1.17 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 14 | 1.17 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 14 | 1.17 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 14 | 1.17 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 14 | 1.17 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 14 | 1.17 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 11 | 1.17 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 11 | 1.17 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 11 | 1.17 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 16 | 1.17 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 12 | 1.17 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 10 | 1.17 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 20 | 1.17 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 20 | 1.17 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 20 | 1.17 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 20 | 1.17 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 8 | 1.17 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 20 | 1.17 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 20 | 1.17 |
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 5 | 1.17 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 5 | 1.17 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 5 | 1.17 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 3 | 1.17 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 11 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 11 | 1.17 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 11 | 1.17 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 11 | 1.17 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 11 | 1.17 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 11 | 1.17 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 9 | 1.17 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 9 | 1.17 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 1 | 1.17 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 1 | 1.17 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 10 | 1.17 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 10 | 1.17 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 10 | 1.17 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 10 | 1.17 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 5 | 1.17 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 5 | 1.17 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 9 | 1.17 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 9 | 1.17 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 9 | 1.17 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 12 | 1.17 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 12 | 1.17 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 19 | 1.17 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 19 | 1.17 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 11 | 1.17 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 11 | 1.17 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 20 | 1.17 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 20 | 1.17 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 17 | 1.17 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 17 | 1.17 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 19 | 1.17 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 19 | 1.17 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 19 | 1.17 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 19 | 1.17 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 13 | 1.17 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 13 | 1.17 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 2 | 1.17 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 2 | 1.17 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 2 | 1.17 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 12 | 1.17 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 2 | 1.17 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 4 | 1.17 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 19 | 1.17 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 19 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 2 | 1.17 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 8 | 1.17 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 15 | 1.17 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 20 | 1.17 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 20 | 1.17 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 20 | 1.17 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 12 | 1.17 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 9 | 1.17 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 17 | 1.17 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 17 | 1.17 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 18 | 1.17 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 18 | 1.17 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 18 | 1.17 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 17 | 1.17 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 12 | 1.17 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 20 | 1.17 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 14 | 1.17 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 18 | 1.17 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 9 | 1.17 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 9 | 1.17 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 9 | 1.17 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 2 | 1.17 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 14 | 1.17 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 19 | 1.17 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 19 | 1.17 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 19 | 1.17 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 19 | 1.17 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 19 | 1.17 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 19 | 1.17 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 13 | 1.17 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 13 | 1.17 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 5 | 1.17 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 19 | 1.17 |
| (1,2655) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 12 | 1.17 |
| (1,2655) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 20 | 1.17 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 3 | 1.17 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 7 | 1.17 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 5 | 1.17 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 5 | 1.17 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 5 | 1.17 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 5 | 1.17 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 5 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 5 | 1.17 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 13 | 1.17 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 19 | 1.17 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 2 | 1.17 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 6 | 1.17 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 15 | 1.17 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 15 | 1.17 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 15 | 1.17 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 16 | 1.17 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 19 | 1.17 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 5 | 1.17 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 5 | 1.17 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 5 | 1.17 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 13 | 1.17 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 13 | 1.17 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 13 | 1.17 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 6 | 1.17 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 6 | 1.17 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 6 | 1.17 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 2 | 1.17 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 2 | 1.17 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 2 | 1.17 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 2 | 1.17 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 2 | 1.17 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 2 | 1.17 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 17 | 1.17 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 17 | 1.17 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 17 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 15 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 15 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 15 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 15 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 15 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 15 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 15 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 15 | 1.17 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 15 | 1.17 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 19 | 1.17 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 19 | 1.17 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 19 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 6 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 6 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 6 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 15 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 15 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 15 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 20 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 20 | 1.17 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 20 | 1.17 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 1 | 1.17 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 1 | 1.17 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 1 | 1.17 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 16 | 1.17 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 18 | 1.17 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 9 | 1.17 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 9 | 1.17 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 9 | 1.17 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 12 | 1.17 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 11 | 1.17 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 11 | 1.17 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 18 | 1.17 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 17 | 1.17 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 4 | 1.17 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 4 | 1.17 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 19 | 1.17 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 15 | 1.17 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 17 | 1.17 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 15 | 1.17 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 15 | 1.17 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 15 | 1.17 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 15 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 2 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 2 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 2 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 2 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 2 | 1.17 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 2 | 1.17 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 20 | 1.17 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 20 | 1.17 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 20 | 1.17 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 20 | 1.17 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 20 | 1.17 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 20 | 1.17 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 10 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 10 | 1.17 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 10 | 1.17 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 10 | 1.17 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 10 | 1.17 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 10 | 1.17 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 14 | 1.17 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 12 | 1.17 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 20 | 1.17 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 11 | 1.17 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 13 | 1.17 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 17 | 1.17 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 17 | 1.17 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 17 | 1.17 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 19 | 1.17 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 19 | 1.17 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 19 | 1.17 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 13 | 1.17 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 19 | 1.17 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 1 | 1.17 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 1 | 1.17 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 1 | 1.17 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 12 | 1.17 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 12 | 1.17 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 12 | 1.17 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 2 | 1.17 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 2 | 1.17 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 2 | 1.17 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 20 | 1.17 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 9 | 1.17 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 9 | 1.17 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 9 | 1.17 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 16 | 1.17 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 16 | 1.17 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 16 | 1.17 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 4 | 1.17 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 20 | 1.17 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 20 | 1.17 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 20 | 1.17 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 20 | 1.17 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 20 | 1.17 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 20 | 1.17 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 14 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 14 | 1.17 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 14 | 1.17 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 14 | 1.17 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 14 | 1.17 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 14 | 1.17 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 13 | 1.17 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 13 | 1.17 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 13 | 1.17 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 18 | 1.17 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 18 | 1.17 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 18 | 1.17 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 3 | 1.17 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 3 | 1.17 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 3 | 1.17 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 17 | 1.17 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 4 | 1.17 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 4 | 1.17 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 4 | 1.17 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 6 | 1.17 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 6 | 1.17 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 6 | 1.17 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 14 | 1.17 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 14 | 1.17 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 14 | 1.17 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 15 | 1.17 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 10 | 1.17 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 19 | 1.17 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 15 | 1.17 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 15 | 1.17 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 15 | 1.17 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 12 | 1.17 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 12 | 1.17 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 12 | 1.17 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 3 | 1.17 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 3 | 1.17 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 3 | 1.17 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 13 | 1.17 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 13 | 1.17 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 13 | 1.17 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 11 | 1.17 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 14 | 1.17 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 14 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 14 | 1.17 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 11 | 1.17 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 7 | 1.17 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 7 | 1.17 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 7 | 1.17 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 2 | 1.17 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 4 | 1.17 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 17 | 1.17 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 17 | 1.17 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 3 | 1.17 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 8 | 1.17 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 8 | 1.17 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 8 | 1.17 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 18 | 1.17 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 18 | 1.17 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 18 | 1.17 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 18 | 1.17 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 18 | 1.17 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 18 | 1.17 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 14 | 1.17 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 14 | 1.17 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 15 | 1.17 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 6 | 1.17 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 6 | 1.17 |
| (4,319) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 6 | 1.16 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 4 | 1.16 |
| (3,642) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 4 | 1.16 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 1 | 1.16 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 12 | 1.16 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 12 | 1.16 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 12 | 1.16 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 12 | 1.16 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 12 | 1.16 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 12 | 1.16 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 1 | 1.16 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 1 | 1.16 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 1 | 1.16 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 1 | 1.16 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 1 | 1.16 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 1 | 1.16 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 16 | 1.16 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 16 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 5 | 1.16 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 5 | 1.16 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 10 | 1.16 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 10 | 1.16 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 10 | 1.16 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 10 | 1.16 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 4 | 1.16 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 11 | 1.16 |
| (1,7583) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 11 | 1.16 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 18 | 1.16 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 18 | 1.16 |
| (1,7326) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 1 | 1.16 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 17 | 1.16 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 17 | 1.16 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 12 | 1.16 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 19 | 1.16 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 19 | 1.16 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 19 | 1.16 |
| (1,6969) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 19 | 1.16 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 7 | 1.16 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 7 | 1.16 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 7 | 1.16 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 7 | 1.16 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 7 | 1.16 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 7 | 1.16 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 7 | 1.16 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 1 | 1.16 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 17 | 1.16 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 10 | 1.16 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 13 | 1.16 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 2 | 1.16 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 2 | 1.16 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 2 | 1.16 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 2 | 1.16 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 2 | 1.16 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 2 | 1.16 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 2 | 1.16 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 2 | 1.16 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 2 | 1.16 |
| (1,6135) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 20 | 1.16 |
| (1,6135) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 20 | 1.16 |
| (1,6135) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 20 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 1 | 1.16 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 7 | 1.16 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 14 | 1.16 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 9 | 1.16 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 9 | 1.16 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 9 | 1.16 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 12 | 1.16 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 10 | 1.16 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 6 | 1.16 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 6 | 1.16 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 6 | 1.16 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 14 | 1.16 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 4 | 1.16 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 4 | 1.16 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA2 | 8 | 1.16 |
| (1,4539) | 1:143:A:THR:HG21 | 1:144:A:GLY:HA3 | 8 | 1.16 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA2 | 8 | 1.16 |
| (1,4539) | 1:143:A:THR:HG22 | 1:144:A:GLY:HA3 | 8 | 1.16 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA2 | 8 | 1.16 |
| (1,4539) | 1:143:A:THR:HG23 | 1:144:A:GLY:HA3 | 8 | 1.16 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 6 | 1.16 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 6 | 1.16 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 6 | 1.16 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 6 | 1.16 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 6 | 1.16 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 6 | 1.16 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 14 | 1.16 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 4 | 1.16 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 4 | 1.16 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 20 | 1.16 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 20 | 1.16 |
| (1,4359) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 10 | 1.16 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 5 | 1.16 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 5 | 1.16 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 6 | 1.16 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 6 | 1.16 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 18 | 1.16 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 18 | 1.16 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 2 | 1.16 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 2 | 1.16 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 2 | 1.16 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 2 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 2 | 1.16 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 2 | 1.16 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 10 | 1.16 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 1 | 1.16 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 1 | 1.16 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 16 | 1.16 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 16 | 1.16 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 16 | 1.16 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 16 | 1.16 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 16 | 1.16 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 16 | 1.16 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 13 | 1.16 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 13 | 1.16 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 8 | 1.16 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 8 | 1.16 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 8 | 1.16 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 8 | 1.16 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 8 | 1.16 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 8 | 1.16 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 1 | 1.16 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 1 | 1.16 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 1 | 1.16 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 1 | 1.16 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 1 | 1.16 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 1 | 1.16 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 14 | 1.16 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 14 | 1.16 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 18 | 1.16 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 18 | 1.16 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 15 | 1.16 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 15 | 1.16 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 18 | 1.16 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 18 | 1.16 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 18 | 1.16 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 18 | 1.16 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 10 | 1.16 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 6 | 1.16 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 6 | 1.16 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 6 | 1.16 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 6 | 1.16 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 6 | 1.16 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 6 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 9 | 1.16 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 12 | 1.16 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 12 | 1.16 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 12 | 1.16 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 12 | 1.16 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 12 | 1.16 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 13 | 1.16 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 2 | 1.16 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 19 | 1.16 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 1.16 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 3 | 1.16 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 3 | 1.16 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 19 | 1.16 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 14 | 1.16 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 14 | 1.16 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 9 | 1.16 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 7 | 1.16 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 7 | 1.16 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 11 | 1.16 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 5 | 1.16 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 14 | 1.16 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 18 | 1.16 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 3 | 1.16 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 3 | 1.16 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 3 | 1.16 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 6 | 1.16 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 6 | 1.16 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 6 | 1.16 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 20 | 1.16 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 18 | 1.16 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 4 | 1.16 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 17 | 1.16 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 17 | 1.16 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 5 | 1.16 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 20 | 1.16 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 20 | 1.16 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 20 | 1.16 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 3 | 1.16 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 3 | 1.16 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 3 | 1.16 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 5 | 1.16 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 1 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 12 | 1.16 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 14 | 1.16 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 4 | 1.16 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 7 | 1.16 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 16 | 1.16 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 8 | 1.16 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 13 | 1.16 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 13 | 1.16 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 13 | 1.16 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 10 | 1.16 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 5 | 1.16 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 5 | 1.16 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 5 | 1.16 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 16 | 1.16 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 16 | 1.16 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 16 | 1.16 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 11 | 1.16 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 11 | 1.16 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 11 | 1.16 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 11 | 1.16 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 11 | 1.16 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 11 | 1.16 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 11 | 1.16 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 11 | 1.16 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 11 | 1.16 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 12 | 1.16 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 12 | 1.16 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 12 | 1.16 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 12 | 1.16 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 12 | 1.16 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 12 | 1.16 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 12 | 1.16 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 12 | 1.16 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 12 | 1.16 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 15 | 1.16 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 15 | 1.16 |
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 15 | 1.16 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 14 | 1.16 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 14 | 1.16 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 14 | 1.16 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 15 | 1.16 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 12 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1717) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 8 | 1.16 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 8 | 1.16 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 8 | 1.16 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 8 | 1.16 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 8 | 1.16 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 8 | 1.16 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 8 | 1.16 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 8 | 1.16 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 8 | 1.16 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 8 | 1.16 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 18 | 1.16 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 18 | 1.16 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 18 | 1.16 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 18 | 1.16 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 18 | 1.16 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 18 | 1.16 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 18 | 1.16 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 18 | 1.16 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 18 | 1.16 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 2 | 1.16 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 13 | 1.16 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 4 | 1.16 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 7 | 1.16 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 20 | 1.16 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 20 | 1.16 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 1 | 1.16 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 16 | 1.16 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 14 | 1.16 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 14 | 1.16 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 14 | 1.16 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 14 | 1.16 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 14 | 1.16 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 14 | 1.16 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 14 | 1.16 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 14 | 1.16 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 14 | 1.16 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 14 | 1.16 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 15 | 1.16 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 15 | 1.16 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 13 | 1.16 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 13 | 1.16 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 2 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 11 | 1.16 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 11 | 1.16 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 11 | 1.16 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 7 | 1.16 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 6 | 1.16 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 6 | 1.16 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 6 | 1.16 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 14 | 1.16 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 14 | 1.16 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 14 | 1.16 |
| (1,961) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 11 | 1.16 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 5 | 1.16 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 7 | 1.16 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 10 | 1.16 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 20 | 1.16 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 19 | 1.16 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 19 | 1.16 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 6 | 1.16 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 11 | 1.16 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 11 | 1.16 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 4 | 1.16 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 4 | 1.16 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 4 | 1.16 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 5 | 1.16 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 5 | 1.16 |
| (1,507) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 5 | 1.16 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 11 | 1.16 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 3 | 1.16 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 3 | 1.16 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 3 | 1.16 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 12 | 1.16 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 12 | 1.16 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 12 | 1.16 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 15 | 1.16 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 11 | 1.16 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 11 | 1.16 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 11 | 1.16 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 11 | 1.16 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 11 | 1.16 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 11 | 1.16 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 4 | 1.16 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 5 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 5 | 1.16 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 5 | 1.16 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 1 | 1.16 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 1 | 1.16 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 6 | 1.16 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 2 | 1.16 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 3 | 1.16 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 11 | 1.16 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 5 | 1.16 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 5 | 1.16 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 5 | 1.16 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 18 | 1.16 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 18 | 1.16 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 18 | 1.16 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 7 | 1.16 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 7 | 1.16 |
| (1,289) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 7 | 1.16 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 7 | 1.16 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 7 | 1.16 |
| (1,289) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 7 | 1.16 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 7 | 1.16 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 7 | 1.16 |
| (1,289) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 7 | 1.16 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 16 | 1.16 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 14 | 1.16 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 7 | 1.16 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 14 | 1.16 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 16 | 1.16 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 14 | 1.16 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 4 | 1.16 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 4 | 1.16 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 4 | 1.16 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 4 | 1.16 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 4 | 1.16 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 4 | 1.16 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 17 | 1.16 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 17 | 1.16 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 17 | 1.16 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 17 | 1.16 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 17 | 1.16 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 17 | 1.16 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 17 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 17 | 1.16 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 17 | 1.16 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 13 | 1.16 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 13 | 1.16 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 13 | 1.16 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 1 | 1.16 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 1 | 1.16 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 1 | 1.16 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 17 | 1.16 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 7 | 1.16 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 7 | 1.16 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 7 | 1.16 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 17 | 1.16 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 17 | 1.16 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 13 | 1.16 |
| (4,207) | 1:131:A:GLN:CB | 1:34:A:TRP:H | 3 | 1.15 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 8 | 1.15 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 1 | 1.15 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 1 | 1.15 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 5 | 1.15 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 5 | 1.15 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 5 | 1.15 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 7 | 1.15 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 20 | 1.15 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 20 | 1.15 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 20 | 1.15 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 8 | 1.15 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 8 | 1.15 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 8 | 1.15 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 8 | 1.15 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 8 | 1.15 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 8 | 1.15 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 3 | 1.15 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 3 | 1.15 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 3 | 1.15 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 3 | 1.15 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 11 | 1.15 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 9 | 1.15 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 9 | 1.15 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 9 | 1.15 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 13 | 1.15 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 13 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 8 | 1.15 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 10 | 1.15 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 10 | 1.15 |
| (1,7275) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB2 | 10 | 1.15 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 9 | 1.15 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 17 | 1.15 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 1 | 1.15 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 1 | 1.15 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 1 | 1.15 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 3 | 1.15 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 5 | 1.15 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 13 | 1.15 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 17 | 1.15 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 9 | 1.15 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 9 | 1.15 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 9 | 1.15 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 9 | 1.15 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 9 | 1.15 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 9 | 1.15 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 9 | 1.15 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 11 | 1.15 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 11 | 1.15 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 11 | 1.15 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 18 | 1.15 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 6 | 1.15 |
| (1,6340) | 1:154:A:SER:H | 1:155:A:GLY:H | 6 | 1.15 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 8 | 1.15 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 9 | 1.15 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 2 | 1.15 |
| (1,6020) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 4 | 1.15 |
| (1,6020) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 4 | 1.15 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 16 | 1.15 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 16 | 1.15 |
| (1,5949) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 6 | 1.15 |
| (1,5949) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 12 | 1.15 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 19 | 1.15 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 10 | 1.15 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 17 | 1.15 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 8 | 1.15 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 3 | 1.15 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 3 | 1.15 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 3 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 3 | 1.15 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 3 | 1.15 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 3 | 1.15 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 3 | 1.15 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 3 | 1.15 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 3 | 1.15 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 17 | 1.15 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 17 | 1.15 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 17 | 1.15 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 16 | 1.15 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 8 | 1.15 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 8 | 1.15 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 8 | 1.15 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 8 | 1.15 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 8 | 1.15 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 8 | 1.15 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 8 | 1.15 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 8 | 1.15 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 8 | 1.15 |
| (1,5149) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 16 | 1.15 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 10 | 1.15 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 10 | 1.15 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 10 | 1.15 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 12 | 1.15 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 1 | 1.15 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 1 | 1.15 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 1 | 1.15 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 1 | 1.15 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 1 | 1.15 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 1 | 1.15 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 1 | 1.15 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 1 | 1.15 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 1 | 1.15 |
| (1,4831) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 9 | 1.15 |
| (1,4831) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 9 | 1.15 |
| (1,4831) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 9 | 1.15 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 3 | 1.15 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 3 | 1.15 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 3 | 1.15 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 14 | 1.15 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 14 | 1.15 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 10 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 10 | 1.15 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 18 | 1.15 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 18 | 1.15 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 12 | 1.15 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 12 | 1.15 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 5 | 1.15 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 5 | 1.15 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 9 | 1.15 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 13 | 1.15 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 13 | 1.15 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 9 | 1.15 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 9 | 1.15 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 9 | 1.15 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 9 | 1.15 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 9 | 1.15 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 9 | 1.15 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 5 | 1.15 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 5 | 1.15 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 2 | 1.15 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 17 | 1.15 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 17 | 1.15 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 7 | 1.15 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 7 | 1.15 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 7 | 1.15 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 11 | 1.15 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 3 | 1.15 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 20 | 1.15 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 20 | 1.15 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 20 | 1.15 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 20 | 1.15 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 9 | 1.15 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 9 | 1.15 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 9 | 1.15 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 12 | 1.15 |
| (1,3189) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 2 | 1.15 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 9 | 1.15 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 11 | 1.15 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 16 | 1.15 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 18 | 1.15 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 8 | 1.15 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 7 | 1.15 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 7 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 4 | 1.15 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 4 | 1.15 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 4 | 1.15 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 16 | 1.15 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 9 | 1.15 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 1 | 1.15 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 1 | 1.15 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 6 | 1.15 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 15 | 1.15 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 17 | 1.15 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 17 | 1.15 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 17 | 1.15 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 10 | 1.15 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 18 | 1.15 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 9 | 1.15 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 9 | 1.15 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 17 | 1.15 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 17 | 1.15 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 13 | 1.15 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 14 | 1.15 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 11 | 1.15 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 6 | 1.15 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 18 | 1.15 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 6 | 1.15 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 4 | 1.15 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 4 | 1.15 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 14 | 1.15 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 18 | 1.15 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 2 | 1.15 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 2 | 1.15 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 2 | 1.15 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 7 | 1.15 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 7 | 1.15 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 7 | 1.15 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 14 | 1.15 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 5 | 1.15 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 6 | 1.15 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 16 | 1.15 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 10 | 1.15 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 10 | 1.15 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 10 | 1.15 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 11 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 11 | 1.15 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 11 | 1.15 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 4 | 1.15 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 9 | 1.15 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 18 | 1.15 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 18 | 1.15 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 10 | 1.15 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 19 | 1.15 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 19 | 1.15 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 19 | 1.15 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 11 | 1.15 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 16 | 1.15 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 17 | 1.15 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 7 | 1.15 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 7 | 1.15 |
| (1,1371) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 7 | 1.15 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 8 | 1.15 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 10 | 1.15 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 17 | 1.15 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 3 | 1.15 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 3 | 1.15 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 3 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 11 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 11 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 11 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 11 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 11 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 11 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 11 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 11 | 1.15 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 11 | 1.15 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 14 | 1.15 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 14 | 1.15 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 14 | 1.15 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 3 | 1.15 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 3 | 1.15 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 3 | 1.15 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 4 | 1.15 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 4 | 1.15 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 4 | 1.15 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 16 | 1.15 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 17 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 6 | 1.15 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 8 | 1.15 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 8 | 1.15 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 13 | 1.15 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 13 | 1.15 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 13 | 1.15 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 13 | 1.15 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 13 | 1.15 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 14 | 1.15 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 14 | 1.15 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 14 | 1.15 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 17 | 1.15 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 17 | 1.15 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 10 | 1.15 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG2 | 1 | 1.15 |
| (1,597) | 1:94:A:GLN:H | 1:94:A:GLN:HG3 | 1 | 1.15 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 5 | 1.15 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 5 | 1.15 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 5 | 1.15 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 10 | 1.15 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 9 | 1.15 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 9 | 1.15 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 9 | 1.15 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 9 | 1.15 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 9 | 1.15 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 9 | 1.15 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 14 | 1.15 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 12 | 1.15 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 12 | 1.15 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 12 | 1.15 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 2 | 1.15 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 2 | 1.15 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 2 | 1.15 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 2 | 1.15 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 2 | 1.15 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 2 | 1.15 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 2 | 1.15 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 2 | 1.15 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 2 | 1.15 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 20 | 1.15 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 7 | 1.15 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 7 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 7 | 1.15 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 5 | 1.15 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 8 | 1.15 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 8 | 1.15 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 8 | 1.15 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 7 | 1.15 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 7 | 1.15 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 7 | 1.15 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 13 | 1.15 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 3 | 1.15 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 11 | 1.15 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 11 | 1.15 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 18 | 1.15 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 18 | 1.15 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 1 | 1.15 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 2 | 1.15 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 6 | 1.15 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 5 | 1.15 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 19 | 1.15 |
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 12 | 1.15 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 11 | 1.15 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 11 | 1.15 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 11 | 1.15 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 4 | 1.15 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 4 | 1.15 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 4 | 1.15 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 11 | 1.15 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 11 | 1.15 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 11 | 1.15 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 2 | 1.15 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 2 | 1.15 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 2 | 1.15 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 2 | 1.15 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 2 | 1.15 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 2 | 1.15 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 3 | 1.15 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 3 | 1.15 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 3 | 1.15 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 5 | 1.15 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 4 | 1.15 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 4 | 1.15 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 19 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 5 | 1.15 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 14 | 1.15 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 7 | 1.14 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 2 | 1.14 |
| (3,941) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 9 | 1.14 |
| (3,941) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 9 | 1.14 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 2 | 1.14 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 2 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 8 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 8 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 8 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 8 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 8 | 1.14 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 8 | 1.14 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 9 | 1.14 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 9 | 1.14 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 19 | 1.14 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 19 | 1.14 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 19 | 1.14 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 19 | 1.14 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 10 | 1.14 |
| (1,7561) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 4 | 1.14 |
| (1,7561) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 4 | 1.14 |
| (1,7561) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 4 | 1.14 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 9 | 1.14 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 3 | 1.14 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 3 | 1.14 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 7 | 1.14 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 7 | 1.14 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 7 | 1.14 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 13 | 1.14 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 13 | 1.14 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 9 | 1.14 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 6 | 1.14 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 17 | 1.14 |
| (1,6465) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 20 | 1.14 |
| (1,6465) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 20 | 1.14 |
| (1,6465) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 20 | 1.14 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 4 | 1.14 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 17 | 1.14 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 17 | 1.14 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 17 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5877) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 4 | 1.14 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 8 | 1.14 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 8 | 1.14 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 6 | 1.14 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 6 | 1.14 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 6 | 1.14 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 1 | 1.14 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 2 | 1.14 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 2 | 1.14 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 2 | 1.14 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 19 | 1.14 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 5 | 1.14 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 3 | 1.14 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 4 | 1.14 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 10 | 1.14 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 10 | 1.14 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 16 | 1.14 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 16 | 1.14 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 1 | 1.14 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 1 | 1.14 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 19 | 1.14 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 19 | 1.14 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 13 | 1.14 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 13 | 1.14 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 8 | 1.14 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 8 | 1.14 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 17 | 1.14 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 17 | 1.14 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 7 | 1.14 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 7 | 1.14 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 7 | 1.14 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 7 | 1.14 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 7 | 1.14 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 7 | 1.14 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 9 | 1.14 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 9 | 1.14 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 9 | 1.14 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 9 | 1.14 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 9 | 1.14 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 9 | 1.14 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 10 | 1.14 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 10 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 10 | 1.14 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 10 | 1.14 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 10 | 1.14 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 10 | 1.14 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 18 | 1.14 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 18 | 1.14 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 2 | 1.14 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 2 | 1.14 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 2 | 1.14 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 2 | 1.14 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 4 | 1.14 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 4 | 1.14 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 1.14 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 1.14 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 17 | 1.14 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 17 | 1.14 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 17 | 1.14 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 17 | 1.14 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 17 | 1.14 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 17 | 1.14 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 7 | 1.14 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 7 | 1.14 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 2 | 1.14 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 2 | 1.14 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 2 | 1.14 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 1 | 1.14 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 1 | 1.14 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 1 | 1.14 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 1 | 1.14 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 1 | 1.14 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 1 | 1.14 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 14 | 1.14 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 14 | 1.14 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 20 | 1.14 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 20 | 1.14 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 14 | 1.14 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 14 | 1.14 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 14 | 1.14 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 14 | 1.14 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 14 | 1.14 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 14 | 1.14 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB1 | 2 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB2 | 2 | 1.14 |
| (1,3755) | 1:56:A:ARG:HD2 | 1:124:A:ALA:HB3 | 2 | 1.14 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB1 | 2 | 1.14 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB2 | 2 | 1.14 |
| (1,3755) | 1:56:A:ARG:HD3 | 1:124:A:ALA:HB3 | 2 | 1.14 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 14 | 1.14 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 13 | 1.14 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 1.14 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 13 | 1.14 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 5 | 1.14 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 5 | 1.14 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 5 | 1.14 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 2 | 1.14 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 2 | 1.14 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 2 | 1.14 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 11 | 1.14 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 2 | 1.14 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 8 | 1.14 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 18 | 1.14 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 5 | 1.14 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 7 | 1.14 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 8 | 1.14 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 8 | 1.14 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 8 | 1.14 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 12 | 1.14 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 12 | 1.14 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 17 | 1.14 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 17 | 1.14 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 17 | 1.14 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 12 | 1.14 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 12 | 1.14 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 12 | 1.14 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 12 | 1.14 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 12 | 1.14 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 12 | 1.14 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 19 | 1.14 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 19 | 1.14 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 19 | 1.14 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 6 | 1.14 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 9 | 1.14 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 9 | 1.14 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 1 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 1 | 1.14 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 1 | 1.14 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 3 | 1.14 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 3 | 1.14 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 14 | 1.14 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 18 | 1.14 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 8 | 1.14 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 13 | 1.14 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 13 | 1.14 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 13 | 1.14 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 13 | 1.14 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 13 | 1.14 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 1 | 1.14 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 1 | 1.14 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 5 | 1.14 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 5 | 1.14 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 9 | 1.14 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 2 | 1.14 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 2 | 1.14 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 2 | 1.14 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 10 | 1.14 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 10 | 1.14 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 10 | 1.14 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 20 | 1.14 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 20 | 1.14 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 20 | 1.14 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 19 | 1.14 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 19 | 1.14 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 2 | 1.14 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 10 | 1.14 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 6 | 1.14 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 19 | 1.14 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 11 | 1.14 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 15 | 1.14 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 15 | 1.14 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 15 | 1.14 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 15 | 1.14 |
| (1,2399) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 19 | 1.14 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 17 | 1.14 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 1 | 1.14 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 1 | 1.14 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 1 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 9 | 1.14 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 9 | 1.14 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 9 | 1.14 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 15 | 1.14 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 2 | 1.14 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 2 | 1.14 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 2 | 1.14 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 17 | 1.14 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 17 | 1.14 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 17 | 1.14 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 7 | 1.14 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 7 | 1.14 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 7 | 1.14 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 11 | 1.14 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 11 | 1.14 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 11 | 1.14 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 18 | 1.14 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 18 | 1.14 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 18 | 1.14 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 14 | 1.14 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 14 | 1.14 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 14 | 1.14 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 14 | 1.14 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 14 | 1.14 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 14 | 1.14 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 5 | 1.14 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 10 | 1.14 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 12 | 1.14 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 2 | 1.14 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 2 | 1.14 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 2 | 1.14 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 13 | 1.14 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 13 | 1.14 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 17 | 1.14 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 17 | 1.14 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 17 | 1.14 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 19 | 1.14 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 5 | 1.14 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 3 | 1.14 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 13 | 1.14 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 3 | 1.14 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 14 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 14 | 1.14 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 14 | 1.14 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 14 | 1.14 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 14 | 1.14 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 14 | 1.14 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 9 | 1.14 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 9 | 1.14 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 9 | 1.14 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 12 | 1.14 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 10 | 1.14 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 10 | 1.14 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 10 | 1.14 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 10 | 1.14 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 10 | 1.14 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 10 | 1.14 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 3 | 1.14 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 6 | 1.14 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 7 | 1.14 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 14 | 1.14 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 1 | 1.14 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 1 | 1.14 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 1 | 1.14 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 15 | 1.14 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 1 | 1.14 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 1 | 1.14 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 11 | 1.14 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 14 | 1.14 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 17 | 1.14 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 2 | 1.14 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 19 | 1.14 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 19 | 1.14 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 19 | 1.14 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 2 | 1.14 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 2 | 1.14 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 2 | 1.14 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 2 | 1.14 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 19 | 1.14 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 5 | 1.14 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 5 | 1.14 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 5 | 1.14 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 5 | 1.14 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 5 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 5 | 1.14 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 15 | 1.14 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 6 | 1.14 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 16 | 1.14 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 6 | 1.14 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 6 | 1.14 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 6 | 1.14 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 10 | 1.14 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 17 | 1.14 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 17 | 1.14 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 11 | 1.14 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 19 | 1.14 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 19 | 1.14 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 19 | 1.14 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 19 | 1.14 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 19 | 1.14 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 19 | 1.14 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 9 | 1.14 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 9 | 1.14 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 9 | 1.14 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 14 | 1.14 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 14 | 1.14 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 14 | 1.14 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 1 | 1.14 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 13 | 1.14 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 13 | 1.14 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 13 | 1.14 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 18 | 1.14 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 18 | 1.14 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 1 | 1.14 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 5 | 1.14 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 5 | 1.14 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 5 | 1.14 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 14 | 1.14 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 20 | 1.14 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 13 | 1.14 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 13 | 1.14 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 13 | 1.14 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 12 | 1.14 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 13 | 1.14 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 19 | 1.14 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 9 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 15 | 1.14 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 6 | 1.14 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 9 | 1.14 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 14 | 1.14 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 9 | 1.14 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 9 | 1.14 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 9 | 1.14 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 8 | 1.14 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 8 | 1.14 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 8 | 1.14 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 2 | 1.14 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 2 | 1.14 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 2 | 1.14 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 2 | 1.14 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 2 | 1.14 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 2 | 1.14 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 2 | 1.14 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 2 | 1.14 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 2 | 1.14 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 20 | 1.14 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 20 | 1.14 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 20 | 1.14 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 20 | 1.14 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 20 | 1.14 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 20 | 1.14 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 20 | 1.14 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 20 | 1.14 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 20 | 1.14 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 19 | 1.14 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 1 | 1.14 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 1 | 1.14 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 1 | 1.14 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 13 | 1.14 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 13 | 1.14 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 13 | 1.14 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 13 | 1.14 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 13 | 1.14 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 13 | 1.14 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 4 | 1.14 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 4 | 1.14 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 4 | 1.14 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 5 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 10 | 1.14 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 10 | 1.14 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 4 | 1.14 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 8 | 1.14 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 8 | 1.14 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 14 | 1.13 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 14 | 1.13 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 2 | 1.13 |
| (4,20) | 1:15:A:MET:CB | 1:67:A:SER:H | 14 | 1.13 |
| (4,18) | 1:15:A:MET:CB | 1:66:A:GLN:H | 15 | 1.13 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 19 | 1.13 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 19 | 1.13 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 19 | 1.13 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 19 | 1.13 |
| (3,819) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 8 | 1.13 |
| (3,819) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 8 | 1.13 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 9 | 1.13 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 9 | 1.13 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 9 | 1.13 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 1 | 1.13 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 1 | 1.13 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 1 | 1.13 |
| (3,605) | 1:115:A:SER:H | 1:122:A:LEU:H | 10 | 1.13 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 20 | 1.13 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 20 | 1.13 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 20 | 1.13 |
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 18 | 1.13 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 18 | 1.13 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 18 | 1.13 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 18 | 1.13 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 18 | 1.13 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 18 | 1.13 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 18 | 1.13 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 18 | 1.13 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 12 | 1.13 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 12 | 1.13 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 11 | 1.13 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 11 | 1.13 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 16 | 1.13 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 1 | 1.13 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 18 | 1.13 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 11 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 2 | 1.13 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 16 | 1.13 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 16 | 1.13 |
| (1,6540) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 10 | 1.13 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 3 | 1.13 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 3 | 1.13 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 3 | 1.13 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 5 | 1.13 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 5 | 1.13 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 12 | 1.13 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 15 | 1.13 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 15 | 1.13 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 15 | 1.13 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 6 | 1.13 |
| (1,5949) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 18 | 1.13 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 13 | 1.13 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 13 | 1.13 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 13 | 1.13 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 4 | 1.13 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 13 | 1.13 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 16 | 1.13 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 17 | 1.13 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 11 | 1.13 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 11 | 1.13 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 11 | 1.13 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD11 | 12 | 1.13 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD12 | 12 | 1.13 |
| (1,4595) | 1:157:A:HIS:HB2 | 1:159:A:ILE:HD13 | 12 | 1.13 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD11 | 12 | 1.13 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD12 | 12 | 1.13 |
| (1,4595) | 1:157:A:HIS:HB3 | 1:159:A:ILE:HD13 | 12 | 1.13 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 12 | 1.13 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 12 | 1.13 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 16 | 1.13 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 13 | 1.13 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 9 | 1.13 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 19 | 1.13 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 19 | 1.13 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 2 | 1.13 |
| (1,4013) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 2 | 1.13 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 14 | 1.13 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 14 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 14 | 1.13 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 14 | 1.13 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 14 | 1.13 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 14 | 1.13 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 16 | 1.13 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 16 | 1.13 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 17 | 1.13 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 17 | 1.13 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 10 | 1.13 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 10 | 1.13 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 10 | 1.13 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 10 | 1.13 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 9 | 1.13 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 3 | 1.13 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 3 | 1.13 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 3 | 1.13 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 3 | 1.13 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 3 | 1.13 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 3 | 1.13 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 8 | 1.13 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 8 | 1.13 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 7 | 1.13 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 19 | 1.13 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 19 | 1.13 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 19 | 1.13 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 19 | 1.13 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 19 | 1.13 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 19 | 1.13 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 6 | 1.13 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 6 | 1.13 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 3 | 1.13 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 3 | 1.13 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 10 | 1.13 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 10 | 1.13 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 5 | 1.13 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 17 | 1.13 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 20 | 1.13 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 4 | 1.13 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 4 | 1.13 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 7 | 1.13 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 7 | 1.13 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 7 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 9 | 1.13 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 9 | 1.13 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 9 | 1.13 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 6 | 1.13 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 7 | 1.13 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 10 | 1.13 |
| (1,3209) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 12 | 1.13 |
| (1,3209) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 12 | 1.13 |
| (1,3209) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 12 | 1.13 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 17 | 1.13 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 7 | 1.13 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 7 | 1.13 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 1 | 1.13 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 2 | 1.13 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 2 | 1.13 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 18 | 1.13 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 18 | 1.13 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 1 | 1.13 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 5 | 1.13 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 5 | 1.13 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 8 | 1.13 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 6 | 1.13 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 7 | 1.13 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 1 | 1.13 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 3 | 1.13 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 5 | 1.13 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 11 | 1.13 |
| (1,2867) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 15 | 1.13 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 8 | 1.13 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 8 | 1.13 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 8 | 1.13 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 20 | 1.13 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 6 | 1.13 |
| (1,2619) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 10 | 1.13 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 2 | 1.13 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 10 | 1.13 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 5 | 1.13 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 8 | 1.13 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 17 | 1.13 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 10 | 1.13 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 10 | 1.13 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 10 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 7 | 1.13 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 14 | 1.13 |
| (1,2385) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 10 | 1.13 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 1 | 1.13 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 1 | 1.13 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 1 | 1.13 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 12 | 1.13 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 12 | 1.13 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 12 | 1.13 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 14 | 1.13 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 2 | 1.13 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 19 | 1.13 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 7 | 1.13 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 11 | 1.13 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 11 | 1.13 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 11 | 1.13 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 14 | 1.13 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 14 | 1.13 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 14 | 1.13 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 15 | 1.13 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 19 | 1.13 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 19 | 1.13 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 19 | 1.13 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 10 | 1.13 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 4 | 1.13 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 4 | 1.13 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 4 | 1.13 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 12 | 1.13 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 12 | 1.13 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 12 | 1.13 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 1 | 1.13 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 1 | 1.13 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 1 | 1.13 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 12 | 1.13 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 12 | 1.13 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 12 | 1.13 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 6 | 1.13 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 6 | 1.13 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 6 | 1.13 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 10 | 1.13 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 10 | 1.13 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 8 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 8 | 1.13 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 8 | 1.13 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 14 | 1.13 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 14 | 1.13 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 14 | 1.13 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 14 | 1.13 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 14 | 1.13 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 14 | 1.13 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 14 | 1.13 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 14 | 1.13 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 14 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 15 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 15 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 15 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 15 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 15 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 15 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 15 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 15 | 1.13 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 15 | 1.13 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 2 | 1.13 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 12 | 1.13 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 12 | 1.13 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 12 | 1.13 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 1 | 1.13 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 1 | 1.13 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 5 | 1.13 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 5 | 1.13 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 5 | 1.13 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 14 | 1.13 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 14 | 1.13 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 14 | 1.13 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 14 | 1.13 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 14 | 1.13 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 14 | 1.13 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 14 | 1.13 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 14 | 1.13 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 14 | 1.13 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 9 | 1.13 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 9 | 1.13 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 9 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 1 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 2 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 3 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 7 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 8 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 10 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 11 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 14 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 15 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 17 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 18 | 1.13 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 20 | 1.13 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 2 | 1.13 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 18 | 1.13 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 4 | 1.13 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 17 | 1.13 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 20 | 1.13 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 1 | 1.13 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 1 | 1.13 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 1 | 1.13 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 6 | 1.13 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 6 | 1.13 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 4 | 1.13 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 20 | 1.13 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 20 | 1.13 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 20 | 1.13 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 8 | 1.13 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 13 | 1.13 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 9 | 1.13 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 9 | 1.13 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 9 | 1.13 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 7 | 1.13 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 7 | 1.13 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 12 | 1.13 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 12 | 1.13 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 12 | 1.13 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 14 | 1.13 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 20 | 1.13 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 2 | 1.13 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 9 | 1.13 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 15 | 1.13 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 19 | 1.13 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 20 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 11 | 1.13 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 10 | 1.13 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 3 | 1.13 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 2 | 1.13 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 6 | 1.13 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 6 | 1.13 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 6 | 1.13 |
| (1,635) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 7 | 1.13 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 8 | 1.13 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 8 | 1.13 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 8 | 1.13 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 6 | 1.13 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 1.13 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 1.13 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 1.13 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 1.13 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 1.13 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 1.13 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 1 | 1.13 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 1 | 1.13 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 1 | 1.13 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 6 | 1.13 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 4 | 1.13 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 1 | 1.13 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 1 | 1.13 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 1 | 1.13 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 4 | 1.13 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 4 | 1.13 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 4 | 1.13 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 12 | 1.13 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 12 | 1.13 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 12 | 1.13 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 15 | 1.13 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 4 | 1.13 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 1 | 1.13 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 1 | 1.13 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 1 | 1.13 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 11 | 1.13 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 11 | 1.13 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 11 | 1.13 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 6 | 1.13 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 7 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 17 | 1.13 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 20 | 1.13 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 10 | 1.13 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 17 | 1.13 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 17 | 1.13 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 17 | 1.13 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 16 | 1.13 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 14 | 1.13 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 14 | 1.13 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 17 | 1.13 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 16 | 1.13 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 16 | 1.13 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 16 | 1.13 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 5 | 1.13 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 5 | 1.13 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 5 | 1.13 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 16 | 1.13 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 16 | 1.13 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 16 | 1.13 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 3 | 1.13 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 3 | 1.13 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 6 | 1.13 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 2 | 1.13 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 13 | 1.12 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 11 | 1.12 |
| (3,783) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 11 | 1.12 |
| (3,783) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 11 | 1.12 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 19 | 1.12 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 19 | 1.12 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 2 | 1.12 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 2 | 1.12 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 2 | 1.12 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 16 | 1.12 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 16 | 1.12 |
| (3,571) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 5 | 1.12 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 12 | 1.12 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 1 | 1.12 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 20 | 1.12 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 20 | 1.12 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 20 | 1.12 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 20 | 1.12 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 20 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 20 | 1.12 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 20 | 1.12 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 20 | 1.12 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 20 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 15 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 15 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 15 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 15 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 15 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 15 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 20 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 20 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 20 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 20 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 20 | 1.12 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 20 | 1.12 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 12 | 1.12 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 12 | 1.12 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 11 | 1.12 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 11 | 1.12 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 11 | 1.12 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 11 | 1.12 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 11 | 1.12 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 11 | 1.12 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 19 | 1.12 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 19 | 1.12 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 20 | 1.12 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 14 | 1.12 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 14 | 1.12 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 18 | 1.12 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 6 | 1.12 |
| (1,7642) | 1:28:A:ILE:H | 1:31:A:ALA:H | 7 | 1.12 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 4 | 1.12 |
| (1,7247) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 6 | 1.12 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 10 | 1.12 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 4 | 1.12 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 4 | 1.12 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 4 | 1.12 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 1 | 1.12 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 1 | 1.12 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 1 | 1.12 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 9 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 10 | 1.12 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 16 | 1.12 |
| (1,6969) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 13 | 1.12 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 3 | 1.12 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 4 | 1.12 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 4 | 1.12 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 4 | 1.12 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 12 | 1.12 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 20 | 1.12 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 15 | 1.12 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 19 | 1.12 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 2 | 1.12 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 4 | 1.12 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 4 | 1.12 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 4 | 1.12 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 4 | 1.12 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 4 | 1.12 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 4 | 1.12 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 4 | 1.12 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 4 | 1.12 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 4 | 1.12 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 18 | 1.12 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 18 | 1.12 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 13 | 1.12 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 11 | 1.12 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 4 | 1.12 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 18 | 1.12 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 9 | 1.12 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 18 | 1.12 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 9 | 1.12 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 4 | 1.12 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 4 | 1.12 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 4 | 1.12 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 16 | 1.12 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 16 | 1.12 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 16 | 1.12 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 16 | 1.12 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 16 | 1.12 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 16 | 1.12 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 16 | 1.12 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 16 | 1.12 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 16 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 10 | 1.12 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 10 | 1.12 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 10 | 1.12 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 4 | 1.12 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 3 | 1.12 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 3 | 1.12 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 20 | 1.12 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 20 | 1.12 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 19 | 1.12 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB1 | 18 | 1.12 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB2 | 18 | 1.12 |
| (1,4361) | 1:111:A:SER:HB2 | 1:116:A:ALA:HB3 | 18 | 1.12 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB1 | 18 | 1.12 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB2 | 18 | 1.12 |
| (1,4361) | 1:111:A:SER:HB3 | 1:116:A:ALA:HB3 | 18 | 1.12 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 16 | 1.12 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 5 | 1.12 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 5 | 1.12 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 12 | 1.12 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 12 | 1.12 |
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 17 | 1.12 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 13 | 1.12 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 13 | 1.12 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 13 | 1.12 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 13 | 1.12 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 13 | 1.12 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 13 | 1.12 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 4 | 1.12 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 4 | 1.12 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 4 | 1.12 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 4 | 1.12 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 4 | 1.12 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 4 | 1.12 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 1 | 1.12 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 1 | 1.12 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 10 | 1.12 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 10 | 1.12 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 19 | 1.12 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 19 | 1.12 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 7 | 1.12 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 8 | 1.12 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 8 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 10 | 1.12 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 7 | 1.12 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 7 | 1.12 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 7 | 1.12 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 7 | 1.12 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 7 | 1.12 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 7 | 1.12 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 4 | 1.12 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 4 | 1.12 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 4 | 1.12 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 11 | 1.12 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 11 | 1.12 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 11 | 1.12 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 11 | 1.12 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 11 | 1.12 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 11 | 1.12 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 11 | 1.12 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 11 | 1.12 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 16 | 1.12 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 16 | 1.12 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 1.12 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 1.12 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 3 | 1.12 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 15 | 1.12 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 15 | 1.12 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 15 | 1.12 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 15 | 1.12 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 15 | 1.12 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 4 | 1.12 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 4 | 1.12 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 4 | 1.12 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 6 | 1.12 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 14 | 1.12 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 14 | 1.12 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 15 | 1.12 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 15 | 1.12 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 15 | 1.12 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 5 | 1.12 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 16 | 1.12 |
| (1,3191) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 10 | 1.12 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 6 | 1.12 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 7 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 12 | 1.12 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 13 | 1.12 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 20 | 1.12 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 16 | 1.12 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 16 | 1.12 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 11 | 1.12 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 11 | 1.12 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 11 | 1.12 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 16 | 1.12 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 16 | 1.12 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 16 | 1.12 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 10 | 1.12 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 17 | 1.12 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 15 | 1.12 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 15 | 1.12 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 15 | 1.12 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 1 | 1.12 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 13 | 1.12 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 13 | 1.12 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 7 | 1.12 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 7 | 1.12 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 11 | 1.12 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 11 | 1.12 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 11 | 1.12 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 11 | 1.12 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 11 | 1.12 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 11 | 1.12 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 2 | 1.12 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 2 | 1.12 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 2 | 1.12 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 2 | 1.12 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 2 | 1.12 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 2 | 1.12 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 2 | 1.12 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 2 | 1.12 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 2 | 1.12 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 10 | 1.12 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 10 | 1.12 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 19 | 1.12 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 19 | 1.12 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 19 | 1.12 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2517) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 13 | 1.12 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 18 | 1.12 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 20 | 1.12 |
| (1,2481) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 20 | 1.12 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 5 | 1.12 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 19 | 1.12 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 6 | 1.12 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 9 | 1.12 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 9 | 1.12 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 9 | 1.12 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 3 | 1.12 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 3 | 1.12 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 3 | 1.12 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 15 | 1.12 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 15 | 1.12 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 15 | 1.12 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 13 | 1.12 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 9 | 1.12 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 9 | 1.12 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 9 | 1.12 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 15 | 1.12 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 15 | 1.12 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 15 | 1.12 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 4 | 1.12 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 6 | 1.12 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 6 | 1.12 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 6 | 1.12 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 11 | 1.12 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 11 | 1.12 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 11 | 1.12 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 4 | 1.12 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 4 | 1.12 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 4 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 1 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 1 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 1 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 1 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 1 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 1 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 1 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 1 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 1 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 16 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 16 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 16 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 16 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 16 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 16 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 16 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 16 | 1.12 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 16 | 1.12 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 5 | 1.12 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 5 | 1.12 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 5 | 1.12 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 10 | 1.12 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 10 | 1.12 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 10 | 1.12 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 17 | 1.12 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 17 | 1.12 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 17 | 1.12 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 3 | 1.12 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 3 | 1.12 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 3 | 1.12 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 9 | 1.12 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 7 | 1.12 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 7 | 1.12 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 7 | 1.12 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 14 | 1.12 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 14 | 1.12 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 14 | 1.12 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 10 | 1.12 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 10 | 1.12 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 10 | 1.12 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 10 | 1.12 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 10 | 1.12 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 10 | 1.12 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 10 | 1.12 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 10 | 1.12 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 10 | 1.12 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 19 | 1.12 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 19 | 1.12 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 19 | 1.12 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 19 | 1.12 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 19 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 19 | 1.12 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 19 | 1.12 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 19 | 1.12 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 19 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 9 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 9 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 9 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 9 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 9 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 9 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 9 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 9 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 9 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 20 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 20 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 20 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 20 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 20 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 20 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 20 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 20 | 1.12 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 20 | 1.12 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 4 | 1.12 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 5 | 1.12 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 6 | 1.12 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 9 | 1.12 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 12 | 1.12 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 13 | 1.12 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 19 | 1.12 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 2 | 1.12 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 2 | 1.12 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 15 | 1.12 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 7 | 1.12 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 9 | 1.12 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 9 | 1.12 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 17 | 1.12 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 17 | 1.12 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 7 | 1.12 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 7 | 1.12 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 7 | 1.12 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 5 | 1.12 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 5 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 5 | 1.12 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 5 | 1.12 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 9 | 1.12 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 9 | 1.12 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 11 | 1.12 |
| (1,1293) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 7 | 1.12 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 8 | 1.12 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 8 | 1.12 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 8 | 1.12 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 16 | 1.12 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 16 | 1.12 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 11 | 1.12 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 4 | 1.12 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 9 | 1.12 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 9 | 1.12 |
| (1,1059) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE22 | 18 | 1.12 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 18 | 1.12 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 2 | 1.12 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 16 | 1.12 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 16 | 1.12 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 16 | 1.12 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 16 | 1.12 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 16 | 1.12 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 16 | 1.12 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 19 | 1.12 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 19 | 1.12 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 19 | 1.12 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 19 | 1.12 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 19 | 1.12 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 19 | 1.12 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 5 | 1.12 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 1 | 1.12 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 4 | 1.12 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 17 | 1.12 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 17 | 1.12 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 17 | 1.12 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 4 | 1.12 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 4 | 1.12 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 4 | 1.12 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 9 | 1.12 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 9 | 1.12 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 9 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 16 | 1.12 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 16 | 1.12 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 16 | 1.12 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 16 | 1.12 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 16 | 1.12 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 16 | 1.12 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 16 | 1.12 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 16 | 1.12 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 16 | 1.12 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 2 | 1.12 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 2 | 1.12 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 2 | 1.12 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 2 | 1.12 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 2 | 1.12 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 2 | 1.12 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 8 | 1.12 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 18 | 1.12 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 11 | 1.12 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 20 | 1.12 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 20 | 1.12 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 20 | 1.12 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 20 | 1.12 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 20 | 1.12 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 20 | 1.12 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 20 | 1.12 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 20 | 1.12 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 20 | 1.12 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 11 | 1.12 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 11 | 1.12 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 11 | 1.12 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 7 | 1.12 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 7 | 1.12 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 7 | 1.12 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 15 | 1.12 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 15 | 1.12 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 15 | 1.12 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 5 | 1.12 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 9 | 1.12 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 9 | 1.12 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 9 | 1.12 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 17 | 1.12 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 5 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 5 | 1.12 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 5 | 1.12 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 1 | 1.12 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 4 | 1.12 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 4 | 1.12 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 4 | 1.12 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 4 | 1.12 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 4 | 1.12 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 4 | 1.12 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 4 | 1.12 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 4 | 1.12 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 4 | 1.12 |
| (1,377) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 9 | 1.12 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 13 | 1.12 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 13 | 1.12 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 13 | 1.12 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 6 | 1.12 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 6 | 1.12 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 6 | 1.12 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 4 | 1.12 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 9 | 1.12 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 9 | 1.12 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 9 | 1.12 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 18 | 1.12 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 18 | 1.12 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 18 | 1.12 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 11 | 1.12 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 16 | 1.12 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 8 | 1.12 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 9 | 1.12 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 9 | 1.12 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 13 | 1.12 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 10 | 1.12 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 10 | 1.12 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 18 | 1.12 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 18 | 1.12 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 18 | 1.12 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 18 | 1.12 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 18 | 1.12 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 18 | 1.12 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 5 | 1.12 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 5 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 5 | 1.12 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 17 | 1.12 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 17 | 1.12 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 17 | 1.12 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 20 | 1.12 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 2 | 1.12 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 2 | 1.12 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 2 | 1.12 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 4 | 1.12 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 10 | 1.12 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 10 | 1.12 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 10 | 1.12 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 18 | 1.12 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 15 | 1.12 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 15 | 1.12 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 15 | 1.12 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 15 | 1.12 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 6 | 1.12 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 2 | 1.11 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 20 | 1.11 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 20 | 1.11 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 11 | 1.11 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 7 | 1.11 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 7 | 1.11 |
| (3,106) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 3 | 1.11 |
| (3,106) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 3 | 1.11 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 14 | 1.11 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 14 | 1.11 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 14 | 1.11 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 14 | 1.11 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 18 | 1.11 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 18 | 1.11 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 13 | 1.11 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 13 | 1.11 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 13 | 1.11 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 13 | 1.11 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 13 | 1.11 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 13 | 1.11 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 16 | 1.11 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 16 | 1.11 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 16 | 1.11 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 16 | 1.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 4 | 1.11 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 8 | 1.11 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 8 | 1.11 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 8 | 1.11 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 1 | 1.11 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 6 | 1.11 |
| (1,7609) | 1:26:A:ASN:H | 1:30:A:ASN:H | 9 | 1.11 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 15 | 1.11 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 17 | 1.11 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 6 | 1.11 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 6 | 1.11 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 11 | 1.11 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 11 | 1.11 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 11 | 1.11 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 11 | 1.11 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 11 | 1.11 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 11 | 1.11 |
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 15 | 1.11 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 12 | 1.11 |
| (1,6566) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 1 | 1.11 |
| (1,6566) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 4 | 1.11 |
| (1,6566) | 1:11:A:TRP:HA | 1:12:A:GLU:H | 15 | 1.11 |
| (1,6451) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 20 | 1.11 |
| (1,6451) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 20 | 1.11 |
| (1,6451) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 20 | 1.11 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 12 | 1.11 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG21 | 15 | 1.11 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG22 | 15 | 1.11 |
| (1,6315) | 1:151:A:PHE:H | 1:152:A:THR:HG23 | 15 | 1.11 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 15 | 1.11 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 14 | 1.11 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 18 | 1.11 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 19 | 1.11 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 13 | 1.11 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 13 | 1.11 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 13 | 1.11 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 18 | 1.11 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 18 | 1.11 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 18 | 1.11 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 10 | 1.11 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 10 | 1.11 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 10 | 1.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 11 | 1.11 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 13 | 1.11 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 13 | 1.11 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 13 | 1.11 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 18 | 1.11 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 18 | 1.11 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 18 | 1.11 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 18 | 1.11 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 18 | 1.11 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 18 | 1.11 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 14 | 1.11 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 14 | 1.11 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 12 | 1.11 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 12 | 1.11 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 13 | 1.11 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 13 | 1.11 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 19 | 1.11 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 19 | 1.11 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 19 | 1.11 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 19 | 1.11 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 7 | 1.11 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 7 | 1.11 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 17 | 1.11 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 17 | 1.11 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 19 | 1.11 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 19 | 1.11 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 14 | 1.11 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 14 | 1.11 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 14 | 1.11 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 14 | 1.11 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 2 | 1.11 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 2 | 1.11 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 2 | 1.11 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 2 | 1.11 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 2 | 1.11 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 2 | 1.11 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 13 | 1.11 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 20 | 1.11 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 20 | 1.11 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 8 | 1.11 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 8 | 1.11 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 8 | 1.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 8 | 1.11 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 8 | 1.11 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 8 | 1.11 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 9 | 1.11 |
| (1,3811) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 9 | 1.11 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 9 | 1.11 |
| (1,3811) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 9 | 1.11 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 9 | 1.11 |
| (1,3811) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 9 | 1.11 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 9 | 1.11 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 9 | 1.11 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 8 | 1.11 |
| (1,3677) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 8 | 1.11 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 8 | 1.11 |
| (1,3677) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 8 | 1.11 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 1 | 1.11 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 1 | 1.11 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 17 | 1.11 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 5 | 1.11 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 8 | 1.11 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 8 | 1.11 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 8 | 1.11 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 1 | 1.11 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 14 | 1.11 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 14 | 1.11 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 19 | 1.11 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 19 | 1.11 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 13 | 1.11 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 20 | 1.11 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 8 | 1.11 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 15 | 1.11 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 14 | 1.11 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 15 | 1.11 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 3 | 1.11 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 13 | 1.11 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 13 | 1.11 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 13 | 1.11 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 20 | 1.11 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 20 | 1.11 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 20 | 1.11 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 14 | 1.11 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 14 | 1.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 12 | 1.11 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 3 | 1.11 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 3 | 1.11 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 3 | 1.11 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 3 | 1.11 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 3 | 1.11 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 3 | 1.11 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 18 | 1.11 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 20 | 1.11 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 20 | 1.11 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 11 | 1.11 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 11 | 1.11 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 5 | 1.11 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 6 | 1.11 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 11 | 1.11 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 12 | 1.11 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 9 | 1.11 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 10 | 1.11 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 10 | 1.11 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 10 | 1.11 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 8 | 1.11 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 3 | 1.11 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 10 | 1.11 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 14 | 1.11 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 14 | 1.11 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 14 | 1.11 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 1 | 1.11 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 1 | 1.11 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 1 | 1.11 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 10 | 1.11 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 10 | 1.11 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 10 | 1.11 |
| (1,1753) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 6 | 1.11 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 7 | 1.11 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 7 | 1.11 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 7 | 1.11 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 12 | 1.11 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 12 | 1.11 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 12 | 1.11 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 4 | 1.11 |
| (1,1595) | 1:134:A:PHE:HA | 1:135:A:GLU:H | 16 | 1.11 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 17 | 1.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 5 | 1.11 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 15 | 1.11 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 4 | 1.11 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 16 | 1.11 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 20 | 1.11 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 20 | 1.11 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 20 | 1.11 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 20 | 1.11 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 20 | 1.11 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 20 | 1.11 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 14 | 1.11 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 14 | 1.11 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 14 | 1.11 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 3 | 1.11 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 12 | 1.11 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 1 | 1.11 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 1 | 1.11 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 1 | 1.11 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 19 | 1.11 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 19 | 1.11 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 19 | 1.11 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 19 | 1.11 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 19 | 1.11 |
| (1,1029) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 3 | 1.11 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 19 | 1.11 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 8 | 1.11 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 8 | 1.11 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 8 | 1.11 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 9 | 1.11 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 9 | 1.11 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 9 | 1.11 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 15 | 1.11 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 6 | 1.11 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 17 | 1.11 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 17 | 1.11 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 17 | 1.11 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 17 | 1.11 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 17 | 1.11 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 17 | 1.11 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 13 | 1.11 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 8 | 1.11 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 14 | 1.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 14 | 1.11 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 4 | 1.11 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 4 | 1.11 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 6 | 1.11 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 6 | 1.11 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 14 | 1.11 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 14 | 1.11 |
| (1,607) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE22 | 17 | 1.11 |
| (1,607) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE22 | 17 | 1.11 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 18 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 1 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 1 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 1 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 2 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 2 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 2 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 6 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 6 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 6 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 7 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 7 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 7 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 8 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 8 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 8 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 10 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 10 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 10 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 11 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 11 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 11 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 12 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 12 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 12 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 14 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 14 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 14 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 15 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 15 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 15 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 16 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 16 | 1.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 16 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 17 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 17 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 17 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 18 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 18 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 18 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 19 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 19 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 19 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 20 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 20 | 1.11 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 20 | 1.11 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 19 | 1.11 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 19 | 1.11 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 19 | 1.11 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 2 | 1.11 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 14 | 1.11 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 19 | 1.11 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 9 | 1.11 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 7 | 1.11 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 7 | 1.11 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 7 | 1.11 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 1 | 1.11 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 1 | 1.11 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 1 | 1.11 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 1 | 1.11 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 1 | 1.11 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 1 | 1.11 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 12 | 1.11 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 12 | 1.11 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 11 | 1.11 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 17 | 1.11 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 17 | 1.11 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 17 | 1.11 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 15 | 1.11 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 19 | 1.11 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 19 | 1.11 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 19 | 1.11 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 4 | 1.11 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 15 | 1.11 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 15 | 1.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 15 | 1.11 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 8 | 1.11 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 8 | 1.11 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 8 | 1.11 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 2 | 1.11 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 4 | 1.11 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 16 | 1.11 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 1 | 1.11 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 3 | 1.11 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 6 | 1.11 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 1 | 1.11 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 6 | 1.11 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 6 | 1.11 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 3 | 1.11 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 10 | 1.11 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 10 | 1.11 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 10 | 1.11 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 18 | 1.11 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 18 | 1.11 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 18 | 1.11 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 9 | 1.11 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 9 | 1.11 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 9 | 1.11 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 17 | 1.11 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 17 | 1.11 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 17 | 1.11 |
| (1,88) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 14 | 1.11 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 4 | 1.11 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 4 | 1.11 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 4 | 1.11 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 7 | 1.11 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 7 | 1.11 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 7 | 1.11 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 19 | 1.11 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 19 | 1.11 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 19 | 1.11 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 19 | 1.11 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 19 | 1.11 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 19 | 1.11 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 19 | 1.11 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 19 | 1.11 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 19 | 1.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 11 | 1.11 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 11 | 1.11 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 4 | 1.11 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 4 | 1.11 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 4 | 1.11 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 4 | 1.11 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 15 | 1.11 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 2 | 1.1 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 20 | 1.1 |
| (4,198) | 1:131:A:GLN:CB | 1:26:A:ASN:HD21 | 18 | 1.1 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 16 | 1.1 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 16 | 1.1 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 16 | 1.1 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 16 | 1.1 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 12 | 1.1 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 12 | 1.1 |
| (3,571) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 4 | 1.1 |
| (3,488) | 1:85:A:ALA:H | 1:88:A:LEU:H | 19 | 1.1 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 11 | 1.1 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 11 | 1.1 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 11 | 1.1 |
| (3,213) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 5 | 1.1 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 17 | 1.1 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 6 | 1.1 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 6 | 1.1 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 6 | 1.1 |
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 5 | 1.1 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 5 | 1.1 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 12 | 1.1 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 12 | 1.1 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 12 | 1.1 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 12 | 1.1 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 12 | 1.1 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 12 | 1.1 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 20 | 1.1 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 1.1 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 10 | 1.1 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 10 | 1.1 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 7 | 1.1 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 7 | 1.1 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 8 | 1.1 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 8 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 8 | 1.1 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 8 | 1.1 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 16 | 1.1 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 10 | 1.1 |
| (1,7900) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 6 | 1.1 |
| (1,7900) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 6 | 1.1 |
| (1,7735) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 20 | 1.1 |
| (1,7735) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 20 | 1.1 |
| (1,7642) | 1:28:A:ILE:H | 1:31:A:ALA:H | 14 | 1.1 |
| (1,7600) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 7 | 1.1 |
| (1,7583) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 20 | 1.1 |
| (1,7247) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 9 | 1.1 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 18 | 1.1 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 6 | 1.1 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 2 | 1.1 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 7 | 1.1 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 16 | 1.1 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 14 | 1.1 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 14 | 1.1 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 14 | 1.1 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 15 | 1.1 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 17 | 1.1 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 12 | 1.1 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 10 | 1.1 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 2 | 1.1 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 2 | 1.1 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 2 | 1.1 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 2 | 1.1 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 2 | 1.1 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 2 | 1.1 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 2 | 1.1 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 2 | 1.1 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 2 | 1.1 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 12 | 1.1 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 12 | 1.1 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 12 | 1.1 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 12 | 1.1 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 12 | 1.1 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 12 | 1.1 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 14 | 1.1 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 14 | 1.1 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 3 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 18 | 1.1 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 12 | 1.1 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 13 | 1.1 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 9 | 1.1 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 14 | 1.1 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 7 | 1.1 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 11 | 1.1 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 15 | 1.1 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 6 | 1.1 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 6 | 1.1 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 6 | 1.1 |
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 13 | 1.1 |
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 13 | 1.1 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 13 | 1.1 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 1 | 1.1 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 14 | 1.1 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 15 | 1.1 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 15 | 1.1 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 1 | 1.1 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 1 | 1.1 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 10 | 1.1 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 10 | 1.1 |
| (1,4337) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 17 | 1.1 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 4 | 1.1 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 4 | 1.1 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 18 | 1.1 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 18 | 1.1 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 18 | 1.1 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 6 | 1.1 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 6 | 1.1 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 6 | 1.1 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 6 | 1.1 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 6 | 1.1 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 6 | 1.1 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 3 | 1.1 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 3 | 1.1 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 3 | 1.1 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 3 | 1.1 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 3 | 1.1 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 3 | 1.1 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 15 | 1.1 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 15 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 15 | 1.1 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 15 | 1.1 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 15 | 1.1 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 15 | 1.1 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 6 | 1.1 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 6 | 1.1 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 4 | 1.1 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 4 | 1.1 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 19 | 1.1 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 15 | 1.1 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 15 | 1.1 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 13 | 1.1 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 13 | 1.1 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 4 | 1.1 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 4 | 1.1 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 16 | 1.1 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 16 | 1.1 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 9 | 1.1 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 3 | 1.1 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 5 | 1.1 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 10 | 1.1 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 12 | 1.1 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 13 | 1.1 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 17 | 1.1 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 20 | 1.1 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 4 | 1.1 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 6 | 1.1 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 9 | 1.1 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 9 | 1.1 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 9 | 1.1 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 2 | 1.1 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 2 | 1.1 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 2 | 1.1 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 11 | 1.1 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 9 | 1.1 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 1 | 1.1 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 1 | 1.1 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 10 | 1.1 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 3 | 1.1 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 10 | 1.1 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 3 | 1.1 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 1 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 11 | 1.1 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 17 | 1.1 |
| (1,3093) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 14 | 1.1 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 19 | 1.1 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 19 | 1.1 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 19 | 1.1 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 16 | 1.1 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 16 | 1.1 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 16 | 1.1 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 2 | 1.1 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 17 | 1.1 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 17 | 1.1 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 17 | 1.1 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 12 | 1.1 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 12 | 1.1 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 12 | 1.1 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 12 | 1.1 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 9 | 1.1 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 9 | 1.1 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 18 | 1.1 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 18 | 1.1 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 7 | 1.1 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 11 | 1.1 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 11 | 1.1 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 17 | 1.1 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 17 | 1.1 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 2 | 1.1 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 9 | 1.1 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 9 | 1.1 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 19 | 1.1 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 15 | 1.1 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 17 | 1.1 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 17 | 1.1 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 17 | 1.1 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 17 | 1.1 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 20 | 1.1 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 20 | 1.1 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 20 | 1.1 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 12 | 1.1 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 19 | 1.1 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 17 | 1.1 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 17 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 17 | 1.1 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 18 | 1.1 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 18 | 1.1 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 18 | 1.1 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 18 | 1.1 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 18 | 1.1 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 18 | 1.1 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 18 | 1.1 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 18 | 1.1 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 18 | 1.1 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 10 | 1.1 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 15 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 7 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 7 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 7 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 7 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 7 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 7 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 7 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 7 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 7 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 15 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 15 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 15 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 15 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 15 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 15 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 15 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 15 | 1.1 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 15 | 1.1 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 5 | 1.1 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 20 | 1.1 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 14 | 1.1 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 14 | 1.1 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 14 | 1.1 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 20 | 1.1 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 20 | 1.1 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 20 | 1.1 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 2 | 1.1 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 2 | 1.1 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 2 | 1.1 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 7 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 7 | 1.1 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 7 | 1.1 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 10 | 1.1 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 8 | 1.1 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 20 | 1.1 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 20 | 1.1 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 1 | 1.1 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 1 | 1.1 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 14 | 1.1 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 14 | 1.1 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 11 | 1.1 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 2 | 1.1 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 2 | 1.1 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 2 | 1.1 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 2 | 1.1 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 2 | 1.1 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 2 | 1.1 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 2 | 1.1 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 2 | 1.1 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 2 | 1.1 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 14 | 1.1 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 14 | 1.1 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 14 | 1.1 |
| (1,1625) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 6 | 1.1 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 1 | 1.1 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 1 | 1.1 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 1 | 1.1 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 10 | 1.1 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 10 | 1.1 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 10 | 1.1 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 2 | 1.1 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 17 | 1.1 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 5 | 1.1 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 5 | 1.1 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 14 | 1.1 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 14 | 1.1 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 15 | 1.1 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 15 | 1.1 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 19 | 1.1 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 19 | 1.1 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 10 | 1.1 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 13 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 13 | 1.1 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 17 | 1.1 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 17 | 1.1 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 17 | 1.1 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 17 | 1.1 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 17 | 1.1 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 17 | 1.1 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 15 | 1.1 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 15 | 1.1 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 15 | 1.1 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 16 | 1.1 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 16 | 1.1 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 16 | 1.1 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 3 | 1.1 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 18 | 1.1 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 4 | 1.1 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 4 | 1.1 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 15 | 1.1 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 12 | 1.1 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 10 | 1.1 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 8 | 1.1 |
| (1,945) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 3 | 1.1 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 3 | 1.1 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 1 | 1.1 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 1 | 1.1 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 1 | 1.1 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 1 | 1.1 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 1 | 1.1 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 1 | 1.1 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 16 | 1.1 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 16 | 1.1 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 16 | 1.1 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 16 | 1.1 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 16 | 1.1 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 16 | 1.1 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 8 | 1.1 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 10 | 1.1 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 2 | 1.1 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 18 | 1.1 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 3 | 1.1 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 3 | 1.1 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 3 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 5 | 1.1 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 5 | 1.1 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 5 | 1.1 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD11 | 13 | 1.1 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD12 | 13 | 1.1 |
| (1,559) | 1:93:A:ILE:HB | 1:93:A:ILE:HD13 | 13 | 1.1 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 10 | 1.1 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 10 | 1.1 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 10 | 1.1 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 10 | 1.1 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 10 | 1.1 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 10 | 1.1 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 10 | 1.1 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 10 | 1.1 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 10 | 1.1 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 20 | 1.1 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 8 | 1.1 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 8 | 1.1 |
| (1,494) | 1:88:A:LEU:H | 1:91:A:GLY:H | 12 | 1.1 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 3 | 1.1 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 3 | 1.1 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 3 | 1.1 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 3 | 1.1 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 3 | 1.1 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 3 | 1.1 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 3 | 1.1 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 3 | 1.1 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 3 | 1.1 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 5 | 1.1 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 5 | 1.1 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 5 | 1.1 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 1 | 1.1 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 1 | 1.1 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 1 | 1.1 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 1 | 1.1 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 1 | 1.1 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 1 | 1.1 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 4 | 1.1 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 12 | 1.1 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 15 | 1.1 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 1 | 1.1 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 1 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 1 | 1.1 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 16 | 1.1 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 15 | 1.1 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 15 | 1.1 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 15 | 1.1 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 5 | 1.1 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 5 | 1.1 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 5 | 1.1 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 15 | 1.1 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 15 | 1.1 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 15 | 1.1 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 6 | 1.1 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 17 | 1.1 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 8 | 1.1 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 5 | 1.1 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 14 | 1.1 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 18 | 1.1 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 14 | 1.1 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 14 | 1.1 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 20 | 1.1 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 4 | 1.1 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 20 | 1.1 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 20 | 1.1 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 17 | 1.1 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 17 | 1.1 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 5 | 1.1 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 5 | 1.1 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 5 | 1.1 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 14 | 1.1 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 14 | 1.1 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 14 | 1.1 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 6 | 1.1 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 6 | 1.1 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 6 | 1.1 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 7 | 1.1 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 7 | 1.1 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 7 | 1.1 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 1 | 1.1 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 14 | 1.1 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 12 | 1.1 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 12 | 1.1 |
| (4,255) | 1:15:A:MET:CB | 1:152:A:THR:H | 5 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 7 | 1.09 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 8 | 1.09 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 8 | 1.09 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 11 | 1.09 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 11 | 1.09 |
| (3,25) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 16 | 1.09 |
| (3,25) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 16 | 1.09 |
| (3,25) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 16 | 1.09 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 5 | 1.09 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 5 | 1.09 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 17 | 1.09 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 17 | 1.09 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 17 | 1.09 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 17 | 1.09 |
| (1,8877) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 9 | 1.09 |
| (1,8877) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 9 | 1.09 |
| (1,8783) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 20 | 1.09 |
| (1,8783) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 20 | 1.09 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 8 | 1.09 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 8 | 1.09 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 8 | 1.09 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 8 | 1.09 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 15 | 1.09 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 15 | 1.09 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 15 | 1.09 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 15 | 1.09 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 17 | 1.09 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 17 | 1.09 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 17 | 1.09 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 17 | 1.09 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 8 | 1.09 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 15 | 1.09 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 15 | 1.09 |
| (1,8261) | 1:119:A:ARG:H | 1:121:A:ASP:H | 12 | 1.09 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 10 | 1.09 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 20 | 1.09 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 17 | 1.09 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 14 | 1.09 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 14 | 1.09 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 14 | 1.09 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 2 | 1.09 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 2 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 4 | 1.09 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 18 | 1.09 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 2 | 1.09 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 2 | 1.09 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 11 | 1.09 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 16 | 1.09 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 2 | 1.09 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 2 | 1.09 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 2 | 1.09 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 13 | 1.09 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 13 | 1.09 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 13 | 1.09 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 13 | 1.09 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 13 | 1.09 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 13 | 1.09 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 13 | 1.09 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 13 | 1.09 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 13 | 1.09 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 11 | 1.09 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 15 | 1.09 |
| (1,6634) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 12 | 1.09 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 12 | 1.09 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 18 | 1.09 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 18 | 1.09 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 18 | 1.09 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 18 | 1.09 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 18 | 1.09 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 18 | 1.09 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 5 | 1.09 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 5 | 1.09 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 5 | 1.09 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 6 | 1.09 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 18 | 1.09 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 20 | 1.09 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 20 | 1.09 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 20 | 1.09 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 4 | 1.09 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 11 | 1.09 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 11 | 1.09 |
| (1,5949) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 13 | 1.09 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 4 | 1.09 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 4 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 4 | 1.09 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 4 | 1.09 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 4 | 1.09 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 4 | 1.09 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 1 | 1.09 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 7 | 1.09 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 7 | 1.09 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 7 | 1.09 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 5 | 1.09 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 20 | 1.09 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 1 | 1.09 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 17 | 1.09 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 11 | 1.09 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 11 | 1.09 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 7 | 1.09 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 7 | 1.09 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 5 | 1.09 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 13 | 1.09 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 13 | 1.09 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 13 | 1.09 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 5 | 1.09 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 5 | 1.09 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 5 | 1.09 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 5 | 1.09 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 5 | 1.09 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 5 | 1.09 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 5 | 1.09 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 5 | 1.09 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 5 | 1.09 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 11 | 1.09 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 3 | 1.09 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 3 | 1.09 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 3 | 1.09 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 2 | 1.09 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 2 | 1.09 |
| (1,4325) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 3 | 1.09 |
| (1,4325) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 3 | 1.09 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 15 | 1.09 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 15 | 1.09 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 15 | 1.09 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 15 | 1.09 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 15 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 15 | 1.09 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 9 | 1.09 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 9 | 1.09 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 11 | 1.09 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 11 | 1.09 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 18 | 1.09 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 18 | 1.09 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 18 | 1.09 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 18 | 1.09 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 18 | 1.09 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 18 | 1.09 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 9 | 1.09 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 9 | 1.09 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 9 | 1.09 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 13 | 1.09 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 13 | 1.09 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 13 | 1.09 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 2 | 1.09 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 1.09 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 2 | 1.09 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 16 | 1.09 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 6 | 1.09 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 8 | 1.09 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 8 | 1.09 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 8 | 1.09 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 9 | 1.09 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 9 | 1.09 |
| (1,3301) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 17 | 1.09 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 5 | 1.09 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 5 | 1.09 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 11 | 1.09 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 2 | 1.09 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 14 | 1.09 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 1 | 1.09 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 1 | 1.09 |
| (1,3191) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 7 | 1.09 |
| (1,3191) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 13 | 1.09 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 16 | 1.09 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 16 | 1.09 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 18 | 1.09 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 16 | 1.09 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 16 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 6 | 1.09 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 14 | 1.09 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 7 | 1.09 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 3 | 1.09 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 7 | 1.09 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 17 | 1.09 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 3 | 1.09 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 2 | 1.09 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 11 | 1.09 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 11 | 1.09 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 4 | 1.09 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 4 | 1.09 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 7 | 1.09 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 11 | 1.09 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 15 | 1.09 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 4 | 1.09 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 5 | 1.09 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 11 | 1.09 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 11 | 1.09 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 11 | 1.09 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 7 | 1.09 |
| (1,2499) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 12 | 1.09 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 9 | 1.09 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 13 | 1.09 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 12 | 1.09 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 11 | 1.09 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 13 | 1.09 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 18 | 1.09 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 2 | 1.09 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 2 | 1.09 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 2 | 1.09 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 12 | 1.09 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 12 | 1.09 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 12 | 1.09 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 7 | 1.09 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 7 | 1.09 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 7 | 1.09 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 9 | 1.09 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 12 | 1.09 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 6 | 1.09 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 1 | 1.09 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 7 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 12 | 1.09 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 12 | 1.09 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 12 | 1.09 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 9 | 1.09 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 12 | 1.09 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 9 | 1.09 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 9 | 1.09 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 9 | 1.09 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 9 | 1.09 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 9 | 1.09 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 9 | 1.09 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 9 | 1.09 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 9 | 1.09 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 9 | 1.09 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 19 | 1.09 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 17 | 1.09 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 17 | 1.09 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 17 | 1.09 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 17 | 1.09 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 17 | 1.09 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 17 | 1.09 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 17 | 1.09 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 17 | 1.09 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 17 | 1.09 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 15 | 1.09 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 6 | 1.09 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 6 | 1.09 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 6 | 1.09 |
| (1,1935) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 17 | 1.09 |
| (1,1935) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 17 | 1.09 |
| (1,1935) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 17 | 1.09 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 18 | 1.09 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 20 | 1.09 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 4 | 1.09 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 5 | 1.09 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 5 | 1.09 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 9 | 1.09 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 9 | 1.09 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 9 | 1.09 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 14 | 1.09 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 20 | 1.09 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 20 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 20 | 1.09 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 2 | 1.09 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 17 | 1.09 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 17 | 1.09 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 11 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 2 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 2 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 4 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 4 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 8 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 8 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 10 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 10 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 11 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 11 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 17 | 1.09 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 17 | 1.09 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 8 | 1.09 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 12 | 1.09 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 17 | 1.09 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 19 | 1.09 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 19 | 1.09 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 1 | 1.09 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 8 | 1.09 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 8 | 1.09 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 8 | 1.09 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 8 | 1.09 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 8 | 1.09 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 8 | 1.09 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 8 | 1.09 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 8 | 1.09 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 8 | 1.09 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 7 | 1.09 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 7 | 1.09 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 7 | 1.09 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 20 | 1.09 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 13 | 1.09 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 12 | 1.09 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 10 | 1.09 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 12 | 1.09 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 7 | 1.09 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 15 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 15 | 1.09 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 15 | 1.09 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 16 | 1.09 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 16 | 1.09 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 16 | 1.09 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 17 | 1.09 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 4 | 1.09 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 9 | 1.09 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 12 | 1.09 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 12 | 1.09 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 12 | 1.09 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 12 | 1.09 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 12 | 1.09 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 12 | 1.09 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 12 | 1.09 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 12 | 1.09 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 12 | 1.09 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 14 | 1.09 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 14 | 1.09 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 14 | 1.09 |
| (1,460) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HA | 17 | 1.09 |
| (1,460) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HA | 17 | 1.09 |
| (1,460) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HA | 17 | 1.09 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 9 | 1.09 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 19 | 1.09 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 9 | 1.09 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 7 | 1.09 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 1 | 1.09 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 1 | 1.09 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 16 | 1.09 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 16 | 1.09 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 18 | 1.09 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 1 | 1.09 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 1 | 1.09 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 1 | 1.09 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 1 | 1.09 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 1 | 1.09 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 1 | 1.09 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 10 | 1.09 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 10 | 1.09 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 10 | 1.09 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 12 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 12 | 1.09 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 12 | 1.09 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 7 | 1.09 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 7 | 1.09 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 7 | 1.09 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 11 | 1.09 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 13 | 1.09 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 2 | 1.09 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 2 | 1.09 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 4 | 1.09 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 4 | 1.09 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 2 | 1.09 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 2 | 1.09 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 2 | 1.09 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 8 | 1.09 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 8 | 1.09 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 8 | 1.09 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 5 | 1.09 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 5 | 1.09 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 5 | 1.09 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 12 | 1.09 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 8 | 1.09 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 20 | 1.09 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 5 | 1.09 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 14 | 1.09 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 8 | 1.09 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 8 | 1.09 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 8 | 1.09 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 5 | 1.09 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 5 | 1.09 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 5 | 1.09 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 11 | 1.09 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 3 | 1.09 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 5 | 1.09 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 5 | 1.09 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 7 | 1.09 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 7 | 1.09 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 7 | 1.09 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 1 | 1.09 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 1 | 1.09 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 1 | 1.09 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 1 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 11 | 1.09 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 11 | 1.09 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 11 | 1.09 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 11 | 1.09 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 19 | 1.09 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 19 | 1.09 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 19 | 1.09 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 19 | 1.09 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 14 | 1.08 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 17 | 1.08 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 17 | 1.08 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 19 | 1.08 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 9 | 1.08 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 5 | 1.08 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 5 | 1.08 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 18 | 1.08 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 18 | 1.08 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 18 | 1.08 |
| (3,488) | 1:85:A:ALA:H | 1:88:A:LEU:H | 8 | 1.08 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 17 | 1.08 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 17 | 1.08 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 17 | 1.08 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 17 | 1.08 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 17 | 1.08 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 17 | 1.08 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 17 | 1.08 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 17 | 1.08 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 17 | 1.08 |
| (3,135) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 1 | 1.08 |
| (3,135) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 1 | 1.08 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 19 | 1.08 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 19 | 1.08 |
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 12 | 1.08 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 12 | 1.08 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 4 | 1.08 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 4 | 1.08 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 17 | 1.08 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 17 | 1.08 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 17 | 1.08 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 17 | 1.08 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 17 | 1.08 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 17 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 1.08 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 20 | 1.08 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 1 | 1.08 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 1 | 1.08 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 15 | 1.08 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 15 | 1.08 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 7 | 1.08 |
| (1,7907) | 1:68:A:ARG:H | 1:69:A:ARG:H | 15 | 1.08 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 18 | 1.08 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 3 | 1.08 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 3 | 1.08 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 3 | 1.08 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 3 | 1.08 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 3 | 1.08 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 3 | 1.08 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 19 | 1.08 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 19 | 1.08 |
| (1,6927) | 1:26:A:ASN:H | 1:32:A:SER:HA | 9 | 1.08 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 8 | 1.08 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 10 | 1.08 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 5 | 1.08 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 15 | 1.08 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 15 | 1.08 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 15 | 1.08 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 12 | 1.08 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 13 | 1.08 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 19 | 1.08 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 19 | 1.08 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 19 | 1.08 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 19 | 1.08 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 1 | 1.08 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 9 | 1.08 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 1 | 1.08 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 1 | 1.08 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 1 | 1.08 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 11 | 1.08 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 11 | 1.08 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 11 | 1.08 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 1 | 1.08 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 1 | 1.08 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 1 | 1.08 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 4 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 4 | 1.08 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 4 | 1.08 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 12 | 1.08 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 2 | 1.08 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 17 | 1.08 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 17 | 1.08 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 16 | 1.08 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 16 | 1.08 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 16 | 1.08 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 16 | 1.08 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 7 | 1.08 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 7 | 1.08 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 7 | 1.08 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 7 | 1.08 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 7 | 1.08 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 7 | 1.08 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 14 | 1.08 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 14 | 1.08 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 11 | 1.08 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 11 | 1.08 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 18 | 1.08 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 18 | 1.08 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 18 | 1.08 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 1 | 1.08 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 1 | 1.08 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 17 | 1.08 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 17 | 1.08 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 17 | 1.08 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 17 | 1.08 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 17 | 1.08 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 17 | 1.08 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 1.08 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 11 | 1.08 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 11 | 1.08 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 13 | 1.08 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 13 | 1.08 |
| (1,3617) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 8 | 1.08 |
| (1,3525) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 5 | 1.08 |
| (1,3525) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 5 | 1.08 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 7 | 1.08 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 7 | 1.08 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 19 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 19 | 1.08 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 18 | 1.08 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 1 | 1.08 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 7 | 1.08 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 18 | 1.08 |
| (1,3439) | 1:28:A:ILE:H | 1:29:A:THR:HA | 3 | 1.08 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 14 | 1.08 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 14 | 1.08 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 14 | 1.08 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 15 | 1.08 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 15 | 1.08 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 7 | 1.08 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 3 | 1.08 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 7 | 1.08 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 5 | 1.08 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 5 | 1.08 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 8 | 1.08 |
| (1,3059) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 20 | 1.08 |
| (1,3059) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 20 | 1.08 |
| (1,3059) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 20 | 1.08 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 1 | 1.08 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 7 | 1.08 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 18 | 1.08 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 8 | 1.08 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 5 | 1.08 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 5 | 1.08 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 5 | 1.08 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 19 | 1.08 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 19 | 1.08 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 19 | 1.08 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 5 | 1.08 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 5 | 1.08 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 5 | 1.08 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 10 | 1.08 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 10 | 1.08 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 12 | 1.08 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 9 | 1.08 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 9 | 1.08 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 11 | 1.08 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 8 | 1.08 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 2 | 1.08 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 3 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 5 | 1.08 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 6 | 1.08 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 11 | 1.08 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 19 | 1.08 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 10 | 1.08 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 10 | 1.08 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 10 | 1.08 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 12 | 1.08 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 9 | 1.08 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 5 | 1.08 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 15 | 1.08 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 4 | 1.08 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 13 | 1.08 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 5 | 1.08 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 18 | 1.08 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 20 | 1.08 |
| (1,2263) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 6 | 1.08 |
| (1,2263) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 6 | 1.08 |
| (1,2263) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 6 | 1.08 |
| (1,2189) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 17 | 1.08 |
| (1,2189) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 17 | 1.08 |
| (1,2189) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 17 | 1.08 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 16 | 1.08 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 18 | 1.08 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 18 | 1.08 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 18 | 1.08 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 12 | 1.08 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 4 | 1.08 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 4 | 1.08 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 4 | 1.08 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 20 | 1.08 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 20 | 1.08 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 20 | 1.08 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 9 | 1.08 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 9 | 1.08 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 9 | 1.08 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 9 | 1.08 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 9 | 1.08 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 9 | 1.08 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 9 | 1.08 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 9 | 1.08 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 9 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 17 | 1.08 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 17 | 1.08 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 17 | 1.08 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 8 | 1.08 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 8 | 1.08 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 8 | 1.08 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 8 | 1.08 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 8 | 1.08 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 8 | 1.08 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 8 | 1.08 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 8 | 1.08 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 8 | 1.08 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 13 | 1.08 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 7 | 1.08 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 10 | 1.08 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 10 | 1.08 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 19 | 1.08 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 19 | 1.08 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 12 | 1.08 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 12 | 1.08 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 12 | 1.08 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 12 | 1.08 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 12 | 1.08 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 12 | 1.08 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 12 | 1.08 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 12 | 1.08 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 12 | 1.08 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 2 | 1.08 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 2 | 1.08 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 2 | 1.08 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 2 | 1.08 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 2 | 1.08 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 2 | 1.08 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 2 | 1.08 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 2 | 1.08 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 2 | 1.08 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 7 | 1.08 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 7 | 1.08 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 7 | 1.08 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 1 | 1.08 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 2 | 1.08 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 2 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 2 | 1.08 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 18 | 1.08 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 18 | 1.08 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 18 | 1.08 |
| (1,1581) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 18 | 1.08 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 8 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 9 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 9 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 12 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 12 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 13 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 13 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 16 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 16 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 18 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 18 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 20 | 1.08 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 20 | 1.08 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 16 | 1.08 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 11 | 1.08 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 2 | 1.08 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 14 | 1.08 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 8 | 1.08 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 12 | 1.08 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 12 | 1.08 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 19 | 1.08 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 19 | 1.08 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 19 | 1.08 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 19 | 1.08 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 19 | 1.08 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 19 | 1.08 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 9 | 1.08 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 12 | 1.08 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 12 | 1.08 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 12 | 1.08 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 11 | 1.08 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 11 | 1.08 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 11 | 1.08 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 16 | 1.08 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 16 | 1.08 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 16 | 1.08 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 14 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 5 | 1.08 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 19 | 1.08 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 19 | 1.08 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 19 | 1.08 |
| (1,1011) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 19 | 1.08 |
| (1,1011) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 19 | 1.08 |
| (1,1011) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 19 | 1.08 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 9 | 1.08 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 16 | 1.08 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 7 | 1.08 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 7 | 1.08 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 7 | 1.08 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 7 | 1.08 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 7 | 1.08 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 7 | 1.08 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 14 | 1.08 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 14 | 1.08 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 14 | 1.08 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 14 | 1.08 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 14 | 1.08 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 14 | 1.08 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 4 | 1.08 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 4 | 1.08 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 4 | 1.08 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 11 | 1.08 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 20 | 1.08 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 20 | 1.08 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 20 | 1.08 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 8 | 1.08 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 2 | 1.08 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 15 | 1.08 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 15 | 1.08 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 15 | 1.08 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 19 | 1.08 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 19 | 1.08 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 19 | 1.08 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 3 | 1.08 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 19 | 1.08 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 10 | 1.08 |
| (1,583) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 19 | 1.08 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 16 | 1.08 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 16 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 16 | 1.08 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 16 | 1.08 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 16 | 1.08 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 16 | 1.08 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 14 | 1.08 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 14 | 1.08 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 14 | 1.08 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 7 | 1.08 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 18 | 1.08 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 18 | 1.08 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 18 | 1.08 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 12 | 1.08 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 1 | 1.08 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 1 | 1.08 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 1 | 1.08 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 6 | 1.08 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 15 | 1.08 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 2 | 1.08 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 12 | 1.08 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 8 | 1.08 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 17 | 1.08 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 12 | 1.08 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 19 | 1.08 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 5 | 1.08 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 16 | 1.08 |
| (1,197) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 16 | 1.08 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 14 | 1.08 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 14 | 1.08 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 19 | 1.08 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 14 | 1.08 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 8 | 1.08 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 8 | 1.08 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 13 | 1.08 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 13 | 1.08 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 13 | 1.08 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 14 | 1.08 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 16 | 1.08 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 16 | 1.08 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 16 | 1.08 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 1 | 1.08 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 1 | 1.08 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 1 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 1 | 1.08 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 1 | 1.08 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 1 | 1.08 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 18 | 1.08 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 15 | 1.07 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 20 | 1.07 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 20 | 1.07 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 20 | 1.07 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 20 | 1.07 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 7 | 1.07 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 7 | 1.07 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 13 | 1.07 |
| (3,351) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 12 | 1.07 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 4 | 1.07 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 15 | 1.07 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 15 | 1.07 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 18 | 1.07 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 13 | 1.07 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 13 | 1.07 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 13 | 1.07 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 13 | 1.07 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 13 | 1.07 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 13 | 1.07 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 10 | 1.07 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 10 | 1.07 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 19 | 1.07 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 19 | 1.07 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 19 | 1.07 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 19 | 1.07 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 19 | 1.07 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 19 | 1.07 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 20 | 1.07 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 20 | 1.07 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 20 | 1.07 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 20 | 1.07 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 20 | 1.07 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 20 | 1.07 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 6 | 1.07 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 6 | 1.07 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 6 | 1.07 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 6 | 1.07 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 7 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 17 | 1.07 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 2 | 1.07 |
| (1,7639) | 1:27:A:HIS:HA | 1:30:A:ASN:H | 4 | 1.07 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 16 | 1.07 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 1 | 1.07 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 16 | 1.07 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 16 | 1.07 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 16 | 1.07 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 16 | 1.07 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 16 | 1.07 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 16 | 1.07 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 16 | 1.07 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 16 | 1.07 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 16 | 1.07 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 4 | 1.07 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 17 | 1.07 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 17 | 1.07 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 7 | 1.07 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 14 | 1.07 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 14 | 1.07 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 6 | 1.07 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 6 | 1.07 |
| (1,6955) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 11 | 1.07 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 20 | 1.07 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 20 | 1.07 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 20 | 1.07 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 11 | 1.07 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 16 | 1.07 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 16 | 1.07 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 16 | 1.07 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 3 | 1.07 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 16 | 1.07 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 16 | 1.07 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 16 | 1.07 |
| (1,6674) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 14 | 1.07 |
| (1,6674) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 17 | 1.07 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 13 | 1.07 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 13 | 1.07 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 13 | 1.07 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 13 | 1.07 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 13 | 1.07 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 13 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 13 | 1.07 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 2 | 1.07 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 7 | 1.07 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 7 | 1.07 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 7 | 1.07 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 7 | 1.07 |
| (1,6307) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 15 | 1.07 |
| (1,6307) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 15 | 1.07 |
| (1,6307) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 15 | 1.07 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 9 | 1.07 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 16 | 1.07 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 15 | 1.07 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 7 | 1.07 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 11 | 1.07 |
| (1,6006) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 19 | 1.07 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 5 | 1.07 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 5 | 1.07 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 5 | 1.07 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 4 | 1.07 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 6 | 1.07 |
| (1,5239) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 19 | 1.07 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 1 | 1.07 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 1 | 1.07 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 1 | 1.07 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 15 | 1.07 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 15 | 1.07 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 15 | 1.07 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 5 | 1.07 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 7 | 1.07 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 7 | 1.07 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 10 | 1.07 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 4 | 1.07 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 8 | 1.07 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 8 | 1.07 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 19 | 1.07 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 19 | 1.07 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 1 | 1.07 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 1 | 1.07 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 6 | 1.07 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 6 | 1.07 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 7 | 1.07 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 7 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 15 | 1.07 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 15 | 1.07 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 8 | 1.07 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 17 | 1.07 |
| (1,4331) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 17 | 1.07 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 17 | 1.07 |
| (1,4331) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 17 | 1.07 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 8 | 1.07 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 8 | 1.07 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 17 | 1.07 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 17 | 1.07 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 9 | 1.07 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 9 | 1.07 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 8 | 1.07 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 8 | 1.07 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 18 | 1.07 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 8 | 1.07 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 8 | 1.07 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 11 | 1.07 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 11 | 1.07 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 11 | 1.07 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 11 | 1.07 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 11 | 1.07 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 11 | 1.07 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 12 | 1.07 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 12 | 1.07 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 4 | 1.07 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 4 | 1.07 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 4 | 1.07 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 4 | 1.07 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 4 | 1.07 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 4 | 1.07 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 12 | 1.07 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 12 | 1.07 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 4 | 1.07 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 4 | 1.07 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 1 | 1.07 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 1 | 1.07 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 1 | 1.07 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 15 | 1.07 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 13 | 1.07 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 13 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 13 | 1.07 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 13 | 1.07 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 13 | 1.07 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 13 | 1.07 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 2 | 1.07 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 2 | 1.07 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 7 | 1.07 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 7 | 1.07 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 10 | 1.07 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 15 | 1.07 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 17 | 1.07 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 19 | 1.07 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 5 | 1.07 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 5 | 1.07 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 5 | 1.07 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 2 | 1.07 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 6 | 1.07 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 10 | 1.07 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 1 | 1.07 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 1 | 1.07 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 1 | 1.07 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 16 | 1.07 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 14 | 1.07 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 3 | 1.07 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 16 | 1.07 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 8 | 1.07 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 8 | 1.07 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 8 | 1.07 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 7 | 1.07 |
| (1,2561) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 14 | 1.07 |
| (1,2561) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 17 | 1.07 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 2 | 1.07 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 16 | 1.07 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 16 | 1.07 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 16 | 1.07 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 16 | 1.07 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 16 | 1.07 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 16 | 1.07 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 5 | 1.07 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 5 | 1.07 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 5 | 1.07 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 15 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 16 | 1.07 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 16 | 1.07 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 16 | 1.07 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 18 | 1.07 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 9 | 1.07 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 9 | 1.07 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 9 | 1.07 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 3 | 1.07 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 3 | 1.07 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 3 | 1.07 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 7 | 1.07 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 7 | 1.07 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 7 | 1.07 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 4 | 1.07 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 8 | 1.07 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 8 | 1.07 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 8 | 1.07 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 13 | 1.07 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 13 | 1.07 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 13 | 1.07 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 5 | 1.07 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 5 | 1.07 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 17 | 1.07 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 17 | 1.07 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 15 | 1.07 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 15 | 1.07 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 15 | 1.07 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 1 | 1.07 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 1 | 1.07 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 1 | 1.07 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 8 | 1.07 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 8 | 1.07 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 8 | 1.07 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 10 | 1.07 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 10 | 1.07 |
| (1,1567) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 13 | 1.07 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 10 | 1.07 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 6 | 1.07 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 6 | 1.07 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 2 | 1.07 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 4 | 1.07 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 8 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1509) | 1:131:A:GLN:HA | 1:132:A:LYS:H | 19 | 1.07 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 1 | 1.07 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 7 | 1.07 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 8 | 1.07 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 8 | 1.07 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 3 | 1.07 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 4 | 1.07 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 5 | 1.07 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 15 | 1.07 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 5 | 1.07 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 2 | 1.07 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 16 | 1.07 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 15 | 1.07 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 15 | 1.07 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 15 | 1.07 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 12 | 1.07 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 1 | 1.07 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 19 | 1.07 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 3 | 1.07 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 3 | 1.07 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 3 | 1.07 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 17 | 1.07 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 17 | 1.07 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 17 | 1.07 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 15 | 1.07 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 11 | 1.07 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 11 | 1.07 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 11 | 1.07 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 11 | 1.07 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 11 | 1.07 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 11 | 1.07 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 20 | 1.07 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 20 | 1.07 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 20 | 1.07 |
| (1,480) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 6 | 1.07 |
| (1,480) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 6 | 1.07 |
| (1,480) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 6 | 1.07 |
| (1,471) | 1:89:A:ILE:HG21 | 1:93:A:ILE:H | 3 | 1.07 |
| (1,471) | 1:89:A:ILE:HG22 | 1:93:A:ILE:H | 3 | 1.07 |
| (1,471) | 1:89:A:ILE:HG23 | 1:93:A:ILE:H | 3 | 1.07 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 17 | 1.07 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 17 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 17 | 1.07 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 12 | 1.07 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 12 | 1.07 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 12 | 1.07 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 9 | 1.07 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 16 | 1.07 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 11 | 1.07 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 11 | 1.07 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 11 | 1.07 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 4 | 1.07 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 4 | 1.07 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 4 | 1.07 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 9 | 1.07 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 9 | 1.07 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 9 | 1.07 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 7 | 1.07 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 20 | 1.07 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 13 | 1.07 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 13 | 1.07 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 13 | 1.07 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 13 | 1.07 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 13 | 1.07 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 6 | 1.07 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 1 | 1.07 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 1 | 1.07 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 1 | 1.07 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 13 | 1.07 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 18 | 1.07 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 18 | 1.07 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 18 | 1.07 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 4 | 1.07 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 7 | 1.07 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 9 | 1.07 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 2 | 1.07 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 12 | 1.07 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 18 | 1.07 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 5 | 1.07 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 7 | 1.07 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 7 | 1.07 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 10 | 1.07 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 4 | 1.07 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 3 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 3 | 1.07 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 3 | 1.07 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 6 | 1.07 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 6 | 1.07 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 6 | 1.07 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 1 | 1.07 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 1 | 1.07 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 5 | 1.07 |
| (4,289) | 1:98:A:SER:CB | 1:12:A:GLU:H | 4 | 1.06 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 9 | 1.06 |
| (3,979) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 19 | 1.06 |
| (3,979) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 19 | 1.06 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 10 | 1.06 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 10 | 1.06 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 10 | 1.06 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 10 | 1.06 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 7 | 1.06 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 7 | 1.06 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 4 | 1.06 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 4 | 1.06 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 4 | 1.06 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 4 | 1.06 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 4 | 1.06 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 4 | 1.06 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 7 | 1.06 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 7 | 1.06 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 20 | 1.06 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 20 | 1.06 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 20 | 1.06 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 20 | 1.06 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 19 | 1.06 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 19 | 1.06 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 4 | 1.06 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 18 | 1.06 |
| (1,7561) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 13 | 1.06 |
| (1,7561) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 13 | 1.06 |
| (1,7561) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 13 | 1.06 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 6 | 1.06 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 12 | 1.06 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 12 | 1.06 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 11 | 1.06 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 6 | 1.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 6 | 1.06 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 6 | 1.06 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 13 | 1.06 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 15 | 1.06 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 12 | 1.06 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 12 | 1.06 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 12 | 1.06 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 5 | 1.06 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 5 | 1.06 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 8 | 1.06 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 15 | 1.06 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 20 | 1.06 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 7 | 1.06 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 14 | 1.06 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 14 | 1.06 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 14 | 1.06 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 5 | 1.06 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 20 | 1.06 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 4 | 1.06 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 4 | 1.06 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 4 | 1.06 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 1 | 1.06 |
| (1,6000) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 4 | 1.06 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 15 | 1.06 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 15 | 1.06 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 8 | 1.06 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 8 | 1.06 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 8 | 1.06 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 9 | 1.06 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 9 | 1.06 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 9 | 1.06 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 2 | 1.06 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 5 | 1.06 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 12 | 1.06 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 16 | 1.06 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 6 | 1.06 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 16 | 1.06 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 16 | 1.06 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 16 | 1.06 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 16 | 1.06 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 16 | 1.06 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 16 | 1.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 16 | 1.06 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 16 | 1.06 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 16 | 1.06 |
| (1,5217) | 1:83:A:GLU:H | 1:86:A:LEU:H | 15 | 1.06 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 1 | 1.06 |
| (1,5062) | 1:78:A:ILE:HA | 1:79:A:THR:H | 13 | 1.06 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 12 | 1.06 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 2 | 1.06 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 2 | 1.06 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 2 | 1.06 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 17 | 1.06 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 17 | 1.06 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 17 | 1.06 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 14 | 1.06 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 14 | 1.06 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 14 | 1.06 |
| (1,4856) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 4 | 1.06 |
| (1,4856) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 4 | 1.06 |
| (1,4856) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 4 | 1.06 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 18 | 1.06 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 2 | 1.06 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 2 | 1.06 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 2 | 1.06 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 14 | 1.06 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 14 | 1.06 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 11 | 1.06 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 11 | 1.06 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB2 | 11 | 1.06 |
| (1,4295) | 1:105:A:SER:H | 1:106:A:LEU:HB3 | 11 | 1.06 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 10 | 1.06 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 10 | 1.06 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 18 | 1.06 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 9 | 1.06 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 9 | 1.06 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 9 | 1.06 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 9 | 1.06 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 9 | 1.06 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 9 | 1.06 |
| (1,3663) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 16 | 1.06 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 3 | 1.06 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 18 | 1.06 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 11 | 1.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 11 | 1.06 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 13 | 1.06 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 13 | 1.06 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 18 | 1.06 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 19 | 1.06 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 19 | 1.06 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 19 | 1.06 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 8 | 1.06 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 12 | 1.06 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 8 | 1.06 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 4 | 1.06 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 19 | 1.06 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 19 | 1.06 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 9 | 1.06 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 15 | 1.06 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 16 | 1.06 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 13 | 1.06 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 13 | 1.06 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 13 | 1.06 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 1 | 1.06 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 1 | 1.06 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 1 | 1.06 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 13 | 1.06 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 2 | 1.06 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 15 | 1.06 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 2 | 1.06 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 2 | 1.06 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 10 | 1.06 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 13 | 1.06 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 15 | 1.06 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 17 | 1.06 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 9 | 1.06 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 9 | 1.06 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 9 | 1.06 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 10 | 1.06 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 16 | 1.06 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 1 | 1.06 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 16 | 1.06 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 7 | 1.06 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 7 | 1.06 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 7 | 1.06 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 7 | 1.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 7 | 1.06 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 4 | 1.06 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 11 | 1.06 |
| (1,2335) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 5 | 1.06 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 5 | 1.06 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 1 | 1.06 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 12 | 1.06 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 12 | 1.06 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 12 | 1.06 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 17 | 1.06 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 17 | 1.06 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 17 | 1.06 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 15 | 1.06 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 15 | 1.06 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 15 | 1.06 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 19 | 1.06 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 19 | 1.06 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 19 | 1.06 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 15 | 1.06 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 15 | 1.06 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 15 | 1.06 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 15 | 1.06 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 15 | 1.06 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 15 | 1.06 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 15 | 1.06 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 15 | 1.06 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 15 | 1.06 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 20 | 1.06 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 20 | 1.06 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 20 | 1.06 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 17 | 1.06 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 17 | 1.06 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 17 | 1.06 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 8 | 1.06 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 8 | 1.06 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 8 | 1.06 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 13 | 1.06 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 13 | 1.06 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 13 | 1.06 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 13 | 1.06 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 13 | 1.06 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 13 | 1.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 16 | 1.06 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 16 | 1.06 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 16 | 1.06 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 8 | 1.06 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 8 | 1.06 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 8 | 1.06 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 12 | 1.06 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 12 | 1.06 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 12 | 1.06 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 15 | 1.06 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 4 | 1.06 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 1 | 1.06 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 1 | 1.06 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 3 | 1.06 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 3 | 1.06 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG2 | 7 | 1.06 |
| (1,1549) | 1:132:A:LYS:HA | 1:133:A:PRO:HG3 | 7 | 1.06 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 9 | 1.06 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 3 | 1.06 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 9 | 1.06 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 13 | 1.06 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 18 | 1.06 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 20 | 1.06 |
| (1,1497) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 4 | 1.06 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 14 | 1.06 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 11 | 1.06 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 5 | 1.06 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 3 | 1.06 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 8 | 1.06 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 8 | 1.06 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 8 | 1.06 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 13 | 1.06 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 4 | 1.06 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 4 | 1.06 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 4 | 1.06 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 14 | 1.06 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 14 | 1.06 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 14 | 1.06 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 10 | 1.06 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 20 | 1.06 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 18 | 1.06 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 7 | 1.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 18 | 1.06 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 3 | 1.06 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 3 | 1.06 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 3 | 1.06 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 11 | 1.06 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 2 | 1.06 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 2 | 1.06 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 2 | 1.06 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 6 | 1.06 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 11 | 1.06 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 11 | 1.06 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 11 | 1.06 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 11 | 1.06 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 11 | 1.06 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 11 | 1.06 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 4 | 1.06 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 4 | 1.06 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 4 | 1.06 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 2 | 1.06 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 2 | 1.06 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 2 | 1.06 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 4 | 1.06 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 17 | 1.06 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 2 | 1.06 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 2 | 1.06 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 8 | 1.06 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 8 | 1.06 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 8 | 1.06 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 16 | 1.06 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 17 | 1.06 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 13 | 1.06 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 3 | 1.06 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 3 | 1.06 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 3 | 1.06 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 4 | 1.06 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 4 | 1.06 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 4 | 1.06 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 10 | 1.06 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 10 | 1.06 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 10 | 1.06 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 14 | 1.06 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 14 | 1.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 14 | 1.06 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 15 | 1.06 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 15 | 1.06 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 15 | 1.06 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 13 | 1.06 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 11 | 1.06 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 9 | 1.06 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 18 | 1.06 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 13 | 1.06 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 3 | 1.06 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 3 | 1.06 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 3 | 1.06 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 7 | 1.06 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 16 | 1.06 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 16 | 1.06 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 16 | 1.06 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 16 | 1.06 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 16 | 1.06 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 16 | 1.06 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 16 | 1.06 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 16 | 1.06 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 16 | 1.06 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 20 | 1.06 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 20 | 1.06 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 20 | 1.06 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 9 | 1.06 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 12 | 1.06 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 12 | 1.06 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 12 | 1.06 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 12 | 1.06 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 9 | 1.06 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 9 | 1.06 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 9 | 1.06 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 5 | 1.06 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 16 | 1.05 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 11 | 1.05 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 15 | 1.05 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 12 | 1.05 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 12 | 1.05 |
| (3,610) | 1:117:A:LYS:H | 1:120:A:GLY:H | 13 | 1.05 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 6 | 1.05 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 18 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 18 | 1.05 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 18 | 1.05 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 18 | 1.05 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 20 | 1.05 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 20 | 1.05 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 20 | 1.05 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 20 | 1.05 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 9 | 1.05 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 9 | 1.05 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 5 | 1.05 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 5 | 1.05 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 5 | 1.05 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 5 | 1.05 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 4 | 1.05 |
| (1,7900) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 20 | 1.05 |
| (1,7900) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 20 | 1.05 |
| (1,7456) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HA | 7 | 1.05 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 15 | 1.05 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 15 | 1.05 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 20 | 1.05 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 16 | 1.05 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 16 | 1.05 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 19 | 1.05 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 10 | 1.05 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 10 | 1.05 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 10 | 1.05 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 5 | 1.05 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 5 | 1.05 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 5 | 1.05 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 7 | 1.05 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 20 | 1.05 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 20 | 1.05 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 20 | 1.05 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 15 | 1.05 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 17 | 1.05 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 17 | 1.05 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 17 | 1.05 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 17 | 1.05 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 17 | 1.05 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 17 | 1.05 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 17 | 1.05 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 17 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 17 | 1.05 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 13 | 1.05 |
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 13 | 1.05 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 6 | 1.05 |
| (1,5910) | 1:125:A:PHE:H | 1:126:A:SER:H | 5 | 1.05 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 13 | 1.05 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 13 | 1.05 |
| (1,5569) | 1:98:A:SER:H | 1:98:A:SER:HB2 | 4 | 1.05 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 18 | 1.05 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 18 | 1.05 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 18 | 1.05 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 15 | 1.05 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 15 | 1.05 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 15 | 1.05 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 9 | 1.05 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 9 | 1.05 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 9 | 1.05 |
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 5 | 1.05 |
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 5 | 1.05 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 5 | 1.05 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 19 | 1.05 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 19 | 1.05 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 19 | 1.05 |
| (1,5062) | 1:78:A:ILE:HA | 1:79:A:THR:H | 2 | 1.05 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 15 | 1.05 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 2 | 1.05 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 2 | 1.05 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 19 | 1.05 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 19 | 1.05 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 19 | 1.05 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 19 | 1.05 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 19 | 1.05 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 19 | 1.05 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 19 | 1.05 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 19 | 1.05 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 19 | 1.05 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 10 | 1.05 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 19 | 1.05 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 19 | 1.05 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 19 | 1.05 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 19 | 1.05 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 19 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 4 | 1.05 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 4 | 1.05 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 10 | 1.05 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 10 | 1.05 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 10 | 1.05 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 10 | 1.05 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 13 | 1.05 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 13 | 1.05 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 17 | 1.05 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 18 | 1.05 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 18 | 1.05 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 18 | 1.05 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 18 | 1.05 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 9 | 1.05 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 9 | 1.05 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 1.05 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 20 | 1.05 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 19 | 1.05 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 13 | 1.05 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 13 | 1.05 |
| (1,4209) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 13 | 1.05 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 17 | 1.05 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 17 | 1.05 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 17 | 1.05 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 17 | 1.05 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 17 | 1.05 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 17 | 1.05 |
| (1,4061) | 1:84:A:GLU:HG2 | 1:87:A:GLU:H | 9 | 1.05 |
| (1,4061) | 1:84:A:GLU:HG3 | 1:87:A:GLU:H | 9 | 1.05 |
| (1,4025) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 15 | 1.05 |
| (1,4025) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 15 | 1.05 |
| (1,4025) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 15 | 1.05 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 5 | 1.05 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 5 | 1.05 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 5 | 1.05 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 18 | 1.05 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 2 | 1.05 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 2 | 1.05 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 5 | 1.05 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 5 | 1.05 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 5 | 1.05 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 11 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 13 | 1.05 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 13 | 1.05 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 13 | 1.05 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 13 | 1.05 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 8 | 1.05 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 11 | 1.05 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 11 | 1.05 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 11 | 1.05 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 9 | 1.05 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 9 | 1.05 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 7 | 1.05 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 7 | 1.05 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 7 | 1.05 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 9 | 1.05 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 9 | 1.05 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 9 | 1.05 |
| (1,3225) | 1:90:A:ASN:H | 1:92:A:TYR:H | 1 | 1.05 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 20 | 1.05 |
| (1,3191) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 3 | 1.05 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 10 | 1.05 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 1.05 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 6 | 1.05 |
| (1,3109) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 7 | 1.05 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 8 | 1.05 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 8 | 1.05 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 8 | 1.05 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 12 | 1.05 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 11 | 1.05 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 15 | 1.05 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 18 | 1.05 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 17 | 1.05 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 17 | 1.05 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 9 | 1.05 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 20 | 1.05 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 20 | 1.05 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 5 | 1.05 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 5 | 1.05 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 5 | 1.05 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 5 | 1.05 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 5 | 1.05 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 5 | 1.05 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 18 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 18 | 1.05 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 3 | 1.05 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 6 | 1.05 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 8 | 1.05 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 20 | 1.05 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 11 | 1.05 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 1.05 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 11 | 1.05 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 17 | 1.05 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 17 | 1.05 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 17 | 1.05 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 8 | 1.05 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 5 | 1.05 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 5 | 1.05 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 5 | 1.05 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 17 | 1.05 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 3 | 1.05 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 15 | 1.05 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 5 | 1.05 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 5 | 1.05 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 5 | 1.05 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 11 | 1.05 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 11 | 1.05 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 11 | 1.05 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 11 | 1.05 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 12 | 1.05 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 12 | 1.05 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 12 | 1.05 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 12 | 1.05 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 12 | 1.05 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 12 | 1.05 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 17 | 1.05 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 17 | 1.05 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 17 | 1.05 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 13 | 1.05 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 20 | 1.05 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 20 | 1.05 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 15 | 1.05 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 13 | 1.05 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 13 | 1.05 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 13 | 1.05 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 3 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 3 | 1.05 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 20 | 1.05 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 20 | 1.05 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 20 | 1.05 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 2 | 1.05 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 11 | 1.05 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 14 | 1.05 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 10 | 1.05 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 3 | 1.05 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 14 | 1.05 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 1.05 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 19 | 1.05 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 19 | 1.05 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 19 | 1.05 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 1 | 1.05 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 1 | 1.05 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 5 | 1.05 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 5 | 1.05 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 4 | 1.05 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 1.05 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 17 | 1.05 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 14 | 1.05 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 12 | 1.05 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 12 | 1.05 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 12 | 1.05 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 12 | 1.05 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 12 | 1.05 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 12 | 1.05 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 6 | 1.05 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 19 | 1.05 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 12 | 1.05 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 12 | 1.05 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 12 | 1.05 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 13 | 1.05 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 13 | 1.05 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 13 | 1.05 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 19 | 1.05 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 19 | 1.05 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 19 | 1.05 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 8 | 1.05 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 8 | 1.05 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 11 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 11 | 1.05 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 11 | 1.05 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 5 | 1.05 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 5 | 1.05 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 5 | 1.05 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 5 | 1.05 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 5 | 1.05 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 5 | 1.05 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 14 | 1.05 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 14 | 1.05 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 14 | 1.05 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 14 | 1.05 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 14 | 1.05 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 14 | 1.05 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 12 | 1.05 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 12 | 1.05 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 12 | 1.05 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 19 | 1.05 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 15 | 1.05 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 15 | 1.05 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 15 | 1.05 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 15 | 1.05 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 20 | 1.05 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 5 | 1.05 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 1 | 1.05 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 1 | 1.05 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 5 | 1.05 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 7 | 1.05 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 7 | 1.05 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 7 | 1.05 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 2 | 1.05 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 6 | 1.05 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 3 | 1.05 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 3 | 1.05 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 3 | 1.05 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 3 | 1.05 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 3 | 1.05 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 3 | 1.05 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 2 | 1.05 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 12 | 1.05 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 12 | 1.05 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 9 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 9 | 1.05 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 9 | 1.05 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 9 | 1.05 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 8 | 1.05 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 8 | 1.05 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 8 | 1.05 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 15 | 1.05 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 20 | 1.05 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 5 | 1.05 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 8 | 1.05 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 18 | 1.05 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 16 | 1.05 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 16 | 1.05 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 16 | 1.05 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 8 | 1.05 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 8 | 1.05 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 8 | 1.05 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 8 | 1.05 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 8 | 1.05 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 8 | 1.05 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 8 | 1.05 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 8 | 1.05 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 8 | 1.05 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 17 | 1.05 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 17 | 1.05 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 17 | 1.05 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 17 | 1.05 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 17 | 1.05 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 17 | 1.05 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 17 | 1.05 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 17 | 1.05 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 17 | 1.05 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 19 | 1.05 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 10 | 1.05 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 18 | 1.05 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 18 | 1.05 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 18 | 1.05 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 14 | 1.05 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 14 | 1.05 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 14 | 1.05 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 6 | 1.05 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 6 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 6 | 1.05 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 12 | 1.05 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 12 | 1.05 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 12 | 1.05 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 7 | 1.05 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 7 | 1.05 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 7 | 1.05 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 7 | 1.05 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 10 | 1.05 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 10 | 1.05 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 10 | 1.05 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 10 | 1.05 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 20 | 1.05 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 20 | 1.05 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 12 | 1.04 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 2 | 1.04 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 2 | 1.04 |
| (3,773) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 7 | 1.04 |
| (3,773) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 7 | 1.04 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 13 | 1.04 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 13 | 1.04 |
| (3,734) | 1:152:A:THR:H | 1:157:A:HIS:H | 9 | 1.04 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 12 | 1.04 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 12 | 1.04 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 12 | 1.04 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 18 | 1.04 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 18 | 1.04 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 4 | 1.04 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 18 | 1.04 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 18 | 1.04 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 18 | 1.04 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 9 | 1.04 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 17 | 1.04 |
| (3,235) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 2 | 1.04 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 15 | 1.04 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 11 | 1.04 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 5 | 1.04 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 18 | 1.04 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 18 | 1.04 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 18 | 1.04 |
| (1,9586) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 15 | 1.04 |
| (1,9586) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 15 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9586) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 15 | 1.04 |
| (1,9586) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 15 | 1.04 |
| (1,9586) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 15 | 1.04 |
| (1,9586) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 15 | 1.04 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 15 | 1.04 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 15 | 1.04 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 15 | 1.04 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 15 | 1.04 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 1 | 1.04 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 1 | 1.04 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 9 | 1.04 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 9 | 1.04 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 9 | 1.04 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 9 | 1.04 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 9 | 1.04 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 9 | 1.04 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 11 | 1.04 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 11 | 1.04 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 6 | 1.04 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 6 | 1.04 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 4 | 1.04 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 4 | 1.04 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 4 | 1.04 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 4 | 1.04 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 10 | 1.04 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 3 | 1.04 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 4 | 1.04 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 4 | 1.04 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 4 | 1.04 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 10 | 1.04 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 19 | 1.04 |
| (1,7277) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 10 | 1.04 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 9 | 1.04 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 6 | 1.04 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 6 | 1.04 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 6 | 1.04 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 6 | 1.04 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 6 | 1.04 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 6 | 1.04 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 4 | 1.04 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 14 | 1.04 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 19 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 15 | 1.04 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 19 | 1.04 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 20 | 1.04 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 20 | 1.04 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 20 | 1.04 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 10 | 1.04 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 17 | 1.04 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 17 | 1.04 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 17 | 1.04 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 1 | 1.04 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 1 | 1.04 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 1 | 1.04 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 20 | 1.04 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 20 | 1.04 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 17 | 1.04 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 17 | 1.04 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 17 | 1.04 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 3 | 1.04 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 20 | 1.04 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 20 | 1.04 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 20 | 1.04 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 12 | 1.04 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 12 | 1.04 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 12 | 1.04 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 18 | 1.04 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 18 | 1.04 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 18 | 1.04 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 18 | 1.04 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 18 | 1.04 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 18 | 1.04 |
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 18 | 1.04 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 18 | 1.04 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 18 | 1.04 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 4 | 1.04 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 11 | 1.04 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 11 | 1.04 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 11 | 1.04 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 15 | 1.04 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 1 | 1.04 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 1 | 1.04 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 1 | 1.04 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 14 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 10 | 1.04 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 15 | 1.04 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 12 | 1.04 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 12 | 1.04 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 12 | 1.04 |
| (1,4856) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 10 | 1.04 |
| (1,4856) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 10 | 1.04 |
| (1,4856) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 10 | 1.04 |
| (1,4850) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 17 | 1.04 |
| (1,4850) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 17 | 1.04 |
| (1,4850) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 17 | 1.04 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 5 | 1.04 |
| (1,4721) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 4 | 1.04 |
| (1,4721) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 4 | 1.04 |
| (1,4721) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 4 | 1.04 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 17 | 1.04 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 4 | 1.04 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 4 | 1.04 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 4 | 1.04 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 4 | 1.04 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 4 | 1.04 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 4 | 1.04 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 2 | 1.04 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 2 | 1.04 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 11 | 1.04 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 11 | 1.04 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 6 | 1.04 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 6 | 1.04 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 14 | 1.04 |
| (1,4205) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 14 | 1.04 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 12 | 1.04 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 8 | 1.04 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 8 | 1.04 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 8 | 1.04 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 3 | 1.04 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 3 | 1.04 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 3 | 1.04 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 20 | 1.04 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 20 | 1.04 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 9 | 1.04 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 9 | 1.04 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 9 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3947) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE22 | 7 | 1.04 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 3 | 1.04 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 3 | 1.04 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG2 | 8 | 1.04 |
| (1,3615) | 1:34:A:TRP:H | 1:35:A:GLU:HG3 | 8 | 1.04 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 12 | 1.04 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 12 | 1.04 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 19 | 1.04 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 19 | 1.04 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 9 | 1.04 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 9 | 1.04 |
| (1,3463) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 9 | 1.04 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 7 | 1.04 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 7 | 1.04 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 7 | 1.04 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 15 | 1.04 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 15 | 1.04 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 9 | 1.04 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 14 | 1.04 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 14 | 1.04 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 7 | 1.04 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 6 | 1.04 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 6 | 1.04 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 11 | 1.04 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 12 | 1.04 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 16 | 1.04 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 16 | 1.04 |
| (1,3191) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 5 | 1.04 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 3 | 1.04 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 8 | 1.04 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 3 | 1.04 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 12 | 1.04 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 4 | 1.04 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 9 | 1.04 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 17 | 1.04 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 8 | 1.04 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 8 | 1.04 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 8 | 1.04 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 8 | 1.04 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 3 | 1.04 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 13 | 1.04 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 13 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 18 | 1.04 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 18 | 1.04 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 15 | 1.04 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 15 | 1.04 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 15 | 1.04 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 15 | 1.04 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 15 | 1.04 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 15 | 1.04 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 3 | 1.04 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 16 | 1.04 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 16 | 1.04 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 5 | 1.04 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 17 | 1.04 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 17 | 1.04 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 17 | 1.04 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 13 | 1.04 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 13 | 1.04 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 13 | 1.04 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 20 | 1.04 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 20 | 1.04 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 20 | 1.04 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 5 | 1.04 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 5 | 1.04 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 5 | 1.04 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 13 | 1.04 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 2 | 1.04 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 9 | 1.04 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 14 | 1.04 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 15 | 1.04 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 9 | 1.04 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 15 | 1.04 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 7 | 1.04 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 2 | 1.04 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 10 | 1.04 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 18 | 1.04 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 18 | 1.04 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 18 | 1.04 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 16 | 1.04 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 16 | 1.04 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 16 | 1.04 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 15 | 1.04 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 15 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 15 | 1.04 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 15 | 1.04 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 15 | 1.04 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 15 | 1.04 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 3 | 1.04 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 19 | 1.04 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 8 | 1.04 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 18 | 1.04 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 14 | 1.04 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 14 | 1.04 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 20 | 1.04 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 20 | 1.04 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 20 | 1.04 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 20 | 1.04 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 20 | 1.04 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 20 | 1.04 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 10 | 1.04 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 10 | 1.04 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 10 | 1.04 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 12 | 1.04 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 12 | 1.04 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 12 | 1.04 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 12 | 1.04 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 12 | 1.04 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 12 | 1.04 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 12 | 1.04 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 12 | 1.04 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 12 | 1.04 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 20 | 1.04 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 20 | 1.04 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 20 | 1.04 |
| (1,1499) | 1:131:A:GLN:H | 1:131:A:GLN:HB3 | 6 | 1.04 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 2 | 1.04 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 12 | 1.04 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 8 | 1.04 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 7 | 1.04 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 7 | 1.04 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 7 | 1.04 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 7 | 1.04 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 7 | 1.04 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 7 | 1.04 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 12 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 12 | 1.04 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 12 | 1.04 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 19 | 1.04 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 4 | 1.04 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 3 | 1.04 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 1 | 1.04 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 1 | 1.04 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 20 | 1.04 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 10 | 1.04 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 12 | 1.04 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 18 | 1.04 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 1 | 1.04 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 1 | 1.04 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 1 | 1.04 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 11 | 1.04 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 11 | 1.04 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 11 | 1.04 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 11 | 1.04 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 19 | 1.04 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 17 | 1.04 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 17 | 1.04 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 17 | 1.04 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 17 | 1.04 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 17 | 1.04 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 17 | 1.04 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 15 | 1.04 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 15 | 1.04 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 15 | 1.04 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 3 | 1.04 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 15 | 1.04 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 17 | 1.04 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 15 | 1.04 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 2 | 1.04 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 5 | 1.04 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 9 | 1.04 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 17 | 1.04 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 17 | 1.04 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 4 | 1.04 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 6 | 1.04 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 6 | 1.04 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 6 | 1.04 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 1 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 1 | 1.04 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 1 | 1.04 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 6 | 1.04 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 6 | 1.04 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 6 | 1.04 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 1 | 1.04 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 9 | 1.04 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 9 | 1.04 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 9 | 1.04 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 2 | 1.04 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 2 | 1.04 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 2 | 1.04 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 6 | 1.04 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 10 | 1.04 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 15 | 1.04 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 10 | 1.04 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 1 | 1.04 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 1 | 1.04 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 1 | 1.04 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 4 | 1.04 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 4 | 1.04 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 4 | 1.04 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 5 | 1.04 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 20 | 1.04 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 14 | 1.04 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 14 | 1.04 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 14 | 1.04 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 4 | 1.04 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 4 | 1.04 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 4 | 1.04 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 20 | 1.04 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 20 | 1.04 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 20 | 1.04 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 20 | 1.04 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 20 | 1.04 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 20 | 1.04 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 20 | 1.04 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 20 | 1.04 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 20 | 1.04 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 14 | 1.04 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 5 | 1.04 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 8 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 8 | 1.04 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 3 | 1.04 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 3 | 1.04 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 3 | 1.04 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 13 | 1.04 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 13 | 1.04 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 13 | 1.04 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 9 | 1.04 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 9 | 1.04 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 9 | 1.04 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 2 | 1.04 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 2 | 1.04 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 2 | 1.04 |
| (1,73) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 3 | 1.04 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 9 | 1.04 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 9 | 1.04 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 9 | 1.04 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 17 | 1.04 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 17 | 1.04 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 17 | 1.04 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 17 | 1.04 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 5 | 1.04 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 5 | 1.04 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 5 | 1.03 |
| (4,209) | 1:131:A:GLN:CB | 1:35:A:GLU:H | 14 | 1.03 |
| (4,163) | 1:98:A:SER:CB | 1:26:A:ASN:HD21 | 16 | 1.03 |
| (4,121) | 1:90:A:ASN:CB | 1:24:A:TYR:H | 12 | 1.03 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 20 | 1.03 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 12 | 1.03 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 12 | 1.03 |
| (3,947) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 13 | 1.03 |
| (3,947) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 13 | 1.03 |
| (3,947) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 13 | 1.03 |
| (3,947) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 13 | 1.03 |
| (3,773) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 10 | 1.03 |
| (3,773) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 10 | 1.03 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 13 | 1.03 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 13 | 1.03 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 15 | 1.03 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD11 | 14 | 1.03 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD12 | 14 | 1.03 |
| (3,287) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HD13 | 14 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 8 | 1.03 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 8 | 1.03 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 15 | 1.03 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 15 | 1.03 |
| (3,25) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 8 | 1.03 |
| (3,25) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 8 | 1.03 |
| (3,25) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 8 | 1.03 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 14 | 1.03 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 14 | 1.03 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 14 | 1.03 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 14 | 1.03 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 14 | 1.03 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 14 | 1.03 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 14 | 1.03 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 14 | 1.03 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 14 | 1.03 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 20 | 1.03 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 20 | 1.03 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 18 | 1.03 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 18 | 1.03 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 18 | 1.03 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 18 | 1.03 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 18 | 1.03 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 18 | 1.03 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 1 | 1.03 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 1 | 1.03 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 1 | 1.03 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 1 | 1.03 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 1 | 1.03 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 1 | 1.03 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 2 | 1.03 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 2 | 1.03 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 2 | 1.03 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 2 | 1.03 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 2 | 1.03 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 2 | 1.03 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 5 | 1.03 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 5 | 1.03 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 7 | 1.03 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 7 | 1.03 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 2 | 1.03 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 2 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 18 | 1.03 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 19 | 1.03 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 19 | 1.03 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 19 | 1.03 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 12 | 1.03 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 12 | 1.03 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 12 | 1.03 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 10 | 1.03 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 10 | 1.03 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 10 | 1.03 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 20 | 1.03 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 20 | 1.03 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 20 | 1.03 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 11 | 1.03 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 11 | 1.03 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 11 | 1.03 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 5 | 1.03 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 8 | 1.03 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 7 | 1.03 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 4 | 1.03 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 3 | 1.03 |
| (1,6338) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 20 | 1.03 |
| (1,6338) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 20 | 1.03 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 4 | 1.03 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 4 | 1.03 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 4 | 1.03 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 4 | 1.03 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 4 | 1.03 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 4 | 1.03 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 4 | 1.03 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 4 | 1.03 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 4 | 1.03 |
| (1,5951) | 1:126:A:SER:H | 1:127:A:ARG:H | 10 | 1.03 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 14 | 1.03 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 9 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 4 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 4 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 4 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 4 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 4 | 1.03 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 4 | 1.03 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 3 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 3 | 1.03 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 3 | 1.03 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 8 | 1.03 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 8 | 1.03 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 8 | 1.03 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 1 | 1.03 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 1 | 1.03 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 1 | 1.03 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 10 | 1.03 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 19 | 1.03 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 19 | 1.03 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 13 | 1.03 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 10 | 1.03 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 10 | 1.03 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 10 | 1.03 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 13 | 1.03 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 13 | 1.03 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 13 | 1.03 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 13 | 1.03 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 13 | 1.03 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 13 | 1.03 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 7 | 1.03 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 10 | 1.03 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 12 | 1.03 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 12 | 1.03 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 12 | 1.03 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 6 | 1.03 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 6 | 1.03 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 13 | 1.03 |
| (1,4307) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 15 | 1.03 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 16 | 1.03 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 16 | 1.03 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 1 | 1.03 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 1 | 1.03 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 8 | 1.03 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 8 | 1.03 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 8 | 1.03 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 8 | 1.03 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 8 | 1.03 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 8 | 1.03 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 10 | 1.03 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 10 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 10 | 1.03 |
| (1,4005) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 12 | 1.03 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 5 | 1.03 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 5 | 1.03 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 5 | 1.03 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 5 | 1.03 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 5 | 1.03 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 5 | 1.03 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 4 | 1.03 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 4 | 1.03 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 4 | 1.03 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 4 | 1.03 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 3 | 1.03 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 3 | 1.03 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 3 | 1.03 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 3 | 1.03 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 3 | 1.03 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 3 | 1.03 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 7 | 1.03 |
| (1,3779) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 7 | 1.03 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 17 | 1.03 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 17 | 1.03 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 17 | 1.03 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 17 | 1.03 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 17 | 1.03 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 17 | 1.03 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 2 | 1.03 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 2 | 1.03 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 2 | 1.03 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 2 | 1.03 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 2 | 1.03 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 2 | 1.03 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 6 | 1.03 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 6 | 1.03 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 3 | 1.03 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 20 | 1.03 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 14 | 1.03 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 8 | 1.03 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 8 | 1.03 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 18 | 1.03 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 18 | 1.03 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 18 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 11 | 1.03 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 9 | 1.03 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 3 | 1.03 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 3 | 1.03 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 1 | 1.03 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 1 | 1.03 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 1 | 1.03 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 9 | 1.03 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 13 | 1.03 |
| (1,3145) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 3 | 1.03 |
| (1,3145) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 3 | 1.03 |
| (1,3145) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 3 | 1.03 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 18 | 1.03 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 19 | 1.03 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 2 | 1.03 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 13 | 1.03 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 6 | 1.03 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 11 | 1.03 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 5 | 1.03 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 4 | 1.03 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 18 | 1.03 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 5 | 1.03 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 5 | 1.03 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 5 | 1.03 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 13 | 1.03 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 1 | 1.03 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 1 | 1.03 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 1 | 1.03 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 1 | 1.03 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 2 | 1.03 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 9 | 1.03 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 9 | 1.03 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 9 | 1.03 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 9 | 1.03 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 5 | 1.03 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 5 | 1.03 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 5 | 1.03 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 14 | 1.03 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 13 | 1.03 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 13 | 1.03 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 13 | 1.03 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 14 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 7 | 1.03 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 4 | 1.03 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 6 | 1.03 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 7 | 1.03 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 14 | 1.03 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 14 | 1.03 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 14 | 1.03 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 7 | 1.03 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 4 | 1.03 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 8 | 1.03 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 5 | 1.03 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 12 | 1.03 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 3 | 1.03 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 17 | 1.03 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 1.03 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 18 | 1.03 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 19 | 1.03 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 3 | 1.03 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 3 | 1.03 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 3 | 1.03 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 9 | 1.03 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 9 | 1.03 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 9 | 1.03 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 2 | 1.03 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 2 | 1.03 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 2 | 1.03 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 4 | 1.03 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 4 | 1.03 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 4 | 1.03 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 10 | 1.03 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 10 | 1.03 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 10 | 1.03 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 2 | 1.03 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 2 | 1.03 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 2 | 1.03 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 18 | 1.03 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 18 | 1.03 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 18 | 1.03 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 2 | 1.03 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 2 | 1.03 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 2 | 1.03 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 9 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 14 | 1.03 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 14 | 1.03 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 14 | 1.03 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 14 | 1.03 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 14 | 1.03 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 14 | 1.03 |
| (1,1691) | 1:138:A:SER:HA | 1:139:A:PHE:H | 4 | 1.03 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 12 | 1.03 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 12 | 1.03 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 12 | 1.03 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 13 | 1.03 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 13 | 1.03 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 13 | 1.03 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 18 | 1.03 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 18 | 1.03 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 18 | 1.03 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 11 | 1.03 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 12 | 1.03 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 15 | 1.03 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 3 | 1.03 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 5 | 1.03 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 5 | 1.03 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 12 | 1.03 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 19 | 1.03 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 2 | 1.03 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 2 | 1.03 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 2 | 1.03 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 7 | 1.03 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 19 | 1.03 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 1 | 1.03 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 1 | 1.03 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 1 | 1.03 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 1 | 1.03 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 18 | 1.03 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 18 | 1.03 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 9 | 1.03 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 18 | 1.03 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 18 | 1.03 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 18 | 1.03 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 20 | 1.03 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 20 | 1.03 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 5 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 5 | 1.03 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 11 | 1.03 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 11 | 1.03 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 11 | 1.03 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 6 | 1.03 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 6 | 1.03 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 6 | 1.03 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 7 | 1.03 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 17 | 1.03 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 10 | 1.03 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 10 | 1.03 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 10 | 1.03 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 5 | 1.03 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 5 | 1.03 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 5 | 1.03 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 5 | 1.03 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 5 | 1.03 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 5 | 1.03 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 6 | 1.03 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 6 | 1.03 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 6 | 1.03 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 6 | 1.03 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 6 | 1.03 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 6 | 1.03 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 10 | 1.03 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 13 | 1.03 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 12 | 1.03 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 15 | 1.03 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 20 | 1.03 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 20 | 1.03 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 20 | 1.03 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 20 | 1.03 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 20 | 1.03 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 20 | 1.03 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 13 | 1.03 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 13 | 1.03 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 13 | 1.03 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 13 | 1.03 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 13 | 1.03 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 13 | 1.03 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 8 | 1.03 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 8 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 8 | 1.03 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 12 | 1.03 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 16 | 1.03 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 17 | 1.03 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 14 | 1.03 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 12 | 1.03 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 13 | 1.03 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 20 | 1.03 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 3 | 1.03 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 3 | 1.03 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 3 | 1.03 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 18 | 1.03 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 18 | 1.03 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 18 | 1.03 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 18 | 1.03 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 18 | 1.03 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 18 | 1.03 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 5 | 1.03 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 5 | 1.03 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 5 | 1.03 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 3 | 1.03 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 4 | 1.03 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 4 | 1.03 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 4 | 1.03 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 1 | 1.03 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 1 | 1.03 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 1 | 1.03 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 1 | 1.03 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 15 | 1.03 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 15 | 1.03 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 15 | 1.03 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 8 | 1.03 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 13 | 1.03 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 5 | 1.03 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 5 | 1.03 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 5 | 1.03 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 4 | 1.03 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 12 | 1.03 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 13 | 1.03 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 13 | 1.03 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 13 | 1.03 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 10 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 3 | 1.03 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 13 | 1.03 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 2 | 1.03 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 2 | 1.03 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 2 | 1.03 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 7 | 1.03 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 7 | 1.03 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 7 | 1.03 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 20 | 1.03 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 13 | 1.03 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 13 | 1.03 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 13 | 1.03 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 13 | 1.03 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 13 | 1.03 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 13 | 1.03 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 13 | 1.03 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 13 | 1.03 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 13 | 1.03 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 13 | 1.03 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 13 | 1.03 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 13 | 1.03 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 7 | 1.03 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 3 | 1.03 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 3 | 1.03 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 3 | 1.03 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 10 | 1.03 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 5 | 1.03 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 5 | 1.03 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 5 | 1.03 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 5 | 1.03 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 5 | 1.03 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 5 | 1.03 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 19 | 1.03 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 19 | 1.03 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 4 | 1.03 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 4 | 1.02 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 3 | 1.02 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 16 | 1.02 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 16 | 1.02 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 16 | 1.02 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 16 | 1.02 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 10 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 10 | 1.02 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 10 | 1.02 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 18 | 1.02 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 18 | 1.02 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 18 | 1.02 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 10 | 1.02 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 9 | 1.02 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 9 | 1.02 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 9 | 1.02 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 20 | 1.02 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 20 | 1.02 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 3 | 1.02 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 3 | 1.02 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 3 | 1.02 |
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 14 | 1.02 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 5 | 1.02 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 17 | 1.02 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 17 | 1.02 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 17 | 1.02 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 17 | 1.02 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 17 | 1.02 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 17 | 1.02 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 1 | 1.02 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 1 | 1.02 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 7 | 1.02 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 7 | 1.02 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 15 | 1.02 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 15 | 1.02 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 1 | 1.02 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 1 | 1.02 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 1 | 1.02 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 1 | 1.02 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 8 | 1.02 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 8 | 1.02 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 16 | 1.02 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 16 | 1.02 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 17 | 1.02 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 17 | 1.02 |
| (1,8215) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 9 | 1.02 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 13 | 1.02 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 1 | 1.02 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 3 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7465) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 1 | 1.02 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 6 | 1.02 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 19 | 1.02 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 1 | 1.02 |
| (1,6352) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 13 | 1.02 |
| (1,6101) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 16 | 1.02 |
| (1,6101) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 16 | 1.02 |
| (1,6101) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 16 | 1.02 |
| (1,6101) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 16 | 1.02 |
| (1,6101) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 16 | 1.02 |
| (1,6101) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 16 | 1.02 |
| (1,6101) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 16 | 1.02 |
| (1,6101) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 16 | 1.02 |
| (1,6101) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 16 | 1.02 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 6 | 1.02 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 6 | 1.02 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 6 | 1.02 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 15 | 1.02 |
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 15 | 1.02 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 13 | 1.02 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 20 | 1.02 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 5 | 1.02 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 5 | 1.02 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 5 | 1.02 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 2 | 1.02 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 15 | 1.02 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 15 | 1.02 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 15 | 1.02 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 8 | 1.02 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 8 | 1.02 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 8 | 1.02 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 8 | 1.02 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 8 | 1.02 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 8 | 1.02 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 2 | 1.02 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 2 | 1.02 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 2 | 1.02 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 7 | 1.02 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 7 | 1.02 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 7 | 1.02 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 4 | 1.02 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 19 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 19 | 1.02 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 19 | 1.02 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 19 | 1.02 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 1 | 1.02 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 12 | 1.02 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 13 | 1.02 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 1.02 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 1.02 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 15 | 1.02 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 15 | 1.02 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 9 | 1.02 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 9 | 1.02 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 16 | 1.02 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 1.02 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 11 | 1.02 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 11 | 1.02 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 13 | 1.02 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 13 | 1.02 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 13 | 1.02 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 13 | 1.02 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 13 | 1.02 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 13 | 1.02 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 19 | 1.02 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 19 | 1.02 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 9 | 1.02 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 9 | 1.02 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 9 | 1.02 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 9 | 1.02 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 9 | 1.02 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 10 | 1.02 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 10 | 1.02 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 12 | 1.02 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 12 | 1.02 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 12 | 1.02 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 12 | 1.02 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 12 | 1.02 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 12 | 1.02 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 19 | 1.02 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 19 | 1.02 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 19 | 1.02 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 19 | 1.02 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 19 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 19 | 1.02 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 16 | 1.02 |
| (1,3661) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 16 | 1.02 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 4 | 1.02 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 4 | 1.02 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 4 | 1.02 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 4 | 1.02 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 4 | 1.02 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 4 | 1.02 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 14 | 1.02 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 14 | 1.02 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 14 | 1.02 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 14 | 1.02 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 18 | 1.02 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 18 | 1.02 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 15 | 1.02 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 15 | 1.02 |
| (1,3465) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 9 | 1.02 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 2 | 1.02 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 4 | 1.02 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 4 | 1.02 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 4 | 1.02 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 7 | 1.02 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 7 | 1.02 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 10 | 1.02 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 20 | 1.02 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 6 | 1.02 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 13 | 1.02 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 19 | 1.02 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 2 | 1.02 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 17 | 1.02 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 3 | 1.02 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 15 | 1.02 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 16 | 1.02 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 4 | 1.02 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 18 | 1.02 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 18 | 1.02 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 18 | 1.02 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 9 | 1.02 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 1 | 1.02 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 1 | 1.02 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 1 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 1 | 1.02 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 17 | 1.02 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 19 | 1.02 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 4 | 1.02 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 19 | 1.02 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 19 | 1.02 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 4 | 1.02 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 10 | 1.02 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 16 | 1.02 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 19 | 1.02 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 19 | 1.02 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 19 | 1.02 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 8 | 1.02 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 1.02 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 1 | 1.02 |
| (1,2193) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 11 | 1.02 |
| (1,2193) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 11 | 1.02 |
| (1,2193) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 11 | 1.02 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 6 | 1.02 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 11 | 1.02 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 4 | 1.02 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 4 | 1.02 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 4 | 1.02 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 18 | 1.02 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 18 | 1.02 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 18 | 1.02 |
| (1,2033) | 1:155:A:GLY:HA3 | 1:156:A:ILE:H | 13 | 1.02 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 4 | 1.02 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 4 | 1.02 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 4 | 1.02 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 4 | 1.02 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 4 | 1.02 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 4 | 1.02 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 13 | 1.02 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 13 | 1.02 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 10 | 1.02 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 10 | 1.02 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 10 | 1.02 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 10 | 1.02 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 10 | 1.02 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 10 | 1.02 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 10 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 10 | 1.02 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 10 | 1.02 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 12 | 1.02 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 12 | 1.02 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 12 | 1.02 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 12 | 1.02 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 12 | 1.02 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 12 | 1.02 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 11 | 1.02 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 11 | 1.02 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 11 | 1.02 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 10 | 1.02 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 10 | 1.02 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 10 | 1.02 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 17 | 1.02 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 18 | 1.02 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 18 | 1.02 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 16 | 1.02 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 16 | 1.02 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 16 | 1.02 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 16 | 1.02 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 2 | 1.02 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 2 | 1.02 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 2 | 1.02 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 18 | 1.02 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 13 | 1.02 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 13 | 1.02 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 13 | 1.02 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 15 | 1.02 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 5 | 1.02 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 20 | 1.02 |
| (1,1559) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 5 | 1.02 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 3 | 1.02 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 13 | 1.02 |
| (1,1489) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 19 | 1.02 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 16 | 1.02 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 16 | 1.02 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 16 | 1.02 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 13 | 1.02 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 12 | 1.02 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 12 | 1.02 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 12 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 12 | 1.02 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 12 | 1.02 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 12 | 1.02 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 12 | 1.02 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 12 | 1.02 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 12 | 1.02 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 13 | 1.02 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 13 | 1.02 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 13 | 1.02 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 20 | 1.02 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 3 | 1.02 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 2 | 1.02 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 10 | 1.02 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 10 | 1.02 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 10 | 1.02 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 10 | 1.02 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 10 | 1.02 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD1 | 13 | 1.02 |
| (1,1099) | 1:110:A:PHE:H | 1:110:A:PHE:HD2 | 13 | 1.02 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 2 | 1.02 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 17 | 1.02 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 10 | 1.02 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 10 | 1.02 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 6 | 1.02 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 6 | 1.02 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 6 | 1.02 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 14 | 1.02 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 8 | 1.02 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 10 | 1.02 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 10 | 1.02 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 10 | 1.02 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 15 | 1.02 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 13 | 1.02 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 13 | 1.02 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 13 | 1.02 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 13 | 1.02 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 13 | 1.02 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 13 | 1.02 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 13 | 1.02 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 13 | 1.02 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 13 | 1.02 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 14 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 14 | 1.02 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 14 | 1.02 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 20 | 1.02 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 7 | 1.02 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 7 | 1.02 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 7 | 1.02 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 7 | 1.02 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 7 | 1.02 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 7 | 1.02 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 3 | 1.02 |
| (1,448) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 14 | 1.02 |
| (1,448) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 14 | 1.02 |
| (1,448) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 14 | 1.02 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 4 | 1.02 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 16 | 1.02 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 3 | 1.02 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 3 | 1.02 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 11 | 1.02 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 14 | 1.02 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 14 | 1.02 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 14 | 1.02 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 14 | 1.02 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 7 | 1.02 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 7 | 1.02 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 7 | 1.02 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 15 | 1.02 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 15 | 1.02 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 15 | 1.02 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 8 | 1.02 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 5 | 1.02 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 10 | 1.02 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 10 | 1.02 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 10 | 1.02 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 11 | 1.02 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 11 | 1.02 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 11 | 1.02 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 1 | 1.02 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 2 | 1.02 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 3 | 1.02 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 17 | 1.02 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 1 | 1.02 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 16 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 14 | 1.02 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 12 | 1.02 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 12 | 1.02 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 12 | 1.02 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 12 | 1.02 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 12 | 1.02 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 12 | 1.02 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 12 | 1.02 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 12 | 1.02 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 12 | 1.02 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 15 | 1.02 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 1 | 1.02 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 12 | 1.02 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 12 | 1.02 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 12 | 1.02 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 12 | 1.02 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 12 | 1.02 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 12 | 1.02 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 12 | 1.02 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 12 | 1.02 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 12 | 1.02 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 16 | 1.02 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 10 | 1.02 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 10 | 1.02 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 10 | 1.02 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 19 | 1.02 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 1 | 1.02 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 15 | 1.02 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 15 | 1.02 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 12 | 1.02 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 13 | 1.02 |
| (3,488) | 1:85:A:ALA:H | 1:88:A:LEU:H | 12 | 1.01 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 7 | 1.01 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 7 | 1.01 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 7 | 1.01 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 7 | 1.01 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 7 | 1.01 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 7 | 1.01 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 7 | 1.01 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 7 | 1.01 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 7 | 1.01 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 19 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 2 | 1.01 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 2 | 1.01 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 2 | 1.01 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 6 | 1.01 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 6 | 1.01 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 6 | 1.01 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 6 | 1.01 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 6 | 1.01 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 6 | 1.01 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 13 | 1.01 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 13 | 1.01 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 13 | 1.01 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 13 | 1.01 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 13 | 1.01 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 13 | 1.01 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 17 | 1.01 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 17 | 1.01 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 2 | 1.01 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 2 | 1.01 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 3 | 1.01 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 3 | 1.01 |
| (1,8225) | 1:108:A:SER:HA | 1:120:A:GLY:H | 20 | 1.01 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 15 | 1.01 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 15 | 1.01 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 15 | 1.01 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 14 | 1.01 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 10 | 1.01 |
| (1,7573) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 16 | 1.01 |
| (1,7406) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 7 | 1.01 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 17 | 1.01 |
| (1,7384) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 8 | 1.01 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 5 | 1.01 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 8 | 1.01 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 8 | 1.01 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 8 | 1.01 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 18 | 1.01 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 20 | 1.01 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 9 | 1.01 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 9 | 1.01 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 9 | 1.01 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 9 | 1.01 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 14 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 15 | 1.01 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 2 | 1.01 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 19 | 1.01 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 11 | 1.01 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 11 | 1.01 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 11 | 1.01 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 11 | 1.01 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 11 | 1.01 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 11 | 1.01 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 7 | 1.01 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 7 | 1.01 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 7 | 1.01 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 11 | 1.01 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 11 | 1.01 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 11 | 1.01 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 12 | 1.01 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 2 | 1.01 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 20 | 1.01 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 14 | 1.01 |
| (1,5477) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 3 | 1.01 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 2 | 1.01 |
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 2 | 1.01 |
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 2 | 1.01 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 2 | 1.01 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 20 | 1.01 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 20 | 1.01 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 20 | 1.01 |
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 16 | 1.01 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 16 | 1.01 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 16 | 1.01 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 16 | 1.01 |
| (1,5062) | 1:78:A:ILE:HA | 1:79:A:THR:H | 6 | 1.01 |
| (1,5062) | 1:78:A:ILE:HA | 1:79:A:THR:H | 12 | 1.01 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 16 | 1.01 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 13 | 1.01 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 19 | 1.01 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 19 | 1.01 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 19 | 1.01 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 19 | 1.01 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 19 | 1.01 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 19 | 1.01 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 15 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 18 | 1.01 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 18 | 1.01 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 18 | 1.01 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 9 | 1.01 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 9 | 1.01 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 19 | 1.01 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 19 | 1.01 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 19 | 1.01 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 19 | 1.01 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 19 | 1.01 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 19 | 1.01 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 5 | 1.01 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 5 | 1.01 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 9 | 1.01 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 9 | 1.01 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 14 | 1.01 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 14 | 1.01 |
| (1,4467) | 1:132:A:LYS:HB2 | 1:133:A:PRO:HD2 | 5 | 1.01 |
| (1,4467) | 1:132:A:LYS:HB3 | 1:133:A:PRO:HD2 | 5 | 1.01 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 14 | 1.01 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 14 | 1.01 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 14 | 1.01 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 14 | 1.01 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 14 | 1.01 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 14 | 1.01 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 15 | 1.01 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 15 | 1.01 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 16 | 1.01 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 16 | 1.01 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 16 | 1.01 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 18 | 1.01 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 18 | 1.01 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 18 | 1.01 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 20 | 1.01 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 20 | 1.01 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 20 | 1.01 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 6 | 1.01 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 6 | 1.01 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 11 | 1.01 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 11 | 1.01 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 11 | 1.01 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 11 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3843) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 6 | 1.01 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 15 | 1.01 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 15 | 1.01 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 3 | 1.01 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 3 | 1.01 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 3 | 1.01 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 3 | 1.01 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 3 | 1.01 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 3 | 1.01 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 16 | 1.01 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 2 | 1.01 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 2 | 1.01 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 2 | 1.01 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 2 | 1.01 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 2 | 1.01 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 2 | 1.01 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 14 | 1.01 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 18 | 1.01 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 18 | 1.01 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 18 | 1.01 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 18 | 1.01 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG2 | 2 | 1.01 |
| (1,3235) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HG3 | 2 | 1.01 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG2 | 2 | 1.01 |
| (1,3235) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HG3 | 2 | 1.01 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG2 | 2 | 1.01 |
| (1,3235) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HG3 | 2 | 1.01 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 13 | 1.01 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 5 | 1.01 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 15 | 1.01 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 17 | 1.01 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 6 | 1.01 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 6 | 1.01 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 14 | 1.01 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 14 | 1.01 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 2 | 1.01 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 2 | 1.01 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 8 | 1.01 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 8 | 1.01 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 8 | 1.01 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 8 | 1.01 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 16 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 20 | 1.01 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 18 | 1.01 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 18 | 1.01 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 18 | 1.01 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 18 | 1.01 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 15 | 1.01 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 15 | 1.01 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 16 | 1.01 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 7 | 1.01 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 5 | 1.01 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 12 | 1.01 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 19 | 1.01 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 13 | 1.01 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 19 | 1.01 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 14 | 1.01 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 6 | 1.01 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 4 | 1.01 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 5 | 1.01 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 13 | 1.01 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 17 | 1.01 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 17 | 1.01 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 17 | 1.01 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 20 | 1.01 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 3 | 1.01 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 3 | 1.01 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 3 | 1.01 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 3 | 1.01 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 3 | 1.01 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 3 | 1.01 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 3 | 1.01 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 3 | 1.01 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 3 | 1.01 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 18 | 1.01 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 18 | 1.01 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 18 | 1.01 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 7 | 1.01 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 7 | 1.01 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 7 | 1.01 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 15 | 1.01 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 15 | 1.01 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 15 | 1.01 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 15 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 15 | 1.01 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 15 | 1.01 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 15 | 1.01 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 15 | 1.01 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 15 | 1.01 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 1 | 1.01 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 4 | 1.01 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 10 | 1.01 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 11 | 1.01 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 17 | 1.01 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 19 | 1.01 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 4 | 1.01 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 2 | 1.01 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 2 | 1.01 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 2 | 1.01 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 3 | 1.01 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 16 | 1.01 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 15 | 1.01 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 7 | 1.01 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 7 | 1.01 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 7 | 1.01 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 7 | 1.01 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 7 | 1.01 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 7 | 1.01 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 3 | 1.01 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 6 | 1.01 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 7 | 1.01 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 5 | 1.01 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 13 | 1.01 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 12 | 1.01 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 18 | 1.01 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 4 | 1.01 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 4 | 1.01 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 4 | 1.01 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 20 | 1.01 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 18 | 1.01 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 18 | 1.01 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 18 | 1.01 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 18 | 1.01 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 18 | 1.01 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 18 | 1.01 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 20 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 20 | 1.01 |
| (1,1009) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 13 | 1.01 |
| (1,1009) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 13 | 1.01 |
| (1,1009) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 13 | 1.01 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 19 | 1.01 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 5 | 1.01 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 5 | 1.01 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 5 | 1.01 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 6 | 1.01 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 14 | 1.01 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 14 | 1.01 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 14 | 1.01 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 14 | 1.01 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 14 | 1.01 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 14 | 1.01 |
| (1,795) | 1:101:A:GLU:HA | 1:102:A:ASP:H | 1 | 1.01 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 14 | 1.01 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 7 | 1.01 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 7 | 1.01 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 7 | 1.01 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 14 | 1.01 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 14 | 1.01 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 14 | 1.01 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 14 | 1.01 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 14 | 1.01 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 14 | 1.01 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 14 | 1.01 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 14 | 1.01 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 14 | 1.01 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 17 | 1.01 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 17 | 1.01 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 17 | 1.01 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 6 | 1.01 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 6 | 1.01 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 7 | 1.01 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 7 | 1.01 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 11 | 1.01 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 11 | 1.01 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 11 | 1.01 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 5 | 1.01 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 5 | 1.01 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 5 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 5 | 1.01 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 5 | 1.01 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 5 | 1.01 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 19 | 1.01 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 17 | 1.01 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 3 | 1.01 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 15 | 1.01 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 15 | 1.01 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 11 | 1.01 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 16 | 1.01 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 3 | 1.01 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 12 | 1.01 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 11 | 1.01 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 15 | 1.01 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 15 | 1.01 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 18 | 1.01 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 18 | 1.01 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 7 | 1.01 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 7 | 1.01 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 7 | 1.01 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 9 | 1.01 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 9 | 1.01 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 9 | 1.01 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 9 | 1.01 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 9 | 1.01 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 9 | 1.01 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 9 | 1.01 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 9 | 1.01 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 9 | 1.01 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 6 | 1.01 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 12 | 1.01 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 18 | 1.01 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 18 | 1.01 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 18 | 1.01 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 17 | 1.01 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 18 | 1.01 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 5 | 1.01 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 5 | 1.01 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 5 | 1.01 |
| (1,61) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 8 | 1.01 |
| (1,61) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 8 | 1.01 |
| (1,61) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 8 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 13 | 1.01 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 13 | 1.01 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 2 | 1.01 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 2 | 1.01 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 2 | 1.01 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 2 | 1.01 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 16 | 1.01 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 16 | 1.01 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 16 | 1.01 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 16 | 1.01 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 1 | 1.01 |
| (4,259) | 1:90:A:ASN:CB | 1:10:A:GLY:H | 13 | 1.0 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 8 | 1.0 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 7 | 1.0 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 17 | 1.0 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 11 | 1.0 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 11 | 1.0 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 9 | 1.0 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 9 | 1.0 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 9 | 1.0 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 16 | 1.0 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 9 | 1.0 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 20 | 1.0 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 20 | 1.0 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 20 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 3 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 3 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 3 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 3 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 3 | 1.0 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 3 | 1.0 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 7 | 1.0 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 7 | 1.0 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 9 | 1.0 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 9 | 1.0 |
| (1,8885) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 8 | 1.0 |
| (1,8885) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 8 | 1.0 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 12 | 1.0 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 12 | 1.0 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 12 | 1.0 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 12 | 1.0 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 12 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 12 | 1.0 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG2 | 11 | 1.0 |
| (1,8798) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HG3 | 11 | 1.0 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG2 | 11 | 1.0 |
| (1,8798) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HG3 | 11 | 1.0 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 6 | 1.0 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 6 | 1.0 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 6 | 1.0 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 6 | 1.0 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 3 | 1.0 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 3 | 1.0 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 8 | 1.0 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 8 | 1.0 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 11 | 1.0 |
| (1,7522) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 10 | 1.0 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 3 | 1.0 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 3 | 1.0 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 2 | 1.0 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 2 | 1.0 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 2 | 1.0 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 3 | 1.0 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 2 | 1.0 |
| (1,6841) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 18 | 1.0 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 3 | 1.0 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 1 | 1.0 |
| (1,6580) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 10 | 1.0 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 3 | 1.0 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 3 | 1.0 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 3 | 1.0 |
| (1,6354) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 13 | 1.0 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 3 | 1.0 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 9 | 1.0 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 9 | 1.0 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 9 | 1.0 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 9 | 1.0 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 9 | 1.0 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 9 | 1.0 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 6 | 1.0 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 8 | 1.0 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 19 | 1.0 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 19 | 1.0 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 19 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 1 | 1.0 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 19 | 1.0 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 13 | 1.0 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 13 | 1.0 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 13 | 1.0 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 15 | 1.0 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 7 | 1.0 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 12 | 1.0 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 16 | 1.0 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 16 | 1.0 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 16 | 1.0 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 19 | 1.0 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 10 | 1.0 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 15 | 1.0 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 16 | 1.0 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 16 | 1.0 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 16 | 1.0 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 3 | 1.0 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 1 | 1.0 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 1 | 1.0 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 1 | 1.0 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 1 | 1.0 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 1 | 1.0 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 1 | 1.0 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 1 | 1.0 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 1 | 1.0 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 1 | 1.0 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 11 | 1.0 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 5 | 1.0 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 4 | 1.0 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 4 | 1.0 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 4 | 1.0 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 7 | 1.0 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 7 | 1.0 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 17 | 1.0 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 17 | 1.0 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 3 | 1.0 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 3 | 1.0 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 7 | 1.0 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 7 | 1.0 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 10 | 1.0 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 10 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 17 | 1.0 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 17 | 1.0 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 18 | 1.0 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 18 | 1.0 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 18 | 1.0 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 18 | 1.0 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 18 | 1.0 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 18 | 1.0 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 18 | 1.0 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 18 | 1.0 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 13 | 1.0 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 13 | 1.0 |
| (1,4003) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 12 | 1.0 |
| (1,4003) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 12 | 1.0 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 3 | 1.0 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 3 | 1.0 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 3 | 1.0 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 9 | 1.0 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 9 | 1.0 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 9 | 1.0 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 9 | 1.0 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 9 | 1.0 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 9 | 1.0 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 10 | 1.0 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 10 | 1.0 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 10 | 1.0 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 10 | 1.0 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 13 | 1.0 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 13 | 1.0 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 15 | 1.0 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 15 | 1.0 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 15 | 1.0 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 15 | 1.0 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 2 | 1.0 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 2 | 1.0 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 14 | 1.0 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 2 | 1.0 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 10 | 1.0 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 10 | 1.0 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 10 | 1.0 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 18 | 1.0 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 7 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 7 | 1.0 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 20 | 1.0 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 20 | 1.0 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 17 | 1.0 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 17 | 1.0 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 11 | 1.0 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 11 | 1.0 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 15 | 1.0 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 15 | 1.0 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 7 | 1.0 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 7 | 1.0 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 13 | 1.0 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 13 | 1.0 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 13 | 1.0 |
| (1,3191) | 1:82:A:LYS:H | 1:82:A:LYS:HG3 | 20 | 1.0 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 7 | 1.0 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 7 | 1.0 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 17 | 1.0 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 17 | 1.0 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 17 | 1.0 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 10 | 1.0 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 10 | 1.0 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 10 | 1.0 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 5 | 1.0 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 12 | 1.0 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 8 | 1.0 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 8 | 1.0 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 7 | 1.0 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 5 | 1.0 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 10 | 1.0 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 12 | 1.0 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 17 | 1.0 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 4 | 1.0 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 20 | 1.0 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 6 | 1.0 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 8 | 1.0 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 1 | 1.0 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 12 | 1.0 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 14 | 1.0 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 14 | 1.0 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 14 | 1.0 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 11 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 11 | 1.0 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 11 | 1.0 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 1 | 1.0 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 10 | 1.0 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 17 | 1.0 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 7 | 1.0 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 12 | 1.0 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 12 | 1.0 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 12 | 1.0 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 12 | 1.0 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 12 | 1.0 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 12 | 1.0 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 12 | 1.0 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 12 | 1.0 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 12 | 1.0 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 1.0 |
| (1,2035) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 13 | 1.0 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 11 | 1.0 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 11 | 1.0 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 11 | 1.0 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 11 | 1.0 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 11 | 1.0 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 11 | 1.0 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 11 | 1.0 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 11 | 1.0 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 11 | 1.0 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 6 | 1.0 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 14 | 1.0 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 16 | 1.0 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 11 | 1.0 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 18 | 1.0 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 18 | 1.0 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 18 | 1.0 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 8 | 1.0 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 8 | 1.0 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 2 | 1.0 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 2 | 1.0 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 5 | 1.0 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 5 | 1.0 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 5 | 1.0 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 18 | 1.0 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 18 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 18 | 1.0 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 6 | 1.0 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 9 | 1.0 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 9 | 1.0 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 20 | 1.0 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 10 | 1.0 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 10 | 1.0 |
| (1,1473) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 7 | 1.0 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 20 | 1.0 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 1 | 1.0 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 1 | 1.0 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 1 | 1.0 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 6 | 1.0 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 6 | 1.0 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 6 | 1.0 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 1 | 1.0 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 19 | 1.0 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 15 | 1.0 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 14 | 1.0 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 14 | 1.0 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 16 | 1.0 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 16 | 1.0 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 6 | 1.0 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 6 | 1.0 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 6 | 1.0 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 14 | 1.0 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 14 | 1.0 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 14 | 1.0 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 19 | 1.0 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 11 | 1.0 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 12 | 1.0 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 12 | 1.0 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 12 | 1.0 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 7 | 1.0 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 8 | 1.0 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 11 | 1.0 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 4 | 1.0 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 7 | 1.0 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 14 | 1.0 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 15 | 1.0 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 19 | 1.0 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 14 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 14 | 1.0 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 14 | 1.0 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 19 | 1.0 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 6 | 1.0 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 7 | 1.0 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 1.0 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 1.0 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 8 | 1.0 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 8 | 1.0 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 10 | 1.0 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 5 | 1.0 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 5 | 1.0 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 5 | 1.0 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 1 | 1.0 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 1 | 1.0 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 1 | 1.0 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 6 | 1.0 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 10 | 1.0 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 4 | 1.0 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 4 | 1.0 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 4 | 1.0 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 11 | 1.0 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 11 | 1.0 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 11 | 1.0 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 11 | 1.0 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 7 | 1.0 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 7 | 1.0 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 7 | 1.0 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 18 | 1.0 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 10 | 1.0 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 10 | 1.0 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 10 | 1.0 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 10 | 1.0 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 10 | 1.0 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 10 | 1.0 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 12 | 1.0 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 12 | 1.0 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 12 | 1.0 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 13 | 1.0 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 13 | 1.0 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 13 | 1.0 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 17 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 17 | 1.0 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 17 | 1.0 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 15 | 1.0 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 2 | 1.0 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 7 | 1.0 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 7 | 1.0 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 7 | 1.0 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 12 | 1.0 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 14 | 1.0 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 15 | 1.0 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 8 | 1.0 |
| (1,353) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 8 | 1.0 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 12 | 1.0 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 12 | 1.0 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 12 | 1.0 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 16 | 1.0 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 16 | 1.0 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 16 | 1.0 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 20 | 1.0 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 20 | 1.0 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 20 | 1.0 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 2 | 1.0 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 2 | 1.0 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 2 | 1.0 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 6 | 1.0 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 6 | 1.0 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 6 | 1.0 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 10 | 1.0 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 7 | 1.0 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 18 | 1.0 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 18 | 1.0 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 7 | 1.0 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 7 | 1.0 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 15 | 1.0 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 15 | 1.0 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 15 | 1.0 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 15 | 1.0 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 15 | 1.0 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 15 | 1.0 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 14 | 1.0 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 14 | 1.0 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 14 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 9 | 1.0 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 16 | 1.0 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 16 | 1.0 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 16 | 1.0 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 11 | 1.0 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 11 | 1.0 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 11 | 1.0 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 14 | 1.0 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 14 | 1.0 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 14 | 1.0 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 14 | 1.0 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 14 | 1.0 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 14 | 1.0 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 14 | 1.0 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 14 | 1.0 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 14 | 1.0 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 16 | 1.0 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 16 | 1.0 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 16 | 1.0 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 16 | 1.0 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 16 | 1.0 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 16 | 1.0 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 16 | 1.0 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 16 | 1.0 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 16 | 1.0 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 11 | 1.0 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 20 | 1.0 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 20 | 1.0 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 20 | 1.0 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 20 | 1.0 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 20 | 1.0 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 20 | 1.0 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 5 | 1.0 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 2 | 1.0 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 2 | 1.0 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 19 | 1.0 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 19 | 1.0 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 19 | 1.0 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 9 | 1.0 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 9 | 1.0 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 4 | 0.99 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 13 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 9 | 0.99 |
| (3,993) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 19 | 0.99 |
| (3,993) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 19 | 0.99 |
| (3,993) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 19 | 0.99 |
| (3,993) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 19 | 0.99 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 6 | 0.99 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 6 | 0.99 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 17 | 0.99 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 17 | 0.99 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 2 | 0.99 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 5 | 0.99 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 5 | 0.99 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 4 | 0.99 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 10 | 0.99 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 10 | 0.99 |
| (3,369) | 1:59:A:HIS:H | 1:120:A:GLY:H | 14 | 0.99 |
| (3,221) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 3 | 0.99 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 17 | 0.99 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 17 | 0.99 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 19 | 0.99 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 19 | 0.99 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 19 | 0.99 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 19 | 0.99 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 19 | 0.99 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 19 | 0.99 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 7 | 0.99 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 7 | 0.99 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 7 | 0.99 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 7 | 0.99 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 16 | 0.99 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 16 | 0.99 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 8 | 0.99 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 8 | 0.99 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 12 | 0.99 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 12 | 0.99 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 12 | 0.99 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 12 | 0.99 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 12 | 0.99 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 12 | 0.99 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 5 | 0.99 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 5 | 0.99 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 13 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 13 | 0.99 |
| (1,8683) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 4 | 0.99 |
| (1,8683) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 4 | 0.99 |
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 18 | 0.99 |
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 18 | 0.99 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 18 | 0.99 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 18 | 0.99 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 17 | 0.99 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 17 | 0.99 |
| (1,8124) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 18 | 0.99 |
| (1,7561) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 16 | 0.99 |
| (1,7561) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 16 | 0.99 |
| (1,7561) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 16 | 0.99 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 7 | 0.99 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 20 | 0.99 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 20 | 0.99 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 12 | 0.99 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 12 | 0.99 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 12 | 0.99 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 5 | 0.99 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 18 | 0.99 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 18 | 0.99 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 18 | 0.99 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 14 | 0.99 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 10 | 0.99 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 12 | 0.99 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 2 | 0.99 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 6 | 0.99 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 6 | 0.99 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 6 | 0.99 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 6 | 0.99 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 6 | 0.99 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 6 | 0.99 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 3 | 0.99 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 13 | 0.99 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 18 | 0.99 |
| (1,6087) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 5 | 0.99 |
| (1,6087) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 5 | 0.99 |
| (1,6087) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 5 | 0.99 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 2 | 0.99 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 2 | 0.99 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 2 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 2 | 0.99 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 2 | 0.99 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 2 | 0.99 |
| (1,5951) | 1:126:A:SER:H | 1:127:A:ARG:H | 7 | 0.99 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 7 | 0.99 |
| (1,5726) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 18 | 0.99 |
| (1,5726) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 18 | 0.99 |
| (1,5726) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 18 | 0.99 |
| (1,5700) | 1:105:A:SER:H | 1:106:A:LEU:HG | 2 | 0.99 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 17 | 0.99 |
| (1,4911) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 16 | 0.99 |
| (1,4869) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 20 | 0.99 |
| (1,4869) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 20 | 0.99 |
| (1,4869) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 20 | 0.99 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 2 | 0.99 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 2 | 0.99 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 2 | 0.99 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 2 | 0.99 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 2 | 0.99 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 2 | 0.99 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 2 | 0.99 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 2 | 0.99 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 2 | 0.99 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 4 | 0.99 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 7 | 0.99 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 15 | 0.99 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 7 | 0.99 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 7 | 0.99 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 19 | 0.99 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 19 | 0.99 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 19 | 0.99 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 9 | 0.99 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 5 | 0.99 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 5 | 0.99 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 12 | 0.99 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 12 | 0.99 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 12 | 0.99 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 12 | 0.99 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 12 | 0.99 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 12 | 0.99 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 19 | 0.99 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 19 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 14 | 0.99 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 14 | 0.99 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 6 | 0.99 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 6 | 0.99 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 6 | 0.99 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 6 | 0.99 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 6 | 0.99 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 6 | 0.99 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 2 | 0.99 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 2 | 0.99 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 2 | 0.99 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 16 | 0.99 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 16 | 0.99 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 16 | 0.99 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 16 | 0.99 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 16 | 0.99 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 16 | 0.99 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 20 | 0.99 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 20 | 0.99 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 15 | 0.99 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 15 | 0.99 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 4 | 0.99 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 4 | 0.99 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 4 | 0.99 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 6 | 0.99 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 20 | 0.99 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 20 | 0.99 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 1 | 0.99 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 1 | 0.99 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 1 | 0.99 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 1 | 0.99 |
| (1,3729) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 10 | 0.99 |
| (1,3729) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 10 | 0.99 |
| (1,3729) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 10 | 0.99 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 1 | 0.99 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 1 | 0.99 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 1 | 0.99 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 1 | 0.99 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 1 | 0.99 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 1 | 0.99 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 20 | 0.99 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 20 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 20 | 0.99 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 6 | 0.99 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 6 | 0.99 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 6 | 0.99 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 6 | 0.99 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 10 | 0.99 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 10 | 0.99 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 8 | 0.99 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 8 | 0.99 |
| (1,3491) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 17 | 0.99 |
| (1,3491) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 17 | 0.99 |
| (1,3491) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 17 | 0.99 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 1 | 0.99 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 1 | 0.99 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 16 | 0.99 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 2 | 0.99 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 19 | 0.99 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 19 | 0.99 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 19 | 0.99 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 2 | 0.99 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 14 | 0.99 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 1 | 0.99 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 1 | 0.99 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 17 | 0.99 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 6 | 0.99 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 6 | 0.99 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 6 | 0.99 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 20 | 0.99 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 15 | 0.99 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 15 | 0.99 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 15 | 0.99 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 17 | 0.99 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 19 | 0.99 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 1 | 0.99 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 18 | 0.99 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 10 | 0.99 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 10 | 0.99 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 10 | 0.99 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 1 | 0.99 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 3 | 0.99 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 13 | 0.99 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 20 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 6 | 0.99 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 16 | 0.99 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 18 | 0.99 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 5 | 0.99 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 5 | 0.99 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 5 | 0.99 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 7 | 0.99 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 7 | 0.99 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 7 | 0.99 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 3 | 0.99 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 6 | 0.99 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 14 | 0.99 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 13 | 0.99 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 13 | 0.99 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 13 | 0.99 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 2 | 0.99 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 2 | 0.99 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 2 | 0.99 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 17 | 0.99 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 4 | 0.99 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 4 | 0.99 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 4 | 0.99 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 14 | 0.99 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 14 | 0.99 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 14 | 0.99 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 18 | 0.99 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 18 | 0.99 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 18 | 0.99 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 5 | 0.99 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 10 | 0.99 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 10 | 0.99 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 10 | 0.99 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 10 | 0.99 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 10 | 0.99 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 14 | 0.99 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 9 | 0.99 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 12 | 0.99 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 10 | 0.99 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 8 | 0.99 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 8 | 0.99 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 8 | 0.99 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 20 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 2 | 0.99 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 2 | 0.99 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 2 | 0.99 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 3 | 0.99 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 9 | 0.99 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 11 | 0.99 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 18 | 0.99 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 16 | 0.99 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 16 | 0.99 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 16 | 0.99 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 18 | 0.99 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 6 | 0.99 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 6 | 0.99 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 2 | 0.99 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 10 | 0.99 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 13 | 0.99 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 13 | 0.99 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 13 | 0.99 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 8 | 0.99 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 8 | 0.99 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 8 | 0.99 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 9 | 0.99 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 10 | 0.99 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 10 | 0.99 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 10 | 0.99 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 7 | 0.99 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 17 | 0.99 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 1 | 0.99 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 1 | 0.99 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 1 | 0.99 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 7 | 0.99 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 7 | 0.99 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 17 | 0.99 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 17 | 0.99 |
| (1,1603) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 17 | 0.99 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 11 | 0.99 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 6 | 0.99 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 6 | 0.99 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 6 | 0.99 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 6 | 0.99 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 6 | 0.99 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 6 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 11 | 0.99 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 14 | 0.99 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 19 | 0.99 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 16 | 0.99 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 3 | 0.99 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 7 | 0.99 |
| (1,1217) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 17 | 0.99 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 3 | 0.99 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 18 | 0.99 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 3 | 0.99 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 3 | 0.99 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 3 | 0.99 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 10 | 0.99 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 10 | 0.99 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 10 | 0.99 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 8 | 0.99 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 13 | 0.99 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 7 | 0.99 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 19 | 0.99 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 2 | 0.99 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 5 | 0.99 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 18 | 0.99 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 17 | 0.99 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 10 | 0.99 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 10 | 0.99 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 10 | 0.99 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 10 | 0.99 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 10 | 0.99 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 10 | 0.99 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 11 | 0.99 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 11 | 0.99 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 11 | 0.99 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 11 | 0.99 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 11 | 0.99 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 11 | 0.99 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 5 | 0.99 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 5 | 0.99 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 5 | 0.99 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 8 | 0.99 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 8 | 0.99 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 8 | 0.99 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 9 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 4 | 0.99 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 14 | 0.99 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 17 | 0.99 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 18 | 0.99 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 18 | 0.99 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 18 | 0.99 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 9 | 0.99 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 1 | 0.99 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 10 | 0.99 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 10 | 0.99 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 10 | 0.99 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 8 | 0.99 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 8 | 0.99 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 8 | 0.99 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 8 | 0.99 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 8 | 0.99 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 8 | 0.99 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 8 | 0.99 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 8 | 0.99 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 8 | 0.99 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 5 | 0.99 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 5 | 0.99 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 5 | 0.99 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 5 | 0.99 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 5 | 0.99 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 5 | 0.99 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 5 | 0.99 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 5 | 0.99 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 5 | 0.99 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 5 | 0.99 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 9 | 0.99 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 9 | 0.99 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 9 | 0.99 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 9 | 0.99 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 15 | 0.99 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 15 | 0.99 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 15 | 0.99 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 18 | 0.99 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 18 | 0.99 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 18 | 0.99 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 10 | 0.99 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 10 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 10 | 0.99 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 5 | 0.99 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 5 | 0.99 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 5 | 0.99 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 11 | 0.99 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 11 | 0.99 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 11 | 0.99 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 17 | 0.99 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 17 | 0.99 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 17 | 0.99 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 8 | 0.99 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 8 | 0.99 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 8 | 0.99 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 7 | 0.99 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 7 | 0.99 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 7 | 0.99 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 8 | 0.99 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 8 | 0.99 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 8 | 0.99 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 9 | 0.99 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 9 | 0.99 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 9 | 0.99 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 11 | 0.99 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 11 | 0.99 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 11 | 0.99 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 18 | 0.99 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 13 | 0.99 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 4 | 0.99 |
| (1,219) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 16 | 0.99 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 13 | 0.99 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 13 | 0.99 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 17 | 0.99 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 11 | 0.99 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 11 | 0.99 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 11 | 0.99 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 4 | 0.99 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 4 | 0.99 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 4 | 0.99 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 11 | 0.99 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 11 | 0.99 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 11 | 0.99 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 4 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 7 | 0.99 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 18 | 0.99 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 13 | 0.99 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 13 | 0.99 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 13 | 0.99 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 12 | 0.99 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 12 | 0.99 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 12 | 0.99 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 15 | 0.99 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 7 | 0.99 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 7 | 0.99 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 11 | 0.99 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 11 | 0.99 |
| (1,19) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 1 | 0.99 |
| (1,19) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 1 | 0.99 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 9 | 0.99 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 16 | 0.98 |
| (4,57) | 1:15:A:MET:CB | 1:113:A:CYS:H | 6 | 0.98 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 13 | 0.98 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 13 | 0.98 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 13 | 0.98 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 13 | 0.98 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 17 | 0.98 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 17 | 0.98 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 18 | 0.98 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 18 | 0.98 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 1 | 0.98 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 1 | 0.98 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 1 | 0.98 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 16 | 0.98 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 16 | 0.98 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 16 | 0.98 |
| (3,3) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 13 | 0.98 |
| (3,3) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 13 | 0.98 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 10 | 0.98 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 10 | 0.98 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 3 | 0.98 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 3 | 0.98 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 14 | 0.98 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 14 | 0.98 |
| (1,8885) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 16 | 0.98 |
| (1,8885) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 16 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 8 | 0.98 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 8 | 0.98 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 8 | 0.98 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 8 | 0.98 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 8 | 0.98 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 8 | 0.98 |
| (1,8683) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 9 | 0.98 |
| (1,8683) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 9 | 0.98 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 4 | 0.98 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 9 | 0.98 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 10 | 0.98 |
| (1,7600) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 5 | 0.98 |
| (1,7573) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 1 | 0.98 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 7 | 0.98 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 7 | 0.98 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 19 | 0.98 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 12 | 0.98 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 12 | 0.98 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 12 | 0.98 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 19 | 0.98 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 6 | 0.98 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 9 | 0.98 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 18 | 0.98 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 18 | 0.98 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 12 | 0.98 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 9 | 0.98 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 3 | 0.98 |
| (1,6182) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 16 | 0.98 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 9 | 0.98 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 3 | 0.98 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 3 | 0.98 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 9 | 0.98 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 3 | 0.98 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 5 | 0.98 |
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 5 | 0.98 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 18 | 0.98 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 18 | 0.98 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 18 | 0.98 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 10 | 0.98 |
| (1,5062) | 1:78:A:ILE:HA | 1:79:A:THR:H | 7 | 0.98 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 3 | 0.98 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 7 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 7 | 0.98 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 7 | 0.98 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 7 | 0.98 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 7 | 0.98 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 7 | 0.98 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 3 | 0.98 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 3 | 0.98 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 3 | 0.98 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 4 | 0.98 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 4 | 0.98 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 9 | 0.98 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 9 | 0.98 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 19 | 0.98 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 19 | 0.98 |
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 19 | 0.98 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 11 | 0.98 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 11 | 0.98 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 11 | 0.98 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 11 | 0.98 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 11 | 0.98 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 11 | 0.98 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 4 | 0.98 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 4 | 0.98 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 4 | 0.98 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 4 | 0.98 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 4 | 0.98 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 4 | 0.98 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 8 | 0.98 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 8 | 0.98 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 4 | 0.98 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 4 | 0.98 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 4 | 0.98 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 5 | 0.98 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 5 | 0.98 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 5 | 0.98 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 18 | 0.98 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 18 | 0.98 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 18 | 0.98 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 18 | 0.98 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 18 | 0.98 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 18 | 0.98 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 20 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 20 | 0.98 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 8 | 0.98 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 13 | 0.98 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 13 | 0.98 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 12 | 0.98 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 12 | 0.98 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 16 | 0.98 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 16 | 0.98 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 7 | 0.98 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 3 | 0.98 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 3 | 0.98 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 16 | 0.98 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 8 | 0.98 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 8 | 0.98 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 8 | 0.98 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 8 | 0.98 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 8 | 0.98 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 8 | 0.98 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 13 | 0.98 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 13 | 0.98 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 13 | 0.98 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 13 | 0.98 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 13 | 0.98 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 13 | 0.98 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 13 | 0.98 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 13 | 0.98 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 13 | 0.98 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 12 | 0.98 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 12 | 0.98 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 12 | 0.98 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 10 | 0.98 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 15 | 0.98 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 15 | 0.98 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 6 | 0.98 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 10 | 0.98 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 17 | 0.98 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 17 | 0.98 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 17 | 0.98 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 18 | 0.98 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 12 | 0.98 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 15 | 0.98 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 15 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 4 | 0.98 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 16 | 0.98 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 11 | 0.98 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 17 | 0.98 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 15 | 0.98 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 7 | 0.98 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 8 | 0.98 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 8 | 0.98 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 8 | 0.98 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 19 | 0.98 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 19 | 0.98 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 19 | 0.98 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 15 | 0.98 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 15 | 0.98 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 15 | 0.98 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 16 | 0.98 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 16 | 0.98 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 16 | 0.98 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 16 | 0.98 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 16 | 0.98 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 16 | 0.98 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 19 | 0.98 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 19 | 0.98 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 19 | 0.98 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 16 | 0.98 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 15 | 0.98 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 3 | 0.98 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 3 | 0.98 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 19 | 0.98 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 19 | 0.98 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 18 | 0.98 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 8 | 0.98 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 20 | 0.98 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 20 | 0.98 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 20 | 0.98 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 20 | 0.98 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 20 | 0.98 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 20 | 0.98 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 20 | 0.98 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 20 | 0.98 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 20 | 0.98 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 6 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 17 | 0.98 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 17 | 0.98 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 17 | 0.98 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 9 | 0.98 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 18 | 0.98 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 14 | 0.98 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 18 | 0.98 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 12 | 0.98 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 9 | 0.98 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 15 | 0.98 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 11 | 0.98 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 2 | 0.98 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 18 | 0.98 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 18 | 0.98 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 18 | 0.98 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 18 | 0.98 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 18 | 0.98 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 18 | 0.98 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 18 | 0.98 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 18 | 0.98 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 18 | 0.98 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 9 | 0.98 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 9 | 0.98 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 9 | 0.98 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 1 | 0.98 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 4 | 0.98 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 10 | 0.98 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 11 | 0.98 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 17 | 0.98 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 19 | 0.98 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 2 | 0.98 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 5 | 0.98 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 12 | 0.98 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 18 | 0.98 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 12 | 0.98 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 12 | 0.98 |
| (1,1787) | 1:142:A:ARG:H | 1:145:A:GLU:HB3 | 16 | 0.98 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 14 | 0.98 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 14 | 0.98 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 14 | 0.98 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 19 | 0.98 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 5 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 5 | 0.98 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 5 | 0.98 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 5 | 0.98 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 5 | 0.98 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 5 | 0.98 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 14 | 0.98 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 14 | 0.98 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 14 | 0.98 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 14 | 0.98 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 10 | 0.98 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 10 | 0.98 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 13 | 0.98 |
| (1,1529) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 19 | 0.98 |
| (1,1529) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 19 | 0.98 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 18 | 0.98 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 14 | 0.98 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 14 | 0.98 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 14 | 0.98 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 3 | 0.98 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 3 | 0.98 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 3 | 0.98 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 9 | 0.98 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 9 | 0.98 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 9 | 0.98 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 19 | 0.98 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 19 | 0.98 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 19 | 0.98 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 15 | 0.98 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 15 | 0.98 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 3 | 0.98 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 3 | 0.98 |
| (1,1153) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 15 | 0.98 |
| (1,1153) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 15 | 0.98 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 6 | 0.98 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 6 | 0.98 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 17 | 0.98 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 16 | 0.98 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 17 | 0.98 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 6 | 0.98 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 9 | 0.98 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 14 | 0.98 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 15 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 18 | 0.98 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 14 | 0.98 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 14 | 0.98 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 14 | 0.98 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 9 | 0.98 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 3 | 0.98 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 3 | 0.98 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 3 | 0.98 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 4 | 0.98 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 4 | 0.98 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 4 | 0.98 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 20 | 0.98 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 20 | 0.98 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 20 | 0.98 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 2 | 0.98 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 15 | 0.98 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 17 | 0.98 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 17 | 0.98 |
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 17 | 0.98 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 16 | 0.98 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 6 | 0.98 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 19 | 0.98 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 19 | 0.98 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 19 | 0.98 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 17 | 0.98 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 17 | 0.98 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 17 | 0.98 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 18 | 0.98 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 18 | 0.98 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 18 | 0.98 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 18 | 0.98 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 18 | 0.98 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 18 | 0.98 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 19 | 0.98 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 19 | 0.98 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 19 | 0.98 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 17 | 0.98 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 16 | 0.98 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 16 | 0.98 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 16 | 0.98 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 16 | 0.98 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 16 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 16 | 0.98 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 10 | 0.98 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 19 | 0.98 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 8 | 0.98 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 8 | 0.98 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 8 | 0.98 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 16 | 0.98 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 7 | 0.98 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 4 | 0.98 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 18 | 0.98 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 18 | 0.98 |
| (1,351) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 4 | 0.98 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 17 | 0.98 |
| (1,331) | 1:81:A:THR:HG21 | 1:82:A:LYS:H | 7 | 0.98 |
| (1,331) | 1:81:A:THR:HG22 | 1:82:A:LYS:H | 7 | 0.98 |
| (1,331) | 1:81:A:THR:HG23 | 1:82:A:LYS:H | 7 | 0.98 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 15 | 0.98 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 15 | 0.98 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 15 | 0.98 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 5 | 0.98 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 5 | 0.98 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 5 | 0.98 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 9 | 0.98 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 9 | 0.98 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 9 | 0.98 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 5 | 0.98 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 5 | 0.98 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 5 | 0.98 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 12 | 0.98 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 12 | 0.98 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 1 | 0.98 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 1 | 0.98 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 1 | 0.98 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 14 | 0.98 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 14 | 0.98 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 14 | 0.98 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 14 | 0.98 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 19 | 0.98 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 19 | 0.98 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 19 | 0.98 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG11 | 8 | 0.98 |
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG12 | 8 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,57) | 1:52:A:PRO:HB3 | 1:55:A:VAL:HG13 | 8 | 0.98 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 8 | 0.97 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 8 | 0.97 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 19 | 0.97 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 19 | 0.97 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 19 | 0.97 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 19 | 0.97 |
| (3,773) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 14 | 0.97 |
| (3,773) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 14 | 0.97 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 19 | 0.97 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 19 | 0.97 |
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 15 | 0.97 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 15 | 0.97 |
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 15 | 0.97 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 13 | 0.97 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 19 | 0.97 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 19 | 0.97 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 19 | 0.97 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 19 | 0.97 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 19 | 0.97 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 19 | 0.97 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 13 | 0.97 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 13 | 0.97 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 2 | 0.97 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 2 | 0.97 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 15 | 0.97 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 15 | 0.97 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 17 | 0.97 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 17 | 0.97 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 20 | 0.97 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 20 | 0.97 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 2 | 0.97 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 2 | 0.97 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 2 | 0.97 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 2 | 0.97 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 18 | 0.97 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 18 | 0.97 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 18 | 0.97 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 18 | 0.97 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 18 | 0.97 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 18 | 0.97 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 3 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 3 | 0.97 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 3 | 0.97 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 3 | 0.97 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 3 | 0.97 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 3 | 0.97 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 4 | 0.97 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 4 | 0.97 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 4 | 0.97 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 4 | 0.97 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 5 | 0.97 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 5 | 0.97 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 14 | 0.97 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 14 | 0.97 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 14 | 0.97 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 9 | 0.97 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 9 | 0.97 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 9 | 0.97 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 11 | 0.97 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 4 | 0.97 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 4 | 0.97 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 4 | 0.97 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 2 | 0.97 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 15 | 0.97 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 6 | 0.97 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 5 | 0.97 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 13 | 0.97 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 13 | 0.97 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 13 | 0.97 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 7 | 0.97 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 7 | 0.97 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 7 | 0.97 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 7 | 0.97 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 7 | 0.97 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 7 | 0.97 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 7 | 0.97 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 7 | 0.97 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 7 | 0.97 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 6 | 0.97 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 1 | 0.97 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 1 | 0.97 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 1 | 0.97 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 1 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 1 | 0.97 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 1 | 0.97 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 19 | 0.97 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 19 | 0.97 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 19 | 0.97 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 19 | 0.97 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 19 | 0.97 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 19 | 0.97 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 19 | 0.97 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 19 | 0.97 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 19 | 0.97 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 12 | 0.97 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 12 | 0.97 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 12 | 0.97 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 12 | 0.97 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 12 | 0.97 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 12 | 0.97 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 1 | 0.97 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 1 | 0.97 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 1 | 0.97 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 8 | 0.97 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 8 | 0.97 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 17 | 0.97 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 17 | 0.97 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 18 | 0.97 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 10 | 0.97 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 14 | 0.97 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 18 | 0.97 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 19 | 0.97 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 1 | 0.97 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 11 | 0.97 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 11 | 0.97 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 11 | 0.97 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 16 | 0.97 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 16 | 0.97 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 16 | 0.97 |
| (1,4911) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 8 | 0.97 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 7 | 0.97 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 12 | 0.97 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 12 | 0.97 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 15 | 0.97 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 15 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 4 | 0.97 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 4 | 0.97 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 4 | 0.97 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 4 | 0.97 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 4 | 0.97 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 4 | 0.97 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 19 | 0.97 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 19 | 0.97 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 19 | 0.97 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 19 | 0.97 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 19 | 0.97 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 19 | 0.97 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 18 | 0.97 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 18 | 0.97 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 18 | 0.97 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 18 | 0.97 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 18 | 0.97 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 18 | 0.97 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 7 | 0.97 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 7 | 0.97 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 8 | 0.97 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 8 | 0.97 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 8 | 0.97 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 8 | 0.97 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 12 | 0.97 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 18 | 0.97 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 18 | 0.97 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 2 | 0.97 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 2 | 0.97 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 2 | 0.97 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 20 | 0.97 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 20 | 0.97 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 10 | 0.97 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 10 | 0.97 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 10 | 0.97 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 10 | 0.97 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 10 | 0.97 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 10 | 0.97 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 18 | 0.97 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 18 | 0.97 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 10 | 0.97 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 10 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 10 | 0.97 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 10 | 0.97 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 10 | 0.97 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 10 | 0.97 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 2 | 0.97 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 2 | 0.97 |
| (1,3535) | 1:9:A:PRO:HB2 | 1:10:A:GLY:H | 19 | 0.97 |
| (1,3535) | 1:9:A:PRO:HB3 | 1:10:A:GLY:H | 19 | 0.97 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 3 | 0.97 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 3 | 0.97 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 20 | 0.97 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 20 | 0.97 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 17 | 0.97 |
| (1,3489) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 17 | 0.97 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 17 | 0.97 |
| (1,3489) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 17 | 0.97 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 17 | 0.97 |
| (1,3489) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 17 | 0.97 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 2 | 0.97 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 9 | 0.97 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 9 | 0.97 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 1 | 0.97 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 6 | 0.97 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 6 | 0.97 |
| (1,3297) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 6 | 0.97 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 20 | 0.97 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 2 | 0.97 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 2 | 0.97 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 2 | 0.97 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 12 | 0.97 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 12 | 0.97 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 12 | 0.97 |
| (1,2991) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 18 | 0.97 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 1 | 0.97 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 16 | 0.97 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 8 | 0.97 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 8 | 0.97 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 17 | 0.97 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 3 | 0.97 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 6 | 0.97 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 11 | 0.97 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 16 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 2 | 0.97 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 16 | 0.97 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 16 | 0.97 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 20 | 0.97 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 20 | 0.97 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 5 | 0.97 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 5 | 0.97 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 7 | 0.97 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 7 | 0.97 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 15 | 0.97 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 15 | 0.97 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 18 | 0.97 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 12 | 0.97 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 0.97 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 12 | 0.97 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 7 | 0.97 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 15 | 0.97 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 7 | 0.97 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 12 | 0.97 |
| (1,2407) | 1:9:A:PRO:HA | 1:10:A:GLY:HA2 | 20 | 0.97 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 5 | 0.97 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 17 | 0.97 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 16 | 0.97 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 9 | 0.97 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 12 | 0.97 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 12 | 0.97 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 12 | 0.97 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 9 | 0.97 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 20 | 0.97 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 6 | 0.97 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 14 | 0.97 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 16 | 0.97 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 20 | 0.97 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 15 | 0.97 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 10 | 0.97 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 16 | 0.97 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 16 | 0.97 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 16 | 0.97 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 7 | 0.97 |
| (1,1649) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 19 | 0.97 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 14 | 0.97 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 14 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 11 | 0.97 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 11 | 0.97 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 11 | 0.97 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 3 | 0.97 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 3 | 0.97 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 3 | 0.97 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 1 | 0.97 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 1 | 0.97 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 6 | 0.97 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 6 | 0.97 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 9 | 0.97 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE1 | 18 | 0.97 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE2 | 18 | 0.97 |
| (1,1477) | 1:130:A:MET:HB2 | 1:130:A:MET:HE3 | 18 | 0.97 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 16 | 0.97 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 18 | 0.97 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 18 | 0.97 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 7 | 0.97 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 7 | 0.97 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 7 | 0.97 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 0.97 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 0.97 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 20 | 0.97 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 20 | 0.97 |
| (1,1219) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 4 | 0.97 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 19 | 0.97 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 19 | 0.97 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 3 | 0.97 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 17 | 0.97 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 17 | 0.97 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 8 | 0.97 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 10 | 0.97 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 9 | 0.97 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 9 | 0.97 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 9 | 0.97 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 9 | 0.97 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 2 | 0.97 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 15 | 0.97 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 2 | 0.97 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 3 | 0.97 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 7 | 0.97 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 19 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 9 | 0.97 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 8 | 0.97 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 19 | 0.97 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 19 | 0.97 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 19 | 0.97 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 16 | 0.97 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 9 | 0.97 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 18 | 0.97 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 18 | 0.97 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 18 | 0.97 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 10 | 0.97 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 1 | 0.97 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 10 | 0.97 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 4 | 0.97 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 4 | 0.97 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 4 | 0.97 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 4 | 0.97 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 4 | 0.97 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 4 | 0.97 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 4 | 0.97 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 4 | 0.97 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 4 | 0.97 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 6 | 0.97 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 6 | 0.97 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 6 | 0.97 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 11 | 0.97 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 11 | 0.97 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 11 | 0.97 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 2 | 0.97 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 2 | 0.97 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 2 | 0.97 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 8 | 0.97 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 8 | 0.97 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 8 | 0.97 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 7 | 0.97 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 18 | 0.97 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 18 | 0.97 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 18 | 0.97 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 16 | 0.97 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 18 | 0.97 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 18 | 0.97 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 18 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 18 | 0.97 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 18 | 0.97 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 18 | 0.97 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 3 | 0.97 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 3 | 0.97 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 3 | 0.97 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 16 | 0.97 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 16 | 0.97 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 16 | 0.97 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 8 | 0.97 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 8 | 0.97 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 8 | 0.97 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 13 | 0.97 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 3 | 0.97 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 11 | 0.97 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 12 | 0.97 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 16 | 0.97 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 20 | 0.97 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 20 | 0.97 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 20 | 0.97 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 13 | 0.97 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 3 | 0.97 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 5 | 0.97 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 5 | 0.97 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 5 | 0.97 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 7 | 0.97 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 7 | 0.97 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 7 | 0.97 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 14 | 0.97 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 14 | 0.97 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 14 | 0.97 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 20 | 0.97 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 20 | 0.97 |
| (1,283) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 20 | 0.97 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 7 | 0.97 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 9 | 0.97 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 18 | 0.97 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 1 | 0.97 |
| (1,214) | 1:73:A:TRP:H | 1:77:A:LYS:H | 9 | 0.97 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 15 | 0.97 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 15 | 0.97 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 15 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 17 | 0.97 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 17 | 0.97 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 11 | 0.97 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 5 | 0.97 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 5 | 0.97 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 5 | 0.97 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 5 | 0.97 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 5 | 0.97 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 5 | 0.97 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 8 | 0.97 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 8 | 0.97 |
| (1,150) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 8 | 0.97 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 8 | 0.97 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 8 | 0.97 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 8 | 0.97 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 8 | 0.97 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 8 | 0.97 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 8 | 0.97 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 8 | 0.97 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 8 | 0.97 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 8 | 0.97 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 11 | 0.97 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 11 | 0.97 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 11 | 0.97 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 12 | 0.97 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 7 | 0.97 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 10 | 0.97 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 10 | 0.97 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 10 | 0.97 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 10 | 0.97 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 10 | 0.97 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 10 | 0.97 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 5 | 0.97 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 5 | 0.97 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 11 | 0.97 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 11 | 0.97 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 11 | 0.97 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 6 | 0.97 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 6 | 0.97 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 6 | 0.97 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 6 | 0.97 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 3 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 18 | 0.96 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 10 | 0.96 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 10 | 0.96 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 12 | 0.96 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 12 | 0.96 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 20 | 0.96 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 20 | 0.96 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 20 | 0.96 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 8 | 0.96 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 8 | 0.96 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 7 | 0.96 |
| (3,409) | 1:61:A:LEU:H | 1:157:A:HIS:H | 6 | 0.96 |
| (3,258) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 10 | 0.96 |
| (3,258) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 10 | 0.96 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 14 | 0.96 |
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 14 | 0.96 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 14 | 0.96 |
| (3,221) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 15 | 0.96 |
| (3,206) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 20 | 0.96 |
| (3,102) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 14 | 0.96 |
| (3,102) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 14 | 0.96 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 20 | 0.96 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 20 | 0.96 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 19 | 0.96 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 19 | 0.96 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 19 | 0.96 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 19 | 0.96 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 19 | 0.96 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 19 | 0.96 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 9 | 0.96 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 9 | 0.96 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 9 | 0.96 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 9 | 0.96 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 9 | 0.96 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 9 | 0.96 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 18 | 0.96 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 18 | 0.96 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 18 | 0.96 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 18 | 0.96 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 5 | 0.96 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 5 | 0.96 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 5 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 5 | 0.96 |
| (1,9180) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 6 | 0.96 |
| (1,9180) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 6 | 0.96 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 19 | 0.96 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 19 | 0.96 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 19 | 0.96 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 19 | 0.96 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 19 | 0.96 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 19 | 0.96 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 18 | 0.96 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 18 | 0.96 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 5 | 0.96 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 5 | 0.96 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 5 | 0.96 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 5 | 0.96 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 7 | 0.96 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 7 | 0.96 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 7 | 0.96 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 7 | 0.96 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 7 | 0.96 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 7 | 0.96 |
| (1,8683) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 8 | 0.96 |
| (1,8683) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 8 | 0.96 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 20 | 0.96 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 20 | 0.96 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 18 | 0.96 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 18 | 0.96 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 9 | 0.96 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 18 | 0.96 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 14 | 0.96 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 14 | 0.96 |
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 9 | 0.96 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 9 | 0.96 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 3 | 0.96 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 9 | 0.96 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 1 | 0.96 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 1 | 0.96 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 10 | 0.96 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 1 | 0.96 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 1 | 0.96 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 8 | 0.96 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 7 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 9 | 0.96 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 9 | 0.96 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 9 | 0.96 |
| (1,6897) | 1:29:A:THR:H | 1:31:A:ALA:H | 9 | 0.96 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 10 | 0.96 |
| (1,6588) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 1 | 0.96 |
| (1,6580) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 14 | 0.96 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 8 | 0.96 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 19 | 0.96 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 5 | 0.96 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 5 | 0.96 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 5 | 0.96 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 12 | 0.96 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 12 | 0.96 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 12 | 0.96 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 13 | 0.96 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 13 | 0.96 |
| (1,5951) | 1:126:A:SER:H | 1:127:A:ARG:H | 1 | 0.96 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 19 | 0.96 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 20 | 0.96 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 9 | 0.96 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 9 | 0.96 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 9 | 0.96 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 13 | 0.96 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 13 | 0.96 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 13 | 0.96 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 13 | 0.96 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 13 | 0.96 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 13 | 0.96 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 13 | 0.96 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 13 | 0.96 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 13 | 0.96 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 18 | 0.96 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 8 | 0.96 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 8 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 3 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 3 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 3 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 3 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 3 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 3 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 17 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 17 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 17 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 17 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 17 | 0.96 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 17 | 0.96 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 4 | 0.96 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 4 | 0.96 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 3 | 0.96 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 3 | 0.96 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 3 | 0.96 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 3 | 0.96 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 3 | 0.96 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 3 | 0.96 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 11 | 0.96 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 11 | 0.96 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 18 | 0.96 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 17 | 0.96 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 17 | 0.96 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 11 | 0.96 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 11 | 0.96 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 11 | 0.96 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 11 | 0.96 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 11 | 0.96 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 11 | 0.96 |
| (1,4097) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 12 | 0.96 |
| (1,4097) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 12 | 0.96 |
| (1,4097) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 12 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 2 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 2 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 2 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 2 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 2 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 2 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 4 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 4 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 4 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 4 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 4 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 4 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 5 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 5 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 5 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 5 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 5 | 0.96 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 5 | 0.96 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 18 | 0.96 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 18 | 0.96 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 12 | 0.96 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 12 | 0.96 |
| (1,4033) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 11 | 0.96 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 4 | 0.96 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 4 | 0.96 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 4 | 0.96 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 4 | 0.96 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 4 | 0.96 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 4 | 0.96 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 1 | 0.96 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 14 | 0.96 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 14 | 0.96 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 14 | 0.96 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 14 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 5 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 5 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 5 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 5 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 5 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 5 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 17 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 17 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 17 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 17 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 17 | 0.96 |
| (1,3727) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 17 | 0.96 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 11 | 0.96 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 11 | 0.96 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 14 | 0.96 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 17 | 0.96 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 19 | 0.96 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 13 | 0.96 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 13 | 0.96 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 12 | 0.96 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 12 | 0.96 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 12 | 0.96 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 7 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 7 | 0.96 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 16 | 0.96 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 16 | 0.96 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 3 | 0.96 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 3 | 0.96 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 15 | 0.96 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 15 | 0.96 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 4 | 0.96 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 7 | 0.96 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 5 | 0.96 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 5 | 0.96 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 5 | 0.96 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 5 | 0.96 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 5 | 0.96 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 5 | 0.96 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 10 | 0.96 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 9 | 0.96 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 9 | 0.96 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 9 | 0.96 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 10 | 0.96 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 10 | 0.96 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 10 | 0.96 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 15 | 0.96 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 12 | 0.96 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 18 | 0.96 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 19 | 0.96 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 1 | 0.96 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 1 | 0.96 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 1 | 0.96 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 8 | 0.96 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 8 | 0.96 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 8 | 0.96 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 5 | 0.96 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 5 | 0.96 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 5 | 0.96 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 1 | 0.96 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 10 | 0.96 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 18 | 0.96 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 19 | 0.96 |
| (1,2197) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 15 | 0.96 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 11 | 0.96 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 11 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 11 | 0.96 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 1 | 0.96 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 1 | 0.96 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 1 | 0.96 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 17 | 0.96 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 1 | 0.96 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 1 | 0.96 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 1 | 0.96 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 17 | 0.96 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 17 | 0.96 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 17 | 0.96 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 6 | 0.96 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 6 | 0.96 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 6 | 0.96 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 4 | 0.96 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 4 | 0.96 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 4 | 0.96 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 4 | 0.96 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 4 | 0.96 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 4 | 0.96 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 4 | 0.96 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 4 | 0.96 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 4 | 0.96 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 2 | 0.96 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 2 | 0.96 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 2 | 0.96 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 3 | 0.96 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 3 | 0.96 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 3 | 0.96 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 18 | 0.96 |
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 18 | 0.96 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 18 | 0.96 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 13 | 0.96 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 4 | 0.96 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 4 | 0.96 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 4 | 0.96 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 13 | 0.96 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 15 | 0.96 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 4 | 0.96 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 4 | 0.96 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 4 | 0.96 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 4 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 4 | 0.96 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 4 | 0.96 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 16 | 0.96 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 16 | 0.96 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 16 | 0.96 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 10 | 0.96 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 14 | 0.96 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 14 | 0.96 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 14 | 0.96 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 14 | 0.96 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 14 | 0.96 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 14 | 0.96 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 14 | 0.96 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 14 | 0.96 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 14 | 0.96 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 8 | 0.96 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 8 | 0.96 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 17 | 0.96 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 5 | 0.96 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 17 | 0.96 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 17 | 0.96 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 7 | 0.96 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 7 | 0.96 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 19 | 0.96 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 19 | 0.96 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 20 | 0.96 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 1 | 0.96 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 4 | 0.96 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 4 | 0.96 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 4 | 0.96 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 5 | 0.96 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 8 | 0.96 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 4 | 0.96 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 0.96 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 17 | 0.96 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 8 | 0.96 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 8 | 0.96 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 8 | 0.96 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 8 | 0.96 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 9 | 0.96 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 9 | 0.96 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 9 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 9 | 0.96 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 9 | 0.96 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 9 | 0.96 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 9 | 0.96 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 9 | 0.96 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 9 | 0.96 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 5 | 0.96 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 5 | 0.96 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 5 | 0.96 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 11 | 0.96 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 11 | 0.96 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 11 | 0.96 |
| (1,1235) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 5 | 0.96 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 5 | 0.96 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 5 | 0.96 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 5 | 0.96 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 15 | 0.96 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 4 | 0.96 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 4 | 0.96 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 4 | 0.96 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 14 | 0.96 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 12 | 0.96 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 13 | 0.96 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 7 | 0.96 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 7 | 0.96 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 7 | 0.96 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 10 | 0.96 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 10 | 0.96 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 10 | 0.96 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 2 | 0.96 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 17 | 0.96 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 18 | 0.96 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 4 | 0.96 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 5 | 0.96 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 12 | 0.96 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 18 | 0.96 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 1 | 0.96 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 1 | 0.96 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 1 | 0.96 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 1 | 0.96 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 4 | 0.96 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 4 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 4 | 0.96 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 20 | 0.96 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 20 | 0.96 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 20 | 0.96 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 3 | 0.96 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 3 | 0.96 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 3 | 0.96 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 6 | 0.96 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 6 | 0.96 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 6 | 0.96 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 3 | 0.96 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 3 | 0.96 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 3 | 0.96 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 3 | 0.96 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 3 | 0.96 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 3 | 0.96 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 15 | 0.96 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 15 | 0.96 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 15 | 0.96 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 15 | 0.96 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 15 | 0.96 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 15 | 0.96 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 20 | 0.96 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 20 | 0.96 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 20 | 0.96 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 1 | 0.96 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 7 | 0.96 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 15 | 0.96 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 19 | 0.96 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 17 | 0.96 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 8 | 0.96 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 8 | 0.96 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 8 | 0.96 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 12 | 0.96 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 12 | 0.96 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 12 | 0.96 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 12 | 0.96 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 12 | 0.96 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 12 | 0.96 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 11 | 0.96 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 11 | 0.96 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 11 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 8 | 0.96 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 8 | 0.96 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 8 | 0.96 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 11 | 0.96 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 20 | 0.96 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 20 | 0.96 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 20 | 0.96 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 3 | 0.96 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 12 | 0.96 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 5 | 0.96 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 5 | 0.96 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 5 | 0.96 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 10 | 0.96 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 8 | 0.96 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 9 | 0.96 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 19 | 0.96 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 19 | 0.96 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 19 | 0.96 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 19 | 0.96 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 19 | 0.96 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 19 | 0.96 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 17 | 0.96 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 17 | 0.96 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 17 | 0.96 |
| (1,39) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 10 | 0.96 |
| (1,39) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 10 | 0.96 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 18 | 0.96 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 16 | 0.96 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 8 | 0.95 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 8 | 0.95 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 20 | 0.95 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 20 | 0.95 |
| (3,766) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 10 | 0.95 |
| (3,766) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 10 | 0.95 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 6 | 0.95 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 6 | 0.95 |
| (3,642) | 1:132:A:LYS:HD3 | 1:135:A:GLU:H | 1 | 0.95 |
| (3,590) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 11 | 0.95 |
| (3,212) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 14 | 0.95 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 12 | 0.95 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 12 | 0.95 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 12 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 12 | 0.95 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 12 | 0.95 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 12 | 0.95 |
| (1,9549) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 8 | 0.95 |
| (1,9549) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 8 | 0.95 |
| (1,9549) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 8 | 0.95 |
| (1,9549) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 8 | 0.95 |
| (1,9549) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 8 | 0.95 |
| (1,9549) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 8 | 0.95 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 5 | 0.95 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 5 | 0.95 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 5 | 0.95 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 5 | 0.95 |
| (1,8783) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 18 | 0.95 |
| (1,8783) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 18 | 0.95 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 6 | 0.95 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 6 | 0.95 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 9 | 0.95 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 9 | 0.95 |
| (1,8683) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 6 | 0.95 |
| (1,8683) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 6 | 0.95 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 17 | 0.95 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 17 | 0.95 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 17 | 0.95 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 17 | 0.95 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 19 | 0.95 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 19 | 0.95 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 19 | 0.95 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 19 | 0.95 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 19 | 0.95 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 19 | 0.95 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 15 | 0.95 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 15 | 0.95 |
| (1,7937) | 1:72:A:SER:HA | 1:74:A:ARG:H | 17 | 0.95 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 9 | 0.95 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 20 | 0.95 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 7 | 0.95 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 5 | 0.95 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 5 | 0.95 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 5 | 0.95 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 16 | 0.95 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 17 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 9 | 0.95 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 6 | 0.95 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 6 | 0.95 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 6 | 0.95 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 2 | 0.95 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 2 | 0.95 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 2 | 0.95 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 7 | 0.95 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 7 | 0.95 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 7 | 0.95 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 7 | 0.95 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 7 | 0.95 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 7 | 0.95 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 7 | 0.95 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 7 | 0.95 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 7 | 0.95 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 11 | 0.95 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 9 | 0.95 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 9 | 0.95 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 9 | 0.95 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 17 | 0.95 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 17 | 0.95 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 3 | 0.95 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 3 | 0.95 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 3 | 0.95 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 1 | 0.95 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 4 | 0.95 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 7 | 0.95 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 20 | 0.95 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 20 | 0.95 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 20 | 0.95 |
| (1,5477) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 15 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 16 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 16 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 16 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 16 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 16 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 16 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 16 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 16 | 0.95 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 16 | 0.95 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 4 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 5 | 0.95 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 14 | 0.95 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 14 | 0.95 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 14 | 0.95 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 4 | 0.95 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 4 | 0.95 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 4 | 0.95 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 1 | 0.95 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 4 | 0.95 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 20 | 0.95 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 14 | 0.95 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 14 | 0.95 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 14 | 0.95 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 14 | 0.95 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 11 | 0.95 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 6 | 0.95 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 6 | 0.95 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 6 | 0.95 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 18 | 0.95 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 18 | 0.95 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 18 | 0.95 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 9 | 0.95 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 9 | 0.95 |
| (1,4509) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 9 | 0.95 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 8 | 0.95 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 8 | 0.95 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 19 | 0.95 |
| (1,4303) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 19 | 0.95 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 14 | 0.95 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 14 | 0.95 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 10 | 0.95 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 10 | 0.95 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 10 | 0.95 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 10 | 0.95 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 10 | 0.95 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 10 | 0.95 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 19 | 0.95 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 19 | 0.95 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 19 | 0.95 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 8 | 0.95 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 8 | 0.95 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 8 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 8 | 0.95 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 8 | 0.95 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 8 | 0.95 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 10 | 0.95 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 10 | 0.95 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 10 | 0.95 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 10 | 0.95 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 2 | 0.95 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 2 | 0.95 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 2 | 0.95 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 2 | 0.95 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 2 | 0.95 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 2 | 0.95 |
| (1,3797) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 8 | 0.95 |
| (1,3797) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 8 | 0.95 |
| (1,3749) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 3 | 0.95 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 9 | 0.95 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 17 | 0.95 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 17 | 0.95 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 6 | 0.95 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 6 | 0.95 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 6 | 0.95 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 3 | 0.95 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 3 | 0.95 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 3 | 0.95 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 10 | 0.95 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 12 | 0.95 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 9 | 0.95 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 18 | 0.95 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 18 | 0.95 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 16 | 0.95 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 15 | 0.95 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 12 | 0.95 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 7 | 0.95 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 7 | 0.95 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 7 | 0.95 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 1 | 0.95 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 1 | 0.95 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 18 | 0.95 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 18 | 0.95 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 2 | 0.95 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 18 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 10 | 0.95 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 8 | 0.95 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 5 | 0.95 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 4 | 0.95 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 4 | 0.95 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 4 | 0.95 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 2 | 0.95 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 19 | 0.95 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 19 | 0.95 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 19 | 0.95 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 1 | 0.95 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 4 | 0.95 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 5 | 0.95 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 6 | 0.95 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 17 | 0.95 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 17 | 0.95 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 17 | 0.95 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 12 | 0.95 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 12 | 0.95 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 12 | 0.95 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 9 | 0.95 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 16 | 0.95 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 16 | 0.95 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 16 | 0.95 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 6 | 0.95 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 6 | 0.95 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 15 | 0.95 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 15 | 0.95 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 15 | 0.95 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 15 | 0.95 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 15 | 0.95 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 15 | 0.95 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 18 | 0.95 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 18 | 0.95 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 6 | 0.95 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 6 | 0.95 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 2 | 0.95 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 18 | 0.95 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 14 | 0.95 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 9 | 0.95 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 19 | 0.95 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 13 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 13 | 0.95 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 13 | 0.95 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 5 | 0.95 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 13 | 0.95 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 3 | 0.95 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 8 | 0.95 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 8 | 0.95 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 8 | 0.95 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 18 | 0.95 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 18 | 0.95 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 18 | 0.95 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 19 | 0.95 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 19 | 0.95 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 19 | 0.95 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 6 | 0.95 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 6 | 0.95 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 6 | 0.95 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 6 | 0.95 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 6 | 0.95 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 6 | 0.95 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 13 | 0.95 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 13 | 0.95 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 13 | 0.95 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 7 | 0.95 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 3 | 0.95 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 3 | 0.95 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 3 | 0.95 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 3 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 16 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 16 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 16 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 16 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 16 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 16 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 19 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 19 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 19 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 19 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 19 | 0.95 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 19 | 0.95 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 12 | 0.95 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 12 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 12 | 0.95 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 16 | 0.95 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 4 | 0.95 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 4 | 0.95 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 4 | 0.95 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 4 | 0.95 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 4 | 0.95 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 4 | 0.95 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 4 | 0.95 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 4 | 0.95 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 4 | 0.95 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 14 | 0.95 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 14 | 0.95 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 14 | 0.95 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 14 | 0.95 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 14 | 0.95 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 14 | 0.95 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 14 | 0.95 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 14 | 0.95 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 14 | 0.95 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 18 | 0.95 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 4 | 0.95 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 4 | 0.95 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 12 | 0.95 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 12 | 0.95 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 4 | 0.95 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 17 | 0.95 |
| (1,1539) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 16 | 0.95 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 6 | 0.95 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 3 | 0.95 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 3 | 0.95 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 3 | 0.95 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 3 | 0.95 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 3 | 0.95 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 3 | 0.95 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 3 | 0.95 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 3 | 0.95 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 3 | 0.95 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 5 | 0.95 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 5 | 0.95 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 5 | 0.95 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 12 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 3 | 0.95 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 6 | 0.95 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 9 | 0.95 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 15 | 0.95 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 19 | 0.95 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 1 | 0.95 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 4 | 0.95 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 5 | 0.95 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 8 | 0.95 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 10 | 0.95 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 11 | 0.95 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 16 | 0.95 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 17 | 0.95 |
| (1,1077) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 20 | 0.95 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 16 | 0.95 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 14 | 0.95 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 9 | 0.95 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 11 | 0.95 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 11 | 0.95 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 11 | 0.95 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 11 | 0.95 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 11 | 0.95 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 11 | 0.95 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 1 | 0.95 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 4 | 0.95 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 7 | 0.95 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 11 | 0.95 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 11 | 0.95 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 11 | 0.95 |
| (1,703) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 1 | 0.95 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 14 | 0.95 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 14 | 0.95 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 14 | 0.95 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 16 | 0.95 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 16 | 0.95 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 16 | 0.95 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 16 | 0.95 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 16 | 0.95 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 16 | 0.95 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 2 | 0.95 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 8 | 0.95 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 8 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 8 | 0.95 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 5 | 0.95 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 13 | 0.95 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 13 | 0.95 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 1 | 0.95 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 4 | 0.95 |
| (1,429) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 7 | 0.95 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 20 | 0.95 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 5 | 0.95 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 19 | 0.95 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 9 | 0.95 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 9 | 0.95 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 9 | 0.95 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 8 | 0.95 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 8 | 0.95 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 8 | 0.95 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 8 | 0.95 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 8 | 0.95 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 8 | 0.95 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 2 | 0.95 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 16 | 0.95 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 17 | 0.95 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 17 | 0.95 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 17 | 0.95 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 17 | 0.95 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 20 | 0.95 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 20 | 0.95 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 20 | 0.95 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 4 | 0.95 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 16 | 0.95 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 20 | 0.95 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 20 | 0.95 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 20 | 0.95 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 20 | 0.95 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 7 | 0.95 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 17 | 0.95 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 10 | 0.95 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 10 | 0.95 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 10 | 0.95 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 7 | 0.95 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 7 | 0.95 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 16 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 18 | 0.95 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 10 | 0.95 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 10 | 0.95 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 14 | 0.95 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 14 | 0.95 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 14 | 0.95 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 14 | 0.95 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 14 | 0.95 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 14 | 0.95 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 3 | 0.95 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 3 | 0.95 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 3 | 0.95 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 3 | 0.95 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 3 | 0.95 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 3 | 0.95 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 18 | 0.95 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 18 | 0.95 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 18 | 0.95 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 18 | 0.95 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 18 | 0.95 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 18 | 0.95 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 18 | 0.95 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 18 | 0.95 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 18 | 0.95 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 11 | 0.95 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 11 | 0.95 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 11 | 0.95 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 10 | 0.95 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 1 | 0.95 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 1 | 0.95 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 15 | 0.95 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 15 | 0.95 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 15 | 0.95 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 14 | 0.95 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 13 | 0.95 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 13 | 0.95 |
| (4,208) | 1:131:A:GLN:CB | 1:34:A:TRP:HE1 | 11 | 0.94 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 13 | 0.94 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 13 | 0.94 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 2 | 0.94 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 9 | 0.94 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 9 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 8 | 0.94 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 8 | 0.94 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 8 | 0.94 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 8 | 0.94 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 16 | 0.94 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 16 | 0.94 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 9 | 0.94 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 9 | 0.94 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 7 | 0.94 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 7 | 0.94 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 7 | 0.94 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 7 | 0.94 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 8 | 0.94 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 8 | 0.94 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 8 | 0.94 |
| (3,611) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 12 | 0.94 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 3 | 0.94 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 11 | 0.94 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 11 | 0.94 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 15 | 0.94 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 15 | 0.94 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 15 | 0.94 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 15 | 0.94 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 15 | 0.94 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 15 | 0.94 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 15 | 0.94 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 15 | 0.94 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 15 | 0.94 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 9 | 0.94 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 9 | 0.94 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 9 | 0.94 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 9 | 0.94 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 9 | 0.94 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 9 | 0.94 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 0.94 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 0.94 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 0.94 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 0.94 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 0.94 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 0.94 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 13 | 0.94 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 13 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 7 | 0.94 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 7 | 0.94 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 7 | 0.94 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 7 | 0.94 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 7 | 0.94 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 7 | 0.94 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 10 | 0.94 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 10 | 0.94 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 10 | 0.94 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 10 | 0.94 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 10 | 0.94 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 10 | 0.94 |
| (1,8423) | 1:143:A:THR:HG21 | 1:163:A:GLU:HA | 20 | 0.94 |
| (1,8423) | 1:143:A:THR:HG22 | 1:163:A:GLU:HA | 20 | 0.94 |
| (1,8423) | 1:143:A:THR:HG23 | 1:163:A:GLU:HA | 20 | 0.94 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 2 | 0.94 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 2 | 0.94 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 11 | 0.94 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 11 | 0.94 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 3 | 0.94 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 2 | 0.94 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 12 | 0.94 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 13 | 0.94 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 16 | 0.94 |
| (1,7471) | 1:12:A:GLU:H | 1:27:A:HIS:H | 1 | 0.94 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 14 | 0.94 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 14 | 0.94 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 8 | 0.94 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 8 | 0.94 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 8 | 0.94 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 2 | 0.94 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 2 | 0.94 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 2 | 0.94 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 16 | 0.94 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 12 | 0.94 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 12 | 0.94 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 12 | 0.94 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 4 | 0.94 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 4 | 0.94 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 5 | 0.94 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 5 | 0.94 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 5 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 5 | 0.94 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 5 | 0.94 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 5 | 0.94 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 19 | 0.94 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 20 | 0.94 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 20 | 0.94 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 8 | 0.94 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 8 | 0.94 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 20 | 0.94 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 17 | 0.94 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 17 | 0.94 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 17 | 0.94 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 17 | 0.94 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 17 | 0.94 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 17 | 0.94 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 17 | 0.94 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 17 | 0.94 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 17 | 0.94 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 20 | 0.94 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 18 | 0.94 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 8 | 0.94 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 6 | 0.94 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 12 | 0.94 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 5 | 0.94 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 18 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 14 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 14 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 14 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 14 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 14 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 14 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 14 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 14 | 0.94 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 14 | 0.94 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 1 | 0.94 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 1 | 0.94 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 1 | 0.94 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 1 | 0.94 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 1 | 0.94 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 1 | 0.94 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 1 | 0.94 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 1 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 1 | 0.94 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 16 | 0.94 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 18 | 0.94 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 18 | 0.94 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 18 | 0.94 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 7 | 0.94 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 7 | 0.94 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 5 | 0.94 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 5 | 0.94 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 5 | 0.94 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 18 | 0.94 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 18 | 0.94 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 18 | 0.94 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 3 | 0.94 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 7 | 0.94 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 16 | 0.94 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 20 | 0.94 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 19 | 0.94 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 19 | 0.94 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 19 | 0.94 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 12 | 0.94 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 12 | 0.94 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 12 | 0.94 |
| (1,5341) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 18 | 0.94 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 4 | 0.94 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 12 | 0.94 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 12 | 0.94 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 12 | 0.94 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 16 | 0.94 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 16 | 0.94 |
| (1,4852) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 7 | 0.94 |
| (1,4852) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 7 | 0.94 |
| (1,4852) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 7 | 0.94 |
| (1,4708) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 14 | 0.94 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 7 | 0.94 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 7 | 0.94 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 7 | 0.94 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 10 | 0.94 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 10 | 0.94 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 20 | 0.94 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 20 | 0.94 |
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD2 | 12 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4095) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HD3 | 12 | 0.94 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD2 | 12 | 0.94 |
| (1,4095) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HD3 | 12 | 0.94 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD2 | 12 | 0.94 |
| (1,4095) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HD3 | 12 | 0.94 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 3 | 0.94 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 3 | 0.94 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 3 | 0.94 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 3 | 0.94 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 3 | 0.94 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 3 | 0.94 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 16 | 0.94 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 16 | 0.94 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 3 | 0.94 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 3 | 0.94 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 3 | 0.94 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 3 | 0.94 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 17 | 0.94 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 17 | 0.94 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 18 | 0.94 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 18 | 0.94 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 6 | 0.94 |
| (1,3841) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 6 | 0.94 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 1 | 0.94 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 1 | 0.94 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 3 | 0.94 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 3 | 0.94 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 3 | 0.94 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 8 | 0.94 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 8 | 0.94 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 8 | 0.94 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 8 | 0.94 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 8 | 0.94 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 8 | 0.94 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 16 | 0.94 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 5 | 0.94 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 20 | 0.94 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 20 | 0.94 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 2 | 0.94 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 3 | 0.94 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 13 | 0.94 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 15 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 5 | 0.94 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 5 | 0.94 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 4 | 0.94 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 11 | 0.94 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 11 | 0.94 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 18 | 0.94 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 19 | 0.94 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 6 | 0.94 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 6 | 0.94 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 6 | 0.94 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 5 | 0.94 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 5 | 0.94 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 1 | 0.94 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 2 | 0.94 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 1 | 0.94 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 1 | 0.94 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 1 | 0.94 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 19 | 0.94 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 2 | 0.94 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 20 | 0.94 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 20 | 0.94 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 20 | 0.94 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 11 | 0.94 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 4 | 0.94 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 4 | 0.94 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 17 | 0.94 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 17 | 0.94 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 4 | 0.94 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 20 | 0.94 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 4 | 0.94 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 18 | 0.94 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 8 | 0.94 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 8 | 0.94 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 15 | 0.94 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 20 | 0.94 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 9 | 0.94 |
| (1,2453) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 4 | 0.94 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 3 | 0.94 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 16 | 0.94 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 9 | 0.94 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 9 | 0.94 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 9 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 1 | 0.94 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 1 | 0.94 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 1 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 8 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 8 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 8 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 8 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 8 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 8 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 8 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 8 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 8 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 13 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 13 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 13 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 13 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 13 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 13 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 13 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 13 | 0.94 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 13 | 0.94 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 11 | 0.94 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 11 | 0.94 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 11 | 0.94 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 2 | 0.94 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 14 | 0.94 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 19 | 0.94 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 19 | 0.94 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 19 | 0.94 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 8 | 0.94 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 20 | 0.94 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 20 | 0.94 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 20 | 0.94 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 12 | 0.94 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 12 | 0.94 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 12 | 0.94 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 12 | 0.94 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 12 | 0.94 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 12 | 0.94 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 12 | 0.94 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 12 | 0.94 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 12 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 1 | 0.94 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 10 | 0.94 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 10 | 0.94 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 10 | 0.94 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 5 | 0.94 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 15 | 0.94 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 15 | 0.94 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 18 | 0.94 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 8 | 0.94 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 3 | 0.94 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 16 | 0.94 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 4 | 0.94 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 4 | 0.94 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 2 | 0.94 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 2 | 0.94 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 2 | 0.94 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 8 | 0.94 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 13 | 0.94 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 6 | 0.94 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 6 | 0.94 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 6 | 0.94 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 9 | 0.94 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 9 | 0.94 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 2 | 0.94 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 12 | 0.94 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 12 | 0.94 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 4 | 0.94 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 12 | 0.94 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 12 | 0.94 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 12 | 0.94 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 14 | 0.94 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 14 | 0.94 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 14 | 0.94 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 10 | 0.94 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 18 | 0.94 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 18 | 0.94 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 18 | 0.94 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 19 | 0.94 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 1 | 0.94 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 8 | 0.94 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 10 | 0.94 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 14 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 17 | 0.94 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 19 | 0.94 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 4 | 0.94 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 7 | 0.94 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 9 | 0.94 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 5 | 0.94 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 16 | 0.94 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 19 | 0.94 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 10 | 0.94 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 10 | 0.94 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 10 | 0.94 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 10 | 0.94 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 10 | 0.94 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 10 | 0.94 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 1 | 0.94 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 1 | 0.94 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 1 | 0.94 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 12 | 0.94 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 12 | 0.94 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 12 | 0.94 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 12 | 0.94 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 12 | 0.94 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 12 | 0.94 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 12 | 0.94 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 12 | 0.94 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 12 | 0.94 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 17 | 0.94 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 17 | 0.94 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 17 | 0.94 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 7 | 0.94 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 7 | 0.94 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 7 | 0.94 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 7 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 2 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 3 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 4 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 6 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 8 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 9 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 12 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 14 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 16 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 18 | 0.94 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 20 | 0.94 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 20 | 0.94 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 14 | 0.94 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 14 | 0.94 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 14 | 0.94 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 20 | 0.94 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 20 | 0.94 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 20 | 0.94 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 14 | 0.94 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 20 | 0.94 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 20 | 0.94 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 20 | 0.94 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 4 | 0.94 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 4 | 0.94 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 4 | 0.94 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 5 | 0.94 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 4 | 0.94 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 8 | 0.94 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 20 | 0.94 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 12 | 0.94 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 14 | 0.94 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 4 | 0.94 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 15 | 0.94 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 18 | 0.94 |
| (1,341) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 4 | 0.94 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 9 | 0.94 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 9 | 0.94 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 9 | 0.94 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 3 | 0.94 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 12 | 0.94 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 12 | 0.94 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 12 | 0.94 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 6 | 0.94 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 20 | 0.94 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 20 | 0.94 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 20 | 0.94 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 16 | 0.94 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 15 | 0.94 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 18 | 0.94 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 19 | 0.94 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 8 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 8 | 0.94 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 8 | 0.94 |
| (1,122) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 12 | 0.94 |
| (1,122) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 12 | 0.94 |
| (1,122) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 12 | 0.94 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 17 | 0.94 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 17 | 0.94 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 17 | 0.94 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 1 | 0.94 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 1 | 0.94 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 1 | 0.94 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 19 | 0.94 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 19 | 0.94 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 19 | 0.94 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 20 | 0.94 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 20 | 0.94 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 14 | 0.94 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 14 | 0.94 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 14 | 0.94 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 14 | 0.94 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 13 | 0.94 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 13 | 0.94 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 13 | 0.94 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 4 | 0.94 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 2 | 0.94 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 18 | 0.94 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 15 | 0.93 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 10 | 0.93 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 10 | 0.93 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 9 | 0.93 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 9 | 0.93 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 9 | 0.93 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 9 | 0.93 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 9 | 0.93 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 9 | 0.93 |
| (3,611) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 15 | 0.93 |
| (3,605) | 1:115:A:SER:H | 1:122:A:LEU:H | 18 | 0.93 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 9 | 0.93 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 19 | 0.93 |
| (3,271) | 1:25:A:PHE:HE1 | 1:27:A:HIS:HB2 | 13 | 0.93 |
| (3,271) | 1:25:A:PHE:HE2 | 1:27:A:HIS:HB2 | 13 | 0.93 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 16 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 16 | 0.93 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 16 | 0.93 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 18 | 0.93 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 4 | 0.93 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 2 | 0.93 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 2 | 0.93 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 3 | 0.93 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 3 | 0.93 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 16 | 0.93 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 16 | 0.93 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 16 | 0.93 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 16 | 0.93 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 16 | 0.93 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 16 | 0.93 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 19 | 0.93 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 19 | 0.93 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 19 | 0.93 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 19 | 0.93 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 16 | 0.93 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 16 | 0.93 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 10 | 0.93 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 10 | 0.93 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 5 | 0.93 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 12 | 0.93 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 19 | 0.93 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 1 | 0.93 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 19 | 0.93 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 19 | 0.93 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 18 | 0.93 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 18 | 0.93 |
| (1,7330) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 19 | 0.93 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 16 | 0.93 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 9 | 0.93 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 9 | 0.93 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 9 | 0.93 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 8 | 0.93 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 19 | 0.93 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 19 | 0.93 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 19 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 9 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 9 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 9 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 9 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 9 | 0.93 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 9 | 0.93 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 20 | 0.93 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 12 | 0.93 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 18 | 0.93 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 18 | 0.93 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 18 | 0.93 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 15 | 0.93 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 15 | 0.93 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 8 | 0.93 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 8 | 0.93 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 8 | 0.93 |
| (1,6289) | 1:150:A:VAL:H | 1:157:A:HIS:H | 4 | 0.93 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 1 | 0.93 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 16 | 0.93 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 16 | 0.93 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 16 | 0.93 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 16 | 0.93 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 16 | 0.93 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 16 | 0.93 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 3 | 0.93 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 3 | 0.93 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 3 | 0.93 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 3 | 0.93 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 3 | 0.93 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 3 | 0.93 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 3 | 0.93 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 3 | 0.93 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 3 | 0.93 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 3 | 0.93 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 3 | 0.93 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 3 | 0.93 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 17 | 0.93 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 2 | 0.93 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 15 | 0.93 |
| (1,5931) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 2 | 0.93 |
| (1,5931) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 2 | 0.93 |
| (1,5931) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 2 | 0.93 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 6 | 0.93 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 6 | 0.93 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 6 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 16 | 0.93 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 16 | 0.93 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 16 | 0.93 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 16 | 0.93 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 16 | 0.93 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 16 | 0.93 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 10 | 0.93 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 10 | 0.93 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 10 | 0.93 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 17 | 0.93 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 15 | 0.93 |
| (1,5149) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 12 | 0.93 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 15 | 0.93 |
| (1,4609) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 15 | 0.93 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 3 | 0.93 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 3 | 0.93 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 8 | 0.93 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 8 | 0.93 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB2 | 15 | 0.93 |
| (1,4305) | 1:106:A:LEU:HA | 1:109:A:GLN:HB3 | 15 | 0.93 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 4 | 0.93 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 4 | 0.93 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 8 | 0.93 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 8 | 0.93 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 1 | 0.93 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 1 | 0.93 |
| (1,4149) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 4 | 0.93 |
| (1,4149) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 4 | 0.93 |
| (1,4149) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 4 | 0.93 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 6 | 0.93 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 6 | 0.93 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 6 | 0.93 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 6 | 0.93 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 6 | 0.93 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 6 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 17 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 17 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 17 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 17 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 17 | 0.93 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 17 | 0.93 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 4 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 4 | 0.93 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 6 | 0.93 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 6 | 0.93 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 10 | 0.93 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 10 | 0.93 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 10 | 0.93 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 10 | 0.93 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 10 | 0.93 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 10 | 0.93 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 6 | 0.93 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 6 | 0.93 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 6 | 0.93 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 6 | 0.93 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 6 | 0.93 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 6 | 0.93 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 7 | 0.93 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 7 | 0.93 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 16 | 0.93 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 9 | 0.93 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 16 | 0.93 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 2 | 0.93 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 6 | 0.93 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 6 | 0.93 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 6 | 0.93 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 20 | 0.93 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 13 | 0.93 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 17 | 0.93 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 11 | 0.93 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 11 | 0.93 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 9 | 0.93 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 2 | 0.93 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 17 | 0.93 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 9 | 0.93 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 2 | 0.93 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 2 | 0.93 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 2 | 0.93 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 7 | 0.93 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 7 | 0.93 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 7 | 0.93 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 12 | 0.93 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 12 | 0.93 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 12 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 20 | 0.93 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 20 | 0.93 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 20 | 0.93 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 5 | 0.93 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 5 | 0.93 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 5 | 0.93 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 16 | 0.93 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 16 | 0.93 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 16 | 0.93 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 2 | 0.93 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 17 | 0.93 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 17 | 0.93 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 17 | 0.93 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 2 | 0.93 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 2 | 0.93 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 2 | 0.93 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 3 | 0.93 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 3 | 0.93 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 3 | 0.93 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 3 | 0.93 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 10 | 0.93 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 9 | 0.93 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 4 | 0.93 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 4 | 0.93 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 4 | 0.93 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 1 | 0.93 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 20 | 0.93 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 12 | 0.93 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 16 | 0.93 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 9 | 0.93 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 3 | 0.93 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 10 | 0.93 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 18 | 0.93 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 12 | 0.93 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 4 | 0.93 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 6 | 0.93 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 6 | 0.93 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 6 | 0.93 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 2 | 0.93 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 2 | 0.93 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 10 | 0.93 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 10 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 10 | 0.93 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 11 | 0.93 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 11 | 0.93 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 11 | 0.93 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 16 | 0.93 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 16 | 0.93 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 16 | 0.93 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 16 | 0.93 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 1 | 0.93 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 8 | 0.93 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 8 | 0.93 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 8 | 0.93 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 2 | 0.93 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 2 | 0.93 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 2 | 0.93 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 5 | 0.93 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 5 | 0.93 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 5 | 0.93 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 5 | 0.93 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 5 | 0.93 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 5 | 0.93 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 5 | 0.93 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 5 | 0.93 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 5 | 0.93 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 7 | 0.93 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 11 | 0.93 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 20 | 0.93 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 16 | 0.93 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 16 | 0.93 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 16 | 0.93 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 12 | 0.93 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 12 | 0.93 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 12 | 0.93 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 12 | 0.93 |
| (1,1637) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 9 | 0.93 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 20 | 0.93 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 15 | 0.93 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 15 | 0.93 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 2 | 0.93 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 15 | 0.93 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 8 | 0.93 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 8 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 8 | 0.93 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 8 | 0.93 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 8 | 0.93 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 8 | 0.93 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 6 | 0.93 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 11 | 0.93 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 19 | 0.93 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 12 | 0.93 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 18 | 0.93 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 1 | 0.93 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 17 | 0.93 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 20 | 0.93 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 17 | 0.93 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 17 | 0.93 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 17 | 0.93 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 3 | 0.93 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 6 | 0.93 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 15 | 0.93 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 3 | 0.93 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 3 | 0.93 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 3 | 0.93 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 8 | 0.93 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 2 | 0.93 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 13 | 0.93 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 16 | 0.93 |
| (1,823) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 20 | 0.93 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 2 | 0.93 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 13 | 0.93 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 16 | 0.93 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 16 | 0.93 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 16 | 0.93 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 1 | 0.93 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 5 | 0.93 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 7 | 0.93 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 10 | 0.93 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 11 | 0.93 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 13 | 0.93 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 15 | 0.93 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 17 | 0.93 |
| (1,675) | 1:96:A:ILE:HA | 1:96:A:ILE:HB | 19 | 0.93 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 6 | 0.93 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 6 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 6 | 0.93 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 4 | 0.93 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 1 | 0.93 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 1 | 0.93 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 4 | 0.93 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 4 | 0.93 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 4 | 0.93 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 7 | 0.93 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 7 | 0.93 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 7 | 0.93 |
| (1,463) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 5 | 0.93 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 2 | 0.93 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 6 | 0.93 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 9 | 0.93 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 16 | 0.93 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 20 | 0.93 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 10 | 0.93 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 10 | 0.93 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 10 | 0.93 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD21 | 5 | 0.93 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD22 | 5 | 0.93 |
| (1,419) | 1:86:A:LEU:HA | 1:86:A:LEU:HD23 | 5 | 0.93 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 2 | 0.93 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 2 | 0.93 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 2 | 0.93 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 13 | 0.93 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 13 | 0.93 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 13 | 0.93 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 17 | 0.93 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 17 | 0.93 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 17 | 0.93 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 11 | 0.93 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 11 | 0.93 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 2 | 0.93 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 13 | 0.93 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 16 | 0.93 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 20 | 0.93 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 14 | 0.93 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 16 | 0.93 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 16 | 0.93 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 8 | 0.93 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 8 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 1 | 0.93 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 1 | 0.93 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 1 | 0.93 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 11 | 0.93 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 5 | 0.93 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 5 | 0.93 |
| (4,317) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 3 | 0.92 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE21 | 16 | 0.92 |
| (4,142) | 1:90:A:ASN:CB | 1:49:A:GLN:HE22 | 16 | 0.92 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 11 | 0.92 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 8 | 0.92 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 8 | 0.92 |
| (3,948) | 1:95:A:LYS:HG2 | 1:99:A:GLY:H | 13 | 0.92 |
| (3,948) | 1:95:A:LYS:HG3 | 1:99:A:GLY:H | 13 | 0.92 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 20 | 0.92 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 20 | 0.92 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 20 | 0.92 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 20 | 0.92 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 10 | 0.92 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 10 | 0.92 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 17 | 0.92 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 17 | 0.92 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 3 | 0.92 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 4 | 0.92 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 4 | 0.92 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 4 | 0.92 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 12 | 0.92 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 12 | 0.92 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 14 | 0.92 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 14 | 0.92 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 19 | 0.92 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 19 | 0.92 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 19 | 0.92 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 19 | 0.92 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 19 | 0.92 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 19 | 0.92 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 19 | 0.92 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 19 | 0.92 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 19 | 0.92 |
| (3,18) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 11 | 0.92 |
| (1,9341) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 9 | 0.92 |
| (1,9341) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 9 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9341) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 9 | 0.92 |
| (1,9341) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 9 | 0.92 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 1 | 0.92 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 1 | 0.92 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 1 | 0.92 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 1 | 0.92 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 3 | 0.92 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 3 | 0.92 |
| (1,8890) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 13 | 0.92 |
| (1,8890) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 13 | 0.92 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 15 | 0.92 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 15 | 0.92 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 15 | 0.92 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 15 | 0.92 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 15 | 0.92 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 15 | 0.92 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 12 | 0.92 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 12 | 0.92 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 3 | 0.92 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 6 | 0.92 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 5 | 0.92 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 20 | 0.92 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 1 | 0.92 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 17 | 0.92 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 8 | 0.92 |
| (1,7755) | 1:55:A:VAL:H | 1:124:A:ALA:HA | 13 | 0.92 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 18 | 0.92 |
| (1,7326) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 11 | 0.92 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 11 | 0.92 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 11 | 0.92 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 11 | 0.92 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 20 | 0.92 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 19 | 0.92 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 7 | 0.92 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 16 | 0.92 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 4 | 0.92 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 6 | 0.92 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 18 | 0.92 |
| (1,6606) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 4 | 0.92 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 8 | 0.92 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 1 | 0.92 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 11 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 6 | 0.92 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 3 | 0.92 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 3 | 0.92 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 3 | 0.92 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 1 | 0.92 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 17 | 0.92 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 16 | 0.92 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 16 | 0.92 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 16 | 0.92 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 16 | 0.92 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 16 | 0.92 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 16 | 0.92 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 16 | 0.92 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 16 | 0.92 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 16 | 0.92 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 2 | 0.92 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 10 | 0.92 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 10 | 0.92 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 12 | 0.92 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 12 | 0.92 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 12 | 0.92 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 10 | 0.92 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 10 | 0.92 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 10 | 0.92 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 10 | 0.92 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 10 | 0.92 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 10 | 0.92 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 10 | 0.92 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 10 | 0.92 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 10 | 0.92 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 11 | 0.92 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 6 | 0.92 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 16 | 0.92 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 16 | 0.92 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 16 | 0.92 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 16 | 0.92 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 16 | 0.92 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 16 | 0.92 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 16 | 0.92 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 16 | 0.92 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 16 | 0.92 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 1 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 13 | 0.92 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 9 | 0.92 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 6 | 0.92 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 6 | 0.92 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 6 | 0.92 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 6 | 0.92 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 6 | 0.92 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 6 | 0.92 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 6 | 0.92 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 6 | 0.92 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 6 | 0.92 |
| (1,5107) | 1:80:A:ARG:HA | 1:81:A:THR:H | 18 | 0.92 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 17 | 0.92 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 18 | 0.92 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 18 | 0.92 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 18 | 0.92 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 13 | 0.92 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 13 | 0.92 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 13 | 0.92 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 15 | 0.92 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 15 | 0.92 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 15 | 0.92 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 19 | 0.92 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 19 | 0.92 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 19 | 0.92 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 19 | 0.92 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 19 | 0.92 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 19 | 0.92 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 19 | 0.92 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 19 | 0.92 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 19 | 0.92 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 15 | 0.92 |
| (1,4511) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 15 | 0.92 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG21 | 9 | 0.92 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG22 | 9 | 0.92 |
| (1,4507) | 1:138:A:SER:HB2 | 1:159:A:ILE:HG23 | 9 | 0.92 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG21 | 9 | 0.92 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG22 | 9 | 0.92 |
| (1,4507) | 1:138:A:SER:HB3 | 1:159:A:ILE:HG23 | 9 | 0.92 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG2 | 9 | 0.92 |
| (1,4487) | 1:135:A:GLU:H | 1:135:A:GLU:HG3 | 9 | 0.92 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 6 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 6 | 0.92 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 9 | 0.92 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 9 | 0.92 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 8 | 0.92 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 20 | 0.92 |
| (1,4179) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 13 | 0.92 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 3 | 0.92 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 3 | 0.92 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 6 | 0.92 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 15 | 0.92 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 15 | 0.92 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 18 | 0.92 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 18 | 0.92 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 18 | 0.92 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 18 | 0.92 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 18 | 0.92 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 18 | 0.92 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 18 | 0.92 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 18 | 0.92 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 18 | 0.92 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 16 | 0.92 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 16 | 0.92 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 16 | 0.92 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 16 | 0.92 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 7 | 0.92 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 7 | 0.92 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 2 | 0.92 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 2 | 0.92 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 2 | 0.92 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 4 | 0.92 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 4 | 0.92 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 4 | 0.92 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 10 | 0.92 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 10 | 0.92 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 18 | 0.92 |
| (1,3119) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 4 | 0.92 |
| (1,3119) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 16 | 0.92 |
| (1,3119) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 18 | 0.92 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 3 | 0.92 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 19 | 0.92 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 4 | 0.92 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 4 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 10 | 0.92 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 6 | 0.92 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 19 | 0.92 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 11 | 0.92 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 11 | 0.92 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 11 | 0.92 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 4 | 0.92 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 4 | 0.92 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 4 | 0.92 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 2 | 0.92 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 1 | 0.92 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 1 | 0.92 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 1 | 0.92 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 15 | 0.92 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 15 | 0.92 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 15 | 0.92 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 20 | 0.92 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 14 | 0.92 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 14 | 0.92 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 14 | 0.92 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 14 | 0.92 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 14 | 0.92 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 14 | 0.92 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 13 | 0.92 |
| (1,2641) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 16 | 0.92 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 6 | 0.92 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 16 | 0.92 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 16 | 0.92 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 16 | 0.92 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 2 | 0.92 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 17 | 0.92 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 10 | 0.92 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 17 | 0.92 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 18 | 0.92 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 5 | 0.92 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 5 | 0.92 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 5 | 0.92 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 3 | 0.92 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 8 | 0.92 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 1 | 0.92 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 11 | 0.92 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 11 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 19 | 0.92 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 19 | 0.92 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 19 | 0.92 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 13 | 0.92 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 1 | 0.92 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 16 | 0.92 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 16 | 0.92 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 16 | 0.92 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 16 | 0.92 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 16 | 0.92 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 16 | 0.92 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 16 | 0.92 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 16 | 0.92 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 16 | 0.92 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 17 | 0.92 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 17 | 0.92 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 17 | 0.92 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 17 | 0.92 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 17 | 0.92 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 17 | 0.92 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 18 | 0.92 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 20 | 0.92 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 20 | 0.92 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 20 | 0.92 |
| (1,1951) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 4 | 0.92 |
| (1,1951) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 4 | 0.92 |
| (1,1951) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 4 | 0.92 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 13 | 0.92 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 13 | 0.92 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 13 | 0.92 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 5 | 0.92 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 5 | 0.92 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 5 | 0.92 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 13 | 0.92 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 13 | 0.92 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 13 | 0.92 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 13 | 0.92 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 13 | 0.92 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 13 | 0.92 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 13 | 0.92 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 13 | 0.92 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 13 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 7 | 0.92 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 7 | 0.92 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 8 | 0.92 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 2 | 0.92 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 17 | 0.92 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 5 | 0.92 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 12 | 0.92 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 9 | 0.92 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 11 | 0.92 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 15 | 0.92 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 3 | 0.92 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 5 | 0.92 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 10 | 0.92 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 10 | 0.92 |
| (1,1151) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 10 | 0.92 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 10 | 0.92 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 10 | 0.92 |
| (1,1151) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 10 | 0.92 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 18 | 0.92 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 18 | 0.92 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 18 | 0.92 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 6 | 0.92 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 6 | 0.92 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 6 | 0.92 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 15 | 0.92 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 6 | 0.92 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 3 | 0.92 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 3 | 0.92 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 3 | 0.92 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 3 | 0.92 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 3 | 0.92 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 3 | 0.92 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 19 | 0.92 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 19 | 0.92 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 19 | 0.92 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 7 | 0.92 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 7 | 0.92 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 2 | 0.92 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 1 | 0.92 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 1 | 0.92 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 1 | 0.92 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 3 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 7 | 0.92 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 7 | 0.92 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 7 | 0.92 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 16 | 0.92 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 16 | 0.92 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 16 | 0.92 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 16 | 0.92 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 16 | 0.92 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 16 | 0.92 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 16 | 0.92 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 16 | 0.92 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 16 | 0.92 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 11 | 0.92 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 2 | 0.92 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 12 | 0.92 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 14 | 0.92 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 14 | 0.92 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 14 | 0.92 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 4 | 0.92 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 4 | 0.92 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 4 | 0.92 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 18 | 0.92 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 18 | 0.92 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 18 | 0.92 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 18 | 0.92 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 18 | 0.92 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 18 | 0.92 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 3 | 0.92 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 3 | 0.92 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 3 | 0.92 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 3 | 0.92 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 3 | 0.92 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 3 | 0.92 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 12 | 0.92 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 5 | 0.92 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 10 | 0.92 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 1 | 0.92 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 9 | 0.92 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 11 | 0.92 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 11 | 0.92 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 11 | 0.92 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 18 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 18 | 0.92 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 18 | 0.92 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 12 | 0.92 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 10 | 0.92 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 10 | 0.92 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 10 | 0.92 |
| (1,304) | 1:80:A:ARG:HA | 1:81:A:THR:H | 18 | 0.92 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 5 | 0.92 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 5 | 0.92 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 5 | 0.92 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 4 | 0.92 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 3 | 0.92 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 3 | 0.92 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 3 | 0.92 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 10 | 0.92 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 19 | 0.92 |
| (1,263) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 2 | 0.92 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 3 | 0.92 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 12 | 0.92 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 15 | 0.92 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 15 | 0.92 |
| (1,153) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 15 | 0.92 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 11 | 0.92 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 11 | 0.92 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 11 | 0.92 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 1 | 0.92 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 7 | 0.92 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 4 | 0.91 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 5 | 0.91 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 5 | 0.91 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 12 | 0.91 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB2 | 11 | 0.91 |
| (3,869) | 1:73:A:TRP:HD1 | 1:117:A:LYS:HB3 | 11 | 0.91 |
| (3,640) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 19 | 0.91 |
| (3,640) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 19 | 0.91 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 20 | 0.91 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 4 | 0.91 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 20 | 0.91 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 18 | 0.91 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 18 | 0.91 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 20 | 0.91 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 20 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 20 | 0.91 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 20 | 0.91 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 18 | 0.91 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 18 | 0.91 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 10 | 0.91 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 10 | 0.91 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 7 | 0.91 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 7 | 0.91 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 7 | 0.91 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 7 | 0.91 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 7 | 0.91 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 7 | 0.91 |
| (1,8810) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 4 | 0.91 |
| (1,8810) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 4 | 0.91 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 16 | 0.91 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 16 | 0.91 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 8 | 0.91 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 8 | 0.91 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 18 | 0.91 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 18 | 0.91 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 14 | 0.91 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 14 | 0.91 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 14 | 0.91 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 14 | 0.91 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 5 | 0.91 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 5 | 0.91 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 2 | 0.91 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 19 | 0.91 |
| (1,8261) | 1:119:A:ARG:H | 1:121:A:ASP:H | 20 | 0.91 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 4 | 0.91 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 4 | 0.91 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 4 | 0.91 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 1 | 0.91 |
| (1,6867) | 1:28:A:ILE:H | 1:30:A:ASN:H | 4 | 0.91 |
| (1,6843) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 9 | 0.91 |
| (1,6843) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 9 | 0.91 |
| (1,6843) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 9 | 0.91 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 11 | 0.91 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 20 | 0.91 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 20 | 0.91 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 20 | 0.91 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 13 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 13 | 0.91 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 13 | 0.91 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 8 | 0.91 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 8 | 0.91 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 8 | 0.91 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 14 | 0.91 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 9 | 0.91 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 9 | 0.91 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 12 | 0.91 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 16 | 0.91 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 10 | 0.91 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 15 | 0.91 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 10 | 0.91 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 10 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 13 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 13 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 13 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 13 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 13 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 13 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 13 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 13 | 0.91 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 13 | 0.91 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 1 | 0.91 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 7 | 0.91 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 7 | 0.91 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 7 | 0.91 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 6 | 0.91 |
| (1,5149) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 18 | 0.91 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 2 | 0.91 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 12 | 0.91 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 12 | 0.91 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 16 | 0.91 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 3 | 0.91 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 3 | 0.91 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 3 | 0.91 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 3 | 0.91 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 3 | 0.91 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 3 | 0.91 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 16 | 0.91 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 16 | 0.91 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 16 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 16 | 0.91 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 16 | 0.91 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 16 | 0.91 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 16 | 0.91 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 16 | 0.91 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 16 | 0.91 |
| (1,4856) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 11 | 0.91 |
| (1,4856) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 11 | 0.91 |
| (1,4856) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 11 | 0.91 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 16 | 0.91 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 16 | 0.91 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 16 | 0.91 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 14 | 0.91 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 14 | 0.91 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 14 | 0.91 |
| (1,4617) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 17 | 0.91 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 4 | 0.91 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 4 | 0.91 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 19 | 0.91 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 19 | 0.91 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 8 | 0.91 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 8 | 0.91 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 8 | 0.91 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 8 | 0.91 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 8 | 0.91 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 8 | 0.91 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 7 | 0.91 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 7 | 0.91 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 7 | 0.91 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 7 | 0.91 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 7 | 0.91 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 7 | 0.91 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 3 | 0.91 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 3 | 0.91 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 12 | 0.91 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 12 | 0.91 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 0.91 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 11 | 0.91 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 11 | 0.91 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 11 | 0.91 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 11 | 0.91 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 11 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 11 | 0.91 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 11 | 0.91 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 11 | 0.91 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 3 | 0.91 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 3 | 0.91 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 18 | 0.91 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 18 | 0.91 |
| (1,3571) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 15 | 0.91 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 12 | 0.91 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 12 | 0.91 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 12 | 0.91 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 12 | 0.91 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 12 | 0.91 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 12 | 0.91 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 20 | 0.91 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 20 | 0.91 |
| (1,3469) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 20 | 0.91 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 20 | 0.91 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 20 | 0.91 |
| (1,3469) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 20 | 0.91 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 20 | 0.91 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 20 | 0.91 |
| (1,3469) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 20 | 0.91 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 20 | 0.91 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 12 | 0.91 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 8 | 0.91 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 19 | 0.91 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 4 | 0.91 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 8 | 0.91 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 9 | 0.91 |
| (1,3119) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 8 | 0.91 |
| (1,3119) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 9 | 0.91 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 2 | 0.91 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 18 | 0.91 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 4 | 0.91 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 7 | 0.91 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 7 | 0.91 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 7 | 0.91 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 3 | 0.91 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 3 | 0.91 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 3 | 0.91 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 12 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 13 | 0.91 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 13 | 0.91 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 13 | 0.91 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 17 | 0.91 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 17 | 0.91 |
| (1,2885) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 17 | 0.91 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 8 | 0.91 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 8 | 0.91 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 8 | 0.91 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 16 | 0.91 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 16 | 0.91 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 15 | 0.91 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 14 | 0.91 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 8 | 0.91 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 9 | 0.91 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 2 | 0.91 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 5 | 0.91 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 8 | 0.91 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 6 | 0.91 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 6 | 0.91 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 6 | 0.91 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 14 | 0.91 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 14 | 0.91 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 14 | 0.91 |
| (1,2331) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 8 | 0.91 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 17 | 0.91 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 17 | 0.91 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 17 | 0.91 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 17 | 0.91 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 17 | 0.91 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 17 | 0.91 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 17 | 0.91 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 17 | 0.91 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 17 | 0.91 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 15 | 0.91 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 8 | 0.91 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 8 | 0.91 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 8 | 0.91 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 5 | 0.91 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 5 | 0.91 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 5 | 0.91 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 6 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 18 | 0.91 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 18 | 0.91 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 18 | 0.91 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 18 | 0.91 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 18 | 0.91 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 18 | 0.91 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 18 | 0.91 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 18 | 0.91 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 18 | 0.91 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 20 | 0.91 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 4 | 0.91 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 4 | 0.91 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 4 | 0.91 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 18 | 0.91 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 18 | 0.91 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 10 | 0.91 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 19 | 0.91 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 19 | 0.91 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 19 | 0.91 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 6 | 0.91 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 17 | 0.91 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 17 | 0.91 |
| (1,1483) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 5 | 0.91 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 14 | 0.91 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 14 | 0.91 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 14 | 0.91 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 14 | 0.91 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 14 | 0.91 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 10 | 0.91 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 10 | 0.91 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 12 | 0.91 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 12 | 0.91 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 2 | 0.91 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 6 | 0.91 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 6 | 0.91 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 12 | 0.91 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 5 | 0.91 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 5 | 0.91 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 5 | 0.91 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 5 | 0.91 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 5 | 0.91 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 5 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 5 | 0.91 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 5 | 0.91 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 5 | 0.91 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 17 | 0.91 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 17 | 0.91 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 17 | 0.91 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 10 | 0.91 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 12 | 0.91 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 12 | 0.91 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 1 | 0.91 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 1 | 0.91 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 1 | 0.91 |
| (1,1173) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 13 | 0.91 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 20 | 0.91 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 7 | 0.91 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 7 | 0.91 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 7 | 0.91 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 16 | 0.91 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 16 | 0.91 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 16 | 0.91 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 8 | 0.91 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 8 | 0.91 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 8 | 0.91 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 20 | 0.91 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 20 | 0.91 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 9 | 0.91 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 10 | 0.91 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 9 | 0.91 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 11 | 0.91 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 11 | 0.91 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 11 | 0.91 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 12 | 0.91 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 15 | 0.91 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 15 | 0.91 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 15 | 0.91 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 12 | 0.91 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 9 | 0.91 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 2 | 0.91 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 2 | 0.91 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 2 | 0.91 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 19 | 0.91 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 19 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 19 | 0.91 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 19 | 0.91 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 19 | 0.91 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 19 | 0.91 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 19 | 0.91 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 19 | 0.91 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 19 | 0.91 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 18 | 0.91 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 5 | 0.91 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 5 | 0.91 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 5 | 0.91 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 16 | 0.91 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 11 | 0.91 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 9 | 0.91 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 9 | 0.91 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 9 | 0.91 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 12 | 0.91 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 18 | 0.91 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 17 | 0.91 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 17 | 0.91 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 17 | 0.91 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 17 | 0.91 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 14 | 0.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 15 | 0.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 15 | 0.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 15 | 0.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 19 | 0.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 19 | 0.91 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 19 | 0.91 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 2 | 0.91 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 10 | 0.91 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 10 | 0.91 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 3 | 0.91 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 4 | 0.91 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 9 | 0.91 |
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 16 | 0.91 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 13 | 0.91 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 13 | 0.91 |
| (1,169) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 13 | 0.91 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 16 | 0.91 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 16 | 0.91 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 16 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 12 | 0.91 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 12 | 0.91 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 12 | 0.91 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 18 | 0.91 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 18 | 0.91 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 18 | 0.91 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 10 | 0.91 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 10 | 0.91 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 10 | 0.91 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 10 | 0.91 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 10 | 0.91 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 10 | 0.91 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 15 | 0.91 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 5 | 0.91 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 5 | 0.91 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 5 | 0.91 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 5 | 0.91 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 5 | 0.91 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 5 | 0.91 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 5 | 0.91 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 5 | 0.91 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 5 | 0.91 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 17 | 0.91 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 17 | 0.91 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 17 | 0.91 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 7 | 0.91 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 7 | 0.91 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 7 | 0.91 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 11 | 0.91 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 11 | 0.91 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 11 | 0.91 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 18 | 0.91 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 18 | 0.91 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 3 | 0.91 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 3 | 0.91 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 2 | 0.91 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 2 | 0.91 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 2 | 0.91 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 3 | 0.91 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 2 | 0.9 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 3 | 0.9 |
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD21 | 2 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,214) | 1:131:A:GLN:CB | 1:40:A:ASN:HD22 | 2 | 0.9 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 18 | 0.9 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 18 | 0.9 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 18 | 0.9 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 18 | 0.9 |
| (3,701) | 1:142:A:ARG:H | 1:145:A:GLU:H | 12 | 0.9 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 8 | 0.9 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 8 | 0.9 |
| (3,369) | 1:59:A:HIS:H | 1:120:A:GLY:H | 1 | 0.9 |
| (3,218) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 14 | 0.9 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 6 | 0.9 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 6 | 0.9 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 6 | 0.9 |
| (1,9272) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 11 | 0.9 |
| (1,9272) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 11 | 0.9 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 20 | 0.9 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 20 | 0.9 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 20 | 0.9 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 20 | 0.9 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 12 | 0.9 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 12 | 0.9 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 1 | 0.9 |
| (1,8225) | 1:108:A:SER:HA | 1:120:A:GLY:H | 12 | 0.9 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 10 | 0.9 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 1 | 0.9 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 1 | 0.9 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 1 | 0.9 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 1 | 0.9 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 1 | 0.9 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 1 | 0.9 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 1 | 0.9 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 1 | 0.9 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 1 | 0.9 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 1 | 0.9 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 8 | 0.9 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 14 | 0.9 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 14 | 0.9 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 5 | 0.9 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 12 | 0.9 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 7 | 0.9 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 7 | 0.9 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 7 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 14 | 0.9 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 14 | 0.9 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 14 | 0.9 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 14 | 0.9 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 14 | 0.9 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 14 | 0.9 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 14 | 0.9 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 14 | 0.9 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 14 | 0.9 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 19 | 0.9 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 19 | 0.9 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 19 | 0.9 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 2 | 0.9 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 10 | 0.9 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 11 | 0.9 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 17 | 0.9 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 7 | 0.9 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 7 | 0.9 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 7 | 0.9 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 18 | 0.9 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 18 | 0.9 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 18 | 0.9 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 18 | 0.9 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 18 | 0.9 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 18 | 0.9 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 18 | 0.9 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 18 | 0.9 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 3 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 16 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 16 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 16 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 16 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 16 | 0.9 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 16 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 4 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 4 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 4 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 9 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 9 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 9 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 15 | 0.9 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 15 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 15 | 0.9 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 17 | 0.9 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 17 | 0.9 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 17 | 0.9 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 17 | 0.9 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 17 | 0.9 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 17 | 0.9 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 17 | 0.9 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 17 | 0.9 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 17 | 0.9 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 6 | 0.9 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 9 | 0.9 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 9 | 0.9 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 7 | 0.9 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 7 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 19 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 19 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 19 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 19 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 19 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 19 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 19 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 19 | 0.9 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 19 | 0.9 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 4 | 0.9 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 13 | 0.9 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 13 | 0.9 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 13 | 0.9 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 1 | 0.9 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 9 | 0.9 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 9 | 0.9 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 9 | 0.9 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 18 | 0.9 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 18 | 0.9 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 18 | 0.9 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 18 | 0.9 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 3 | 0.9 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 3 | 0.9 |
| (1,5477) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 20 | 0.9 |
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 2 | 0.9 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 2 | 0.9 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 2 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 12 | 0.9 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 12 | 0.9 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 12 | 0.9 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 11 | 0.9 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 11 | 0.9 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 11 | 0.9 |
| (1,5217) | 1:83:A:GLU:H | 1:86:A:LEU:H | 17 | 0.9 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 8 | 0.9 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 8 | 0.9 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 8 | 0.9 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 17 | 0.9 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 13 | 0.9 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 13 | 0.9 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 13 | 0.9 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 7 | 0.9 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 7 | 0.9 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 7 | 0.9 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 18 | 0.9 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 18 | 0.9 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 18 | 0.9 |
| (1,4708) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 19 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 1 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 1 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 1 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 4 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 4 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 4 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 5 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 5 | 0.9 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 5 | 0.9 |
| (1,4617) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 16 | 0.9 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 11 | 0.9 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 11 | 0.9 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 11 | 0.9 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 11 | 0.9 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 11 | 0.9 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 11 | 0.9 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 9 | 0.9 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 9 | 0.9 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 9 | 0.9 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 3 | 0.9 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 3 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 3 | 0.9 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 3 | 0.9 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 3 | 0.9 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 3 | 0.9 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 19 | 0.9 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 19 | 0.9 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 4 | 0.9 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 4 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 9 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 9 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 9 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 9 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 9 | 0.9 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 9 | 0.9 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 19 | 0.9 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 19 | 0.9 |
| (1,3997) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 19 | 0.9 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 20 | 0.9 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 20 | 0.9 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 20 | 0.9 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 20 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 9 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 9 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 9 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 9 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 9 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 9 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 12 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 12 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 12 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 12 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 12 | 0.9 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 12 | 0.9 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 5 | 0.9 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 5 | 0.9 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 5 | 0.9 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 5 | 0.9 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 5 | 0.9 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 5 | 0.9 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 11 | 0.9 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 11 | 0.9 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 11 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 11 | 0.9 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 11 | 0.9 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 11 | 0.9 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 12 | 0.9 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 12 | 0.9 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 8 | 0.9 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 4 | 0.9 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 2 | 0.9 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 2 | 0.9 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 19 | 0.9 |
| (1,3289) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 12 | 0.9 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 17 | 0.9 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 17 | 0.9 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 9 | 0.9 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 11 | 0.9 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 8 | 0.9 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 17 | 0.9 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 1 | 0.9 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 11 | 0.9 |
| (1,3119) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 19 | 0.9 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 13 | 0.9 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 6 | 0.9 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 9 | 0.9 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 13 | 0.9 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 18 | 0.9 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 17 | 0.9 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 17 | 0.9 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 17 | 0.9 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 5 | 0.9 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 5 | 0.9 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 8 | 0.9 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 13 | 0.9 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 9 | 0.9 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 15 | 0.9 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 13 | 0.9 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 15 | 0.9 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 15 | 0.9 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 7 | 0.9 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 7 | 0.9 |
| (1,2703) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 12 | 0.9 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 17 | 0.9 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 17 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 17 | 0.9 |
| (1,2623) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 20 | 0.9 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 6 | 0.9 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 6 | 0.9 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 6 | 0.9 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 8 | 0.9 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 5 | 0.9 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 5 | 0.9 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 10 | 0.9 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 10 | 0.9 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 10 | 0.9 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 18 | 0.9 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 7 | 0.9 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 15 | 0.9 |
| (1,2299) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 5 | 0.9 |
| (1,2231) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 20 | 0.9 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 15 | 0.9 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 15 | 0.9 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 15 | 0.9 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 7 | 0.9 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 7 | 0.9 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 7 | 0.9 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 10 | 0.9 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 10 | 0.9 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 10 | 0.9 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 10 | 0.9 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 10 | 0.9 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 10 | 0.9 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 16 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 4 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 4 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 4 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 12 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 12 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 12 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 14 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 14 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 14 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 15 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 15 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 15 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 19 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 19 | 0.9 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 19 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 1 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 1 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 1 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 7 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 7 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 7 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 9 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 9 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 9 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 11 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 11 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 11 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 20 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 20 | 0.9 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 20 | 0.9 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 2 | 0.9 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 2 | 0.9 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 9 | 0.9 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 8 | 0.9 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 6 | 0.9 |
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 10 | 0.9 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 10 | 0.9 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 16 | 0.9 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 8 | 0.9 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 17 | 0.9 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 11 | 0.9 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 11 | 0.9 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 3 | 0.9 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 3 | 0.9 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 3 | 0.9 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 9 | 0.9 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 6 | 0.9 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 6 | 0.9 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 4 | 0.9 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 19 | 0.9 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 19 | 0.9 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 19 | 0.9 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 18 | 0.9 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 20 | 0.9 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 20 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 20 | 0.9 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 1 | 0.9 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 4 | 0.9 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 4 | 0.9 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 4 | 0.9 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 4 | 0.9 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 4 | 0.9 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 4 | 0.9 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 6 | 0.9 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 14 | 0.9 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 5 | 0.9 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 5 | 0.9 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 5 | 0.9 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 15 | 0.9 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 3 | 0.9 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 10 | 0.9 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 12 | 0.9 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 5 | 0.9 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 5 | 0.9 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 5 | 0.9 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 5 | 0.9 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 5 | 0.9 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 5 | 0.9 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 13 | 0.9 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 13 | 0.9 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 13 | 0.9 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 6 | 0.9 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 8 | 0.9 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 12 | 0.9 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 12 | 0.9 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 12 | 0.9 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 12 | 0.9 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 17 | 0.9 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 3 | 0.9 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 3 | 0.9 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 3 | 0.9 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 3 | 0.9 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 3 | 0.9 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 3 | 0.9 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 3 | 0.9 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 3 | 0.9 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 3 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 9 | 0.9 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 9 | 0.9 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 9 | 0.9 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 9 | 0.9 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 9 | 0.9 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 9 | 0.9 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 1 | 0.9 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 1 | 0.9 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 1 | 0.9 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 15 | 0.9 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 15 | 0.9 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 15 | 0.9 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 15 | 0.9 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 15 | 0.9 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 15 | 0.9 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 16 | 0.9 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 16 | 0.9 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 16 | 0.9 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 18 | 0.9 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 18 | 0.9 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 18 | 0.9 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 18 | 0.9 |
| (1,431) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 5 | 0.9 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 3 | 0.9 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 14 | 0.9 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 8 | 0.9 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 18 | 0.9 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 13 | 0.9 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 13 | 0.9 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 13 | 0.9 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 17 | 0.9 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 4 | 0.9 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 4 | 0.9 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 4 | 0.9 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 1 | 0.9 |
| (1,255) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 10 | 0.9 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 16 | 0.9 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 16 | 0.9 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 16 | 0.9 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 10 | 0.9 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 9 | 0.9 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 9 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 9 | 0.9 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 9 | 0.9 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 9 | 0.9 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 9 | 0.9 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 9 | 0.9 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 15 | 0.9 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 15 | 0.9 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 15 | 0.9 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 15 | 0.9 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 15 | 0.9 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 15 | 0.9 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 15 | 0.9 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 15 | 0.9 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 15 | 0.9 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 15 | 0.9 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 2 | 0.89 |
| (4,133) | 1:90:A:ASN:CB | 1:39:A:GLY:H | 5 | 0.89 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 12 | 0.89 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 12 | 0.89 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 12 | 0.89 |
| (3,3) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 9 | 0.89 |
| (3,3) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 9 | 0.89 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 5 | 0.89 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 5 | 0.89 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 2 | 0.89 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 2 | 0.89 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 2 | 0.89 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 2 | 0.89 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 2 | 0.89 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 2 | 0.89 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 11 | 0.89 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 11 | 0.89 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 11 | 0.89 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 11 | 0.89 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 11 | 0.89 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 11 | 0.89 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 19 | 0.89 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 19 | 0.89 |
| (1,8810) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 17 | 0.89 |
| (1,8810) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 17 | 0.89 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 9 | 0.89 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 9 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 10 | 0.89 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 10 | 0.89 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 14 | 0.89 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 14 | 0.89 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 14 | 0.89 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 14 | 0.89 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 6 | 0.89 |
| (1,7284) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 12 | 0.89 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 3 | 0.89 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 3 | 0.89 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 3 | 0.89 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 1 | 0.89 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 2 | 0.89 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 7 | 0.89 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 20 | 0.89 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 20 | 0.89 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 10 | 0.89 |
| (1,6366) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 6 | 0.89 |
| (1,6366) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 6 | 0.89 |
| (1,6366) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 6 | 0.89 |
| (1,6366) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 6 | 0.89 |
| (1,6366) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 6 | 0.89 |
| (1,6366) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 6 | 0.89 |
| (1,6366) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 6 | 0.89 |
| (1,6366) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 6 | 0.89 |
| (1,6366) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 6 | 0.89 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 6 | 0.89 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 16 | 0.89 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 16 | 0.89 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 16 | 0.89 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 15 | 0.89 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 15 | 0.89 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 15 | 0.89 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 15 | 0.89 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 15 | 0.89 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 15 | 0.89 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 7 | 0.89 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 16 | 0.89 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 4 | 0.89 |
| (1,5951) | 1:126:A:SER:H | 1:127:A:ARG:H | 3 | 0.89 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 17 | 0.89 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 13 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 13 | 0.89 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 4 | 0.89 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 9 | 0.89 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 16 | 0.89 |
| (1,5477) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 18 | 0.89 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 10 | 0.89 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 10 | 0.89 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 10 | 0.89 |
| (1,5239) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 8 | 0.89 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 19 | 0.89 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 18 | 0.89 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 12 | 0.89 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 12 | 0.89 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 12 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 10 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 10 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 10 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 10 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 10 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 10 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 10 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 10 | 0.89 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 10 | 0.89 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 18 | 0.89 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 10 | 0.89 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 10 | 0.89 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 10 | 0.89 |
| (1,4617) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 10 | 0.89 |
| (1,4617) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 20 | 0.89 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 15 | 0.89 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 15 | 0.89 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 1 | 0.89 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 1 | 0.89 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 4 | 0.89 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 4 | 0.89 |
| (1,4265) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 12 | 0.89 |
| (1,4265) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 12 | 0.89 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 10 | 0.89 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 10 | 0.89 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 12 | 0.89 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 12 | 0.89 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 6 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 6 | 0.89 |
| (1,4207) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 6 | 0.89 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 6 | 0.89 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 6 | 0.89 |
| (1,4207) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 6 | 0.89 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 19 | 0.89 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 19 | 0.89 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 19 | 0.89 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 19 | 0.89 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 19 | 0.89 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 19 | 0.89 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 9 | 0.89 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 9 | 0.89 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 9 | 0.89 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 9 | 0.89 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 9 | 0.89 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 9 | 0.89 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 20 | 0.89 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 20 | 0.89 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 20 | 0.89 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 20 | 0.89 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 20 | 0.89 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 20 | 0.89 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 3 | 0.89 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 3 | 0.89 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 3 | 0.89 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 3 | 0.89 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 3 | 0.89 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 3 | 0.89 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 7 | 0.89 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 7 | 0.89 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 15 | 0.89 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 15 | 0.89 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 12 | 0.89 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 12 | 0.89 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 12 | 0.89 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 12 | 0.89 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 16 | 0.89 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 16 | 0.89 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 18 | 0.89 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 18 | 0.89 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 18 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 1 | 0.89 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 10 | 0.89 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 10 | 0.89 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 10 | 0.89 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 10 | 0.89 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 18 | 0.89 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 0.89 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 18 | 0.89 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 13 | 0.89 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 11 | 0.89 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 9 | 0.89 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 6 | 0.89 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 6 | 0.89 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 15 | 0.89 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 15 | 0.89 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 15 | 0.89 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 14 | 0.89 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 14 | 0.89 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 2 | 0.89 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 17 | 0.89 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 10 | 0.89 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 10 | 0.89 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 16 | 0.89 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 16 | 0.89 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 16 | 0.89 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 20 | 0.89 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 11 | 0.89 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 12 | 0.89 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 12 | 0.89 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 12 | 0.89 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 13 | 0.89 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 13 | 0.89 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 13 | 0.89 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 1 | 0.89 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 4 | 0.89 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 18 | 0.89 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 2 | 0.89 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 1 | 0.89 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 4 | 0.89 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 13 | 0.89 |
| (1,3119) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 1 | 0.89 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 3 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 15 | 0.89 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 20 | 0.89 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 17 | 0.89 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 8 | 0.89 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 8 | 0.89 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 8 | 0.89 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 16 | 0.89 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 16 | 0.89 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 11 | 0.89 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 10 | 0.89 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 7 | 0.89 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 7 | 0.89 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 7 | 0.89 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 9 | 0.89 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 9 | 0.89 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 9 | 0.89 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 9 | 0.89 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 9 | 0.89 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 9 | 0.89 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 11 | 0.89 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 1 | 0.89 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 12 | 0.89 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 12 | 0.89 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 17 | 0.89 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 6 | 0.89 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 15 | 0.89 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 16 | 0.89 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 20 | 0.89 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 4 | 0.89 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 19 | 0.89 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 13 | 0.89 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 13 | 0.89 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 13 | 0.89 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 12 | 0.89 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 12 | 0.89 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 12 | 0.89 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 7 | 0.89 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 10 | 0.89 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 10 | 0.89 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 10 | 0.89 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 17 | 0.89 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 17 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 17 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 3 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 3 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 3 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 5 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 5 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 5 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 13 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 13 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 13 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 16 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 16 | 0.89 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 16 | 0.89 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 9 | 0.89 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 9 | 0.89 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 9 | 0.89 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 13 | 0.89 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 13 | 0.89 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 13 | 0.89 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 12 | 0.89 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 12 | 0.89 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 12 | 0.89 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 12 | 0.89 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 12 | 0.89 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 12 | 0.89 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 9 | 0.89 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 9 | 0.89 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 9 | 0.89 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 15 | 0.89 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 15 | 0.89 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 15 | 0.89 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 7 | 0.89 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 7 | 0.89 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 7 | 0.89 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 7 | 0.89 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 6 | 0.89 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 3 | 0.89 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 3 | 0.89 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 3 | 0.89 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 3 | 0.89 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 3 | 0.89 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 3 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 9 | 0.89 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 9 | 0.89 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 9 | 0.89 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 5 | 0.89 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 10 | 0.89 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 11 | 0.89 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 17 | 0.89 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 19 | 0.89 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 9 | 0.89 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 19 | 0.89 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 10 | 0.89 |
| (1,1521) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 18 | 0.89 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 19 | 0.89 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 17 | 0.89 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 17 | 0.89 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 17 | 0.89 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 4 | 0.89 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 17 | 0.89 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 4 | 0.89 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 12 | 0.89 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 12 | 0.89 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 12 | 0.89 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 2 | 0.89 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 8 | 0.89 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 10 | 0.89 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 15 | 0.89 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 4 | 0.89 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 2 | 0.89 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 15 | 0.89 |
| (1,1105) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 12 | 0.89 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 4 | 0.89 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 14 | 0.89 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 9 | 0.89 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 14 | 0.89 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 19 | 0.89 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 19 | 0.89 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 19 | 0.89 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 1 | 0.89 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 6 | 0.89 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 15 | 0.89 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 15 | 0.89 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 15 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 15 | 0.89 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 15 | 0.89 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 15 | 0.89 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 14 | 0.89 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 14 | 0.89 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 2 | 0.89 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 2 | 0.89 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 2 | 0.89 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 9 | 0.89 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 9 | 0.89 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 9 | 0.89 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 19 | 0.89 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 15 | 0.89 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 15 | 0.89 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 15 | 0.89 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 14 | 0.89 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 14 | 0.89 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 14 | 0.89 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 15 | 0.89 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 15 | 0.89 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 15 | 0.89 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 10 | 0.89 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 11 | 0.89 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 3 | 0.89 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 3 | 0.89 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 3 | 0.89 |
| (1,609) | 1:94:A:GLN:HB3 | 1:95:A:LYS:H | 15 | 0.89 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 2 | 0.89 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 2 | 0.89 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 2 | 0.89 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 2 | 0.89 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 2 | 0.89 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 2 | 0.89 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 17 | 0.89 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 17 | 0.89 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 17 | 0.89 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 14 | 0.89 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 5 | 0.89 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 20 | 0.89 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 14 | 0.89 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 18 | 0.89 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 18 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 20 | 0.89 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 20 | 0.89 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 20 | 0.89 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 16 | 0.89 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 16 | 0.89 |
| (1,395) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 16 | 0.89 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 17 | 0.89 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 17 | 0.89 |
| (1,385) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 17 | 0.89 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 17 | 0.89 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 17 | 0.89 |
| (1,385) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 17 | 0.89 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 17 | 0.89 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 17 | 0.89 |
| (1,385) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 17 | 0.89 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 5 | 0.89 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 4 | 0.89 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 4 | 0.89 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 4 | 0.89 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 9 | 0.89 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 8 | 0.89 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 17 | 0.89 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 17 | 0.89 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 17 | 0.89 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 13 | 0.89 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 13 | 0.89 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 13 | 0.89 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 15 | 0.89 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 15 | 0.89 |
| (1,294) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 15 | 0.89 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 2 | 0.89 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 16 | 0.89 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 17 | 0.89 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 2 | 0.89 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 3 | 0.89 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 3 | 0.89 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 3 | 0.89 |
| (1,268) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 5 | 0.89 |
| (1,268) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 5 | 0.89 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 14 | 0.89 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 1 | 0.89 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 12 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 12 | 0.89 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 12 | 0.89 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 13 | 0.89 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 8 | 0.89 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 8 | 0.89 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 8 | 0.89 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 12 | 0.89 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 12 | 0.89 |
| (1,134) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 10 | 0.89 |
| (1,134) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 10 | 0.89 |
| (1,134) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 10 | 0.89 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 20 | 0.89 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 20 | 0.89 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 20 | 0.89 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 3 | 0.89 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 3 | 0.89 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 3 | 0.89 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 17 | 0.89 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 17 | 0.89 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 17 | 0.89 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 19 | 0.89 |
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 14 | 0.88 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 4 | 0.88 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 8 | 0.88 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD21 | 9 | 0.88 |
| (4,134) | 1:90:A:ASN:CB | 1:40:A:ASN:HD22 | 9 | 0.88 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 9 | 0.88 |
| (3,1022) | 1:135:A:GLU:HG2 | 1:139:A:PHE:HZ | 3 | 0.88 |
| (3,1022) | 1:135:A:GLU:HG3 | 1:139:A:PHE:HZ | 3 | 0.88 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 3 | 0.88 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 3 | 0.88 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 3 | 0.88 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 3 | 0.88 |
| (3,814) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 18 | 0.88 |
| (3,814) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 18 | 0.88 |
| (3,814) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 18 | 0.88 |
| (3,814) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 18 | 0.88 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 15 | 0.88 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 19 | 0.88 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 19 | 0.88 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 19 | 0.88 |
| (3,351) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 20 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 18 | 0.88 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 18 | 0.88 |
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 18 | 0.88 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 16 | 0.88 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 16 | 0.88 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 16 | 0.88 |
| (3,18) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 16 | 0.88 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 5 | 0.88 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 5 | 0.88 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 2 | 0.88 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 2 | 0.88 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 6 | 0.88 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 6 | 0.88 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 19 | 0.88 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 19 | 0.88 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 18 | 0.88 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 18 | 0.88 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 13 | 0.88 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 2 | 0.88 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 6 | 0.88 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 12 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 10 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 10 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 10 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 10 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 10 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 10 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 10 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 10 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 10 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 14 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 14 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 14 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 14 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 14 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 14 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 14 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 14 | 0.88 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 14 | 0.88 |
| (1,7453) | 1:11:A:TRP:HB3 | 1:37:A:PRO:HG3 | 14 | 0.88 |
| (1,7304) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 13 | 0.88 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 14 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 14 | 0.88 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 7 | 0.88 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 8 | 0.88 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 8 | 0.88 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 8 | 0.88 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 9 | 0.88 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 12 | 0.88 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 13 | 0.88 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 18 | 0.88 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 3 | 0.88 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 10 | 0.88 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 18 | 0.88 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 9 | 0.88 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 7 | 0.88 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 10 | 0.88 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 3 | 0.88 |
| (1,6588) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 10 | 0.88 |
| (1,6588) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 18 | 0.88 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 5 | 0.88 |
| (1,6436) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 6 | 0.88 |
| (1,6436) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 6 | 0.88 |
| (1,6436) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 6 | 0.88 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 17 | 0.88 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 19 | 0.88 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 7 | 0.88 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 10 | 0.88 |
| (1,6212) | 1:145:A:GLU:HA | 1:146:A:MET:H | 4 | 0.88 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 18 | 0.88 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 18 | 0.88 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 10 | 0.88 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 1 | 0.88 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 19 | 0.88 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 7 | 0.88 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 7 | 0.88 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 7 | 0.88 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 13 | 0.88 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 18 | 0.88 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 10 | 0.88 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 19 | 0.88 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 19 | 0.88 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 19 | 0.88 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 3 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 3 | 0.88 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 3 | 0.88 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 3 | 0.88 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 3 | 0.88 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 3 | 0.88 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 3 | 0.88 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 3 | 0.88 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 3 | 0.88 |
| (1,5125) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 4 | 0.88 |
| (1,5125) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 4 | 0.88 |
| (1,5125) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 4 | 0.88 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 16 | 0.88 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 16 | 0.88 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 16 | 0.88 |
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 3 | 0.88 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 14 | 0.88 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 19 | 0.88 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 19 | 0.88 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 19 | 0.88 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 7 | 0.88 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 7 | 0.88 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 5 | 0.88 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 9 | 0.88 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 20 | 0.88 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 11 | 0.88 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 11 | 0.88 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 11 | 0.88 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 7 | 0.88 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 7 | 0.88 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 7 | 0.88 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 7 | 0.88 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 7 | 0.88 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 7 | 0.88 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 14 | 0.88 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 14 | 0.88 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 19 | 0.88 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 19 | 0.88 |
| (1,4423) | 1:129:A:GLN:HB2 | 1:130:A:MET:HB2 | 9 | 0.88 |
| (1,4423) | 1:129:A:GLN:HB3 | 1:130:A:MET:HB2 | 9 | 0.88 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 18 | 0.88 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 18 | 0.88 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 18 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 18 | 0.88 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 18 | 0.88 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 18 | 0.88 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 6 | 0.88 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 6 | 0.88 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 12 | 0.88 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 12 | 0.88 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 7 | 0.88 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 7 | 0.88 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 19 | 0.88 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 19 | 0.88 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 16 | 0.88 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 16 | 0.88 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 8 | 0.88 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 8 | 0.88 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 8 | 0.88 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 8 | 0.88 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 8 | 0.88 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 8 | 0.88 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 15 | 0.88 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 15 | 0.88 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 15 | 0.88 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 15 | 0.88 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 15 | 0.88 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 15 | 0.88 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 4 | 0.88 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 19 | 0.88 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 20 | 0.88 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 7 | 0.88 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 7 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 2 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 2 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 5 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 5 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 8 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 8 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 12 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 12 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 13 | 0.88 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 13 | 0.88 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 16 | 0.88 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 3 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 5 | 0.88 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 12 | 0.88 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 19 | 0.88 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 19 | 0.88 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 6 | 0.88 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 6 | 0.88 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 6 | 0.88 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 6 | 0.88 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 3 | 0.88 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 1 | 0.88 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 10 | 0.88 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 14 | 0.88 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 5 | 0.88 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 8 | 0.88 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 14 | 0.88 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 9 | 0.88 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 12 | 0.88 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 11 | 0.88 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 19 | 0.88 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 13 | 0.88 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 20 | 0.88 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 1 | 0.88 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 9 | 0.88 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 17 | 0.88 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 8 | 0.88 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 8 | 0.88 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 8 | 0.88 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 7 | 0.88 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 12 | 0.88 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 8 | 0.88 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 15 | 0.88 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 1 | 0.88 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 1 | 0.88 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 1 | 0.88 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 8 | 0.88 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 8 | 0.88 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 8 | 0.88 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 20 | 0.88 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 20 | 0.88 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 20 | 0.88 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD11 | 18 | 0.88 |
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD12 | 18 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2147) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HD13 | 18 | 0.88 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD11 | 18 | 0.88 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD12 | 18 | 0.88 |
| (1,2147) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HD13 | 18 | 0.88 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD11 | 18 | 0.88 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD12 | 18 | 0.88 |
| (1,2147) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HD13 | 18 | 0.88 |
| (1,2119) | 1:158:A:ILE:H | 1:159:A:ILE:H | 8 | 0.88 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 19 | 0.88 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 2 | 0.88 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 2 | 0.88 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 2 | 0.88 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 8 | 0.88 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 8 | 0.88 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 8 | 0.88 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 18 | 0.88 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 18 | 0.88 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 18 | 0.88 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 17 | 0.88 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 6 | 0.88 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 6 | 0.88 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 6 | 0.88 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 1 | 0.88 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 1 | 0.88 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 19 | 0.88 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 19 | 0.88 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 19 | 0.88 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 19 | 0.88 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 19 | 0.88 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 19 | 0.88 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 19 | 0.88 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 19 | 0.88 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 19 | 0.88 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 17 | 0.88 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 17 | 0.88 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 7 | 0.88 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 10 | 0.88 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 1 | 0.88 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 4 | 0.88 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 7 | 0.88 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 14 | 0.88 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 10 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 10 | 0.88 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 10 | 0.88 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 2 | 0.88 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 2 | 0.88 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 2 | 0.88 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 15 | 0.88 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 15 | 0.88 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 15 | 0.88 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 9 | 0.88 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 9 | 0.88 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 9 | 0.88 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 14 | 0.88 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 14 | 0.88 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 14 | 0.88 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 13 | 0.88 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 17 | 0.88 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 10 | 0.88 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 12 | 0.88 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 2 | 0.88 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 5 | 0.88 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 3 | 0.88 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 3 | 0.88 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 3 | 0.88 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 9 | 0.88 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 13 | 0.88 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 17 | 0.88 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 8 | 0.88 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 7 | 0.88 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 16 | 0.88 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 14 | 0.88 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 7 | 0.88 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 16 | 0.88 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 3 | 0.88 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 5 | 0.88 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 8 | 0.88 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 12 | 0.88 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 4 | 0.88 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 4 | 0.88 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 4 | 0.88 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 4 | 0.88 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 4 | 0.88 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 4 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 20 | 0.88 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 20 | 0.88 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 20 | 0.88 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 20 | 0.88 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 20 | 0.88 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 20 | 0.88 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 16 | 0.88 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 16 | 0.88 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 16 | 0.88 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 16 | 0.88 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 16 | 0.88 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 16 | 0.88 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 9 | 0.88 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 9 | 0.88 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 10 | 0.88 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 10 | 0.88 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 3 | 0.88 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 3 | 0.88 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 3 | 0.88 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 13 | 0.88 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 13 | 0.88 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 13 | 0.88 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 15 | 0.88 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 15 | 0.88 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 15 | 0.88 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 7 | 0.88 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 14 | 0.88 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 17 | 0.88 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 17 | 0.88 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 17 | 0.88 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 17 | 0.88 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 17 | 0.88 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 17 | 0.88 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 17 | 0.88 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 17 | 0.88 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 17 | 0.88 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 16 | 0.88 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 16 | 0.88 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 16 | 0.88 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 16 | 0.88 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 16 | 0.88 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 16 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 16 | 0.88 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 14 | 0.88 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 14 | 0.88 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 2 | 0.88 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 10 | 0.88 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 10 | 0.88 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 10 | 0.88 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 10 | 0.88 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 10 | 0.88 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 10 | 0.88 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 10 | 0.88 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 10 | 0.88 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 10 | 0.88 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 10 | 0.88 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 10 | 0.88 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 10 | 0.88 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 18 | 0.88 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 18 | 0.88 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 18 | 0.88 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 16 | 0.88 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 20 | 0.88 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 12 | 0.88 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 1 | 0.88 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 2 | 0.88 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 11 | 0.88 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 11 | 0.88 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 11 | 0.88 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 12 | 0.88 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 6 | 0.88 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 13 | 0.88 |
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 9 | 0.88 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 4 | 0.88 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 4 | 0.88 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 4 | 0.88 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 14 | 0.88 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 14 | 0.88 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 14 | 0.88 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 1 | 0.88 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 1 | 0.88 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 1 | 0.88 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 11 | 0.88 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 11 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 11 | 0.88 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 17 | 0.88 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 17 | 0.88 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 17 | 0.88 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 14 | 0.87 |
| (4,97) | 1:15:A:MET:CB | 1:158:A:ILE:H | 14 | 0.87 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 10 | 0.87 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 10 | 0.87 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 10 | 0.87 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 10 | 0.87 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 13 | 0.87 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 13 | 0.87 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 13 | 0.87 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 13 | 0.87 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 11 | 0.87 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 11 | 0.87 |
| (3,813) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 20 | 0.87 |
| (3,813) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 20 | 0.87 |
| (3,813) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 20 | 0.87 |
| (3,813) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 20 | 0.87 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 13 | 0.87 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 13 | 0.87 |
| (3,571) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 9 | 0.87 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 2 | 0.87 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 18 | 0.87 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 18 | 0.87 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 8 | 0.87 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 8 | 0.87 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 20 | 0.87 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 20 | 0.87 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 7 | 0.87 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 7 | 0.87 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 20 | 0.87 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 20 | 0.87 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 6 | 0.87 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 6 | 0.87 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 17 | 0.87 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 17 | 0.87 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 17 | 0.87 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 17 | 0.87 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 17 | 0.87 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 17 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 12 | 0.87 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 15 | 0.87 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 8 | 0.87 |
| (1,7863) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 18 | 0.87 |
| (1,7863) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 18 | 0.87 |
| (1,7863) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 18 | 0.87 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 19 | 0.87 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 20 | 0.87 |
| (1,7330) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 8 | 0.87 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 7 | 0.87 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 11 | 0.87 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 11 | 0.87 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 11 | 0.87 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 11 | 0.87 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 11 | 0.87 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 18 | 0.87 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 6 | 0.87 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 6 | 0.87 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 1 | 0.87 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 2 | 0.87 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 17 | 0.87 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 17 | 0.87 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 17 | 0.87 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 15 | 0.87 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 8 | 0.87 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 8 | 0.87 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 8 | 0.87 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 4 | 0.87 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 13 | 0.87 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 10 | 0.87 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 10 | 0.87 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 10 | 0.87 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 15 | 0.87 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 15 | 0.87 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 15 | 0.87 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 13 | 0.87 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 9 | 0.87 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 18 | 0.87 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 18 | 0.87 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 17 | 0.87 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 17 | 0.87 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 17 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 11 | 0.87 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 1 | 0.87 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 19 | 0.87 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 4 | 0.87 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 9 | 0.87 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 13 | 0.87 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 17 | 0.87 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 17 | 0.87 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 14 | 0.87 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 14 | 0.87 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 14 | 0.87 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 14 | 0.87 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 14 | 0.87 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 14 | 0.87 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 14 | 0.87 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 14 | 0.87 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 14 | 0.87 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 14 | 0.87 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 14 | 0.87 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 14 | 0.87 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 20 | 0.87 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 20 | 0.87 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 20 | 0.87 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 9 | 0.87 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 9 | 0.87 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 19 | 0.87 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 19 | 0.87 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 0.87 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 0.87 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 14 | 0.87 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 14 | 0.87 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 13 | 0.87 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 13 | 0.87 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 13 | 0.87 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 13 | 0.87 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 12 | 0.87 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 12 | 0.87 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 18 | 0.87 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 18 | 0.87 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 15 | 0.87 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 15 | 0.87 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 15 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 15 | 0.87 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 15 | 0.87 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 15 | 0.87 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 8 | 0.87 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 8 | 0.87 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 9 | 0.87 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 9 | 0.87 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 13 | 0.87 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 13 | 0.87 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 6 | 0.87 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 6 | 0.87 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 14 | 0.87 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 14 | 0.87 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 8 | 0.87 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 8 | 0.87 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 8 | 0.87 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 8 | 0.87 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 8 | 0.87 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 8 | 0.87 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 18 | 0.87 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 18 | 0.87 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 18 | 0.87 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 18 | 0.87 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 18 | 0.87 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 18 | 0.87 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 12 | 0.87 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 12 | 0.87 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 5 | 0.87 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 5 | 0.87 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 1 | 0.87 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 1 | 0.87 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 13 | 0.87 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 4 | 0.87 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 4 | 0.87 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 9 | 0.87 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 9 | 0.87 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 15 | 0.87 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 15 | 0.87 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 16 | 0.87 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 16 | 0.87 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 9 | 0.87 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 12 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 12 | 0.87 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 14 | 0.87 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 3 | 0.87 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 3 | 0.87 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 2 | 0.87 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 11 | 0.87 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 13 | 0.87 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 17 | 0.87 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 16 | 0.87 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 11 | 0.87 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 6 | 0.87 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 9 | 0.87 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 6 | 0.87 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 17 | 0.87 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 17 | 0.87 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 17 | 0.87 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 10 | 0.87 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 10 | 0.87 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 10 | 0.87 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 19 | 0.87 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 19 | 0.87 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 19 | 0.87 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 19 | 0.87 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 10 | 0.87 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 5 | 0.87 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 5 | 0.87 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 5 | 0.87 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 3 | 0.87 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 3 | 0.87 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 3 | 0.87 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 18 | 0.87 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 5 | 0.87 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 5 | 0.87 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 2 | 0.87 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 2 | 0.87 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 5 | 0.87 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 5 | 0.87 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 20 | 0.87 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 20 | 0.87 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 1 | 0.87 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 9 | 0.87 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 16 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 14 | 0.87 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 14 | 0.87 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 14 | 0.87 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 14 | 0.87 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 14 | 0.87 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 14 | 0.87 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 14 | 0.87 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 14 | 0.87 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 14 | 0.87 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 9 | 0.87 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 14 | 0.87 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 20 | 0.87 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 5 | 0.87 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 13 | 0.87 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 17 | 0.87 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 3 | 0.87 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 2 | 0.87 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 8 | 0.87 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 15 | 0.87 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 16 | 0.87 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 16 | 0.87 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 16 | 0.87 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 6 | 0.87 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 12 | 0.87 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 18 | 0.87 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 18 | 0.87 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 18 | 0.87 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 11 | 0.87 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 11 | 0.87 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 11 | 0.87 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 16 | 0.87 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 16 | 0.87 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 16 | 0.87 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 16 | 0.87 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 6 | 0.87 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 6 | 0.87 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 6 | 0.87 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 6 | 0.87 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 6 | 0.87 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 6 | 0.87 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 6 | 0.87 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 6 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 6 | 0.87 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 7 | 0.87 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 7 | 0.87 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 7 | 0.87 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 1 | 0.87 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 1 | 0.87 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 1 | 0.87 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 6 | 0.87 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 6 | 0.87 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 6 | 0.87 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 10 | 0.87 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 10 | 0.87 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 10 | 0.87 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 3 | 0.87 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 3 | 0.87 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 3 | 0.87 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 11 | 0.87 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 11 | 0.87 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 11 | 0.87 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 8 | 0.87 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 4 | 0.87 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 4 | 0.87 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 4 | 0.87 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 4 | 0.87 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 4 | 0.87 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 4 | 0.87 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 4 | 0.87 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 4 | 0.87 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 4 | 0.87 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 9 | 0.87 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 1 | 0.87 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 1 | 0.87 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 15 | 0.87 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 16 | 0.87 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 11 | 0.87 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 18 | 0.87 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 2 | 0.87 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 1 | 0.87 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 1 | 0.87 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 1 | 0.87 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 1 | 0.87 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 1 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 1 | 0.87 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 5 | 0.87 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 15 | 0.87 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 18 | 0.87 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 16 | 0.87 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 16 | 0.87 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 14 | 0.87 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 14 | 0.87 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 5 | 0.87 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 10 | 0.87 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 18 | 0.87 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 18 | 0.87 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 18 | 0.87 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 2 | 0.87 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 11 | 0.87 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 2 | 0.87 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 2 | 0.87 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 3 | 0.87 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 3 | 0.87 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 18 | 0.87 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 8 | 0.87 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 8 | 0.87 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 8 | 0.87 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 18 | 0.87 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 11 | 0.87 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 11 | 0.87 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 11 | 0.87 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 11 | 0.87 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 18 | 0.87 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 19 | 0.87 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 1 | 0.87 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 10 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 2 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 3 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 5 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 6 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 7 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 9 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 10 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 12 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 14 | 0.87 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 17 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 17 | 0.87 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 1 | 0.87 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 1 | 0.87 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 1 | 0.87 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 17 | 0.87 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 17 | 0.87 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 17 | 0.87 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 8 | 0.87 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 20 | 0.87 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 4 | 0.87 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 1 | 0.87 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 11 | 0.87 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 11 | 0.87 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 11 | 0.87 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 11 | 0.87 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 11 | 0.87 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 11 | 0.87 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 18 | 0.87 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 18 | 0.87 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 18 | 0.87 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 18 | 0.87 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 18 | 0.87 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 18 | 0.87 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 2 | 0.87 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 2 | 0.87 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 2 | 0.87 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 20 | 0.87 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 19 | 0.87 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 19 | 0.87 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 19 | 0.87 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 7 | 0.87 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 7 | 0.87 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 12 | 0.87 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 0.87 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 0.87 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 0.87 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 0.87 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 0.87 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 0.87 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 0.87 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 0.87 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 4 | 0.87 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 4 | 0.87 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 4 | 0.87 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 14 | 0.87 |
| (1,591) | 1:93:A:ILE:HD11 | 1:94:A:GLN:H | 10 | 0.87 |
| (1,591) | 1:93:A:ILE:HD12 | 1:94:A:GLN:H | 10 | 0.87 |
| (1,591) | 1:93:A:ILE:HD13 | 1:94:A:GLN:H | 10 | 0.87 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 7 | 0.87 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 10 | 0.87 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 11 | 0.87 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 3 | 0.87 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 19 | 0.87 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 19 | 0.87 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 19 | 0.87 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 7 | 0.87 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 7 | 0.87 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 7 | 0.87 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 7 | 0.87 |
| (1,483) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 7 | 0.87 |
| (1,483) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 7 | 0.87 |
| (1,483) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 7 | 0.87 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 2 | 0.87 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 2 | 0.87 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 2 | 0.87 |
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 1 | 0.87 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 17 | 0.87 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 11 | 0.87 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 2 | 0.87 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 2 | 0.87 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 2 | 0.87 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 14 | 0.87 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 12 | 0.87 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 12 | 0.87 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 9 | 0.87 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 9 | 0.87 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 9 | 0.87 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 11 | 0.87 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 1 | 0.87 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 13 | 0.87 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 14 | 0.87 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 13 | 0.87 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 13 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 13 | 0.87 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 16 | 0.87 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 16 | 0.87 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 16 | 0.87 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 5 | 0.87 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 5 | 0.87 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 5 | 0.87 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 18 | 0.87 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 5 | 0.87 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 14 | 0.87 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 13 | 0.87 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 15 | 0.87 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 7 | 0.87 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 1 | 0.87 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 2 | 0.87 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 2 | 0.87 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 2 | 0.87 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 11 | 0.87 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 1 | 0.87 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 1 | 0.87 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 1 | 0.87 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 1 | 0.87 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 1 | 0.87 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 1 | 0.87 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 15 | 0.87 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 15 | 0.87 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 15 | 0.87 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 7 | 0.87 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 7 | 0.87 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 7 | 0.87 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 2 | 0.87 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 20 | 0.87 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 20 | 0.87 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 20 | 0.87 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 13 | 0.87 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 13 | 0.87 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 13 | 0.87 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 2 | 0.87 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 2 | 0.87 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 2 | 0.87 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 2 | 0.87 |
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 2 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,53) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 2 | 0.87 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 8 | 0.86 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 1 | 0.86 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 19 | 0.86 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 1 | 0.86 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 11 | 0.86 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 11 | 0.86 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 8 | 0.86 |
| (3,589) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 18 | 0.86 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 8 | 0.86 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 9 | 0.86 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 9 | 0.86 |
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 9 | 0.86 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 16 | 0.86 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 16 | 0.86 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 16 | 0.86 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 13 | 0.86 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 8 | 0.86 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 8 | 0.86 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 19 | 0.86 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 19 | 0.86 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 6 | 0.86 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 6 | 0.86 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 19 | 0.86 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 19 | 0.86 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 19 | 0.86 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 19 | 0.86 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 19 | 0.86 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 19 | 0.86 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 13 | 0.86 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 13 | 0.86 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 13 | 0.86 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 13 | 0.86 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 14 | 0.86 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 14 | 0.86 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 11 | 0.86 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 11 | 0.86 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 11 | 0.86 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 11 | 0.86 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 11 | 0.86 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 11 | 0.86 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 13 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 13 | 0.86 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 13 | 0.86 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 13 | 0.86 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 9 | 0.86 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 9 | 0.86 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 7 | 0.86 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 7 | 0.86 |
| (1,8683) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 18 | 0.86 |
| (1,8683) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 18 | 0.86 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 4 | 0.86 |
| (1,7522) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 7 | 0.86 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 4 | 0.86 |
| (1,7055) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 15 | 0.86 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 12 | 0.86 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 5 | 0.86 |
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 3 | 0.86 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 18 | 0.86 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 13 | 0.86 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 13 | 0.86 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 13 | 0.86 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 13 | 0.86 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 13 | 0.86 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 13 | 0.86 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 8 | 0.86 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 5 | 0.86 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 5 | 0.86 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 5 | 0.86 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 5 | 0.86 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 5 | 0.86 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 5 | 0.86 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 5 | 0.86 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 5 | 0.86 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 5 | 0.86 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 17 | 0.86 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 11 | 0.86 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 15 | 0.86 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 16 | 0.86 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 12 | 0.86 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 12 | 0.86 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 16 | 0.86 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 16 | 0.86 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 16 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 3 | 0.86 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 3 | 0.86 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 3 | 0.86 |
| (1,5125) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 13 | 0.86 |
| (1,5125) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 13 | 0.86 |
| (1,5125) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 13 | 0.86 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 10 | 0.86 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 10 | 0.86 |
| (1,5097) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 10 | 0.86 |
| (1,5008) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 16 | 0.86 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 1 | 0.86 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 1 | 0.86 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 1 | 0.86 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 9 | 0.86 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 9 | 0.86 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 9 | 0.86 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 11 | 0.86 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 2 | 0.86 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 2 | 0.86 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 2 | 0.86 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 2 | 0.86 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 2 | 0.86 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 2 | 0.86 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 2 | 0.86 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 2 | 0.86 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 2 | 0.86 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 12 | 0.86 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 12 | 0.86 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 12 | 0.86 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 12 | 0.86 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 12 | 0.86 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 12 | 0.86 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 12 | 0.86 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 12 | 0.86 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 12 | 0.86 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 6 | 0.86 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 13 | 0.86 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 13 | 0.86 |
| (1,4445) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 19 | 0.86 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 17 | 0.86 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 17 | 0.86 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 18 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 18 | 0.86 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 2 | 0.86 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 8 | 0.86 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 8 | 0.86 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 16 | 0.86 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 9 | 0.86 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 9 | 0.86 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 9 | 0.86 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 9 | 0.86 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 9 | 0.86 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 9 | 0.86 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 6 | 0.86 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 6 | 0.86 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 19 | 0.86 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 19 | 0.86 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 12 | 0.86 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 12 | 0.86 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 12 | 0.86 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 5 | 0.86 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 5 | 0.86 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 5 | 0.86 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 5 | 0.86 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 5 | 0.86 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 5 | 0.86 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 6 | 0.86 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 6 | 0.86 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 16 | 0.86 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 1 | 0.86 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 14 | 0.86 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 13 | 0.86 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 9 | 0.86 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 6 | 0.86 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 18 | 0.86 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 18 | 0.86 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 2 | 0.86 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 2 | 0.86 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 4 | 0.86 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 3 | 0.86 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 3 | 0.86 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 3 | 0.86 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 7 | 0.86 |
| (1,3203) | 1:85:A:ALA:HA | 1:86:A:LEU:H | 8 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 3 | 0.86 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 2 | 0.86 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 15 | 0.86 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 12 | 0.86 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 13 | 0.86 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 1 | 0.86 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 7 | 0.86 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 8 | 0.86 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 8 | 0.86 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 2 | 0.86 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 6 | 0.86 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 6 | 0.86 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 6 | 0.86 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 2 | 0.86 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 2 | 0.86 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 2 | 0.86 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 7 | 0.86 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 7 | 0.86 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 7 | 0.86 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 5 | 0.86 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 5 | 0.86 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 5 | 0.86 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 17 | 0.86 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD11 | 8 | 0.86 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD12 | 8 | 0.86 |
| (1,2853) | 1:28:A:ILE:H | 1:28:A:ILE:HD13 | 8 | 0.86 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 18 | 0.86 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 16 | 0.86 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 18 | 0.86 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 5 | 0.86 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 9 | 0.86 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 9 | 0.86 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD1 | 4 | 0.86 |
| (1,2739) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HD2 | 4 | 0.86 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD1 | 4 | 0.86 |
| (1,2739) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HD2 | 4 | 0.86 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD1 | 4 | 0.86 |
| (1,2739) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HD2 | 4 | 0.86 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 16 | 0.86 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 16 | 0.86 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 16 | 0.86 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 16 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 16 | 0.86 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 16 | 0.86 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 10 | 0.86 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 12 | 0.86 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 8 | 0.86 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 11 | 0.86 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 2 | 0.86 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 2 | 0.86 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 2 | 0.86 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 2 | 0.86 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 2 | 0.86 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 2 | 0.86 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 2 | 0.86 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 2 | 0.86 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 2 | 0.86 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 11 | 0.86 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 20 | 0.86 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 20 | 0.86 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 20 | 0.86 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 7 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 1 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 1 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 1 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 3 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 3 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 3 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 10 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 10 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 10 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 12 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 12 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 12 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 15 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 15 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 15 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 20 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 20 | 0.86 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 20 | 0.86 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 19 | 0.86 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 19 | 0.86 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 19 | 0.86 |
| (1,2341) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 12 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 20 | 0.86 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 17 | 0.86 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 17 | 0.86 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 17 | 0.86 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 2 | 0.86 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 2 | 0.86 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 2 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 6 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 6 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 6 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 6 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 6 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 6 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 6 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 6 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 6 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 17 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 17 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 17 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 17 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 17 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 17 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 17 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 17 | 0.86 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 17 | 0.86 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 20 | 0.86 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 20 | 0.86 |
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 20 | 0.86 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 15 | 0.86 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 15 | 0.86 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 15 | 0.86 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 20 | 0.86 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 20 | 0.86 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 20 | 0.86 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 3 | 0.86 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 3 | 0.86 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 3 | 0.86 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 3 | 0.86 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 3 | 0.86 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 3 | 0.86 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 3 | 0.86 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 3 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 3 | 0.86 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 9 | 0.86 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 9 | 0.86 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 9 | 0.86 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 15 | 0.86 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 15 | 0.86 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 15 | 0.86 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 19 | 0.86 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 19 | 0.86 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 19 | 0.86 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 10 | 0.86 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 13 | 0.86 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 3 | 0.86 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 3 | 0.86 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 3 | 0.86 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 3 | 0.86 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 3 | 0.86 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 3 | 0.86 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 3 | 0.86 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 3 | 0.86 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 3 | 0.86 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 16 | 0.86 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 16 | 0.86 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 16 | 0.86 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 16 | 0.86 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 16 | 0.86 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 16 | 0.86 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 16 | 0.86 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 16 | 0.86 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 16 | 0.86 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 13 | 0.86 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 2 | 0.86 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 2 | 0.86 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 2 | 0.86 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 15 | 0.86 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 15 | 0.86 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 15 | 0.86 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 2 | 0.86 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 8 | 0.86 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 11 | 0.86 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 1 | 0.86 |
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 1 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1531) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 1 | 0.86 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 1 | 0.86 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 1 | 0.86 |
| (1,1531) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 1 | 0.86 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 18 | 0.86 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 14 | 0.86 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 4 | 0.86 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 20 | 0.86 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 20 | 0.86 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 6 | 0.86 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 15 | 0.86 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 18 | 0.86 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 13 | 0.86 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 13 | 0.86 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 16 | 0.86 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 5 | 0.86 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 16 | 0.86 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 20 | 0.86 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 20 | 0.86 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 20 | 0.86 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 1 | 0.86 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 11 | 0.86 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 16 | 0.86 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 18 | 0.86 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 19 | 0.86 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 1 | 0.86 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 2 | 0.86 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 11 | 0.86 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 11 | 0.86 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 11 | 0.86 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 4 | 0.86 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 10 | 0.86 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 12 | 0.86 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 4 | 0.86 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 7 | 0.86 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 9 | 0.86 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 12 | 0.86 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 5 | 0.86 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 20 | 0.86 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 20 | 0.86 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 20 | 0.86 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 5 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 5 | 0.86 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 5 | 0.86 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 17 | 0.86 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 17 | 0.86 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 17 | 0.86 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 6 | 0.86 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 6 | 0.86 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 6 | 0.86 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 16 | 0.86 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 16 | 0.86 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 16 | 0.86 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 11 | 0.86 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 13 | 0.86 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 10 | 0.86 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 10 | 0.86 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 10 | 0.86 |
| (1,501) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 14 | 0.86 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 13 | 0.86 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 13 | 0.86 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 13 | 0.86 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 13 | 0.86 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 13 | 0.86 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 13 | 0.86 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 11 | 0.86 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 11 | 0.86 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 11 | 0.86 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 5 | 0.86 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 5 | 0.86 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 5 | 0.86 |
| (1,357) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 16 | 0.86 |
| (1,357) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 16 | 0.86 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 20 | 0.86 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 15 | 0.86 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 17 | 0.86 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 17 | 0.86 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 17 | 0.86 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 18 | 0.86 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 16 | 0.86 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 13 | 0.86 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 13 | 0.86 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 13 | 0.86 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 7 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 15 | 0.86 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 7 | 0.86 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 7 | 0.86 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 7 | 0.86 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 14 | 0.86 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 14 | 0.86 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 14 | 0.86 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 14 | 0.86 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 14 | 0.86 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 14 | 0.86 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 11 | 0.86 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 20 | 0.86 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 20 | 0.86 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 2 | 0.86 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 16 | 0.86 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 2 | 0.86 |
| (1,193) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 20 | 0.86 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 10 | 0.86 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 18 | 0.86 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 4 | 0.86 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 16 | 0.86 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 2 | 0.86 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 6 | 0.86 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 6 | 0.86 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 6 | 0.86 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 6 | 0.86 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 6 | 0.86 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 6 | 0.86 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 6 | 0.86 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 6 | 0.86 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 6 | 0.86 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 6 | 0.86 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 12 | 0.86 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 12 | 0.86 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 12 | 0.86 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 12 | 0.86 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 12 | 0.86 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 12 | 0.86 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 16 | 0.86 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 18 | 0.85 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 15 | 0.85 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 2 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 2 | 0.85 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 2 | 0.85 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 2 | 0.85 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 7 | 0.85 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 7 | 0.85 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 9 | 0.85 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 9 | 0.85 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 9 | 0.85 |
| (3,662) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 12 | 0.85 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 8 | 0.85 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 8 | 0.85 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 8 | 0.85 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 16 | 0.85 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 11 | 0.85 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 1 | 0.85 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 1 | 0.85 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 1 | 0.85 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 1 | 0.85 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 1 | 0.85 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 1 | 0.85 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 1 | 0.85 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 1 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 5 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 5 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 5 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 5 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 5 | 0.85 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 5 | 0.85 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 4 | 0.85 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 4 | 0.85 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 2 | 0.85 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 2 | 0.85 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 7 | 0.85 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 7 | 0.85 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 13 | 0.85 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 13 | 0.85 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 11 | 0.85 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 11 | 0.85 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 17 | 0.85 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 17 | 0.85 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 17 | 0.85 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 17 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 13 | 0.85 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 13 | 0.85 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 13 | 0.85 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 13 | 0.85 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 2 | 0.85 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 2 | 0.85 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 2 | 0.85 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 9 | 0.85 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 2 | 0.85 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 13 | 0.85 |
| (1,7900) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 8 | 0.85 |
| (1,7900) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 8 | 0.85 |
| (1,7573) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 10 | 0.85 |
| (1,7561) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 17 | 0.85 |
| (1,7561) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 17 | 0.85 |
| (1,7561) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 17 | 0.85 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 5 | 0.85 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 13 | 0.85 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 13 | 0.85 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 14 | 0.85 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 14 | 0.85 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 1 | 0.85 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 4 | 0.85 |
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 13 | 0.85 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 7 | 0.85 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 7 | 0.85 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 3 | 0.85 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 8 | 0.85 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 9 | 0.85 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 2 | 0.85 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 10 | 0.85 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 14 | 0.85 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 3 | 0.85 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 7 | 0.85 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 7 | 0.85 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 7 | 0.85 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 7 | 0.85 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 7 | 0.85 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 7 | 0.85 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 17 | 0.85 |
| (1,6424) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 17 | 0.85 |
| (1,6424) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 17 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6424) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 17 | 0.85 |
| (1,6420) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 16 | 0.85 |
| (1,6420) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 16 | 0.85 |
| (1,6420) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 16 | 0.85 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 13 | 0.85 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 13 | 0.85 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 13 | 0.85 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 1 | 0.85 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 1 | 0.85 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 1 | 0.85 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 4 | 0.85 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 4 | 0.85 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 3 | 0.85 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 3 | 0.85 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 3 | 0.85 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 3 | 0.85 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 3 | 0.85 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 3 | 0.85 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 11 | 0.85 |
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 11 | 0.85 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 5 | 0.85 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 9 | 0.85 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 10 | 0.85 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 10 | 0.85 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 10 | 0.85 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 10 | 0.85 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 10 | 0.85 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 10 | 0.85 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 8 | 0.85 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 8 | 0.85 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 7 | 0.85 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 11 | 0.85 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 8 | 0.85 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 13 | 0.85 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 8 | 0.85 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 8 | 0.85 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 8 | 0.85 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 16 | 0.85 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 3 | 0.85 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 3 | 0.85 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 3 | 0.85 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 16 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 16 | 0.85 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 16 | 0.85 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 12 | 0.85 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 17 | 0.85 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 17 | 0.85 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 17 | 0.85 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 5 | 0.85 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 5 | 0.85 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 8 | 0.85 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 8 | 0.85 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 4 | 0.85 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 4 | 0.85 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 14 | 0.85 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 14 | 0.85 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 13 | 0.85 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 5 | 0.85 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 5 | 0.85 |
| (1,4105) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 5 | 0.85 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 14 | 0.85 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 14 | 0.85 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 12 | 0.85 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 12 | 0.85 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 12 | 0.85 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 12 | 0.85 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 12 | 0.85 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 12 | 0.85 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG21 | 19 | 0.85 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG22 | 19 | 0.85 |
| (1,3995) | 1:80:A:ARG:HB2 | 1:81:A:THR:HG23 | 19 | 0.85 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG21 | 19 | 0.85 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG22 | 19 | 0.85 |
| (1,3995) | 1:80:A:ARG:HB3 | 1:81:A:THR:HG23 | 19 | 0.85 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 10 | 0.85 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 10 | 0.85 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 17 | 0.85 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 17 | 0.85 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 8 | 0.85 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 8 | 0.85 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 16 | 0.85 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 16 | 0.85 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB2 | 5 | 0.85 |
| (1,3495) | 1:3:A:ASP:H | 1:4:A:GLU:HB3 | 5 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 15 | 0.85 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 8 | 0.85 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 8 | 0.85 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 14 | 0.85 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 19 | 0.85 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 12 | 0.85 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 5 | 0.85 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 2 | 0.85 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 3 | 0.85 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 15 | 0.85 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 17 | 0.85 |
| (1,3165) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 17 | 0.85 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 10 | 0.85 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 14 | 0.85 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 17 | 0.85 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 4 | 0.85 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 3 | 0.85 |
| (1,3031) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 13 | 0.85 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 7 | 0.85 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 16 | 0.85 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 16 | 0.85 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 16 | 0.85 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 7 | 0.85 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 20 | 0.85 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 20 | 0.85 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 20 | 0.85 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 20 | 0.85 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 16 | 0.85 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 12 | 0.85 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 12 | 0.85 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 10 | 0.85 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 4 | 0.85 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 17 | 0.85 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 2 | 0.85 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 12 | 0.85 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 12 | 0.85 |
| (1,2495) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 20 | 0.85 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 10 | 0.85 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 14 | 0.85 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 16 | 0.85 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 2 | 0.85 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 7 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 7 | 0.85 |
| (1,2359) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 7 | 0.85 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 5 | 0.85 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 16 | 0.85 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 16 | 0.85 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 16 | 0.85 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 8 | 0.85 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 9 | 0.85 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 10 | 0.85 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 11 | 0.85 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 11 | 0.85 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 11 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 1 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 1 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 1 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 6 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 6 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 6 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 8 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 8 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 8 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 13 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 13 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 13 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 17 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 17 | 0.85 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 17 | 0.85 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 19 | 0.85 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 5 | 0.85 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 13 | 0.85 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 13 | 0.85 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 13 | 0.85 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 14 | 0.85 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 14 | 0.85 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 14 | 0.85 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 13 | 0.85 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 15 | 0.85 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 15 | 0.85 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 1 | 0.85 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 1 | 0.85 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 1 | 0.85 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 16 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 16 | 0.85 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 16 | 0.85 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 2 | 0.85 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 2 | 0.85 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 2 | 0.85 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 1 | 0.85 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 3 | 0.85 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 6 | 0.85 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 7 | 0.85 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 10 | 0.85 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 17 | 0.85 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 9 | 0.85 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 1 | 0.85 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 16 | 0.85 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 5 | 0.85 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 9 | 0.85 |
| (1,1369) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 14 | 0.85 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 5 | 0.85 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 5 | 0.85 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 5 | 0.85 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 5 | 0.85 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 5 | 0.85 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 5 | 0.85 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 1 | 0.85 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 1 | 0.85 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 1 | 0.85 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 1 | 0.85 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 1 | 0.85 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 1 | 0.85 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 1 | 0.85 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 1 | 0.85 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 1 | 0.85 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 20 | 0.85 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 20 | 0.85 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 20 | 0.85 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 17 | 0.85 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 5 | 0.85 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 19 | 0.85 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 19 | 0.85 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 19 | 0.85 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 4 | 0.85 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 8 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 13 | 0.85 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 15 | 0.85 |
| (1,997) | 1:107:A:ALA:HA | 1:108:A:SER:H | 20 | 0.85 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 18 | 0.85 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 2 | 0.85 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 5 | 0.85 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 7 | 0.85 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 18 | 0.85 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 0.85 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 15 | 0.85 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 18 | 0.85 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 18 | 0.85 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 18 | 0.85 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 13 | 0.85 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 11 | 0.85 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 19 | 0.85 |
| (1,637) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 0.85 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 15 | 0.85 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 15 | 0.85 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 15 | 0.85 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 1 | 0.85 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 6 | 0.85 |
| (1,587) | 1:93:A:ILE:H | 1:93:A:ILE:HG13 | 14 | 0.85 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 3 | 0.85 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 4 | 0.85 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 6 | 0.85 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 7 | 0.85 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 15 | 0.85 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 16 | 0.85 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 18 | 0.85 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 19 | 0.85 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 20 | 0.85 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 4 | 0.85 |
| (1,470) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 5 | 0.85 |
| (1,470) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 5 | 0.85 |
| (1,470) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 5 | 0.85 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 2 | 0.85 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 2 | 0.85 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 2 | 0.85 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 2 | 0.85 |
| (1,454) | 1:88:A:LEU:HA | 1:89:A:ILE:H | 14 | 0.85 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 10 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 11 | 0.85 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 11 | 0.85 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 8 | 0.85 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 8 | 0.85 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 8 | 0.85 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 8 | 0.85 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 8 | 0.85 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 8 | 0.85 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 10 | 0.85 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 4 | 0.85 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 4 | 0.85 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 4 | 0.85 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 16 | 0.85 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 16 | 0.85 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 20 | 0.85 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 20 | 0.85 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 20 | 0.85 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 20 | 0.85 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 20 | 0.85 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 7 | 0.85 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 12 | 0.85 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 12 | 0.85 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 12 | 0.85 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 2 | 0.85 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 2 | 0.85 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 2 | 0.85 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 12 | 0.85 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 12 | 0.85 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 12 | 0.85 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 8 | 0.85 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 8 | 0.85 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 8 | 0.85 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 6 | 0.85 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 18 | 0.85 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 4 | 0.85 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 10 | 0.85 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 2 | 0.85 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 19 | 0.85 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 19 | 0.85 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 19 | 0.85 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 2 | 0.85 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 2 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 2 | 0.85 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 10 | 0.85 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 12 | 0.85 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 11 | 0.85 |
| (4,216) | 1:131:A:GLN:CB | 1:45:A:GLY:H | 7 | 0.84 |
| (4,24) | 1:15:A:MET:CB | 1:74:A:ARG:H | 14 | 0.84 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 8 | 0.84 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 8 | 0.84 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 20 | 0.84 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 20 | 0.84 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 20 | 0.84 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 20 | 0.84 |
| (3,855) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 5 | 0.84 |
| (3,855) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 5 | 0.84 |
| (3,734) | 1:152:A:THR:H | 1:157:A:HIS:H | 15 | 0.84 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 20 | 0.84 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 20 | 0.84 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 20 | 0.84 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 17 | 0.84 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 18 | 0.84 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 18 | 0.84 |
| (3,335) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 17 | 0.84 |
| (3,335) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 17 | 0.84 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 8 | 0.84 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 18 | 0.84 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 18 | 0.84 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 4 | 0.84 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 4 | 0.84 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 4 | 0.84 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 4 | 0.84 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 4 | 0.84 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 4 | 0.84 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 12 | 0.84 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 12 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 9 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 9 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 9 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 9 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 9 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 9 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 15 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 15 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 15 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 15 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 15 | 0.84 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 15 | 0.84 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 5 | 0.84 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 5 | 0.84 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 5 | 0.84 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 5 | 0.84 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 5 | 0.84 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 5 | 0.84 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 8 | 0.84 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 8 | 0.84 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 8 | 0.84 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 8 | 0.84 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 10 | 0.84 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 10 | 0.84 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 17 | 0.84 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 17 | 0.84 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 16 | 0.84 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 16 | 0.84 |
| (1,8521) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 12 | 0.84 |
| (1,8521) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 12 | 0.84 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 5 | 0.84 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 5 | 0.84 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 5 | 0.84 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 12 | 0.84 |
| (1,8280) | 1:125:A:PHE:HB2 | 1:138:A:SER:H | 7 | 0.84 |
| (1,8280) | 1:125:A:PHE:HB3 | 1:138:A:SER:H | 7 | 0.84 |
| (1,8254) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 9 | 0.84 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 9 | 0.84 |
| (1,7883) | 1:65:A:SER:H | 1:81:A:THR:H | 10 | 0.84 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 7 | 0.84 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 18 | 0.84 |
| (1,7235) | 1:27:A:HIS:H | 1:29:A:THR:H | 7 | 0.84 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 20 | 0.84 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 20 | 0.84 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 20 | 0.84 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 20 | 0.84 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 20 | 0.84 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 20 | 0.84 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 9 | 0.84 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 9 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 9 | 0.84 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 11 | 0.84 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 11 | 0.84 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 11 | 0.84 |
| (1,7055) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 0.84 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 6 | 0.84 |
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 19 | 0.84 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 9 | 0.84 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 17 | 0.84 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 17 | 0.84 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 13 | 0.84 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 11 | 0.84 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 4 | 0.84 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 3 | 0.84 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 7 | 0.84 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 1 | 0.84 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 1 | 0.84 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 1 | 0.84 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 1 | 0.84 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 13 | 0.84 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 13 | 0.84 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 13 | 0.84 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 15 | 0.84 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 17 | 0.84 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 17 | 0.84 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 17 | 0.84 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 17 | 0.84 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 17 | 0.84 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 17 | 0.84 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 17 | 0.84 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 17 | 0.84 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 17 | 0.84 |
| (1,6020) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 9 | 0.84 |
| (1,6020) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 9 | 0.84 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 20 | 0.84 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 20 | 0.84 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 20 | 0.84 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 20 | 0.84 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 20 | 0.84 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 20 | 0.84 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 6 | 0.84 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 15 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 9 | 0.84 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 9 | 0.84 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 9 | 0.84 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 9 | 0.84 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 2 | 0.84 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 2 | 0.84 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 2 | 0.84 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 2 | 0.84 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 2 | 0.84 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 2 | 0.84 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 9 | 0.84 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 5 | 0.84 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 5 | 0.84 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 5 | 0.84 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 7 | 0.84 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 4 | 0.84 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 4 | 0.84 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 4 | 0.84 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 8 | 0.84 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 8 | 0.84 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 8 | 0.84 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 8 | 0.84 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 4 | 0.84 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 9 | 0.84 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 9 | 0.84 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 9 | 0.84 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 9 | 0.84 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 9 | 0.84 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 9 | 0.84 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 9 | 0.84 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 9 | 0.84 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 9 | 0.84 |
| (1,4869) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 3 | 0.84 |
| (1,4869) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 3 | 0.84 |
| (1,4869) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 3 | 0.84 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 8 | 0.84 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 8 | 0.84 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 14 | 0.84 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 14 | 0.84 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 14 | 0.84 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 11 | 0.84 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 11 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 16 | 0.84 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 16 | 0.84 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 2 | 0.84 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 2 | 0.84 |
| (1,4245) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 5 | 0.84 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 3 | 0.84 |
| (1,4225) | 1:98:A:SER:H | 1:99:A:GLY:HA3 | 3 | 0.84 |
| (1,4155) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 16 | 0.84 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 2 | 0.84 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 2 | 0.84 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA2 | 4 | 0.84 |
| (1,4147) | 1:93:A:ILE:HD11 | 1:148:A:GLY:HA3 | 4 | 0.84 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA2 | 4 | 0.84 |
| (1,4147) | 1:93:A:ILE:HD12 | 1:148:A:GLY:HA3 | 4 | 0.84 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA2 | 4 | 0.84 |
| (1,4147) | 1:93:A:ILE:HD13 | 1:148:A:GLY:HA3 | 4 | 0.84 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 5 | 0.84 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 5 | 0.84 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 13 | 0.84 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 13 | 0.84 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 9 | 0.84 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 9 | 0.84 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 11 | 0.84 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 11 | 0.84 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 9 | 0.84 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 4 | 0.84 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 4 | 0.84 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 2 | 0.84 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 2 | 0.84 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 2 | 0.84 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 2 | 0.84 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 2 | 0.84 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 2 | 0.84 |
| (1,3733) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 14 | 0.84 |
| (1,3733) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 14 | 0.84 |
| (1,3733) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 14 | 0.84 |
| (1,3685) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 1 | 0.84 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 4 | 0.84 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 4 | 0.84 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 4 | 0.84 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 4 | 0.84 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 4 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 4 | 0.84 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 18 | 0.84 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 18 | 0.84 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 18 | 0.84 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 18 | 0.84 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 18 | 0.84 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 18 | 0.84 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 17 | 0.84 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 17 | 0.84 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 13 | 0.84 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 13 | 0.84 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 4 | 0.84 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 4 | 0.84 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 4 | 0.84 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 12 | 0.84 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 12 | 0.84 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 12 | 0.84 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 12 | 0.84 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 12 | 0.84 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 12 | 0.84 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 12 | 0.84 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 12 | 0.84 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 12 | 0.84 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 8 | 0.84 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 7 | 0.84 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 6 | 0.84 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 6 | 0.84 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 8 | 0.84 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 8 | 0.84 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 8 | 0.84 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 1 | 0.84 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 8 | 0.84 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 6 | 0.84 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 8 | 0.84 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 12 | 0.84 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 17 | 0.84 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 2 | 0.84 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 5 | 0.84 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 7 | 0.84 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 9 | 0.84 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 17 | 0.84 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 17 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 17 | 0.84 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 17 | 0.84 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 6 | 0.84 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 6 | 0.84 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 10 | 0.84 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 10 | 0.84 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 10 | 0.84 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 13 | 0.84 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 11 | 0.84 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 12 | 0.84 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 12 | 0.84 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 12 | 0.84 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 4 | 0.84 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 3 | 0.84 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 7 | 0.84 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 4 | 0.84 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 3 | 0.84 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 11 | 0.84 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 11 | 0.84 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 11 | 0.84 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 1 | 0.84 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 1 | 0.84 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 11 | 0.84 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 11 | 0.84 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 11 | 0.84 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 2 | 0.84 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 2 | 0.84 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 9 | 0.84 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 9 | 0.84 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 9 | 0.84 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 9 | 0.84 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 9 | 0.84 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 9 | 0.84 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 9 | 0.84 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 9 | 0.84 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 9 | 0.84 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 4 | 0.84 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 14 | 0.84 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 14 | 0.84 |
| (1,1887) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 14 | 0.84 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 16 | 0.84 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 16 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 16 | 0.84 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 3 | 0.84 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 3 | 0.84 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 3 | 0.84 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 8 | 0.84 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 3 | 0.84 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 6 | 0.84 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 18 | 0.84 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 20 | 0.84 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 5 | 0.84 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 5 | 0.84 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 5 | 0.84 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 5 | 0.84 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 2 | 0.84 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 2 | 0.84 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 12 | 0.84 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 13 | 0.84 |
| (1,1489) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 16 | 0.84 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 6 | 0.84 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 3 | 0.84 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 10 | 0.84 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 9 | 0.84 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 15 | 0.84 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 15 | 0.84 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 12 | 0.84 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 1 | 0.84 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 1 | 0.84 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 1 | 0.84 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 4 | 0.84 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 4 | 0.84 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 4 | 0.84 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 1 | 0.84 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 9 | 0.84 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 4 | 0.84 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 7 | 0.84 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 7 | 0.84 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 7 | 0.84 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 15 | 0.84 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 15 | 0.84 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 15 | 0.84 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 10 | 0.84 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 10 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 10 | 0.84 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 14 | 0.84 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 14 | 0.84 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 14 | 0.84 |
| (1,957) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 19 | 0.84 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 6 | 0.84 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 19 | 0.84 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 12 | 0.84 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 6 | 0.84 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 11 | 0.84 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 17 | 0.84 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 9 | 0.84 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 11 | 0.84 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 16 | 0.84 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 15 | 0.84 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 15 | 0.84 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 15 | 0.84 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 15 | 0.84 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 15 | 0.84 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 15 | 0.84 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 14 | 0.84 |
| (1,819) | 1:101:A:GLU:H | 1:102:A:ASP:H | 12 | 0.84 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 11 | 0.84 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 11 | 0.84 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 18 | 0.84 |
| (1,773) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 18 | 0.84 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 7 | 0.84 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 9 | 0.84 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 13 | 0.84 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 8 | 0.84 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 8 | 0.84 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 8 | 0.84 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 5 | 0.84 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 5 | 0.84 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 7 | 0.84 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 14 | 0.84 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 2 | 0.84 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 2 | 0.84 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 2 | 0.84 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 11 | 0.84 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 11 | 0.84 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 11 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 1 | 0.84 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 11 | 0.84 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 14 | 0.84 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 17 | 0.84 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 8 | 0.84 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 5 | 0.84 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 7 | 0.84 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 7 | 0.84 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 7 | 0.84 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 18 | 0.84 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 3 | 0.84 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 3 | 0.84 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 3 | 0.84 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 13 | 0.84 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 13 | 0.84 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 13 | 0.84 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 19 | 0.84 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 19 | 0.84 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 19 | 0.84 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 8 | 0.84 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 1 | 0.84 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 13 | 0.84 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 13 | 0.84 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 13 | 0.84 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 8 | 0.84 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 4 | 0.84 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 6 | 0.84 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 18 | 0.84 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 7 | 0.84 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 18 | 0.84 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 8 | 0.84 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 5 | 0.84 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 5 | 0.84 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 5 | 0.84 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 16 | 0.84 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 19 | 0.84 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 4 | 0.84 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 2 | 0.84 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 2 | 0.84 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 11 | 0.84 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 11 | 0.84 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 11 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 11 | 0.84 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 11 | 0.84 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 11 | 0.84 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 11 | 0.84 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 11 | 0.84 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 11 | 0.84 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 11 | 0.84 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 18 | 0.84 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 18 | 0.84 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 18 | 0.84 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 7 | 0.84 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 18 | 0.84 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 6 | 0.84 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 6 | 0.84 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 6 | 0.84 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 5 | 0.84 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 2 | 0.83 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 18 | 0.83 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 18 | 0.83 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 18 | 0.83 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 18 | 0.83 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 18 | 0.83 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 18 | 0.83 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 18 | 0.83 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 18 | 0.83 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 18 | 0.83 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 13 | 0.83 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 13 | 0.83 |
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 13 | 0.83 |
| (3,386) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 1 | 0.83 |
| (3,386) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 8 | 0.83 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 18 | 0.83 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 10 | 0.83 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 10 | 0.83 |
| (3,129) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 4 | 0.83 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 5 | 0.83 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 5 | 0.83 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 5 | 0.83 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 10 | 0.83 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 10 | 0.83 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 10 | 0.83 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 10 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 10 | 0.83 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 10 | 0.83 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 10 | 0.83 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 10 | 0.83 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 10 | 0.83 |
| (1,9600) | 1:157:A:HIS:H | 1:158:A:ILE:HG12 | 13 | 0.83 |
| (1,9600) | 1:157:A:HIS:H | 1:158:A:ILE:HG13 | 13 | 0.83 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 13 | 0.83 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 13 | 0.83 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 12 | 0.83 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 12 | 0.83 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 19 | 0.83 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 19 | 0.83 |
| (1,8521) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 4 | 0.83 |
| (1,8521) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 4 | 0.83 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 18 | 0.83 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 5 | 0.83 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 5 | 0.83 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 6 | 0.83 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 6 | 0.83 |
| (1,7600) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 17 | 0.83 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 13 | 0.83 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 20 | 0.83 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 15 | 0.83 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 13 | 0.83 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 13 | 0.83 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 13 | 0.83 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 17 | 0.83 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 17 | 0.83 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 17 | 0.83 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 2 | 0.83 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 19 | 0.83 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 3 | 0.83 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 3 | 0.83 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 3 | 0.83 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 6 | 0.83 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 19 | 0.83 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 9 | 0.83 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 10 | 0.83 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 10 | 0.83 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 10 | 0.83 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 9 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 19 | 0.83 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 3 | 0.83 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 8 | 0.83 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 9 | 0.83 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 9 | 0.83 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 9 | 0.83 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 19 | 0.83 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 1 | 0.83 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 1 | 0.83 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 1 | 0.83 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 9 | 0.83 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 11 | 0.83 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 5 | 0.83 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 20 | 0.83 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 13 | 0.83 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 8 | 0.83 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 8 | 0.83 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 8 | 0.83 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 11 | 0.83 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 11 | 0.83 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 11 | 0.83 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 3 | 0.83 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 3 | 0.83 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 3 | 0.83 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 20 | 0.83 |
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 20 | 0.83 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 10 | 0.83 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 10 | 0.83 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 10 | 0.83 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 10 | 0.83 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 5 | 0.83 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 5 | 0.83 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 5 | 0.83 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 7 | 0.83 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 7 | 0.83 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 7 | 0.83 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 2 | 0.83 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 2 | 0.83 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 11 | 0.83 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 17 | 0.83 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 17 | 0.83 |
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 15 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4023) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 15 | 0.83 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 15 | 0.83 |
| (1,4023) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 15 | 0.83 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 15 | 0.83 |
| (1,4023) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 15 | 0.83 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 2 | 0.83 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 2 | 0.83 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 4 | 0.83 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 4 | 0.83 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 4 | 0.83 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 6 | 0.83 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 6 | 0.83 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 6 | 0.83 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 6 | 0.83 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 11 | 0.83 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 11 | 0.83 |
| (1,3569) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 15 | 0.83 |
| (1,3569) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 15 | 0.83 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 12 | 0.83 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 11 | 0.83 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 10 | 0.83 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 10 | 0.83 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 10 | 0.83 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 3 | 0.83 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 9 | 0.83 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 14 | 0.83 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 14 | 0.83 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 14 | 0.83 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 20 | 0.83 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 20 | 0.83 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 20 | 0.83 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 15 | 0.83 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 12 | 0.83 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 19 | 0.83 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 7 | 0.83 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 12 | 0.83 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 12 | 0.83 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 13 | 0.83 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 16 | 0.83 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 19 | 0.83 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 17 | 0.83 |
| (1,2651) | 1:21:A:ARG:H | 1:22:A:VAL:H | 15 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 2 | 0.83 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 2 | 0.83 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 2 | 0.83 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 3 | 0.83 |
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 10 | 0.83 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 19 | 0.83 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 2 | 0.83 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 5 | 0.83 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 5 | 0.83 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 1 | 0.83 |
| (1,2195) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 3 | 0.83 |
| (1,2195) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 3 | 0.83 |
| (1,2195) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 3 | 0.83 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 10 | 0.83 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 17 | 0.83 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 17 | 0.83 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 17 | 0.83 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 13 | 0.83 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 13 | 0.83 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 13 | 0.83 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 20 | 0.83 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 20 | 0.83 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 20 | 0.83 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 17 | 0.83 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 17 | 0.83 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 17 | 0.83 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 12 | 0.83 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 4 | 0.83 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 4 | 0.83 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 5 | 0.83 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 5 | 0.83 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 9 | 0.83 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 9 | 0.83 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 9 | 0.83 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 14 | 0.83 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 14 | 0.83 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 14 | 0.83 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 1 | 0.83 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 1 | 0.83 |
| (1,1907) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 1 | 0.83 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 1 | 0.83 |
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 1 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1907) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 1 | 0.83 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 1 | 0.83 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 1 | 0.83 |
| (1,1907) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 1 | 0.83 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 17 | 0.83 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 17 | 0.83 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 17 | 0.83 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 9 | 0.83 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 15 | 0.83 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 15 | 0.83 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 15 | 0.83 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 17 | 0.83 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 17 | 0.83 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 17 | 0.83 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 2 | 0.83 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 5 | 0.83 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 5 | 0.83 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 5 | 0.83 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 10 | 0.83 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 10 | 0.83 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 10 | 0.83 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 8 | 0.83 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 8 | 0.83 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 8 | 0.83 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 18 | 0.83 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 18 | 0.83 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 18 | 0.83 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 9 | 0.83 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 12 | 0.83 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 6 | 0.83 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 6 | 0.83 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 6 | 0.83 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 6 | 0.83 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 6 | 0.83 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 6 | 0.83 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 6 | 0.83 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 6 | 0.83 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 6 | 0.83 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 7 | 0.83 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 9 | 0.83 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 6 | 0.83 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 6 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 6 | 0.83 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 9 | 0.83 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 13 | 0.83 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 20 | 0.83 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 10 | 0.83 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 10 | 0.83 |
| (1,1465) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 10 | 0.83 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 7 | 0.83 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 2 | 0.83 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 19 | 0.83 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 7 | 0.83 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 7 | 0.83 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 7 | 0.83 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 7 | 0.83 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 7 | 0.83 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 7 | 0.83 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 7 | 0.83 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 7 | 0.83 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 7 | 0.83 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 6 | 0.83 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 6 | 0.83 |
| (1,1297) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 6 | 0.83 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 8 | 0.83 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 4 | 0.83 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 4 | 0.83 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 4 | 0.83 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 5 | 0.83 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 5 | 0.83 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 3 | 0.83 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 8 | 0.83 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 19 | 0.83 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 10 | 0.83 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 13 | 0.83 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 13 | 0.83 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 1 | 0.83 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 10 | 0.83 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 4 | 0.83 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 3 | 0.83 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 5 | 0.83 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 13 | 0.83 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 18 | 0.83 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 14 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 14 | 0.83 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 14 | 0.83 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 2 | 0.83 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 19 | 0.83 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 7 | 0.83 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 7 | 0.83 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 7 | 0.83 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 7 | 0.83 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 7 | 0.83 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 7 | 0.83 |
| (1,763) | 1:98:A:SER:H | 1:99:A:GLY:HA2 | 3 | 0.83 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 12 | 0.83 |
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 9 | 0.83 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 12 | 0.83 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 12 | 0.83 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 12 | 0.83 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 5 | 0.83 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 1 | 0.83 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 1 | 0.83 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 1 | 0.83 |
| (1,699) | 1:96:A:ILE:H | 1:96:A:ILE:HG12 | 11 | 0.83 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 1 | 0.83 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 1 | 0.83 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 1 | 0.83 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 13 | 0.83 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 7 | 0.83 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 1 | 0.83 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 1 | 0.83 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 1 | 0.83 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 10 | 0.83 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 13 | 0.83 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 4 | 0.83 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 4 | 0.83 |
| (1,488) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 4 | 0.83 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 14 | 0.83 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 14 | 0.83 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 14 | 0.83 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 6 | 0.83 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 6 | 0.83 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 6 | 0.83 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 19 | 0.83 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 19 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 19 | 0.83 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 19 | 0.83 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 19 | 0.83 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 19 | 0.83 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 6 | 0.83 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 6 | 0.83 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 6 | 0.83 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 5 | 0.83 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 5 | 0.83 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 5 | 0.83 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 1 | 0.83 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 7 | 0.83 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 15 | 0.83 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 5 | 0.83 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 5 | 0.83 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 6 | 0.83 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 3 | 0.83 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 1 | 0.83 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 7 | 0.83 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 15 | 0.83 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 20 | 0.83 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 5 | 0.83 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 15 | 0.83 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 8 | 0.83 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 8 | 0.83 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 8 | 0.83 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 8 | 0.83 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 8 | 0.83 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 8 | 0.83 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 7 | 0.83 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 7 | 0.83 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 7 | 0.83 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 3 | 0.83 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 20 | 0.83 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 20 | 0.83 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 20 | 0.83 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 12 | 0.82 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 2 | 0.82 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 8 | 0.82 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 5 | 0.82 |
| (3,947) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB2 | 9 | 0.82 |
| (3,947) | 1:94:A:GLN:HE21 | 1:98:A:SER:HB3 | 9 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,947) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB2 | 9 | 0.82 |
| (3,947) | 1:94:A:GLN:HE22 | 1:98:A:SER:HB3 | 9 | 0.82 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 13 | 0.82 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 13 | 0.82 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 20 | 0.82 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 20 | 0.82 |
| (3,666) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 5 | 0.82 |
| (3,666) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 5 | 0.82 |
| (3,666) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 5 | 0.82 |
| (3,666) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 5 | 0.82 |
| (3,666) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 5 | 0.82 |
| (3,666) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 5 | 0.82 |
| (3,648) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 20 | 0.82 |
| (3,648) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 20 | 0.82 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 5 | 0.82 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 5 | 0.82 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 5 | 0.82 |
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 14 | 0.82 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 14 | 0.82 |
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 14 | 0.82 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 20 | 0.82 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 20 | 0.82 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 20 | 0.82 |
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 20 | 0.82 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 20 | 0.82 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 12 | 0.82 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 12 | 0.82 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 4 | 0.82 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 4 | 0.82 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 4 | 0.82 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 4 | 0.82 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 4 | 0.82 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 4 | 0.82 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 4 | 0.82 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 4 | 0.82 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 18 | 0.82 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 18 | 0.82 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 10 | 0.82 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 10 | 0.82 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 5 | 0.82 |
| (1,8124) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 16 | 0.82 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 5 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 3 | 0.82 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 17 | 0.82 |
| (1,7406) | 1:6:A:LYS:HA | 1:7:A:LEU:HG | 10 | 0.82 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 9 | 0.82 |
| (1,7247) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 1 | 0.82 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 2 | 0.82 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 2 | 0.82 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 2 | 0.82 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 12 | 0.82 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 9 | 0.82 |
| (1,7023) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 19 | 0.82 |
| (1,7023) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 19 | 0.82 |
| (1,7023) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 19 | 0.82 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 14 | 0.82 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 15 | 0.82 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 5 | 0.82 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 19 | 0.82 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 20 | 0.82 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 19 | 0.82 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 14 | 0.82 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 14 | 0.82 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 14 | 0.82 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 14 | 0.82 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 14 | 0.82 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 14 | 0.82 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 18 | 0.82 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 3 | 0.82 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 20 | 0.82 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 20 | 0.82 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 14 | 0.82 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 14 | 0.82 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 14 | 0.82 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 20 | 0.82 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 6 | 0.82 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 13 | 0.82 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 15 | 0.82 |
| (1,5797) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 4 | 0.82 |
| (1,5797) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 4 | 0.82 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 11 | 0.82 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 20 | 0.82 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 13 | 0.82 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 13 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 13 | 0.82 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 6 | 0.82 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 2 | 0.82 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 2 | 0.82 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 2 | 0.82 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 2 | 0.82 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 2 | 0.82 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 2 | 0.82 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 2 | 0.82 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 2 | 0.82 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 2 | 0.82 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 4 | 0.82 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 13 | 0.82 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 10 | 0.82 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 10 | 0.82 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 2 | 0.82 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 3 | 0.82 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 3 | 0.82 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 3 | 0.82 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 18 | 0.82 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 18 | 0.82 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB2 | 19 | 0.82 |
| (1,4443) | 1:131:A:GLN:HA | 1:132:A:LYS:HB3 | 19 | 0.82 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 13 | 0.82 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 13 | 0.82 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 1 | 0.82 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 1 | 0.82 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 8 | 0.82 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 8 | 0.82 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 9 | 0.82 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 9 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 2 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 2 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 2 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 2 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 2 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 2 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 10 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 10 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 10 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 10 | 0.82 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 10 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 10 | 0.82 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 10 | 0.82 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 10 | 0.82 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 10 | 0.82 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 10 | 0.82 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 10 | 0.82 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 10 | 0.82 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 1 | 0.82 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 1 | 0.82 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 17 | 0.82 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 17 | 0.82 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 5 | 0.82 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 5 | 0.82 |
| (1,3893) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 9 | 0.82 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 1 | 0.82 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 1 | 0.82 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG12 | 6 | 0.82 |
| (1,3823) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HG13 | 6 | 0.82 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG12 | 6 | 0.82 |
| (1,3823) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HG13 | 6 | 0.82 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG12 | 6 | 0.82 |
| (1,3823) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HG13 | 6 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 9 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 9 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 9 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 9 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 9 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 9 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 14 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 14 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 14 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 14 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 14 | 0.82 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 14 | 0.82 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 7 | 0.82 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 7 | 0.82 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 11 | 0.82 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 11 | 0.82 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 16 | 0.82 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 16 | 0.82 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 7 | 0.82 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 7 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 3 | 0.82 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 3 | 0.82 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 3 | 0.82 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 3 | 0.82 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 3 | 0.82 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 3 | 0.82 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 9 | 0.82 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 9 | 0.82 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 8 | 0.82 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 9 | 0.82 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 5 | 0.82 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 6 | 0.82 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 6 | 0.82 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 1 | 0.82 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 6 | 0.82 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 14 | 0.82 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 19 | 0.82 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 12 | 0.82 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 20 | 0.82 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 16 | 0.82 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 15 | 0.82 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 13 | 0.82 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 19 | 0.82 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 17 | 0.82 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 13 | 0.82 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 14 | 0.82 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 12 | 0.82 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 8 | 0.82 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 8 | 0.82 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 12 | 0.82 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 12 | 0.82 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 1 | 0.82 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 1 | 0.82 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 1 | 0.82 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 5 | 0.82 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 8 | 0.82 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 7 | 0.82 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 7 | 0.82 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 7 | 0.82 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 9 | 0.82 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 9 | 0.82 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 19 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 17 | 0.82 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 11 | 0.82 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 11 | 0.82 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 11 | 0.82 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 5 | 0.82 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 18 | 0.82 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 5 | 0.82 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 6 | 0.82 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 12 | 0.82 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 17 | 0.82 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 18 | 0.82 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 4 | 0.82 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 4 | 0.82 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 4 | 0.82 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 6 | 0.82 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 6 | 0.82 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 6 | 0.82 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 5 | 0.82 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 5 | 0.82 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 5 | 0.82 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 19 | 0.82 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 19 | 0.82 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 19 | 0.82 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 19 | 0.82 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 19 | 0.82 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 19 | 0.82 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 19 | 0.82 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 19 | 0.82 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 19 | 0.82 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 20 | 0.82 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 20 | 0.82 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 18 | 0.82 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 18 | 0.82 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 18 | 0.82 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 8 | 0.82 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 12 | 0.82 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 15 | 0.82 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 20 | 0.82 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 9 | 0.82 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 9 | 0.82 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 9 | 0.82 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 3 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 11 | 0.82 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 11 | 0.82 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 11 | 0.82 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 11 | 0.82 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 11 | 0.82 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 11 | 0.82 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 11 | 0.82 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 11 | 0.82 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 11 | 0.82 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 1 | 0.82 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 11 | 0.82 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 9 | 0.82 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 11 | 0.82 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 11 | 0.82 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 11 | 0.82 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 12 | 0.82 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 12 | 0.82 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 12 | 0.82 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 19 | 0.82 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 19 | 0.82 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 19 | 0.82 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 8 | 0.82 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 8 | 0.82 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 19 | 0.82 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 19 | 0.82 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 2 | 0.82 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 14 | 0.82 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 14 | 0.82 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 14 | 0.82 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 9 | 0.82 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 2 | 0.82 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 5 | 0.82 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 8 | 0.82 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 11 | 0.82 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 15 | 0.82 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 18 | 0.82 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 12 | 0.82 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 10 | 0.82 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 20 | 0.82 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 17 | 0.82 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 15 | 0.82 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 18 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 18 | 0.82 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 18 | 0.82 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 4 | 0.82 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 4 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 2 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 2 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 2 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 3 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 3 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 3 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 7 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 7 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 7 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 12 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 12 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 12 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 13 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 13 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 13 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 15 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 15 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 15 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 18 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 18 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 18 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 20 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 20 | 0.82 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 20 | 0.82 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 11 | 0.82 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 11 | 0.82 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 7 | 0.82 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 11 | 0.82 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 17 | 0.82 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 17 | 0.82 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 17 | 0.82 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 16 | 0.82 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 6 | 0.82 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 11 | 0.82 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 20 | 0.82 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 6 | 0.82 |
| (1,845) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 13 | 0.82 |
| (1,845) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 13 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,845) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 13 | 0.82 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 9 | 0.82 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 14 | 0.82 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 13 | 0.82 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 13 | 0.82 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 13 | 0.82 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 13 | 0.82 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 1 | 0.82 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 15 | 0.82 |
| (1,613) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 13 | 0.82 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 2 | 0.82 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 5 | 0.82 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 8 | 0.82 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 9 | 0.82 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 11 | 0.82 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 2 | 0.82 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 6 | 0.82 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 6 | 0.82 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 6 | 0.82 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 8 | 0.82 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 8 | 0.82 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 8 | 0.82 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 3 | 0.82 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 15 | 0.82 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 15 | 0.82 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 15 | 0.82 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 19 | 0.82 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 19 | 0.82 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 19 | 0.82 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 6 | 0.82 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 6 | 0.82 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 6 | 0.82 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 6 | 0.82 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 6 | 0.82 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 6 | 0.82 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 15 | 0.82 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 15 | 0.82 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 15 | 0.82 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 1 | 0.82 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 14 | 0.82 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 15 | 0.82 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 15 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 15 | 0.82 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 3 | 0.82 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 2 | 0.82 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 3 | 0.82 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 6 | 0.82 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 6 | 0.82 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 6 | 0.82 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 2 | 0.82 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 13 | 0.82 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 15 | 0.82 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 6 | 0.82 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 17 | 0.82 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 17 | 0.82 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 20 | 0.82 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 7 | 0.82 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 12 | 0.82 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 3 | 0.82 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 15 | 0.82 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 14 | 0.82 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 13 | 0.82 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 13 | 0.82 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 2 | 0.82 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 2 | 0.82 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 2 | 0.82 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 2 | 0.82 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 5 | 0.82 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 5 | 0.82 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 5 | 0.82 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 5 | 0.82 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 4 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 4 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 4 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 4 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 17 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 17 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 17 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 17 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 20 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 20 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 20 | 0.81 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 20 | 0.81 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 6 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 6 | 0.81 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 14 | 0.81 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 14 | 0.81 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 14 | 0.81 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 12 | 0.81 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 12 | 0.81 |
| (3,662) | 1:135:A:GLU:H | 1:139:A:PHE:HZ | 3 | 0.81 |
| (3,611) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 5 | 0.81 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 13 | 0.81 |
| (3,388) | 1:60:A:LEU:HG | 1:111:A:SER:H | 4 | 0.81 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 1 | 0.81 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 7 | 0.81 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 7 | 0.81 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 4 | 0.81 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 14 | 0.81 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 14 | 0.81 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 14 | 0.81 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 13 | 0.81 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 13 | 0.81 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 18 | 0.81 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 18 | 0.81 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 18 | 0.81 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 18 | 0.81 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 6 | 0.81 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 6 | 0.81 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 9 | 0.81 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 9 | 0.81 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 9 | 0.81 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 9 | 0.81 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 13 | 0.81 |
| (1,7471) | 1:12:A:GLU:H | 1:27:A:HIS:H | 16 | 0.81 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 13 | 0.81 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 13 | 0.81 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 11 | 0.81 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 10 | 0.81 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 8 | 0.81 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 9 | 0.81 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 5 | 0.81 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 8 | 0.81 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 11 | 0.81 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 19 | 0.81 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 7 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 4 | 0.81 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 19 | 0.81 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 15 | 0.81 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 2 | 0.81 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 10 | 0.81 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 15 | 0.81 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 15 | 0.81 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 15 | 0.81 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 15 | 0.81 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 15 | 0.81 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 15 | 0.81 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 15 | 0.81 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 15 | 0.81 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 15 | 0.81 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 14 | 0.81 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 14 | 0.81 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 14 | 0.81 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 5 | 0.81 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 7 | 0.81 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 6 | 0.81 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 17 | 0.81 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 2 | 0.81 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 4 | 0.81 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 18 | 0.81 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 18 | 0.81 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 18 | 0.81 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 8 | 0.81 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 12 | 0.81 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 19 | 0.81 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 19 | 0.81 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 19 | 0.81 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 19 | 0.81 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 19 | 0.81 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 19 | 0.81 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 6 | 0.81 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 5 | 0.81 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 20 | 0.81 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 9 | 0.81 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 12 | 0.81 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 3 | 0.81 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 3 | 0.81 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 3 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 6 | 0.81 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 6 | 0.81 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 6 | 0.81 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 10 | 0.81 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 10 | 0.81 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 10 | 0.81 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 16 | 0.81 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 15 | 0.81 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 15 | 0.81 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 15 | 0.81 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 12 | 0.81 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 12 | 0.81 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 12 | 0.81 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 12 | 0.81 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 12 | 0.81 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 12 | 0.81 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 3 | 0.81 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 17 | 0.81 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 17 | 0.81 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 17 | 0.81 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 2 | 0.81 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 2 | 0.81 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 2 | 0.81 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 10 | 0.81 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 11 | 0.81 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 11 | 0.81 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 7 | 0.81 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 7 | 0.81 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 14 | 0.81 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 14 | 0.81 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 3 | 0.81 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 16 | 0.81 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 16 | 0.81 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 2 | 0.81 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 16 | 0.81 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 16 | 0.81 |
| (1,4357) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 12 | 0.81 |
| (1,4357) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 12 | 0.81 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 1 | 0.81 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 1 | 0.81 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 8 | 0.81 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 8 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 12 | 0.81 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 12 | 0.81 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 12 | 0.81 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 12 | 0.81 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 12 | 0.81 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 12 | 0.81 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 19 | 0.81 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 19 | 0.81 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 19 | 0.81 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 19 | 0.81 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 19 | 0.81 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 19 | 0.81 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 8 | 0.81 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 8 | 0.81 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 8 | 0.81 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 8 | 0.81 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 17 | 0.81 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 17 | 0.81 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 17 | 0.81 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 17 | 0.81 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 20 | 0.81 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 20 | 0.81 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 15 | 0.81 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 15 | 0.81 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 15 | 0.81 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 15 | 0.81 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 15 | 0.81 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 15 | 0.81 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 18 | 0.81 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 18 | 0.81 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 18 | 0.81 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 18 | 0.81 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 18 | 0.81 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 18 | 0.81 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 1 | 0.81 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 1 | 0.81 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 9 | 0.81 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 9 | 0.81 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 9 | 0.81 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 17 | 0.81 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 1 | 0.81 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 1 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 14 | 0.81 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 14 | 0.81 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 14 | 0.81 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 1 | 0.81 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 1 | 0.81 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 8 | 0.81 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 8 | 0.81 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 19 | 0.81 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 16 | 0.81 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 2 | 0.81 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 4 | 0.81 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 7 | 0.81 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 12 | 0.81 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 9 | 0.81 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 12 | 0.81 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 9 | 0.81 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 14 | 0.81 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 4 | 0.81 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 8 | 0.81 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 8 | 0.81 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 8 | 0.81 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 13 | 0.81 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 13 | 0.81 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 13 | 0.81 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 9 | 0.81 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 7 | 0.81 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 8 | 0.81 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 8 | 0.81 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 2 | 0.81 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 8 | 0.81 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 8 | 0.81 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 8 | 0.81 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 8 | 0.81 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 6 | 0.81 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 20 | 0.81 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 12 | 0.81 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 6 | 0.81 |
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 4 | 0.81 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 17 | 0.81 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 17 | 0.81 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 17 | 0.81 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 10 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 11 | 0.81 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 11 | 0.81 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 11 | 0.81 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 6 | 0.81 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 1 | 0.81 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 18 | 0.81 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 6 | 0.81 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 17 | 0.81 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 1 | 0.81 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 2 | 0.81 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 2 | 0.81 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 2 | 0.81 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 2 | 0.81 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 2 | 0.81 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 2 | 0.81 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 2 | 0.81 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 2 | 0.81 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 2 | 0.81 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 10 | 0.81 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 10 | 0.81 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 10 | 0.81 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 19 | 0.81 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 19 | 0.81 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 19 | 0.81 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 6 | 0.81 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 17 | 0.81 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 6 | 0.81 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 6 | 0.81 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 6 | 0.81 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 5 | 0.81 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 5 | 0.81 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 5 | 0.81 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 5 | 0.81 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 5 | 0.81 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 5 | 0.81 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 5 | 0.81 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 5 | 0.81 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 5 | 0.81 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 20 | 0.81 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 20 | 0.81 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 20 | 0.81 |
| (1,1963) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HB | 13 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1963) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HB | 13 | 0.81 |
| (1,1963) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HB | 13 | 0.81 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 18 | 0.81 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 18 | 0.81 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 18 | 0.81 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 16 | 0.81 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 2 | 0.81 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 9 | 0.81 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 12 | 0.81 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 12 | 0.81 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 12 | 0.81 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 16 | 0.81 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 12 | 0.81 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 3 | 0.81 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 3 | 0.81 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 3 | 0.81 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 6 | 0.81 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 6 | 0.81 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 6 | 0.81 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 17 | 0.81 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 17 | 0.81 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 5 | 0.81 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 2 | 0.81 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 9 | 0.81 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 9 | 0.81 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 9 | 0.81 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 3 | 0.81 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 3 | 0.81 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 3 | 0.81 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 19 | 0.81 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 12 | 0.81 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 10 | 0.81 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 4 | 0.81 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 4 | 0.81 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 4 | 0.81 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 4 | 0.81 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 8 | 0.81 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 9 | 0.81 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 15 | 0.81 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 4 | 0.81 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 16 | 0.81 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 6 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 5 | 0.81 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 8 | 0.81 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 6 | 0.81 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 17 | 0.81 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 17 | 0.81 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 17 | 0.81 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 17 | 0.81 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 17 | 0.81 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 17 | 0.81 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 17 | 0.81 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 17 | 0.81 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 17 | 0.81 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 14 | 0.81 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 14 | 0.81 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 14 | 0.81 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 14 | 0.81 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 14 | 0.81 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 14 | 0.81 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 18 | 0.81 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 18 | 0.81 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 5 | 0.81 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 20 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 1 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 1 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 1 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 4 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 4 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 4 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 8 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 8 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 8 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 16 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 16 | 0.81 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 16 | 0.81 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 9 | 0.81 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 8 | 0.81 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 14 | 0.81 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 14 | 0.81 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 13 | 0.81 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 14 | 0.81 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 12 | 0.81 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 8 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 10 | 0.81 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 10 | 0.81 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 13 | 0.81 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 9 | 0.81 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 9 | 0.81 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 9 | 0.81 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 8 | 0.81 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 18 | 0.81 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 11 | 0.81 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 8 | 0.81 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 9 | 0.81 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 16 | 0.81 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 14 | 0.81 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 17 | 0.81 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 6 | 0.81 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 6 | 0.81 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 7 | 0.81 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 7 | 0.81 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 7 | 0.81 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 4 | 0.81 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 16 | 0.81 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 16 | 0.81 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 19 | 0.81 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 19 | 0.81 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 19 | 0.81 |
| (1,695) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 8 | 0.81 |
| (1,695) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 8 | 0.81 |
| (1,695) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 8 | 0.81 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 10 | 0.81 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 10 | 0.81 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 10 | 0.81 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 17 | 0.81 |
| (1,557) | 1:93:A:ILE:HA | 1:93:A:ILE:HB | 12 | 0.81 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 6 | 0.81 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 6 | 0.81 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 6 | 0.81 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 10 | 0.81 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 10 | 0.81 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 10 | 0.81 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 18 | 0.81 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 5 | 0.81 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 14 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 14 | 0.81 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 14 | 0.81 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 4 | 0.81 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 4 | 0.81 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 11 | 0.81 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 3 | 0.81 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 5 | 0.81 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 12 | 0.81 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 9 | 0.81 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 9 | 0.81 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 9 | 0.81 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 11 | 0.81 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 13 | 0.81 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 13 | 0.81 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 13 | 0.81 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 19 | 0.81 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 19 | 0.81 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 19 | 0.81 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 10 | 0.81 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 19 | 0.81 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 19 | 0.81 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 19 | 0.81 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 4 | 0.81 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 6 | 0.81 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 18 | 0.81 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 18 | 0.81 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 3 | 0.81 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 3 | 0.81 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 19 | 0.81 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 19 | 0.81 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 20 | 0.81 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 4 | 0.81 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 16 | 0.81 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 16 | 0.81 |
| (1,163) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 16 | 0.81 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 8 | 0.81 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 8 | 0.81 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 8 | 0.81 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 8 | 0.81 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 8 | 0.81 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 8 | 0.81 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 4 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 4 | 0.81 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 4 | 0.81 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 8 | 0.81 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 3 | 0.81 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 3 | 0.81 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 3 | 0.81 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 5 | 0.81 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 5 | 0.81 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 5 | 0.81 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 14 | 0.81 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 14 | 0.81 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 14 | 0.81 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 3 | 0.81 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 3 | 0.81 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 3 | 0.81 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 5 | 0.81 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 5 | 0.81 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 5 | 0.81 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 5 | 0.8 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 8 | 0.8 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 8 | 0.8 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 9 | 0.8 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 19 | 0.8 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 19 | 0.8 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 19 | 0.8 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 19 | 0.8 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 19 | 0.8 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 19 | 0.8 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 19 | 0.8 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 19 | 0.8 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 19 | 0.8 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 3 | 0.8 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 16 | 0.8 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 16 | 0.8 |
| (3,75) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 8 | 0.8 |
| (3,25) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 18 | 0.8 |
| (3,25) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 18 | 0.8 |
| (3,25) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 18 | 0.8 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 2 | 0.8 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 2 | 0.8 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 2 | 0.8 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 2 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 2 | 0.8 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 2 | 0.8 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 6 | 0.8 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 6 | 0.8 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 11 | 0.8 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 11 | 0.8 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 1 | 0.8 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 1 | 0.8 |
| (1,8890) | 1:64:A:HIS:HB2 | 1:82:A:LYS:HA | 16 | 0.8 |
| (1,8890) | 1:64:A:HIS:HB3 | 1:82:A:LYS:HA | 16 | 0.8 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 12 | 0.8 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 12 | 0.8 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 12 | 0.8 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 12 | 0.8 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 12 | 0.8 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 12 | 0.8 |
| (1,8683) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 20 | 0.8 |
| (1,8683) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 20 | 0.8 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 15 | 0.8 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 15 | 0.8 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 6 | 0.8 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 6 | 0.8 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 19 | 0.8 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 19 | 0.8 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 17 | 0.8 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 17 | 0.8 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 13 | 0.8 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 13 | 0.8 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 13 | 0.8 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 13 | 0.8 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 19 | 0.8 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 16 | 0.8 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 3 | 0.8 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 20 | 0.8 |
| (1,7561) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 1 | 0.8 |
| (1,7561) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 1 | 0.8 |
| (1,7561) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 1 | 0.8 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 6 | 0.8 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 10 | 0.8 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 8 | 0.8 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 8 | 0.8 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 4 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 6 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 15 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 15 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 15 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 15 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 15 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 15 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 19 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 19 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 19 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 19 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 19 | 0.8 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 19 | 0.8 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 13 | 0.8 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 13 | 0.8 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 13 | 0.8 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 19 | 0.8 |
| (1,6957) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 13 | 0.8 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 6 | 0.8 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 6 | 0.8 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 6 | 0.8 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 6 | 0.8 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 11 | 0.8 |
| (1,6508) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 14 | 0.8 |
| (1,6436) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 1 | 0.8 |
| (1,6436) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 1 | 0.8 |
| (1,6436) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 1 | 0.8 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 13 | 0.8 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 18 | 0.8 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 18 | 0.8 |
| (1,6327) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 18 | 0.8 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 14 | 0.8 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 20 | 0.8 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 17 | 0.8 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 17 | 0.8 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 17 | 0.8 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 17 | 0.8 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 17 | 0.8 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 17 | 0.8 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 2 | 0.8 |
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 2 | 0.8 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 13 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 18 | 0.8 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 18 | 0.8 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 2 | 0.8 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 2 | 0.8 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 2 | 0.8 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 2 | 0.8 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 2 | 0.8 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 2 | 0.8 |
| (1,5850) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 12 | 0.8 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 12 | 0.8 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 15 | 0.8 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 16 | 0.8 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 16 | 0.8 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 18 | 0.8 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 18 | 0.8 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 18 | 0.8 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 1 | 0.8 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 1 | 0.8 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 1 | 0.8 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 8 | 0.8 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 8 | 0.8 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 8 | 0.8 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 19 | 0.8 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 19 | 0.8 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 19 | 0.8 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 20 | 0.8 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 20 | 0.8 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 20 | 0.8 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 9 | 0.8 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 9 | 0.8 |
| (1,5107) | 1:80:A:ARG:HA | 1:81:A:THR:H | 13 | 0.8 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 8 | 0.8 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 8 | 0.8 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 3 | 0.8 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 14 | 0.8 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 14 | 0.8 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 5 | 0.8 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 5 | 0.8 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 5 | 0.8 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 1 | 0.8 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 1 | 0.8 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 1 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 5 | 0.8 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 5 | 0.8 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 1 | 0.8 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 1 | 0.8 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 1 | 0.8 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 20 | 0.8 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 20 | 0.8 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 20 | 0.8 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 20 | 0.8 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 20 | 0.8 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 20 | 0.8 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 14 | 0.8 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 14 | 0.8 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 14 | 0.8 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 14 | 0.8 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 14 | 0.8 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 14 | 0.8 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 13 | 0.8 |
| (1,4281) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 13 | 0.8 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 13 | 0.8 |
| (1,4281) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 13 | 0.8 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 2 | 0.8 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 2 | 0.8 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 8 | 0.8 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 8 | 0.8 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 17 | 0.8 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 18 | 0.8 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 18 | 0.8 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 14 | 0.8 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 14 | 0.8 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 14 | 0.8 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 3 | 0.8 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 3 | 0.8 |
| (1,3711) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 18 | 0.8 |
| (1,3711) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 18 | 0.8 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 10 | 0.8 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 10 | 0.8 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 10 | 0.8 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 10 | 0.8 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 18 | 0.8 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 18 | 0.8 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 16 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 16 | 0.8 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 3 | 0.8 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 16 | 0.8 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 8 | 0.8 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 1 | 0.8 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 13 | 0.8 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 18 | 0.8 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 18 | 0.8 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 18 | 0.8 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 20 | 0.8 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 20 | 0.8 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 1 | 0.8 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 11 | 0.8 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 12 | 0.8 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 2 | 0.8 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 2 | 0.8 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 16 | 0.8 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 6 | 0.8 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 2 | 0.8 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 16 | 0.8 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 16 | 0.8 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 16 | 0.8 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 12 | 0.8 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 6 | 0.8 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 3 | 0.8 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 11 | 0.8 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 15 | 0.8 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 15 | 0.8 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 15 | 0.8 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 15 | 0.8 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 1 | 0.8 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 1 | 0.8 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 1 | 0.8 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 1 | 0.8 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 1 | 0.8 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 1 | 0.8 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 11 | 0.8 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 16 | 0.8 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 1 | 0.8 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 1 | 0.8 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 1 | 0.8 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 3 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 8 | 0.8 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 8 | 0.8 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 8 | 0.8 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 10 | 0.8 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 19 | 0.8 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 18 | 0.8 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 14 | 0.8 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 20 | 0.8 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 20 | 0.8 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 20 | 0.8 |
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 19 | 0.8 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 4 | 0.8 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 14 | 0.8 |
| (1,2347) | 1:7:A:LEU:H | 1:7:A:LEU:HG | 14 | 0.8 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 10 | 0.8 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 18 | 0.8 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 4 | 0.8 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 11 | 0.8 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 2 | 0.8 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 2 | 0.8 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 2 | 0.8 |
| (1,2143) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 17 | 0.8 |
| (1,2143) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 17 | 0.8 |
| (1,2143) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 17 | 0.8 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 8 | 0.8 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 13 | 0.8 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 5 | 0.8 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 19 | 0.8 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 19 | 0.8 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 19 | 0.8 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 13 | 0.8 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 13 | 0.8 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 13 | 0.8 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 17 | 0.8 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 3 | 0.8 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 18 | 0.8 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 18 | 0.8 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 18 | 0.8 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 14 | 0.8 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 14 | 0.8 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 14 | 0.8 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 16 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 16 | 0.8 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 16 | 0.8 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 1 | 0.8 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 6 | 0.8 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 6 | 0.8 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 11 | 0.8 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 11 | 0.8 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 11 | 0.8 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 5 | 0.8 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 5 | 0.8 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 5 | 0.8 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 3 | 0.8 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 20 | 0.8 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 20 | 0.8 |
| (1,1659) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 20 | 0.8 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 8 | 0.8 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 20 | 0.8 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 12 | 0.8 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 3 | 0.8 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 10 | 0.8 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 4 | 0.8 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 4 | 0.8 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 4 | 0.8 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 4 | 0.8 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 3 | 0.8 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 3 | 0.8 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 10 | 0.8 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 10 | 0.8 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 10 | 0.8 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 7 | 0.8 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 7 | 0.8 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 12 | 0.8 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 15 | 0.8 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 9 | 0.8 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 9 | 0.8 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 9 | 0.8 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 14 | 0.8 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 14 | 0.8 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 14 | 0.8 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 19 | 0.8 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 19 | 0.8 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 19 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 5 | 0.8 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 8 | 0.8 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 19 | 0.8 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 13 | 0.8 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 12 | 0.8 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 8 | 0.8 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 8 | 0.8 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 8 | 0.8 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 4 | 0.8 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 3 | 0.8 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 10 | 0.8 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 13 | 0.8 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 1 | 0.8 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 1 | 0.8 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 6 | 0.8 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 7 | 0.8 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 15 | 0.8 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 17 | 0.8 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 2 | 0.8 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 5 | 0.8 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 14 | 0.8 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 20 | 0.8 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 15 | 0.8 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 9 | 0.8 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 9 | 0.8 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 9 | 0.8 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 9 | 0.8 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 9 | 0.8 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 9 | 0.8 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 9 | 0.8 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 9 | 0.8 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 9 | 0.8 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 7 | 0.8 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 7 | 0.8 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 7 | 0.8 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 7 | 0.8 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 7 | 0.8 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 7 | 0.8 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 7 | 0.8 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 7 | 0.8 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 7 | 0.8 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 10 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 6 | 0.8 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 6 | 0.8 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 6 | 0.8 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 6 | 0.8 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 6 | 0.8 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 6 | 0.8 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 8 | 0.8 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 13 | 0.8 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 6 | 0.8 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 6 | 0.8 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 6 | 0.8 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 6 | 0.8 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 6 | 0.8 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 6 | 0.8 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 6 | 0.8 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 6 | 0.8 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 6 | 0.8 |
| (1,412) | 1:86:A:LEU:HD11 | 1:87:A:GLU:H | 16 | 0.8 |
| (1,412) | 1:86:A:LEU:HD12 | 1:87:A:GLU:H | 16 | 0.8 |
| (1,412) | 1:86:A:LEU:HD13 | 1:87:A:GLU:H | 16 | 0.8 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 6 | 0.8 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 6 | 0.8 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 6 | 0.8 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 7 | 0.8 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 16 | 0.8 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 0.8 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 4 | 0.8 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 16 | 0.8 |
| (1,304) | 1:80:A:ARG:HA | 1:81:A:THR:H | 13 | 0.8 |
| (1,249) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 9 | 0.8 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 3 | 0.8 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 10 | 0.8 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 3 | 0.8 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 8 | 0.8 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 7 | 0.8 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 16 | 0.8 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 16 | 0.8 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 10 | 0.8 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 2 | 0.8 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 8 | 0.8 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 20 | 0.8 |
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 20 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,155) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 20 | 0.8 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 20 | 0.8 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 20 | 0.8 |
| (1,155) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 20 | 0.8 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 2 | 0.8 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 2 | 0.8 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 2 | 0.8 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 4 | 0.8 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG21 | 12 | 0.8 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG22 | 12 | 0.8 |
| (1,75) | 1:56:A:ARG:HB3 | 1:162:A:THR:HG23 | 12 | 0.8 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 3 | 0.8 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 3 | 0.8 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 3 | 0.8 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 11 | 0.8 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 11 | 0.8 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 11 | 0.8 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 6 | 0.79 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 6 | 0.79 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 19 | 0.79 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 19 | 0.79 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 19 | 0.79 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 19 | 0.79 |
| (3,801) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 6 | 0.79 |
| (3,801) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 6 | 0.79 |
| (3,769) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 10 | 0.79 |
| (3,769) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 10 | 0.79 |
| (3,769) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 10 | 0.79 |
| (3,769) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 10 | 0.79 |
| (3,769) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 10 | 0.79 |
| (3,769) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 10 | 0.79 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 2 | 0.79 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 2 | 0.79 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 3 | 0.79 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 3 | 0.79 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 12 | 0.79 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 12 | 0.79 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 14 | 0.79 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 14 | 0.79 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 14 | 0.79 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 10 | 0.79 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 10 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 6 | 0.79 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 6 | 0.79 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 6 | 0.79 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 20 | 0.79 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 20 | 0.79 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 20 | 0.79 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 20 | 0.79 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 20 | 0.79 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 20 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 5 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 5 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 5 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 5 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 5 | 0.79 |
| (1,9586) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 5 | 0.79 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 18 | 0.79 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 18 | 0.79 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 14 | 0.79 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 14 | 0.79 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 2 | 0.79 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 2 | 0.79 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 17 | 0.79 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 17 | 0.79 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 17 | 0.79 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 17 | 0.79 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 17 | 0.79 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 17 | 0.79 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 18 | 0.79 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 18 | 0.79 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 18 | 0.79 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 18 | 0.79 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 18 | 0.79 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 18 | 0.79 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 12 | 0.79 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 12 | 0.79 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 12 | 0.79 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 12 | 0.79 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 12 | 0.79 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 12 | 0.79 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 18 | 0.79 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 18 | 0.79 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 18 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 18 | 0.79 |
| (1,8973) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 5 | 0.79 |
| (1,8973) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 5 | 0.79 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 9 | 0.79 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 9 | 0.79 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 14 | 0.79 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 14 | 0.79 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 5 | 0.79 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 5 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 1 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 1 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 1 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 1 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 1 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 1 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 8 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 8 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 8 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 8 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 8 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 8 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 14 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 14 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 14 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 14 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 14 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 14 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 20 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 20 | 0.79 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 20 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 20 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 20 | 0.79 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 20 | 0.79 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 6 | 0.79 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 2 | 0.79 |
| (1,8215) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 7 | 0.79 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 16 | 0.79 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 5 | 0.79 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 5 | 0.79 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 18 | 0.79 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 18 | 0.79 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 18 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 17 | 0.79 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 7 | 0.79 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 13 | 0.79 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 16 | 0.79 |
| (1,6436) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 18 | 0.79 |
| (1,6436) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 18 | 0.79 |
| (1,6436) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 18 | 0.79 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 1 | 0.79 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 11 | 0.79 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 20 | 0.79 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 3 | 0.79 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 2 | 0.79 |
| (1,6212) | 1:145:A:GLU:HA | 1:146:A:MET:H | 16 | 0.79 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 2 | 0.79 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 11 | 0.79 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 13 | 0.79 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 12 | 0.79 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 8 | 0.79 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 6 | 0.79 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 12 | 0.79 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 15 | 0.79 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 15 | 0.79 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 15 | 0.79 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 5 | 0.79 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 12 | 0.79 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 17 | 0.79 |
| (1,5217) | 1:83:A:GLU:H | 1:86:A:LEU:H | 4 | 0.79 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 18 | 0.79 |
| (1,4927) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 16 | 0.79 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 10 | 0.79 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 10 | 0.79 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 2 | 0.79 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 2 | 0.79 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 2 | 0.79 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 13 | 0.79 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 13 | 0.79 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 15 | 0.79 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 15 | 0.79 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 15 | 0.79 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 15 | 0.79 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 13 | 0.79 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 13 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 10 | 0.79 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 10 | 0.79 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 20 | 0.79 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 20 | 0.79 |
| (1,4083) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 15 | 0.79 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 4 | 0.79 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 4 | 0.79 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 15 | 0.79 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 15 | 0.79 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 10 | 0.79 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 10 | 0.79 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 16 | 0.79 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 16 | 0.79 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 15 | 0.79 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 15 | 0.79 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 6 | 0.79 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 6 | 0.79 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 8 | 0.79 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 11 | 0.79 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 11 | 0.79 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 14 | 0.79 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 14 | 0.79 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 4 | 0.79 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 9 | 0.79 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 10 | 0.79 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 16 | 0.79 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 15 | 0.79 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 15 | 0.79 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 10 | 0.79 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 12 | 0.79 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 4 | 0.79 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 4 | 0.79 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 14 | 0.79 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 14 | 0.79 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 12 | 0.79 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 12 | 0.79 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 12 | 0.79 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 15 | 0.79 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 7 | 0.79 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 7 | 0.79 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 7 | 0.79 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 11 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 11 | 0.79 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 11 | 0.79 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 13 | 0.79 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 3 | 0.79 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 4 | 0.79 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 5 | 0.79 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 18 | 0.79 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 13 | 0.79 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 17 | 0.79 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 13 | 0.79 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 13 | 0.79 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 18 | 0.79 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 18 | 0.79 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 10 | 0.79 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 10 | 0.79 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 10 | 0.79 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 4 | 0.79 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 4 | 0.79 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 4 | 0.79 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 7 | 0.79 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 19 | 0.79 |
| (1,2535) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 12 | 0.79 |
| (1,2535) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 12 | 0.79 |
| (1,2535) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 12 | 0.79 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 16 | 0.79 |
| (1,2333) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 18 | 0.79 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 17 | 0.79 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 16 | 0.79 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 16 | 0.79 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 16 | 0.79 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 16 | 0.79 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 16 | 0.79 |
| (1,2219) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 16 | 0.79 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 17 | 0.79 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 12 | 0.79 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 12 | 0.79 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 12 | 0.79 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 9 | 0.79 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 9 | 0.79 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 9 | 0.79 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 1 | 0.79 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD11 | 7 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD12 | 7 | 0.79 |
| (1,2115) | 1:158:A:ILE:H | 1:158:A:ILE:HD13 | 7 | 0.79 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 4 | 0.79 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 7 | 0.79 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 7 | 0.79 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 7 | 0.79 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 14 | 0.79 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 14 | 0.79 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 14 | 0.79 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 5 | 0.79 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 13 | 0.79 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 4 | 0.79 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 16 | 0.79 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 18 | 0.79 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 10 | 0.79 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 10 | 0.79 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 10 | 0.79 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 10 | 0.79 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 10 | 0.79 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 10 | 0.79 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 10 | 0.79 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 10 | 0.79 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 10 | 0.79 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 10 | 0.79 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 9 | 0.79 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 19 | 0.79 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 19 | 0.79 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 19 | 0.79 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 14 | 0.79 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 3 | 0.79 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 3 | 0.79 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 9 | 0.79 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 9 | 0.79 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 3 | 0.79 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 3 | 0.79 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 3 | 0.79 |
| (1,1773) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 16 | 0.79 |
| (1,1773) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 16 | 0.79 |
| (1,1773) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 16 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 2 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 2 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 2 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 2 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 2 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 2 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 2 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 2 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 2 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 18 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 18 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 18 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 18 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 18 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 18 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 18 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 18 | 0.79 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 18 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 7 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 7 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 7 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 11 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 11 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 11 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 17 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 17 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 17 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 19 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 19 | 0.79 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 19 | 0.79 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 11 | 0.79 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 17 | 0.79 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 12 | 0.79 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 12 | 0.79 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 12 | 0.79 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 16 | 0.79 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 16 | 0.79 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 16 | 0.79 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 16 | 0.79 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 16 | 0.79 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 16 | 0.79 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 16 | 0.79 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 16 | 0.79 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 16 | 0.79 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 17 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 20 | 0.79 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 20 | 0.79 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 6 | 0.79 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 7 | 0.79 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 3 | 0.79 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 3 | 0.79 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 3 | 0.79 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 3 | 0.79 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 3 | 0.79 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 3 | 0.79 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 1 | 0.79 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 2 | 0.79 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 2 | 0.79 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 2 | 0.79 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 2 | 0.79 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 2 | 0.79 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 2 | 0.79 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 2 | 0.79 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 2 | 0.79 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 2 | 0.79 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 12 | 0.79 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 12 | 0.79 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 12 | 0.79 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 14 | 0.79 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 14 | 0.79 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 14 | 0.79 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 16 | 0.79 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 16 | 0.79 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 16 | 0.79 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 5 | 0.79 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 5 | 0.79 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 5 | 0.79 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 3 | 0.79 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 10 | 0.79 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 11 | 0.79 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 16 | 0.79 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 8 | 0.79 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 20 | 0.79 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 20 | 0.79 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 20 | 0.79 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 2 | 0.79 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 13 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 20 | 0.79 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 20 | 0.79 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 20 | 0.79 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 5 | 0.79 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 9 | 0.79 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 6 | 0.79 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 6 | 0.79 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 6 | 0.79 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 14 | 0.79 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 17 | 0.79 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 19 | 0.79 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 6 | 0.79 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 6 | 0.79 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 6 | 0.79 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 16 | 0.79 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 20 | 0.79 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 17 | 0.79 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 17 | 0.79 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 17 | 0.79 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 17 | 0.79 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 17 | 0.79 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 17 | 0.79 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 12 | 0.79 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 10 | 0.79 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 11 | 0.79 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 14 | 0.79 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 11 | 0.79 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 10 | 0.79 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 17 | 0.79 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 16 | 0.79 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 16 | 0.79 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 16 | 0.79 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 3 | 0.79 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 5 | 0.79 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 19 | 0.79 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 3 | 0.79 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 16 | 0.79 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 16 | 0.79 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 16 | 0.79 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 16 | 0.79 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 16 | 0.79 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 16 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 16 | 0.79 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 16 | 0.79 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 16 | 0.79 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 10 | 0.79 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 10 | 0.79 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 10 | 0.79 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 10 | 0.79 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 10 | 0.79 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 10 | 0.79 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 15 | 0.79 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 15 | 0.79 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 15 | 0.79 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 11 | 0.79 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 11 | 0.79 |
| (1,482) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 11 | 0.79 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 11 | 0.79 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 11 | 0.79 |
| (1,482) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 11 | 0.79 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 11 | 0.79 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 11 | 0.79 |
| (1,482) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 11 | 0.79 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 12 | 0.79 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 12 | 0.79 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 12 | 0.79 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 12 | 0.79 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 12 | 0.79 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 12 | 0.79 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 12 | 0.79 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 12 | 0.79 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 12 | 0.79 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 20 | 0.79 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 9 | 0.79 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 7 | 0.79 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 7 | 0.79 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 7 | 0.79 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 13 | 0.79 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 13 | 0.79 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 13 | 0.79 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 10 | 0.79 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 19 | 0.79 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 19 | 0.79 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 15 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 19 | 0.79 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 3 | 0.79 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 19 | 0.79 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 19 | 0.79 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 19 | 0.79 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 8 | 0.79 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG21 | 10 | 0.79 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG22 | 10 | 0.79 |
| (1,285) | 1:78:A:ILE:H | 1:78:A:ILE:HG23 | 10 | 0.79 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 18 | 0.79 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 15 | 0.79 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 12 | 0.79 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 17 | 0.79 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 20 | 0.79 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 20 | 0.79 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 20 | 0.79 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 6 | 0.79 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 13 | 0.79 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 11 | 0.79 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 13 | 0.79 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 16 | 0.79 |
| (1,175) | 1:65:A:SER:HA | 1:67:A:SER:H | 5 | 0.79 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 6 | 0.79 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 6 | 0.79 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 6 | 0.79 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 18 | 0.79 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 18 | 0.79 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 18 | 0.79 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 18 | 0.79 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 18 | 0.79 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 18 | 0.79 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 18 | 0.79 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 18 | 0.79 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 18 | 0.79 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 13 | 0.79 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 15 | 0.79 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 15 | 0.79 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 15 | 0.79 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 14 | 0.79 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 14 | 0.79 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 14 | 0.79 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 1 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 13 | 0.78 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 5 | 0.78 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 16 | 0.78 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 8 | 0.78 |
| (3,852) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 2 | 0.78 |
| (3,852) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 2 | 0.78 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 15 | 0.78 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 15 | 0.78 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 1 | 0.78 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 13 | 0.78 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 15 | 0.78 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 2 | 0.78 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 8 | 0.78 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 14 | 0.78 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 14 | 0.78 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 14 | 0.78 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 4 | 0.78 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 4 | 0.78 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 4 | 0.78 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 4 | 0.78 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 4 | 0.78 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 4 | 0.78 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 6 | 0.78 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 6 | 0.78 |
| (1,9417) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 5 | 0.78 |
| (1,9417) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 5 | 0.78 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 4 | 0.78 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 4 | 0.78 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 13 | 0.78 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 13 | 0.78 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 15 | 0.78 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 15 | 0.78 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 10 | 0.78 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 10 | 0.78 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 17 | 0.78 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 17 | 0.78 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 17 | 0.78 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 17 | 0.78 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 11 | 0.78 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 11 | 0.78 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 6 | 0.78 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 6 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 14 | 0.78 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 14 | 0.78 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 14 | 0.78 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 14 | 0.78 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 14 | 0.78 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 14 | 0.78 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 14 | 0.78 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 14 | 0.78 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 14 | 0.78 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 14 | 0.78 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 14 | 0.78 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 14 | 0.78 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 9 | 0.78 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 9 | 0.78 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 9 | 0.78 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 4 | 0.78 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 4 | 0.78 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 2 | 0.78 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 20 | 0.78 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 20 | 0.78 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 20 | 0.78 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 19 | 0.78 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 19 | 0.78 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 20 | 0.78 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 20 | 0.78 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 20 | 0.78 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 14 | 0.78 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 14 | 0.78 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 14 | 0.78 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 4 | 0.78 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 16 | 0.78 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 1 | 0.78 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 12 | 0.78 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 14 | 0.78 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 16 | 0.78 |
| (1,6488) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 11 | 0.78 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 4 | 0.78 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 10 | 0.78 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 10 | 0.78 |
| (1,6354) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 11 | 0.78 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 20 | 0.78 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 7 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 15 | 0.78 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 15 | 0.78 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 8 | 0.78 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 8 | 0.78 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 4 | 0.78 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 4 | 0.78 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 4 | 0.78 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 5 | 0.78 |
| (1,5949) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 9 | 0.78 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 9 | 0.78 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 1 | 0.78 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 9 | 0.78 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 6 | 0.78 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 6 | 0.78 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 6 | 0.78 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 12 | 0.78 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 12 | 0.78 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 12 | 0.78 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 16 | 0.78 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 16 | 0.78 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 16 | 0.78 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 15 | 0.78 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 1 | 0.78 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 1 | 0.78 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 1 | 0.78 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 1 | 0.78 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 15 | 0.78 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 15 | 0.78 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 15 | 0.78 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 6 | 0.78 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 6 | 0.78 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 6 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 10 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 10 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 10 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 10 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 10 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 10 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 10 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 10 | 0.78 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 10 | 0.78 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 7 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 7 | 0.78 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 13 | 0.78 |
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 13 | 0.78 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 4 | 0.78 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 8 | 0.78 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 8 | 0.78 |
| (1,4913) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 17 | 0.78 |
| (1,4913) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 17 | 0.78 |
| (1,4913) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 17 | 0.78 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 13 | 0.78 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 13 | 0.78 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 13 | 0.78 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 13 | 0.78 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 13 | 0.78 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 13 | 0.78 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 13 | 0.78 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 13 | 0.78 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 13 | 0.78 |
| (1,4856) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 19 | 0.78 |
| (1,4856) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 19 | 0.78 |
| (1,4856) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 19 | 0.78 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 5 | 0.78 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 5 | 0.78 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 5 | 0.78 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 5 | 0.78 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 5 | 0.78 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 5 | 0.78 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 5 | 0.78 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 5 | 0.78 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 5 | 0.78 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 7 | 0.78 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 3 | 0.78 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 3 | 0.78 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 3 | 0.78 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 11 | 0.78 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 11 | 0.78 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 11 | 0.78 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 11 | 0.78 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 3 | 0.78 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 3 | 0.78 |
| (1,4525) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 6 | 0.78 |
| (1,4525) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 6 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4525) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 6 | 0.78 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 3 | 0.78 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 3 | 0.78 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 0.78 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 0.78 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 6 | 0.78 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 6 | 0.78 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 6 | 0.78 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 6 | 0.78 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 5 | 0.78 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 5 | 0.78 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 0.78 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 0.78 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 1 | 0.78 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 1 | 0.78 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 14 | 0.78 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 14 | 0.78 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 8 | 0.78 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 8 | 0.78 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 7 | 0.78 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 4 | 0.78 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 4 | 0.78 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 4 | 0.78 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 4 | 0.78 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 19 | 0.78 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 19 | 0.78 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 1 | 0.78 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 1 | 0.78 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 15 | 0.78 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 20 | 0.78 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 7 | 0.78 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 15 | 0.78 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 6 | 0.78 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 5 | 0.78 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 16 | 0.78 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 9 | 0.78 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 5 | 0.78 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 7 | 0.78 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 11 | 0.78 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 10 | 0.78 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 2 | 0.78 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 2 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 2 | 0.78 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 5 | 0.78 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 5 | 0.78 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 5 | 0.78 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 16 | 0.78 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 16 | 0.78 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 16 | 0.78 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 10 | 0.78 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 17 | 0.78 |
| (1,2803) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 18 | 0.78 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 8 | 0.78 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 8 | 0.78 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 15 | 0.78 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 15 | 0.78 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 15 | 0.78 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 14 | 0.78 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 17 | 0.78 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 17 | 0.78 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 17 | 0.78 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 19 | 0.78 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 3 | 0.78 |
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 13 | 0.78 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 4 | 0.78 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 4 | 0.78 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 4 | 0.78 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 11 | 0.78 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 11 | 0.78 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 11 | 0.78 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 9 | 0.78 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 14 | 0.78 |
| (1,2285) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 11 | 0.78 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 17 | 0.78 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 10 | 0.78 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 10 | 0.78 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 10 | 0.78 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 10 | 0.78 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 10 | 0.78 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 10 | 0.78 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 10 | 0.78 |
| (1,2035) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 11 | 0.78 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 8 | 0.78 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 8 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 8 | 0.78 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 3 | 0.78 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 13 | 0.78 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 13 | 0.78 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 13 | 0.78 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 13 | 0.78 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 13 | 0.78 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 13 | 0.78 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 13 | 0.78 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 13 | 0.78 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 13 | 0.78 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 15 | 0.78 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 15 | 0.78 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 15 | 0.78 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 9 | 0.78 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 9 | 0.78 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 15 | 0.78 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 15 | 0.78 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 15 | 0.78 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 15 | 0.78 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 15 | 0.78 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 15 | 0.78 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 20 | 0.78 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 20 | 0.78 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 20 | 0.78 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 10 | 0.78 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 10 | 0.78 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 13 | 0.78 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 13 | 0.78 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 0.78 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 16 | 0.78 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 13 | 0.78 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 13 | 0.78 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 13 | 0.78 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 18 | 0.78 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 18 | 0.78 |
| (1,1515) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 4 | 0.78 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 12 | 0.78 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 5 | 0.78 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 5 | 0.78 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 5 | 0.78 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 1 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 20 | 0.78 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 20 | 0.78 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 20 | 0.78 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 20 | 0.78 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 20 | 0.78 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 20 | 0.78 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 15 | 0.78 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 15 | 0.78 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 15 | 0.78 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 19 | 0.78 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 19 | 0.78 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 19 | 0.78 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 9 | 0.78 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 10 | 0.78 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 10 | 0.78 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 11 | 0.78 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 11 | 0.78 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 11 | 0.78 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 1 | 0.78 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 1 | 0.78 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 1 | 0.78 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 2 | 0.78 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 12 | 0.78 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 14 | 0.78 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 15 | 0.78 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 17 | 0.78 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 20 | 0.78 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 15 | 0.78 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 15 | 0.78 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 16 | 0.78 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 18 | 0.78 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 18 | 0.78 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 18 | 0.78 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 11 | 0.78 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 11 | 0.78 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 11 | 0.78 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 10 | 0.78 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 10 | 0.78 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 10 | 0.78 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 15 | 0.78 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 15 | 0.78 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 15 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 16 | 0.78 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 16 | 0.78 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 17 | 0.78 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 17 | 0.78 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 17 | 0.78 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 3 | 0.78 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 19 | 0.78 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 20 | 0.78 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 8 | 0.78 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 8 | 0.78 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 8 | 0.78 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 11 | 0.78 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 11 | 0.78 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 11 | 0.78 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 7 | 0.78 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 1 | 0.78 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 9 | 0.78 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 14 | 0.78 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 14 | 0.78 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 14 | 0.78 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 7 | 0.78 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 14 | 0.78 |
| (1,527) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 14 | 0.78 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 14 | 0.78 |
| (1,527) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 14 | 0.78 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 14 | 0.78 |
| (1,527) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 14 | 0.78 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 14 | 0.78 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 14 | 0.78 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 14 | 0.78 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 14 | 0.78 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 14 | 0.78 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 14 | 0.78 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 9 | 0.78 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 13 | 0.78 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 8 | 0.78 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 12 | 0.78 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 12 | 0.78 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 12 | 0.78 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 11 | 0.78 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 11 | 0.78 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 10 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 10 | 0.78 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 8 | 0.78 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 8 | 0.78 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 8 | 0.78 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 17 | 0.78 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 17 | 0.78 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 17 | 0.78 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 18 | 0.78 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 13 | 0.78 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 8 | 0.78 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 8 | 0.78 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 9 | 0.78 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 9 | 0.78 |
| (1,350) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 17 | 0.78 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 11 | 0.78 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 7 | 0.78 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 10 | 0.78 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 19 | 0.78 |
| (1,301) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 19 | 0.78 |
| (1,301) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 19 | 0.78 |
| (1,301) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 19 | 0.78 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 15 | 0.78 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 9 | 0.78 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 1 | 0.78 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 7 | 0.78 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 9 | 0.78 |
| (1,185) | 1:66:A:GLN:HG2 | 1:67:A:SER:H | 2 | 0.78 |
| (1,185) | 1:66:A:GLN:HG3 | 1:67:A:SER:H | 2 | 0.78 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 3 | 0.78 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 3 | 0.78 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 3 | 0.78 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 2 | 0.78 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 2 | 0.78 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 10 | 0.78 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 10 | 0.78 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 10 | 0.78 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 20 | 0.78 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 13 | 0.78 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 3 | 0.78 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 3 | 0.78 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 3 | 0.78 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 3 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 3 | 0.78 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 3 | 0.78 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 3 | 0.78 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 3 | 0.78 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 3 | 0.78 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 16 | 0.78 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 16 | 0.78 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 16 | 0.78 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 19 | 0.78 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 19 | 0.78 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 19 | 0.78 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 16 | 0.78 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 16 | 0.78 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 16 | 0.78 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 16 | 0.78 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 16 | 0.78 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 16 | 0.78 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 13 | 0.78 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 13 | 0.78 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 13 | 0.78 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 13 | 0.78 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 13 | 0.78 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 13 | 0.78 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 17 | 0.78 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 17 | 0.78 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 17 | 0.78 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 17 | 0.78 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 17 | 0.78 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 17 | 0.78 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 2 | 0.78 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 2 | 0.78 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 5 | 0.77 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 13 | 0.77 |
| (3,882) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE2 | 19 | 0.77 |
| (3,882) | 1:76:A:GLU:HG2 | 1:77:A:LYS:HE3 | 19 | 0.77 |
| (3,882) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE2 | 19 | 0.77 |
| (3,882) | 1:76:A:GLU:HG3 | 1:77:A:LYS:HE3 | 19 | 0.77 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 5 | 0.77 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 5 | 0.77 |
| (3,545) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 2 | 0.77 |
| (3,545) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 2 | 0.77 |
| (3,390) | 1:60:A:LEU:HD21 | 1:92:A:TYR:H | 4 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,390) | 1:60:A:LEU:HD22 | 1:92:A:TYR:H | 4 | 0.77 |
| (3,390) | 1:60:A:LEU:HD23 | 1:92:A:TYR:H | 4 | 0.77 |
| (3,135) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 19 | 0.77 |
| (3,135) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 19 | 0.77 |
| (3,3) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 20 | 0.77 |
| (3,3) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 20 | 0.77 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 18 | 0.77 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 18 | 0.77 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 18 | 0.77 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 18 | 0.77 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 18 | 0.77 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 18 | 0.77 |
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 13 | 0.77 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 13 | 0.77 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 11 | 0.77 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 11 | 0.77 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 12 | 0.77 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 12 | 0.77 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 12 | 0.77 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 12 | 0.77 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 12 | 0.77 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 12 | 0.77 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 3 | 0.77 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 3 | 0.77 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 5 | 0.77 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 5 | 0.77 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 13 | 0.77 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 13 | 0.77 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 12 | 0.77 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 12 | 0.77 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 11 | 0.77 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 11 | 0.77 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 3 | 0.77 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 3 | 0.77 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 7 | 0.77 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 7 | 0.77 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 17 | 0.77 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 17 | 0.77 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 15 | 0.77 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 15 | 0.77 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 15 | 0.77 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 15 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 15 | 0.77 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 15 | 0.77 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 15 | 0.77 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 15 | 0.77 |
| (1,8371) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 18 | 0.77 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 10 | 0.77 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 20 | 0.77 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 14 | 0.77 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 2 | 0.77 |
| (1,7573) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 5 | 0.77 |
| (1,7241) | 1:28:A:ILE:H | 1:29:A:THR:HA | 14 | 0.77 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 6 | 0.77 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 8 | 0.77 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 16 | 0.77 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 11 | 0.77 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 3 | 0.77 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 6 | 0.77 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 17 | 0.77 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 14 | 0.77 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 20 | 0.77 |
| (1,6728) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 1 | 0.77 |
| (1,6588) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 20 | 0.77 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 13 | 0.77 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 2 | 0.77 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 6 | 0.77 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 17 | 0.77 |
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 16 | 0.77 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 10 | 0.77 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 4 | 0.77 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 17 | 0.77 |
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 17 | 0.77 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 19 | 0.77 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 6 | 0.77 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 15 | 0.77 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 13 | 0.77 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 5 | 0.77 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 3 | 0.77 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 10 | 0.77 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 16 | 0.77 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 8 | 0.77 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 4 | 0.77 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 17 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 1 | 0.77 |
| (1,5111) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 17 | 0.77 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 18 | 0.77 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 18 | 0.77 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 18 | 0.77 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 1 | 0.77 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 6 | 0.77 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 11 | 0.77 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 12 | 0.77 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 12 | 0.77 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 12 | 0.77 |
| (1,4708) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 15 | 0.77 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 4 | 0.77 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 2 | 0.77 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 2 | 0.77 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 2 | 0.77 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 6 | 0.77 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 6 | 0.77 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 4 | 0.77 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 4 | 0.77 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 4 | 0.77 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 16 | 0.77 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 16 | 0.77 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 1 | 0.77 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 1 | 0.77 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 1 | 0.77 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 1 | 0.77 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 1 | 0.77 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 1 | 0.77 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 7 | 0.77 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 7 | 0.77 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 16 | 0.77 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 16 | 0.77 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 5 | 0.77 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 5 | 0.77 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 3 | 0.77 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 3 | 0.77 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 2 | 0.77 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 2 | 0.77 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 7 | 0.77 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 7 | 0.77 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 16 | 0.77 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 18 | 0.77 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 18 | 0.77 |
| (1,4243) | 1:99:A:GLY:HA2 | 1:101:A:GLU:H | 5 | 0.77 |
| (1,4243) | 1:99:A:GLY:HA3 | 1:101:A:GLU:H | 5 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 5 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 5 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 5 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 5 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 5 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 5 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 13 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 13 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 13 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 13 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 13 | 0.77 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 13 | 0.77 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 11 | 0.77 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 6 | 0.77 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 6 | 0.77 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 6 | 0.77 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 6 | 0.77 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 6 | 0.77 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 6 | 0.77 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 11 | 0.77 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 11 | 0.77 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 11 | 0.77 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 11 | 0.77 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 11 | 0.77 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 11 | 0.77 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 1 | 0.77 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 1 | 0.77 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 6 | 0.77 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 6 | 0.77 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 6 | 0.77 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 6 | 0.77 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 6 | 0.77 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 6 | 0.77 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 6 | 0.77 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 3 | 0.77 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 11 | 0.77 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 8 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 8 | 0.77 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 16 | 0.77 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 16 | 0.77 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 17 | 0.77 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 17 | 0.77 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 12 | 0.77 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 12 | 0.77 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 12 | 0.77 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 18 | 0.77 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 9 | 0.77 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 9 | 0.77 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 9 | 0.77 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 15 | 0.77 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 16 | 0.77 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 11 | 0.77 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 11 | 0.77 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 5 | 0.77 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 5 | 0.77 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 8 | 0.77 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 5 | 0.77 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 5 | 0.77 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 1 | 0.77 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 1 | 0.77 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 7 | 0.77 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 19 | 0.77 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 19 | 0.77 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 19 | 0.77 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 19 | 0.77 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 19 | 0.77 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 19 | 0.77 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 19 | 0.77 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 19 | 0.77 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 19 | 0.77 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 9 | 0.77 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 9 | 0.77 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 17 | 0.77 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 16 | 0.77 |
| (1,2429) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 1 | 0.77 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 13 | 0.77 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 12 | 0.77 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 12 | 0.77 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 12 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 2 | 0.77 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 2 | 0.77 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 2 | 0.77 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 14 | 0.77 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 14 | 0.77 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 14 | 0.77 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 2 | 0.77 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 17 | 0.77 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 15 | 0.77 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 6 | 0.77 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 6 | 0.77 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 6 | 0.77 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 6 | 0.77 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 6 | 0.77 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 6 | 0.77 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 6 | 0.77 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 6 | 0.77 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 6 | 0.77 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 2 | 0.77 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 13 | 0.77 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 13 | 0.77 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 5 | 0.77 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 5 | 0.77 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 5 | 0.77 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 9 | 0.77 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 20 | 0.77 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 20 | 0.77 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 20 | 0.77 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 10 | 0.77 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 10 | 0.77 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 10 | 0.77 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 1 | 0.77 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 6 | 0.77 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 8 | 0.77 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 7 | 0.77 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 14 | 0.77 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 6 | 0.77 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 11 | 0.77 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 11 | 0.77 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 11 | 0.77 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 7 | 0.77 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 7 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 10 | 0.77 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 10 | 0.77 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 10 | 0.77 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 7 | 0.77 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 7 | 0.77 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 8 | 0.77 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 8 | 0.77 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 8 | 0.77 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 9 | 0.77 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 20 | 0.77 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 16 | 0.77 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 17 | 0.77 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 17 | 0.77 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 17 | 0.77 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 10 | 0.77 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 4 | 0.77 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 1 | 0.77 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 1 | 0.77 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 10 | 0.77 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 14 | 0.77 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 5 | 0.77 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 13 | 0.77 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 4 | 0.77 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 7 | 0.77 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 7 | 0.77 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 4 | 0.77 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 4 | 0.77 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 13 | 0.77 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 13 | 0.77 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 13 | 0.77 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 16 | 0.77 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 1 | 0.77 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 1 | 0.77 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 4 | 0.77 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 4 | 0.77 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 4 | 0.77 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 6 | 0.77 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 7 | 0.77 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 8 | 0.77 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 3 | 0.77 |
| (1,887) | 1:104:A:GLU:HA | 1:105:A:SER:H | 13 | 0.77 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 16 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 1 | 0.77 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 14 | 0.77 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 12 | 0.77 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 12 | 0.77 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 12 | 0.77 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 10 | 0.77 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 9 | 0.77 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 10 | 0.77 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 10 | 0.77 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 10 | 0.77 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 10 | 0.77 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 10 | 0.77 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 10 | 0.77 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 17 | 0.77 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 17 | 0.77 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 17 | 0.77 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 10 | 0.77 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 18 | 0.77 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 7 | 0.77 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 10 | 0.77 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 15 | 0.77 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 17 | 0.77 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 17 | 0.77 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 17 | 0.77 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 12 | 0.77 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 12 | 0.77 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 12 | 0.77 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 20 | 0.77 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 10 | 0.77 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 6 | 0.77 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 6 | 0.77 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 3 | 0.77 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 3 | 0.77 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 5 | 0.77 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 5 | 0.77 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 1 | 0.77 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 2 | 0.77 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 2 | 0.77 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 2 | 0.77 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 2 | 0.77 |
| (1,301) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 6 | 0.77 |
| (1,301) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 6 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,301) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 6 | 0.77 |
| (1,254) | 1:76:A:GLU:HA | 1:77:A:LYS:H | 3 | 0.77 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 10 | 0.77 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 17 | 0.77 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 7 | 0.77 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 7 | 0.77 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 9 | 0.77 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 5 | 0.77 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 5 | 0.77 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 5 | 0.77 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 18 | 0.77 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 18 | 0.77 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 18 | 0.77 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 1 | 0.77 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 6 | 0.77 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 18 | 0.77 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 18 | 0.77 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 18 | 0.77 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 4 | 0.77 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 10 | 0.77 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 20 | 0.77 |
| (4,279) | 1:90:A:ASN:CB | 1:36:A:ARG:H | 9 | 0.76 |
| (4,227) | 1:15:A:MET:CB | 1:87:A:GLU:H | 12 | 0.76 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 1 | 0.76 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 10 | 0.76 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 18 | 0.76 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 18 | 0.76 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 18 | 0.76 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 18 | 0.76 |
| (3,851) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 5 | 0.76 |
| (3,851) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 5 | 0.76 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 18 | 0.76 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 18 | 0.76 |
| (3,701) | 1:142:A:ARG:H | 1:145:A:GLU:H | 18 | 0.76 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 16 | 0.76 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 16 | 0.76 |
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 16 | 0.76 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 16 | 0.76 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 2 | 0.76 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 7 | 0.76 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 7 | 0.76 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 11 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 11 | 0.76 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 11 | 0.76 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 5 | 0.76 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 19 | 0.76 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 19 | 0.76 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 19 | 0.76 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 19 | 0.76 |
| (3,25) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 13 | 0.76 |
| (3,25) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 13 | 0.76 |
| (3,25) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 13 | 0.76 |
| (1,9593) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 6 | 0.76 |
| (1,9593) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 6 | 0.76 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 6 | 0.76 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 6 | 0.76 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 4 | 0.76 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 4 | 0.76 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 13 | 0.76 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 13 | 0.76 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 13 | 0.76 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 13 | 0.76 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 7 | 0.76 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 7 | 0.76 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 7 | 0.76 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 7 | 0.76 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 7 | 0.76 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 7 | 0.76 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 15 | 0.76 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 15 | 0.76 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 15 | 0.76 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 15 | 0.76 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 1 | 0.76 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 1 | 0.76 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 6 | 0.76 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 6 | 0.76 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 4 | 0.76 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 4 | 0.76 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 4 | 0.76 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 4 | 0.76 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 16 | 0.76 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 16 | 0.76 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 12 | 0.76 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 5 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 18 | 0.76 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 12 | 0.76 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 5 | 0.76 |
| (1,7330) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 12 | 0.76 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 3 | 0.76 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 4 | 0.76 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 14 | 0.76 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 18 | 0.76 |
| (1,6897) | 1:29:A:THR:H | 1:31:A:ALA:H | 7 | 0.76 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 20 | 0.76 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 6 | 0.76 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 11 | 0.76 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 17 | 0.76 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 3 | 0.76 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 1 | 0.76 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 6 | 0.76 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 11 | 0.76 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 8 | 0.76 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 8 | 0.76 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 8 | 0.76 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 8 | 0.76 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 8 | 0.76 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 8 | 0.76 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 8 | 0.76 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 8 | 0.76 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 8 | 0.76 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 18 | 0.76 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 18 | 0.76 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 18 | 0.76 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 12 | 0.76 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 18 | 0.76 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 20 | 0.76 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 20 | 0.76 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 20 | 0.76 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 12 | 0.76 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 16 | 0.76 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 19 | 0.76 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 18 | 0.76 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 18 | 0.76 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 5 | 0.76 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 5 | 0.76 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 5 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 6 | 0.76 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 8 | 0.76 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 18 | 0.76 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 20 | 0.76 |
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 16 | 0.76 |
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 16 | 0.76 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 16 | 0.76 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 14 | 0.76 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 14 | 0.76 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 14 | 0.76 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 12 | 0.76 |
| (1,5303) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 15 | 0.76 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 12 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 12 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 12 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 12 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 12 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 12 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 12 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 12 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 12 | 0.76 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 12 | 0.76 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 7 | 0.76 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 7 | 0.76 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 7 | 0.76 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 1 | 0.76 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 4 | 0.76 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 17 | 0.76 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 17 | 0.76 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 17 | 0.76 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 10 | 0.76 |
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 10 | 0.76 |
| (1,5107) | 1:80:A:ARG:HA | 1:81:A:THR:H | 1 | 0.76 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 4 | 0.76 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 4 | 0.76 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 4 | 0.76 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 18 | 0.76 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 18 | 0.76 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 18 | 0.76 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 18 | 0.76 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 19 | 0.76 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 12 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 12 | 0.76 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 12 | 0.76 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 15 | 0.76 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 15 | 0.76 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 15 | 0.76 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 7 | 0.76 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 1 | 0.76 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 1 | 0.76 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 1 | 0.76 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 11 | 0.76 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 11 | 0.76 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 11 | 0.76 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 10 | 0.76 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 10 | 0.76 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 4 | 0.76 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 16 | 0.76 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 16 | 0.76 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 6 | 0.76 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 6 | 0.76 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 6 | 0.76 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 6 | 0.76 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 6 | 0.76 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 6 | 0.76 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 11 | 0.76 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 11 | 0.76 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 11 | 0.76 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 11 | 0.76 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 11 | 0.76 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 11 | 0.76 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 4 | 0.76 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 4 | 0.76 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 4 | 0.76 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 4 | 0.76 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 8 | 0.76 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 8 | 0.76 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 12 | 0.76 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 12 | 0.76 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 9 | 0.76 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 9 | 0.76 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 8 | 0.76 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 8 | 0.76 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 8 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 14 | 0.76 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 14 | 0.76 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 20 | 0.76 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 13 | 0.76 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 2 | 0.76 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 5 | 0.76 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 14 | 0.76 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 19 | 0.76 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 3 | 0.76 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 3 | 0.76 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 3 | 0.76 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 7 | 0.76 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 5 | 0.76 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 19 | 0.76 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 9 | 0.76 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 9 | 0.76 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 10 | 0.76 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 2 | 0.76 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 18 | 0.76 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 9 | 0.76 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 9 | 0.76 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 9 | 0.76 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 9 | 0.76 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 9 | 0.76 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 9 | 0.76 |
| (1,2795) | 1:25:A:PHE:HD1 | 1:33:A:GLN:H | 14 | 0.76 |
| (1,2795) | 1:25:A:PHE:HD2 | 1:33:A:GLN:H | 14 | 0.76 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 15 | 0.76 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 15 | 0.76 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 16 | 0.76 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 16 | 0.76 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 16 | 0.76 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 10 | 0.76 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 10 | 0.76 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 10 | 0.76 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 10 | 0.76 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 10 | 0.76 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 10 | 0.76 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 10 | 0.76 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 10 | 0.76 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 10 | 0.76 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 3 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 3 | 0.76 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 3 | 0.76 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 2 | 0.76 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 2 | 0.76 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 3 | 0.76 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 3 | 0.76 |
| (1,2539) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 3 | 0.76 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 3 | 0.76 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 3 | 0.76 |
| (1,2539) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 3 | 0.76 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 5 | 0.76 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 3 | 0.76 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 17 | 0.76 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 3 | 0.76 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 9 | 0.76 |
| (1,2363) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 4 | 0.76 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 6 | 0.76 |
| (1,2327) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 9 | 0.76 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 13 | 0.76 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 4 | 0.76 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 8 | 0.76 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 14 | 0.76 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 19 | 0.76 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 8 | 0.76 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 8 | 0.76 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 8 | 0.76 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 3 | 0.76 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 11 | 0.76 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 10 | 0.76 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 10 | 0.76 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 10 | 0.76 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 20 | 0.76 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 20 | 0.76 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 20 | 0.76 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 2 | 0.76 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 2 | 0.76 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 2 | 0.76 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 14 | 0.76 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 14 | 0.76 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 14 | 0.76 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 7 | 0.76 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 7 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 7 | 0.76 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 14 | 0.76 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 19 | 0.76 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 4 | 0.76 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 4 | 0.76 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 4 | 0.76 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 15 | 0.76 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 15 | 0.76 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 15 | 0.76 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 17 | 0.76 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 12 | 0.76 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 12 | 0.76 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 12 | 0.76 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 18 | 0.76 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 18 | 0.76 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 18 | 0.76 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 20 | 0.76 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 8 | 0.76 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 8 | 0.76 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 8 | 0.76 |
| (1,1743) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 1 | 0.76 |
| (1,1743) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 1 | 0.76 |
| (1,1743) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 1 | 0.76 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 12 | 0.76 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 18 | 0.76 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 11 | 0.76 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 11 | 0.76 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 7 | 0.76 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 9 | 0.76 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 16 | 0.76 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 18 | 0.76 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 18 | 0.76 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 18 | 0.76 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 2 | 0.76 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 7 | 0.76 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 7 | 0.76 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 7 | 0.76 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 7 | 0.76 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 7 | 0.76 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 7 | 0.76 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 7 | 0.76 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 7 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 7 | 0.76 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 17 | 0.76 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 11 | 0.76 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 10 | 0.76 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 6 | 0.76 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 6 | 0.76 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 6 | 0.76 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 11 | 0.76 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 11 | 0.76 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 11 | 0.76 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 6 | 0.76 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 6 | 0.76 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 6 | 0.76 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 7 | 0.76 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 9 | 0.76 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 13 | 0.76 |
| (1,1117) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 1 | 0.76 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 17 | 0.76 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 7 | 0.76 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 7 | 0.76 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 7 | 0.76 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 2 | 0.76 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 2 | 0.76 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 2 | 0.76 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 15 | 0.76 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 15 | 0.76 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 15 | 0.76 |
| (1,955) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 15 | 0.76 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 3 | 0.76 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 3 | 0.76 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 3 | 0.76 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 6 | 0.76 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 2 | 0.76 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 3 | 0.76 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 9 | 0.76 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 9 | 0.76 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 9 | 0.76 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 9 | 0.76 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 9 | 0.76 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 9 | 0.76 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 12 | 0.76 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 15 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 19 | 0.76 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 3 | 0.76 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 3 | 0.76 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 3 | 0.76 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 18 | 0.76 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 6 | 0.76 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 6 | 0.76 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 8 | 0.76 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 18 | 0.76 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 20 | 0.76 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 1 | 0.76 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 1 | 0.76 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 1 | 0.76 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 4 | 0.76 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 13 | 0.76 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 13 | 0.76 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 13 | 0.76 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 14 | 0.76 |
| (1,427) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 6 | 0.76 |
| (1,420) | 1:86:A:LEU:HD21 | 1:87:A:GLU:H | 16 | 0.76 |
| (1,420) | 1:86:A:LEU:HD22 | 1:87:A:GLU:H | 16 | 0.76 |
| (1,420) | 1:86:A:LEU:HD23 | 1:87:A:GLU:H | 16 | 0.76 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 10 | 0.76 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 10 | 0.76 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 10 | 0.76 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 10 | 0.76 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 10 | 0.76 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 10 | 0.76 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 7 | 0.76 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 7 | 0.76 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 5 | 0.76 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 6 | 0.76 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 17 | 0.76 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 8 | 0.76 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 8 | 0.76 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 8 | 0.76 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 6 | 0.76 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 6 | 0.76 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 6 | 0.76 |
| (1,304) | 1:80:A:ARG:HA | 1:81:A:THR:H | 1 | 0.76 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 18 | 0.76 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 10 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 16 | 0.76 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 19 | 0.76 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 10 | 0.76 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 3 | 0.76 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 10 | 0.76 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 9 | 0.76 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 9 | 0.76 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 9 | 0.76 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 9 | 0.76 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 9 | 0.76 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 9 | 0.76 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 14 | 0.76 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 14 | 0.76 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 14 | 0.76 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 14 | 0.76 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 14 | 0.76 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 14 | 0.76 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 20 | 0.76 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 20 | 0.76 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 20 | 0.76 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 4 | 0.76 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 4 | 0.76 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 4 | 0.76 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 5 | 0.76 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 5 | 0.76 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 5 | 0.76 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 1 | 0.75 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 16 | 0.75 |
| (3,979) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 18 | 0.75 |
| (3,979) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 18 | 0.75 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 2 | 0.75 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 2 | 0.75 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 2 | 0.75 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 2 | 0.75 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 2 | 0.75 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 2 | 0.75 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 7 | 0.75 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 7 | 0.75 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 7 | 0.75 |
| (3,611) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 20 | 0.75 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 16 | 0.75 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 17 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 17 | 0.75 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 17 | 0.75 |
| (3,386) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 20 | 0.75 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE2 | 11 | 0.75 |
| (3,180) | 1:7:A:LEU:HG | 1:13:A:LYS:HE3 | 11 | 0.75 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 18 | 0.75 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 18 | 0.75 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 18 | 0.75 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 17 | 0.75 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 17 | 0.75 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 17 | 0.75 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 17 | 0.75 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 17 | 0.75 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 17 | 0.75 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 17 | 0.75 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 17 | 0.75 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 2 | 0.75 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 2 | 0.75 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 2 | 0.75 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 2 | 0.75 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 2 | 0.75 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 2 | 0.75 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 6 | 0.75 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 6 | 0.75 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 13 | 0.75 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 13 | 0.75 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 17 | 0.75 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 17 | 0.75 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 16 | 0.75 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 16 | 0.75 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 16 | 0.75 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 16 | 0.75 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 16 | 0.75 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 16 | 0.75 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 16 | 0.75 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 16 | 0.75 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 2 | 0.75 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 2 | 0.75 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 10 | 0.75 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 10 | 0.75 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 11 | 0.75 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 11 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 5 | 0.75 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 5 | 0.75 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 5 | 0.75 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 5 | 0.75 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 5 | 0.75 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 5 | 0.75 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 1 | 0.75 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 12 | 0.75 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 20 | 0.75 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 3 | 0.75 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 19 | 0.75 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 7 | 0.75 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 7 | 0.75 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 7 | 0.75 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 7 | 0.75 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 7 | 0.75 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 7 | 0.75 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 7 | 0.75 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 7 | 0.75 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 7 | 0.75 |
| (1,7900) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 4 | 0.75 |
| (1,7900) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 4 | 0.75 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 17 | 0.75 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 17 | 0.75 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 17 | 0.75 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 17 | 0.75 |
| (1,7277) | 1:11:A:TRP:HZ3 | 1:24:A:TYR:HB3 | 15 | 0.75 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 4 | 0.75 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 19 | 0.75 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 19 | 0.75 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 19 | 0.75 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 15 | 0.75 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 15 | 0.75 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 16 | 0.75 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 10 | 0.75 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 1 | 0.75 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 1 | 0.75 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 17 | 0.75 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 8 | 0.75 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 14 | 0.75 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 11 | 0.75 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 15 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 10 | 0.75 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 2 | 0.75 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 2 | 0.75 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 2 | 0.75 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 15 | 0.75 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 15 | 0.75 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 15 | 0.75 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 4 | 0.75 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 15 | 0.75 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 14 | 0.75 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 14 | 0.75 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 14 | 0.75 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 14 | 0.75 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 14 | 0.75 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 14 | 0.75 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 14 | 0.75 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 14 | 0.75 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 14 | 0.75 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 10 | 0.75 |
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 10 | 0.75 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 7 | 0.75 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 8 | 0.75 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 6 | 0.75 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 18 | 0.75 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 9 | 0.75 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 9 | 0.75 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 9 | 0.75 |
| (1,5726) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 4 | 0.75 |
| (1,5726) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 4 | 0.75 |
| (1,5726) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 4 | 0.75 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 20 | 0.75 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 5 | 0.75 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 5 | 0.75 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 5 | 0.75 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 16 | 0.75 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 18 | 0.75 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 2 | 0.75 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 15 | 0.75 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 15 | 0.75 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 15 | 0.75 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 2 | 0.75 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 2 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 2 | 0.75 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 2 | 0.75 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 2 | 0.75 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 2 | 0.75 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 3 | 0.75 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 3 | 0.75 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 3 | 0.75 |
| (1,4852) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 2 | 0.75 |
| (1,4852) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 2 | 0.75 |
| (1,4852) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 2 | 0.75 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 18 | 0.75 |
| (1,4783) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 18 | 0.75 |
| (1,4783) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 18 | 0.75 |
| (1,4783) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 18 | 0.75 |
| (1,4708) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 5 | 0.75 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 5 | 0.75 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 5 | 0.75 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 5 | 0.75 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 7 | 0.75 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 7 | 0.75 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 7 | 0.75 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 20 | 0.75 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 20 | 0.75 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 4 | 0.75 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 4 | 0.75 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 4 | 0.75 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 4 | 0.75 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 4 | 0.75 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 4 | 0.75 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 6 | 0.75 |
| (1,4523) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 6 | 0.75 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 6 | 0.75 |
| (1,4523) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 6 | 0.75 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 6 | 0.75 |
| (1,4523) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 6 | 0.75 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 8 | 0.75 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 8 | 0.75 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 11 | 0.75 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 11 | 0.75 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 11 | 0.75 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 11 | 0.75 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 11 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 11 | 0.75 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 14 | 0.75 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 1 | 0.75 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 1 | 0.75 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 13 | 0.75 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 13 | 0.75 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 16 | 0.75 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 16 | 0.75 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 3 | 0.75 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 3 | 0.75 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 3 | 0.75 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 3 | 0.75 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 3 | 0.75 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 3 | 0.75 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 1 | 0.75 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 1 | 0.75 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 5 | 0.75 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 16 | 0.75 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 19 | 0.75 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 20 | 0.75 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 20 | 0.75 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB2 | 18 | 0.75 |
| (1,3709) | 1:54:A:ARG:HB2 | 1:126:A:SER:HB3 | 18 | 0.75 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB2 | 18 | 0.75 |
| (1,3709) | 1:54:A:ARG:HB3 | 1:126:A:SER:HB3 | 18 | 0.75 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 15 | 0.75 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 15 | 0.75 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 9 | 0.75 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 2 | 0.75 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 2 | 0.75 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 2 | 0.75 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 9 | 0.75 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 9 | 0.75 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 9 | 0.75 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 1 | 0.75 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 7 | 0.75 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 18 | 0.75 |
| (1,3325) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 0.75 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 16 | 0.75 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 8 | 0.75 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 8 | 0.75 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 8 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 7 | 0.75 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 3 | 0.75 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 5 | 0.75 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 10 | 0.75 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 16 | 0.75 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 2 | 0.75 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 6 | 0.75 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 10 | 0.75 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 17 | 0.75 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 20 | 0.75 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 2 | 0.75 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 10 | 0.75 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 20 | 0.75 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 20 | 0.75 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 9 | 0.75 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 9 | 0.75 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 7 | 0.75 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 7 | 0.75 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD1 | 4 | 0.75 |
| (1,2743) | 1:23:A:TYR:H | 1:24:A:TYR:HD2 | 4 | 0.75 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 13 | 0.75 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 13 | 0.75 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 19 | 0.75 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 19 | 0.75 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 1 | 0.75 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 20 | 0.75 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 13 | 0.75 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 13 | 0.75 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 13 | 0.75 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 10 | 0.75 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 4 | 0.75 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 4 | 0.75 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 4 | 0.75 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 8 | 0.75 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 8 | 0.75 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 8 | 0.75 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 8 | 0.75 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 11 | 0.75 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 3 | 0.75 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 13 | 0.75 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 13 | 0.75 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 13 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 15 | 0.75 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 13 | 0.75 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 4 | 0.75 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 13 | 0.75 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 1 | 0.75 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 18 | 0.75 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 10 | 0.75 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 10 | 0.75 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 10 | 0.75 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 18 | 0.75 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 18 | 0.75 |
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 18 | 0.75 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 4 | 0.75 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 4 | 0.75 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 4 | 0.75 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 4 | 0.75 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 4 | 0.75 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 4 | 0.75 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 19 | 0.75 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 19 | 0.75 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 19 | 0.75 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 1 | 0.75 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 7 | 0.75 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 11 | 0.75 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 9 | 0.75 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 9 | 0.75 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 9 | 0.75 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 1 | 0.75 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 10 | 0.75 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 10 | 0.75 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 10 | 0.75 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 9 | 0.75 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 9 | 0.75 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 9 | 0.75 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 9 | 0.75 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 9 | 0.75 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 9 | 0.75 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 9 | 0.75 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 9 | 0.75 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 9 | 0.75 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 6 | 0.75 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 6 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 8 | 0.75 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 8 | 0.75 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 8 | 0.75 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 8 | 0.75 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 8 | 0.75 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 8 | 0.75 |
| (1,1707) | 1:139:A:PHE:H | 1:139:A:PHE:HA | 8 | 0.75 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 11 | 0.75 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 11 | 0.75 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 11 | 0.75 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 11 | 0.75 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 11 | 0.75 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 11 | 0.75 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 11 | 0.75 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 11 | 0.75 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 11 | 0.75 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 4 | 0.75 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 4 | 0.75 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 4 | 0.75 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 20 | 0.75 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 20 | 0.75 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 20 | 0.75 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 2 | 0.75 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 11 | 0.75 |
| (1,1335) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 6 | 0.75 |
| (1,1335) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 6 | 0.75 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 20 | 0.75 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 9 | 0.75 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD11 | 8 | 0.75 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD12 | 8 | 0.75 |
| (1,1279) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD13 | 8 | 0.75 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 20 | 0.75 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 20 | 0.75 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 20 | 0.75 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 16 | 0.75 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 16 | 0.75 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 16 | 0.75 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 16 | 0.75 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 16 | 0.75 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 16 | 0.75 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 10 | 0.75 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 10 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 10 | 0.75 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 18 | 0.75 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 10 | 0.75 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 11 | 0.75 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 11 | 0.75 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 8 | 0.75 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 20 | 0.75 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 1 | 0.75 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 1 | 0.75 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 1 | 0.75 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 19 | 0.75 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 19 | 0.75 |
| (1,983) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 19 | 0.75 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 7 | 0.75 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 7 | 0.75 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 7 | 0.75 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 1 | 0.75 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 14 | 0.75 |
| (1,901) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 13 | 0.75 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 3 | 0.75 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 11 | 0.75 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 11 | 0.75 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 11 | 0.75 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 11 | 0.75 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 11 | 0.75 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 11 | 0.75 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 20 | 0.75 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 20 | 0.75 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 20 | 0.75 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 20 | 0.75 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 20 | 0.75 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 20 | 0.75 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 1 | 0.75 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 13 | 0.75 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 11 | 0.75 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 11 | 0.75 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 2 | 0.75 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 2 | 0.75 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 1 | 0.75 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 11 | 0.75 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 3 | 0.75 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 18 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 19 | 0.75 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 14 | 0.75 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 14 | 0.75 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 14 | 0.75 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 16 | 0.75 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 2 | 0.75 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 11 | 0.75 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 20 | 0.75 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 20 | 0.75 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 20 | 0.75 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 20 | 0.75 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 20 | 0.75 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 20 | 0.75 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 20 | 0.75 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 20 | 0.75 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 20 | 0.75 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 11 | 0.75 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 15 | 0.75 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 3 | 0.75 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 4 | 0.75 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 9 | 0.75 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 19 | 0.75 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 19 | 0.75 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 19 | 0.75 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 19 | 0.75 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 13 | 0.75 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 13 | 0.75 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 13 | 0.75 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 16 | 0.75 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 2 | 0.75 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 2 | 0.75 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 2 | 0.75 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 6 | 0.75 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 12 | 0.75 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 6 | 0.75 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 14 | 0.75 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 1 | 0.75 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 1 | 0.75 |
| (1,322) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 1 | 0.75 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 16 | 0.75 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 18 | 0.75 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 17 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 17 | 0.75 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 17 | 0.75 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 1 | 0.75 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 1 | 0.75 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 1 | 0.75 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 14 | 0.75 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 14 | 0.75 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 14 | 0.75 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 11 | 0.75 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 11 | 0.75 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 15 | 0.75 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 15 | 0.75 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 15 | 0.75 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 2 | 0.75 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 2 | 0.75 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 2 | 0.75 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 18 | 0.75 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 18 | 0.75 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 18 | 0.75 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 18 | 0.75 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 18 | 0.75 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 18 | 0.75 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 4 | 0.75 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 4 | 0.75 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 4 | 0.75 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 5 | 0.75 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 5 | 0.75 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 5 | 0.75 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 15 | 0.75 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 15 | 0.75 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 15 | 0.75 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 10 | 0.75 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 10 | 0.75 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 10 | 0.75 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 7 | 0.75 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 7 | 0.75 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 7 | 0.75 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 7 | 0.75 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 7 | 0.75 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 7 | 0.75 |
| (4,200) | 1:131:A:GLN:CB | 1:29:A:THR:H | 18 | 0.74 |
| (4,89) | 1:15:A:MET:CB | 1:150:A:VAL:H | 5 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD2 | 4 | 0.74 |
| (3,945) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HD3 | 4 | 0.74 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD2 | 4 | 0.74 |
| (3,945) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HD3 | 4 | 0.74 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 17 | 0.74 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 17 | 0.74 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 10 | 0.74 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 10 | 0.74 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 10 | 0.74 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 18 | 0.74 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 18 | 0.74 |
| (3,545) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 8 | 0.74 |
| (3,545) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 8 | 0.74 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 18 | 0.74 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 18 | 0.74 |
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 18 | 0.74 |
| (3,484) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 10 | 0.74 |
| (3,474) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 17 | 0.74 |
| (3,474) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 17 | 0.74 |
| (3,474) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 17 | 0.74 |
| (3,373) | 1:59:A:HIS:H | 1:107:A:ALA:HB1 | 4 | 0.74 |
| (3,373) | 1:59:A:HIS:H | 1:107:A:ALA:HB2 | 4 | 0.74 |
| (3,373) | 1:59:A:HIS:H | 1:107:A:ALA:HB3 | 4 | 0.74 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG21 | 19 | 0.74 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG22 | 19 | 0.74 |
| (3,223) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG23 | 19 | 0.74 |
| (3,104) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 3 | 0.74 |
| (3,104) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 3 | 0.74 |
| (3,21) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 6 | 0.74 |
| (3,21) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 6 | 0.74 |
| (3,21) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 6 | 0.74 |
| (1,9586) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB2 | 4 | 0.74 |
| (1,9586) | 1:150:A:VAL:HG21 | 1:157:A:HIS:HB3 | 4 | 0.74 |
| (1,9586) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB2 | 4 | 0.74 |
| (1,9586) | 1:150:A:VAL:HG22 | 1:157:A:HIS:HB3 | 4 | 0.74 |
| (1,9586) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB2 | 4 | 0.74 |
| (1,9586) | 1:150:A:VAL:HG23 | 1:157:A:HIS:HB3 | 4 | 0.74 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 8 | 0.74 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 8 | 0.74 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 15 | 0.74 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 15 | 0.74 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 15 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 15 | 0.74 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 15 | 0.74 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 15 | 0.74 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 11 | 0.74 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 11 | 0.74 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 13 | 0.74 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 13 | 0.74 |
| (1,9031) | 1:80:A:ARG:HD2 | 1:85:A:ALA:H | 3 | 0.74 |
| (1,9031) | 1:80:A:ARG:HD3 | 1:85:A:ALA:H | 3 | 0.74 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 1 | 0.74 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 1 | 0.74 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 1 | 0.74 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 1 | 0.74 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 10 | 0.74 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 10 | 0.74 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 10 | 0.74 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 10 | 0.74 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 10 | 0.74 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 10 | 0.74 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 10 | 0.74 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 10 | 0.74 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 8 | 0.74 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 8 | 0.74 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 8 | 0.74 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 8 | 0.74 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 8 | 0.74 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 8 | 0.74 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 10 | 0.74 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 10 | 0.74 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 17 | 0.74 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 17 | 0.74 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 17 | 0.74 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 17 | 0.74 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 13 | 0.74 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 13 | 0.74 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 4 | 0.74 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 4 | 0.74 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 4 | 0.74 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 4 | 0.74 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 4 | 0.74 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 4 | 0.74 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 7 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 12 | 0.74 |
| (1,8008) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 5 | 0.74 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 6 | 0.74 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 19 | 0.74 |
| (1,7581) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 8 | 0.74 |
| (1,7561) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 10 | 0.74 |
| (1,7561) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 10 | 0.74 |
| (1,7561) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 10 | 0.74 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 5 | 0.74 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 18 | 0.74 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 18 | 0.74 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 18 | 0.74 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 16 | 0.74 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 9 | 0.74 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 9 | 0.74 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 13 | 0.74 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 13 | 0.74 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 1 | 0.74 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 1 | 0.74 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 2 | 0.74 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 2 | 0.74 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 2 | 0.74 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 7 | 0.74 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 7 | 0.74 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 16 | 0.74 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 16 | 0.74 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 6 | 0.74 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 3 | 0.74 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 3 | 0.74 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 5 | 0.74 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 12 | 0.74 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 16 | 0.74 |
| (1,6670) | 1:14:A:ARG:HA | 1:15:A:MET:H | 4 | 0.74 |
| (1,6670) | 1:14:A:ARG:HA | 1:15:A:MET:H | 20 | 0.74 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 19 | 0.74 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 19 | 0.74 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 17 | 0.74 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 17 | 0.74 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 20 | 0.74 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 20 | 0.74 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 20 | 0.74 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 20 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 20 | 0.74 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 20 | 0.74 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 11 | 0.74 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 16 | 0.74 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 18 | 0.74 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 1 | 0.74 |
| (1,6354) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 1 | 0.74 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 18 | 0.74 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 19 | 0.74 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 19 | 0.74 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 4 | 0.74 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 5 | 0.74 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 5 | 0.74 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 10 | 0.74 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 10 | 0.74 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 10 | 0.74 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 10 | 0.74 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 10 | 0.74 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 10 | 0.74 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 2 | 0.74 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 9 | 0.74 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 0.74 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 4 | 0.74 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 16 | 0.74 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 16 | 0.74 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 16 | 0.74 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 18 | 0.74 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 18 | 0.74 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 18 | 0.74 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 18 | 0.74 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 18 | 0.74 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 18 | 0.74 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 18 | 0.74 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 18 | 0.74 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 18 | 0.74 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 19 | 0.74 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 3 | 0.74 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 8 | 0.74 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 8 | 0.74 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 6 | 0.74 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 12 | 0.74 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 11 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 9 | 0.74 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 1 | 0.74 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 1 | 0.74 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 1 | 0.74 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 3 | 0.74 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 3 | 0.74 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 3 | 0.74 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 14 | 0.74 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 17 | 0.74 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 5 | 0.74 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 7 | 0.74 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 7 | 0.74 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 7 | 0.74 |
| (1,5239) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 2 | 0.74 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 18 | 0.74 |
| (1,5107) | 1:80:A:ARG:HA | 1:81:A:THR:H | 11 | 0.74 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 6 | 0.74 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 19 | 0.74 |
| (1,4787) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 3 | 0.74 |
| (1,4769) | 1:58:A:SER:H | 1:160:A:LEU:H | 20 | 0.74 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 13 | 0.74 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 13 | 0.74 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 13 | 0.74 |
| (1,4708) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 4 | 0.74 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 5 | 0.74 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 5 | 0.74 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 5 | 0.74 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 20 | 0.74 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 20 | 0.74 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 20 | 0.74 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 10 | 0.74 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 10 | 0.74 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 10 | 0.74 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 10 | 0.74 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 10 | 0.74 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 10 | 0.74 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 16 | 0.74 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 16 | 0.74 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 10 | 0.74 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 10 | 0.74 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 10 | 0.74 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 19 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 19 | 0.74 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 11 | 0.74 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 11 | 0.74 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 7 | 0.74 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 7 | 0.74 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 3 | 0.74 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 3 | 0.74 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 13 | 0.74 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 13 | 0.74 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 13 | 0.74 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 13 | 0.74 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 13 | 0.74 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 13 | 0.74 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 18 | 0.74 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 18 | 0.74 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 18 | 0.74 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 18 | 0.74 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 18 | 0.74 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 18 | 0.74 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 1 | 0.74 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 5 | 0.74 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 8 | 0.74 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 3 | 0.74 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 18 | 0.74 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 3 | 0.74 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 3 | 0.74 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 3 | 0.74 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 11 | 0.74 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 11 | 0.74 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 6 | 0.74 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 12 | 0.74 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 16 | 0.74 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 17 | 0.74 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 9 | 0.74 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 9 | 0.74 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 9 | 0.74 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 19 | 0.74 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 19 | 0.74 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 2 | 0.74 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 2 | 0.74 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 2 | 0.74 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 7 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 6 | 0.74 |
| (1,3173) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 4 | 0.74 |
| (1,3173) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 4 | 0.74 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 12 | 0.74 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 5 | 0.74 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 5 | 0.74 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 5 | 0.74 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 10 | 0.74 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 10 | 0.74 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 17 | 0.74 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 17 | 0.74 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 4 | 0.74 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 11 | 0.74 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 19 | 0.74 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 19 | 0.74 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 19 | 0.74 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 6 | 0.74 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 6 | 0.74 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 6 | 0.74 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 9 | 0.74 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 3 | 0.74 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 5 | 0.74 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 19 | 0.74 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 19 | 0.74 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 12 | 0.74 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 4 | 0.74 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 4 | 0.74 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 4 | 0.74 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 3 | 0.74 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 3 | 0.74 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 3 | 0.74 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 9 | 0.74 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 2 | 0.74 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 19 | 0.74 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 17 | 0.74 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 2 | 0.74 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 2 | 0.74 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 2 | 0.74 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 11 | 0.74 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 16 | 0.74 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 18 | 0.74 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 6 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 6 | 0.74 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 13 | 0.74 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 13 | 0.74 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 13 | 0.74 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 15 | 0.74 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 15 | 0.74 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 15 | 0.74 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 15 | 0.74 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 11 | 0.74 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 11 | 0.74 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 11 | 0.74 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 14 | 0.74 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 14 | 0.74 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 14 | 0.74 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 19 | 0.74 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 19 | 0.74 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 19 | 0.74 |
| (1,2035) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 1 | 0.74 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 15 | 0.74 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 15 | 0.74 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 15 | 0.74 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 11 | 0.74 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 10 | 0.74 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 10 | 0.74 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 10 | 0.74 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 14 | 0.74 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 4 | 0.74 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 2 | 0.74 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 5 | 0.74 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 18 | 0.74 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 10 | 0.74 |
| (1,1851) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 10 | 0.74 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 10 | 0.74 |
| (1,1851) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 10 | 0.74 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 19 | 0.74 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 20 | 0.74 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 4 | 0.74 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 10 | 0.74 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 19 | 0.74 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 10 | 0.74 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 5 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 2 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 2 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 3 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 3 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 4 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 4 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 5 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 5 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 8 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 8 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 9 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 9 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 12 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 12 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 13 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 13 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE22 | 14 | 0.74 |
| (1,1527) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE22 | 14 | 0.74 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 14 | 0.74 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 14 | 0.74 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 10 | 0.74 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 10 | 0.74 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 10 | 0.74 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 7 | 0.74 |
| (1,1209) | 1:118:A:ALA:HB1 | 1:119:A:ARG:H | 17 | 0.74 |
| (1,1209) | 1:118:A:ALA:HB2 | 1:119:A:ARG:H | 17 | 0.74 |
| (1,1209) | 1:118:A:ALA:HB3 | 1:119:A:ARG:H | 17 | 0.74 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 16 | 0.74 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 16 | 0.74 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 16 | 0.74 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 18 | 0.74 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 3 | 0.74 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 3 | 0.74 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 3 | 0.74 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 19 | 0.74 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 1 | 0.74 |
| (1,1087) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 7 | 0.74 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 16 | 0.74 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 16 | 0.74 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 16 | 0.74 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 10 | 0.74 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 4 | 0.74 |
| (1,909) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 13 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 17 | 0.74 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 17 | 0.74 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 17 | 0.74 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 3 | 0.74 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 8 | 0.74 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 15 | 0.74 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 7 | 0.74 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 18 | 0.74 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 18 | 0.74 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 18 | 0.74 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 18 | 0.74 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 18 | 0.74 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 18 | 0.74 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 1 | 0.74 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 10 | 0.74 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 4 | 0.74 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 4 | 0.74 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 4 | 0.74 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 10 | 0.74 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 10 | 0.74 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 10 | 0.74 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 5 | 0.74 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 5 | 0.74 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 17 | 0.74 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 17 | 0.74 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 17 | 0.74 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 6 | 0.74 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 1 | 0.74 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 11 | 0.74 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 5 | 0.74 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 5 | 0.74 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 5 | 0.74 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 5 | 0.74 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 5 | 0.74 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 5 | 0.74 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 5 | 0.74 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 5 | 0.74 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 5 | 0.74 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 9 | 0.74 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 10 | 0.74 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 10 | 0.74 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 10 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 17 | 0.74 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 7 | 0.74 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 7 | 0.74 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 7 | 0.74 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 7 | 0.74 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 7 | 0.74 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 7 | 0.74 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 20 | 0.74 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 2 | 0.74 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 20 | 0.74 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 14 | 0.74 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 17 | 0.74 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 1 | 0.74 |
| (1,408) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 13 | 0.74 |
| (1,358) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 2 | 0.74 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 9 | 0.74 |
| (1,304) | 1:80:A:ARG:HA | 1:81:A:THR:H | 11 | 0.74 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 1 | 0.74 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 8 | 0.74 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 16 | 0.74 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 6 | 0.74 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 16 | 0.74 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 16 | 0.74 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 18 | 0.74 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 18 | 0.74 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 1 | 0.74 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 1 | 0.74 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 1 | 0.74 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 1 | 0.74 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 1 | 0.74 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 1 | 0.74 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 1 | 0.74 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 1 | 0.74 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 1 | 0.74 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 4 | 0.74 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 4 | 0.74 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 4 | 0.74 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 14 | 0.74 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 14 | 0.74 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 14 | 0.74 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 2 | 0.74 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 2 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 2 | 0.74 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 2 | 0.74 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 2 | 0.74 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 2 | 0.74 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 5 | 0.74 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 5 | 0.74 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 5 | 0.74 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 5 | 0.74 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 5 | 0.74 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 5 | 0.74 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 4 | 0.74 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 8 | 0.74 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 8 | 0.74 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 8 | 0.74 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 8 | 0.74 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 15 | 0.74 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 15 | 0.74 |
| (4,238) | 1:15:A:MET:CB | 1:117:A:LYS:H | 6 | 0.73 |
| (4,199) | 1:131:A:GLN:CB | 1:28:A:ILE:H | 18 | 0.73 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 18 | 0.73 |
| (3,851) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 19 | 0.73 |
| (3,851) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 19 | 0.73 |
| (3,801) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 12 | 0.73 |
| (3,801) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 12 | 0.73 |
| (3,747) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 7 | 0.73 |
| (3,747) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 7 | 0.73 |
| (3,747) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 7 | 0.73 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 1 | 0.73 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 1 | 0.73 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 1 | 0.73 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 19 | 0.73 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 19 | 0.73 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 19 | 0.73 |
| (3,440) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 13 | 0.73 |
| (3,440) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 13 | 0.73 |
| (3,286) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HG13 | 20 | 0.73 |
| (3,286) | 1:26:A:ASN:HD22 | 1:28:A:ILE:HG13 | 20 | 0.73 |
| (3,235) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 17 | 0.73 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 1 | 0.73 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 1 | 0.73 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 7 | 0.73 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 7 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 4 | 0.73 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 4 | 0.73 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 5 | 0.73 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 5 | 0.73 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 9 | 0.73 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 9 | 0.73 |
| (1,9417) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 6 | 0.73 |
| (1,9417) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 6 | 0.73 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 5 | 0.73 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 5 | 0.73 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 1 | 0.73 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 1 | 0.73 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 2 | 0.73 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 2 | 0.73 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 2 | 0.73 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 2 | 0.73 |
| (1,9180) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 14 | 0.73 |
| (1,9180) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 14 | 0.73 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 19 | 0.73 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 19 | 0.73 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 19 | 0.73 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 19 | 0.73 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 19 | 0.73 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 19 | 0.73 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 10 | 0.73 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 10 | 0.73 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 11 | 0.73 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 0.73 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 10 | 0.73 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 10 | 0.73 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 10 | 0.73 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 10 | 0.73 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 10 | 0.73 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 10 | 0.73 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 14 | 0.73 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 14 | 0.73 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 14 | 0.73 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 14 | 0.73 |
| (1,8760) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 13 | 0.73 |
| (1,8760) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 13 | 0.73 |
| (1,8760) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 13 | 0.73 |
| (1,8760) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 13 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8760) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 13 | 0.73 |
| (1,8760) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 13 | 0.73 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 9 | 0.73 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 9 | 0.73 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 7 | 0.73 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 7 | 0.73 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 13 | 0.73 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 13 | 0.73 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 12 | 0.73 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 12 | 0.73 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 12 | 0.73 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 12 | 0.73 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 12 | 0.73 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 12 | 0.73 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 4 | 0.73 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 4 | 0.73 |
| (1,8628) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 1 | 0.73 |
| (1,8628) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 1 | 0.73 |
| (1,8628) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 1 | 0.73 |
| (1,8628) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 1 | 0.73 |
| (1,8628) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 1 | 0.73 |
| (1,8628) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 1 | 0.73 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 4 | 0.73 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 4 | 0.73 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 4 | 0.73 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 8 | 0.73 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 13 | 0.73 |
| (1,8261) | 1:119:A:ARG:H | 1:121:A:ASP:H | 5 | 0.73 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 13 | 0.73 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 7 | 0.73 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 8 | 0.73 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 8 | 0.73 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 14 | 0.73 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 15 | 0.73 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 2 | 0.73 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 15 | 0.73 |
| (1,7330) | 1:87:A:GLU:HA | 1:90:A:ASN:HB3 | 5 | 0.73 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 18 | 0.73 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 18 | 0.73 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 6 | 0.73 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 6 | 0.73 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 6 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 2 | 0.73 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 11 | 0.73 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 1 | 0.73 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 1 | 0.73 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 10 | 0.73 |
| (1,6927) | 1:26:A:ASN:H | 1:32:A:SER:HA | 20 | 0.73 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 4 | 0.73 |
| (1,6890) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 7 | 0.73 |
| (1,6890) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 7 | 0.73 |
| (1,6890) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 7 | 0.73 |
| (1,6831) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 2 | 0.73 |
| (1,6831) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 11 | 0.73 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 6 | 0.73 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 3 | 0.73 |
| (1,6670) | 1:14:A:ARG:HA | 1:15:A:MET:H | 5 | 0.73 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 12 | 0.73 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 12 | 0.73 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 19 | 0.73 |
| (1,6488) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 4 | 0.73 |
| (1,6488) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 14 | 0.73 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 1 | 0.73 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 1 | 0.73 |
| (1,6354) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 7 | 0.73 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 2 | 0.73 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 2 | 0.73 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 2 | 0.73 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 5 | 0.73 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 5 | 0.73 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 5 | 0.73 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 18 | 0.73 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 18 | 0.73 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 18 | 0.73 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 18 | 0.73 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 18 | 0.73 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 18 | 0.73 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 6 | 0.73 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 6 | 0.73 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 6 | 0.73 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 14 | 0.73 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 9 | 0.73 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 9 | 0.73 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 9 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 7 | 0.73 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 7 | 0.73 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 7 | 0.73 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 7 | 0.73 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 7 | 0.73 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 7 | 0.73 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 7 | 0.73 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 7 | 0.73 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 7 | 0.73 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 1 | 0.73 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 1 | 0.73 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 1 | 0.73 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 1 | 0.73 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 1 | 0.73 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 1 | 0.73 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 1 | 0.73 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 1 | 0.73 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 1 | 0.73 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 15 | 0.73 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 15 | 0.73 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 11 | 0.73 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 11 | 0.73 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 11 | 0.73 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 11 | 0.73 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 11 | 0.73 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 11 | 0.73 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 3 | 0.73 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 5 | 0.73 |
| (1,5850) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 20 | 0.73 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 8 | 0.73 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 8 | 0.73 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 8 | 0.73 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 18 | 0.73 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 18 | 0.73 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 18 | 0.73 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 8 | 0.73 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 8 | 0.73 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 15 | 0.73 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 15 | 0.73 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 15 | 0.73 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 2 | 0.73 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 20 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 8 | 0.73 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 8 | 0.73 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 8 | 0.73 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 8 | 0.73 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 8 | 0.73 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 8 | 0.73 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 7 | 0.73 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 7 | 0.73 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 7 | 0.73 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 13 | 0.73 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 6 | 0.73 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 5 | 0.73 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 7 | 0.73 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 10 | 0.73 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 13 | 0.73 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 20 | 0.73 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 11 | 0.73 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 17 | 0.73 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 2 | 0.73 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 2 | 0.73 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 2 | 0.73 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 9 | 0.73 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 9 | 0.73 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 7 | 0.73 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 7 | 0.73 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 7 | 0.73 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 3 | 0.73 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 3 | 0.73 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 3 | 0.73 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 2 | 0.73 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 2 | 0.73 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 2 | 0.73 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 10 | 0.73 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 16 | 0.73 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 17 | 0.73 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 17 | 0.73 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 17 | 0.73 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 14 | 0.73 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 14 | 0.73 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 9 | 0.73 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 9 | 0.73 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 3 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 3 | 0.73 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 9 | 0.73 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 9 | 0.73 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 9 | 0.73 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 9 | 0.73 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 14 | 0.73 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 14 | 0.73 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 10 | 0.73 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 3 | 0.73 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 1 | 0.73 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 1 | 0.73 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 15 | 0.73 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 1 | 0.73 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 1 | 0.73 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 10 | 0.73 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 10 | 0.73 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 10 | 0.73 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 10 | 0.73 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 10 | 0.73 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 10 | 0.73 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 19 | 0.73 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 19 | 0.73 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 16 | 0.73 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 16 | 0.73 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 12 | 0.73 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 12 | 0.73 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 8 | 0.73 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 8 | 0.73 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 8 | 0.73 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 1 | 0.73 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 1 | 0.73 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 13 | 0.73 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 16 | 0.73 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 17 | 0.73 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 15 | 0.73 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 12 | 0.73 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 12 | 0.73 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 12 | 0.73 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 14 | 0.73 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 14 | 0.73 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 14 | 0.73 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 10 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 11 | 0.73 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 6 | 0.73 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 6 | 0.73 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 11 | 0.73 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 13 | 0.73 |
| (1,3309) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 17 | 0.73 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 3 | 0.73 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 3 | 0.73 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 10 | 0.73 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 10 | 0.73 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 10 | 0.73 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 6 | 0.73 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 10 | 0.73 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 15 | 0.73 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 15 | 0.73 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 15 | 0.73 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 8 | 0.73 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 8 | 0.73 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 17 | 0.73 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 17 | 0.73 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 2 | 0.73 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 2 | 0.73 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 16 | 0.73 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 4 | 0.73 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 18 | 0.73 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 20 | 0.73 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 10 | 0.73 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 4 | 0.73 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 4 | 0.73 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 10 | 0.73 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 4 | 0.73 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 17 | 0.73 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 17 | 0.73 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 17 | 0.73 |
| (1,2815) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 2 | 0.73 |
| (1,2815) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 11 | 0.73 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 3 | 0.73 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 10 | 0.73 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 10 | 0.73 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 17 | 0.73 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 17 | 0.73 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 4 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 6 | 0.73 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 12 | 0.73 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 12 | 0.73 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 18 | 0.73 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 18 | 0.73 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 17 | 0.73 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 17 | 0.73 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 7 | 0.73 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 7 | 0.73 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 7 | 0.73 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 7 | 0.73 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 3 | 0.73 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 3 | 0.73 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 3 | 0.73 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 3 | 0.73 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 3 | 0.73 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 3 | 0.73 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 3 | 0.73 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 3 | 0.73 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 3 | 0.73 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 8 | 0.73 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 15 | 0.73 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 15 | 0.73 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 15 | 0.73 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 5 | 0.73 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 11 | 0.73 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 11 | 0.73 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 9 | 0.73 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 9 | 0.73 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 9 | 0.73 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 2 | 0.73 |
| (1,2427) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 4 | 0.73 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 11 | 0.73 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 11 | 0.73 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 11 | 0.73 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 13 | 0.73 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 19 | 0.73 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 3 | 0.73 |
| (1,2285) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 4 | 0.73 |
| (1,2285) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 14 | 0.73 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 12 | 0.73 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 5 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 3 | 0.73 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 3 | 0.73 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 3 | 0.73 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 4 | 0.73 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 1 | 0.73 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 1 | 0.73 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 1 | 0.73 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 10 | 0.73 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 10 | 0.73 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 10 | 0.73 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 17 | 0.73 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 17 | 0.73 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 17 | 0.73 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 8 | 0.73 |
| (1,2035) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 7 | 0.73 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 15 | 0.73 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 15 | 0.73 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 12 | 0.73 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 12 | 0.73 |
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 12 | 0.73 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 17 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 4 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 4 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 4 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 4 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 4 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 4 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 4 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 4 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 4 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 12 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 12 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 12 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 12 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 12 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 12 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 12 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 12 | 0.73 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 12 | 0.73 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 13 | 0.73 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 13 | 0.73 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 13 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 10 | 0.73 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 10 | 0.73 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 8 | 0.73 |
| (1,1865) | 1:146:A:MET:HA | 1:146:A:MET:HG2 | 6 | 0.73 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 17 | 0.73 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 9 | 0.73 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 12 | 0.73 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 3 | 0.73 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 7 | 0.73 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 7 | 0.73 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 7 | 0.73 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 14 | 0.73 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 14 | 0.73 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 14 | 0.73 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 12 | 0.73 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 12 | 0.73 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 12 | 0.73 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 14 | 0.73 |
| (1,1577) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 8 | 0.73 |
| (1,1577) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 8 | 0.73 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 16 | 0.73 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 15 | 0.73 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 10 | 0.73 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 10 | 0.73 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 10 | 0.73 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 5 | 0.73 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 8 | 0.73 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 8 | 0.73 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 6 | 0.73 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 2 | 0.73 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 2 | 0.73 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 2 | 0.73 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 7 | 0.73 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 7 | 0.73 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 5 | 0.73 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 5 | 0.73 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 5 | 0.73 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 7 | 0.73 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 16 | 0.73 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 16 | 0.73 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 16 | 0.73 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 2 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 12 | 0.73 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 19 | 0.73 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 7 | 0.73 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 15 | 0.73 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 8 | 0.73 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 8 | 0.73 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 8 | 0.73 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 3 | 0.73 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 3 | 0.73 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 3 | 0.73 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 8 | 0.73 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 10 | 0.73 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 10 | 0.73 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 10 | 0.73 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 12 | 0.73 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 12 | 0.73 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 12 | 0.73 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 2 | 0.73 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 20 | 0.73 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 19 | 0.73 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 11 | 0.73 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 16 | 0.73 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 16 | 0.73 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 16 | 0.73 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 16 | 0.73 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 16 | 0.73 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 11 | 0.73 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 11 | 0.73 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 11 | 0.73 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 16 | 0.73 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 15 | 0.73 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 18 | 0.73 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 1 | 0.73 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 1 | 0.73 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 1 | 0.73 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 1 | 0.73 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 5 | 0.73 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 5 | 0.73 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 5 | 0.73 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 7 | 0.73 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 2 | 0.73 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 14 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 1 | 0.73 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 6 | 0.73 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 11 | 0.73 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 1 | 0.73 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 1 | 0.73 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 17 | 0.73 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 17 | 0.73 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 1 | 0.73 |
| (1,347) | 1:82:A:LYS:HA | 1:82:A:LYS:HG3 | 9 | 0.73 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 11 | 0.73 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 10 | 0.73 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 10 | 0.73 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 10 | 0.73 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 8 | 0.73 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 7 | 0.73 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 7 | 0.73 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 7 | 0.73 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 3 | 0.73 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 8 | 0.73 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 2 | 0.73 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 4 | 0.73 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 7 | 0.73 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 10 | 0.73 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 12 | 0.73 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 13 | 0.73 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 15 | 0.73 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 18 | 0.73 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 8 | 0.73 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 8 | 0.73 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 8 | 0.73 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 17 | 0.73 |
| (1,166) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 6 | 0.73 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 9 | 0.73 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 8 | 0.73 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 17 | 0.73 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 17 | 0.73 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 17 | 0.73 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 3 | 0.73 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 3 | 0.73 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 3 | 0.73 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 1 | 0.73 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 1 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 1 | 0.73 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 1 | 0.73 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 1 | 0.73 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 1 | 0.73 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 5 | 0.73 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 5 | 0.73 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 5 | 0.73 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 16 | 0.72 |
| (4,94) | 1:15:A:MET:CB | 1:155:A:GLY:H | 14 | 0.72 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 13 | 0.72 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 13 | 0.72 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 3 | 0.72 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 3 | 0.72 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 20 | 0.72 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 20 | 0.72 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 4 | 0.72 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 4 | 0.72 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 4 | 0.72 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 10 | 0.72 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 10 | 0.72 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 10 | 0.72 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 3 | 0.72 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 3 | 0.72 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 3 | 0.72 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 6 | 0.72 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 6 | 0.72 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 6 | 0.72 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 13 | 0.72 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 13 | 0.72 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 19 | 0.72 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 19 | 0.72 |
| (1,9168) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 13 | 0.72 |
| (1,9168) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 13 | 0.72 |
| (1,9168) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 13 | 0.72 |
| (1,9168) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 13 | 0.72 |
| (1,9168) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 13 | 0.72 |
| (1,9168) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 13 | 0.72 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 3 | 0.72 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 3 | 0.72 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 6 | 0.72 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 6 | 0.72 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 19 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 19 | 0.72 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 11 | 0.72 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 11 | 0.72 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 1 | 0.72 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 1 | 0.72 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 1 | 0.72 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 1 | 0.72 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 16 | 0.72 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 16 | 0.72 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 4 | 0.72 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 4 | 0.72 |
| (1,8756) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 10 | 0.72 |
| (1,8756) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 10 | 0.72 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 17 | 0.72 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 17 | 0.72 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 17 | 0.72 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 17 | 0.72 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 17 | 0.72 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 17 | 0.72 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 18 | 0.72 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 18 | 0.72 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 18 | 0.72 |
| (1,8443) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 12 | 0.72 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 17 | 0.72 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 15 | 0.72 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 13 | 0.72 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 13 | 0.72 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 13 | 0.72 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 13 | 0.72 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 13 | 0.72 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 13 | 0.72 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 13 | 0.72 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 13 | 0.72 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 13 | 0.72 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 4 | 0.72 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 20 | 0.72 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 5 | 0.72 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 12 | 0.72 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 13 | 0.72 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 18 | 0.72 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 18 | 0.72 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 19 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 19 | 0.72 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 19 | 0.72 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 19 | 0.72 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 5 | 0.72 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 5 | 0.72 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 10 | 0.72 |
| (1,6831) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 20 | 0.72 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 5 | 0.72 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 2 | 0.72 |
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 7 | 0.72 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 2 | 0.72 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 0.72 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 8 | 0.72 |
| (1,6451) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 10 | 0.72 |
| (1,6451) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 10 | 0.72 |
| (1,6451) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 10 | 0.72 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 4 | 0.72 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 4 | 0.72 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 4 | 0.72 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 19 | 0.72 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 19 | 0.72 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 19 | 0.72 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 2 | 0.72 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 20 | 0.72 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 20 | 0.72 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 20 | 0.72 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 20 | 0.72 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 20 | 0.72 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 20 | 0.72 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 6 | 0.72 |
| (1,5963) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 10 | 0.72 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 4 | 0.72 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 13 | 0.72 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 6 | 0.72 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 13 | 0.72 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 13 | 0.72 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 13 | 0.72 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 18 | 0.72 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 3 | 0.72 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 13 | 0.72 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 16 | 0.72 |
| (1,5125) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 15 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5125) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 15 | 0.72 |
| (1,5125) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 15 | 0.72 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 6 | 0.72 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 3 | 0.72 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 11 | 0.72 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 4 | 0.72 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 4 | 0.72 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 4 | 0.72 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 15 | 0.72 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 16 | 0.72 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 16 | 0.72 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 16 | 0.72 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 16 | 0.72 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 16 | 0.72 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 16 | 0.72 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 3 | 0.72 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 3 | 0.72 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 3 | 0.72 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 13 | 0.72 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 13 | 0.72 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 13 | 0.72 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 4 | 0.72 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 4 | 0.72 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 12 | 0.72 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 12 | 0.72 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 16 | 0.72 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 16 | 0.72 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 7 | 0.72 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 7 | 0.72 |
| (1,4175) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 7 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 4 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 4 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 4 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 4 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 4 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 4 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 15 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 15 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 15 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 15 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 15 | 0.72 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 15 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 10 | 0.72 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 10 | 0.72 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 15 | 0.72 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 15 | 0.72 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 11 | 0.72 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 11 | 0.72 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 8 | 0.72 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 8 | 0.72 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 20 | 0.72 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 20 | 0.72 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 20 | 0.72 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 20 | 0.72 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 20 | 0.72 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 20 | 0.72 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 15 | 0.72 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 15 | 0.72 |
| (1,3723) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 19 | 0.72 |
| (1,3723) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 19 | 0.72 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 18 | 0.72 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 18 | 0.72 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 18 | 0.72 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 18 | 0.72 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 18 | 0.72 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 18 | 0.72 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 6 | 0.72 |
| (1,3445) | 1:24:A:TYR:H | 1:33:A:GLN:H | 18 | 0.72 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 13 | 0.72 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 18 | 0.72 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 15 | 0.72 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 15 | 0.72 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 15 | 0.72 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 3 | 0.72 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 8 | 0.72 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 10 | 0.72 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 10 | 0.72 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 10 | 0.72 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 2 | 0.72 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 7 | 0.72 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 7 | 0.72 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 5 | 0.72 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 5 | 0.72 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 5 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 6 | 0.72 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 6 | 0.72 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 6 | 0.72 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 3 | 0.72 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 3 | 0.72 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 3 | 0.72 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 3 | 0.72 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 2 | 0.72 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 2 | 0.72 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 2 | 0.72 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 9 | 0.72 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 12 | 0.72 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 12 | 0.72 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 7 | 0.72 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 12 | 0.72 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 1 | 0.72 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 1 | 0.72 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 1 | 0.72 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 1 | 0.72 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 5 | 0.72 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 2 | 0.72 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 2 | 0.72 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 2 | 0.72 |
| (1,2815) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 20 | 0.72 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 8 | 0.72 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 8 | 0.72 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 8 | 0.72 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 19 | 0.72 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 19 | 0.72 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 5 | 0.72 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 5 | 0.72 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 5 | 0.72 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 5 | 0.72 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 5 | 0.72 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 5 | 0.72 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 13 | 0.72 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 13 | 0.72 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 13 | 0.72 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 13 | 0.72 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 13 | 0.72 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 13 | 0.72 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 15 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 15 | 0.72 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 13 | 0.72 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 1 | 0.72 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 2 | 0.72 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 6 | 0.72 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 17 | 0.72 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 2 | 0.72 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 4 | 0.72 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 5 | 0.72 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 17 | 0.72 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 18 | 0.72 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 8 | 0.72 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 4 | 0.72 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 10 | 0.72 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 17 | 0.72 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 20 | 0.72 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 15 | 0.72 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 6 | 0.72 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 6 | 0.72 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 6 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 2 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 2 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 2 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 4 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 4 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 4 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 8 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 8 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 8 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 12 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 12 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 12 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 15 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 15 | 0.72 |
| (1,2043) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 15 | 0.72 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 19 | 0.72 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 18 | 0.72 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 19 | 0.72 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 18 | 0.72 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 18 | 0.72 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 1 | 0.72 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 7 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 19 | 0.72 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 13 | 0.72 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 13 | 0.72 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 13 | 0.72 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 13 | 0.72 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 13 | 0.72 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 13 | 0.72 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 13 | 0.72 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 13 | 0.72 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 13 | 0.72 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 16 | 0.72 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 16 | 0.72 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 16 | 0.72 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 15 | 0.72 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 15 | 0.72 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 15 | 0.72 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 19 | 0.72 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 19 | 0.72 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 19 | 0.72 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 11 | 0.72 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 6 | 0.72 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 19 | 0.72 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 12 | 0.72 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 20 | 0.72 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 11 | 0.72 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 1 | 0.72 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 3 | 0.72 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 6 | 0.72 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 7 | 0.72 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 11 | 0.72 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 17 | 0.72 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 19 | 0.72 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 14 | 0.72 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 14 | 0.72 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 14 | 0.72 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 7 | 0.72 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 7 | 0.72 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 7 | 0.72 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 17 | 0.72 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 17 | 0.72 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 17 | 0.72 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 12 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 13 | 0.72 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 1 | 0.72 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 14 | 0.72 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 7 | 0.72 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 18 | 0.72 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 18 | 0.72 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 18 | 0.72 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 8 | 0.72 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 16 | 0.72 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 9 | 0.72 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 9 | 0.72 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 19 | 0.72 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 19 | 0.72 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 3 | 0.72 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 3 | 0.72 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 3 | 0.72 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 12 | 0.72 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 12 | 0.72 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 2 | 0.72 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 17 | 0.72 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 3 | 0.72 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 17 | 0.72 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 17 | 0.72 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 17 | 0.72 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 8 | 0.72 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 2 | 0.72 |
| (1,883) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 10 | 0.72 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 4 | 0.72 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 9 | 0.72 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 17 | 0.72 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 7 | 0.72 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 15 | 0.72 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 15 | 0.72 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 15 | 0.72 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 6 | 0.72 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 13 | 0.72 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 19 | 0.72 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 17 | 0.72 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 3 | 0.72 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 6 | 0.72 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 6 | 0.72 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 6 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 18 | 0.72 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 3 | 0.72 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 13 | 0.72 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 16 | 0.72 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 16 | 0.72 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 16 | 0.72 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 2 | 0.72 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 2 | 0.72 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 2 | 0.72 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 2 | 0.72 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 2 | 0.72 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 2 | 0.72 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 3 | 0.72 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 3 | 0.72 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 3 | 0.72 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 17 | 0.72 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 17 | 0.72 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 17 | 0.72 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 14 | 0.72 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 16 | 0.72 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 19 | 0.72 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 18 | 0.72 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 6 | 0.72 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 6 | 0.72 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 6 | 0.72 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 13 | 0.72 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 2 | 0.72 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 18 | 0.72 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 18 | 0.72 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 5 | 0.72 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 9 | 0.72 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 11 | 0.72 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 19 | 0.72 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 19 | 0.72 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 14 | 0.72 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 20 | 0.72 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 20 | 0.72 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 20 | 0.72 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 3 | 0.72 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 2 | 0.72 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 3 | 0.72 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 2 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 4 | 0.72 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 15 | 0.72 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 7 | 0.72 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 11 | 0.72 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 20 | 0.72 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 16 | 0.72 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 16 | 0.72 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 16 | 0.72 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 11 | 0.72 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 16 | 0.72 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 20 | 0.72 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 1 | 0.72 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 20 | 0.72 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 20 | 0.72 |
| (1,195) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 10 | 0.72 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 7 | 0.72 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 15 | 0.72 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 20 | 0.72 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 13 | 0.72 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 13 | 0.72 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 13 | 0.72 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 15 | 0.72 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 15 | 0.72 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 15 | 0.72 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 7 | 0.72 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 14 | 0.72 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 14 | 0.72 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 14 | 0.72 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 1 | 0.72 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 1 | 0.72 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 1 | 0.72 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 3 | 0.71 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 3 | 0.71 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 16 | 0.71 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 16 | 0.71 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 16 | 0.71 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 16 | 0.71 |
| (3,814) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA2 | 20 | 0.71 |
| (3,814) | 1:56:A:ARG:HG2 | 1:123:A:GLY:HA3 | 20 | 0.71 |
| (3,814) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA2 | 20 | 0.71 |
| (3,814) | 1:56:A:ARG:HG3 | 1:123:A:GLY:HA3 | 20 | 0.71 |
| (3,783) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 1 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,783) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 1 | 0.71 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 17 | 0.71 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 17 | 0.71 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 19 | 0.71 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 8 | 0.71 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 2 | 0.71 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 17 | 0.71 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 17 | 0.71 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 1 | 0.71 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 1 | 0.71 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 19 | 0.71 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 19 | 0.71 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 3 | 0.71 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 3 | 0.71 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 3 | 0.71 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 3 | 0.71 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 3 | 0.71 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 3 | 0.71 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 10 | 0.71 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 10 | 0.71 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 12 | 0.71 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 12 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 19 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 19 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 19 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 19 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 19 | 0.71 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 19 | 0.71 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 14 | 0.71 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 14 | 0.71 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 12 | 0.71 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 12 | 0.71 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 16 | 0.71 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 16 | 0.71 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 17 | 0.71 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 17 | 0.71 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 17 | 0.71 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 17 | 0.71 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 5 | 0.71 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 5 | 0.71 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 5 | 0.71 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 5 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8443) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 2 | 0.71 |
| (1,8443) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 5 | 0.71 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 3 | 0.71 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 14 | 0.71 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 9 | 0.71 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 4 | 0.71 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 13 | 0.71 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 12 | 0.71 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 13 | 0.71 |
| (1,7384) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 18 | 0.71 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 1 | 0.71 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 12 | 0.71 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 12 | 0.71 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 20 | 0.71 |
| (1,7109) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 10 | 0.71 |
| (1,7109) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 10 | 0.71 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 5 | 0.71 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 5 | 0.71 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 5 | 0.71 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 15 | 0.71 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 15 | 0.71 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 15 | 0.71 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 10 | 0.71 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 9 | 0.71 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 11 | 0.71 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 11 | 0.71 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 6 | 0.71 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 17 | 0.71 |
| (1,6831) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 10 | 0.71 |
| (1,6831) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 17 | 0.71 |
| (1,6642) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 14 | 0.71 |
| (1,6642) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 14 | 0.71 |
| (1,6642) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 14 | 0.71 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 7 | 0.71 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 13 | 0.71 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 13 | 0.71 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 13 | 0.71 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 13 | 0.71 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 13 | 0.71 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 13 | 0.71 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 9 | 0.71 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 9 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 9 | 0.71 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 9 | 0.71 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 9 | 0.71 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 9 | 0.71 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 9 | 0.71 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 9 | 0.71 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 9 | 0.71 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 9 | 0.71 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 6 | 0.71 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 4 | 0.71 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 16 | 0.71 |
| (1,6354) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 3 | 0.71 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 1 | 0.71 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 19 | 0.71 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 2 | 0.71 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 8 | 0.71 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 18 | 0.71 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 4 | 0.71 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 7 | 0.71 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 7 | 0.71 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 7 | 0.71 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 10 | 0.71 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 18 | 0.71 |
| (1,5663) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 11 | 0.71 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 8 | 0.71 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 3 | 0.71 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 8 | 0.71 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 19 | 0.71 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 19 | 0.71 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 12 | 0.71 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 16 | 0.71 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 15 | 0.71 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 20 | 0.71 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 20 | 0.71 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 20 | 0.71 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 15 | 0.71 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 14 | 0.71 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 14 | 0.71 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 14 | 0.71 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 16 | 0.71 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 6 | 0.71 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 6 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 6 | 0.71 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 13 | 0.71 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 19 | 0.71 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 19 | 0.71 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 19 | 0.71 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 19 | 0.71 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 19 | 0.71 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 19 | 0.71 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 19 | 0.71 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 19 | 0.71 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 19 | 0.71 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 2 | 0.71 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 2 | 0.71 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 2 | 0.71 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 4 | 0.71 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 5 | 0.71 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 12 | 0.71 |
| (1,4747) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 18 | 0.71 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 6 | 0.71 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 6 | 0.71 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 6 | 0.71 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 9 | 0.71 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 9 | 0.71 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 4 | 0.71 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 4 | 0.71 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 17 | 0.71 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 17 | 0.71 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 4 | 0.71 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 4 | 0.71 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 6 | 0.71 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 6 | 0.71 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 8 | 0.71 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 8 | 0.71 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 8 | 0.71 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 8 | 0.71 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 8 | 0.71 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 8 | 0.71 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 19 | 0.71 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 6 | 0.71 |
| (1,3393) | 1:14:A:ARG:H | 1:14:A:ARG:HG3 | 18 | 0.71 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 20 | 0.71 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 20 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 8 | 0.71 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 8 | 0.71 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 8 | 0.71 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 17 | 0.71 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 17 | 0.71 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 3 | 0.71 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 3 | 0.71 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 4 | 0.71 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 5 | 0.71 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 9 | 0.71 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 9 | 0.71 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 1 | 0.71 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 4 | 0.71 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 4 | 0.71 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 4 | 0.71 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 14 | 0.71 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 14 | 0.71 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 14 | 0.71 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 10 | 0.71 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 14 | 0.71 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 19 | 0.71 |
| (1,3095) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 10 | 0.71 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 5 | 0.71 |
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 1 | 0.71 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 11 | 0.71 |
| (1,2815) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 10 | 0.71 |
| (1,2815) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 17 | 0.71 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 3 | 0.71 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 3 | 0.71 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 3 | 0.71 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 3 | 0.71 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 3 | 0.71 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 3 | 0.71 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 15 | 0.71 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 15 | 0.71 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 2 | 0.71 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 2 | 0.71 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 10 | 0.71 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 14 | 0.71 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 13 | 0.71 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 14 | 0.71 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 4 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 2 | 0.71 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 2 | 0.71 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 15 | 0.71 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 11 | 0.71 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 19 | 0.71 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 19 | 0.71 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 19 | 0.71 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 6 | 0.71 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 17 | 0.71 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 5 | 0.71 |
| (1,2361) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 11 | 0.71 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 11 | 0.71 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 9 | 0.71 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 18 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 2 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 2 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 2 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 2 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 2 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 2 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 2 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 2 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 2 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 3 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 3 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 3 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 3 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 3 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 3 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 3 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 3 | 0.71 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 3 | 0.71 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 4 | 0.71 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 4 | 0.71 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 4 | 0.71 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 11 | 0.71 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 14 | 0.71 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 14 | 0.71 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 14 | 0.71 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 16 | 0.71 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 10 | 0.71 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 10 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 10 | 0.71 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 10 | 0.71 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 10 | 0.71 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 10 | 0.71 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 10 | 0.71 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 10 | 0.71 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 10 | 0.71 |
| (1,2035) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 3 | 0.71 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 20 | 0.71 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 20 | 0.71 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 6 | 0.71 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 10 | 0.71 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 20 | 0.71 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 20 | 0.71 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 20 | 0.71 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 20 | 0.71 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 20 | 0.71 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 20 | 0.71 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 20 | 0.71 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 20 | 0.71 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 20 | 0.71 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 16 | 0.71 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 16 | 0.71 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 16 | 0.71 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 7 | 0.71 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 8 | 0.71 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 8 | 0.71 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 8 | 0.71 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 10 | 0.71 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 8 | 0.71 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 8 | 0.71 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 15 | 0.71 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 15 | 0.71 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 10 | 0.71 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 14 | 0.71 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 16 | 0.71 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 1 | 0.71 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 1 | 0.71 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 1 | 0.71 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 1 | 0.71 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 1 | 0.71 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 1 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 16 | 0.71 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 14 | 0.71 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 14 | 0.71 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 14 | 0.71 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 14 | 0.71 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 5 | 0.71 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 5 | 0.71 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 5 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 17 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 17 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 17 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 17 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 17 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 17 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 17 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 17 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 17 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 18 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 18 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 18 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 18 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 18 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 18 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 18 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 18 | 0.71 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 18 | 0.71 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 6 | 0.71 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 6 | 0.71 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 2 | 0.71 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 1 | 0.71 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 1 | 0.71 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 1 | 0.71 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 14 | 0.71 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 14 | 0.71 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 14 | 0.71 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 14 | 0.71 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 14 | 0.71 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 14 | 0.71 |
| (1,1523) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 10 | 0.71 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 11 | 0.71 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 2 | 0.71 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 11 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 8 | 0.71 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 8 | 0.71 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 8 | 0.71 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 19 | 0.71 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 3 | 0.71 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 6 | 0.71 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 19 | 0.71 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 14 | 0.71 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 18 | 0.71 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 18 | 0.71 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 18 | 0.71 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 18 | 0.71 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 4 | 0.71 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 18 | 0.71 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 18 | 0.71 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 20 | 0.71 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 16 | 0.71 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 16 | 0.71 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 4 | 0.71 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 10 | 0.71 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 17 | 0.71 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 15 | 0.71 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 18 | 0.71 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 4 | 0.71 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 5 | 0.71 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 15 | 0.71 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 7 | 0.71 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 7 | 0.71 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 7 | 0.71 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 15 | 0.71 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 15 | 0.71 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 15 | 0.71 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 8 | 0.71 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 14 | 0.71 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 15 | 0.71 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 4 | 0.71 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 5 | 0.71 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 18 | 0.71 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 20 | 0.71 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 4 | 0.71 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 18 | 0.71 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 17 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 17 | 0.71 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 2 | 0.71 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 2 | 0.71 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 2 | 0.71 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 17 | 0.71 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 3 | 0.71 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 8 | 0.71 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 12 | 0.71 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 16 | 0.71 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 16 | 0.71 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 17 | 0.71 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 4 | 0.71 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 4 | 0.71 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 4 | 0.71 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 20 | 0.71 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 20 | 0.71 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 20 | 0.71 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 15 | 0.71 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 8 | 0.71 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 9 | 0.71 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 19 | 0.71 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 8 | 0.71 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 16 | 0.71 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 16 | 0.71 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 16 | 0.71 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 16 | 0.71 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 11 | 0.71 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 6 | 0.71 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 11 | 0.71 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 5 | 0.71 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 5 | 0.71 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 5 | 0.71 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 9 | 0.71 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 9 | 0.71 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 9 | 0.71 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 11 | 0.71 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 5 | 0.71 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 13 | 0.71 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 6 | 0.71 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 6 | 0.71 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 9 | 0.71 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 9 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 9 | 0.71 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 19 | 0.71 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 19 | 0.71 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 19 | 0.71 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 3 | 0.71 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 3 | 0.71 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 3 | 0.71 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 6 | 0.71 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 6 | 0.71 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 6 | 0.71 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 18 | 0.71 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 18 | 0.71 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 18 | 0.71 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 1 | 0.71 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 1 | 0.71 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 1 | 0.71 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 1 | 0.71 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 1 | 0.71 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 1 | 0.71 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 1 | 0.71 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 1 | 0.71 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 1 | 0.71 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 14 | 0.71 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 14 | 0.71 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 14 | 0.71 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 14 | 0.71 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 14 | 0.71 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 14 | 0.71 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 11 | 0.71 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 11 | 0.71 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 11 | 0.71 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 11 | 0.71 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 7 | 0.7 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 16 | 0.7 |
| (4,61) | 1:15:A:MET:CB | 1:119:A:ARG:H | 14 | 0.7 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 12 | 0.7 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 12 | 0.7 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 12 | 0.7 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 12 | 0.7 |
| (3,867) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 16 | 0.7 |
| (3,867) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 16 | 0.7 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 14 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 14 | 0.7 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 2 | 0.7 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 2 | 0.7 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 2 | 0.7 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 2 | 0.7 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 18 | 0.7 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 18 | 0.7 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 18 | 0.7 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 13 | 0.7 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 13 | 0.7 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 13 | 0.7 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 16 | 0.7 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 16 | 0.7 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 16 | 0.7 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 6 | 0.7 |
| (3,355) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 16 | 0.7 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 1 | 0.7 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 1 | 0.7 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 16 | 0.7 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 16 | 0.7 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 19 | 0.7 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 19 | 0.7 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 9 | 0.7 |
| (3,210) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 15 | 0.7 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 6 | 0.7 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 11 | 0.7 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 11 | 0.7 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 11 | 0.7 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 11 | 0.7 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 11 | 0.7 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 14 | 0.7 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 14 | 0.7 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 15 | 0.7 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 15 | 0.7 |
| (1,9242) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 18 | 0.7 |
| (1,9242) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 18 | 0.7 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 7 | 0.7 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 7 | 0.7 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 15 | 0.7 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 15 | 0.7 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 15 | 0.7 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 15 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 15 | 0.7 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 15 | 0.7 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 1 | 0.7 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 1 | 0.7 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 1 | 0.7 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 1 | 0.7 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 10 | 0.7 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 10 | 0.7 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 7 | 0.7 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 7 | 0.7 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 12 | 0.7 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 12 | 0.7 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 6 | 0.7 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 6 | 0.7 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 9 | 0.7 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 9 | 0.7 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 9 | 0.7 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 9 | 0.7 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 9 | 0.7 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 9 | 0.7 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 11 | 0.7 |
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 4 | 0.7 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 12 | 0.7 |
| (1,7877) | 1:64:A:HIS:HD2 | 1:156:A:ILE:H | 8 | 0.7 |
| (1,7561) | 1:22:A:VAL:HG11 | 1:24:A:TYR:H | 7 | 0.7 |
| (1,7561) | 1:22:A:VAL:HG12 | 1:24:A:TYR:H | 7 | 0.7 |
| (1,7561) | 1:22:A:VAL:HG13 | 1:24:A:TYR:H | 7 | 0.7 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 20 | 0.7 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 20 | 0.7 |
| (1,7199) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 20 | 0.7 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 6 | 0.7 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 0.7 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 0.7 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 4 | 0.7 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 3 | 0.7 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 3 | 0.7 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 3 | 0.7 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 10 | 0.7 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 4 | 0.7 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 4 | 0.7 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 2 | 0.7 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 2 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 12 | 0.7 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 12 | 0.7 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 18 | 0.7 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 18 | 0.7 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 14 | 0.7 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 17 | 0.7 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 9 | 0.7 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 14 | 0.7 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 10 | 0.7 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 1 | 0.7 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 3 | 0.7 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 14 | 0.7 |
| (1,6451) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 14 | 0.7 |
| (1,6451) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 14 | 0.7 |
| (1,6451) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 14 | 0.7 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 5 | 0.7 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 10 | 0.7 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 10 | 0.7 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 10 | 0.7 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 15 | 0.7 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 15 | 0.7 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 15 | 0.7 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 15 | 0.7 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 15 | 0.7 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 15 | 0.7 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 15 | 0.7 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 15 | 0.7 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 15 | 0.7 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 9 | 0.7 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 9 | 0.7 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 11 | 0.7 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 11 | 0.7 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 11 | 0.7 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 13 | 0.7 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 13 | 0.7 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 13 | 0.7 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 13 | 0.7 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 13 | 0.7 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 13 | 0.7 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 3 | 0.7 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 12 | 0.7 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 12 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 10 | 0.7 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 2 | 0.7 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 2 | 0.7 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 13 | 0.7 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 13 | 0.7 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 15 | 0.7 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 3 | 0.7 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 6 | 0.7 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 10 | 0.7 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 15 | 0.7 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 4 | 0.7 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 6 | 0.7 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 3 | 0.7 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 4 | 0.7 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 14 | 0.7 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 14 | 0.7 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 14 | 0.7 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 14 | 0.7 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 14 | 0.7 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 14 | 0.7 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 14 | 0.7 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 14 | 0.7 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 14 | 0.7 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 17 | 0.7 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 10 | 0.7 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 13 | 0.7 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 20 | 0.7 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 11 | 0.7 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 11 | 0.7 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 11 | 0.7 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 18 | 0.7 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 18 | 0.7 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 5 | 0.7 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 5 | 0.7 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 5 | 0.7 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 14 | 0.7 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 3 | 0.7 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 12 | 0.7 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 12 | 0.7 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 12 | 0.7 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 12 | 0.7 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 12 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 12 | 0.7 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 9 | 0.7 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 9 | 0.7 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 9 | 0.7 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 9 | 0.7 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 9 | 0.7 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 1 | 0.7 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 1 | 0.7 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 10 | 0.7 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 10 | 0.7 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 10 | 0.7 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 14 | 0.7 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 14 | 0.7 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 14 | 0.7 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 14 | 0.7 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 14 | 0.7 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 14 | 0.7 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 2 | 0.7 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 2 | 0.7 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 16 | 0.7 |
| (1,4153) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 16 | 0.7 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 2 | 0.7 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 2 | 0.7 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 2 | 0.7 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 2 | 0.7 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 2 | 0.7 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 2 | 0.7 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD2 | 9 | 0.7 |
| (1,3891) | 1:69:A:ARG:H | 1:70:A:PRO:HD3 | 9 | 0.7 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 20 | 0.7 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 5 | 0.7 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 5 | 0.7 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 6 | 0.7 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 6 | 0.7 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 8 | 0.7 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 8 | 0.7 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 12 | 0.7 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 12 | 0.7 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 12 | 0.7 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 7 | 0.7 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 2 | 0.7 |
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 4 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3397) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 5 | 0.7 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 14 | 0.7 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 14 | 0.7 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 14 | 0.7 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 16 | 0.7 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 6 | 0.7 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 6 | 0.7 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 12 | 0.7 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 12 | 0.7 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 12 | 0.7 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 20 | 0.7 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 5 | 0.7 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 2 | 0.7 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 2 | 0.7 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 2 | 0.7 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 1 | 0.7 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 2 | 0.7 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 2 | 0.7 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 2 | 0.7 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 9 | 0.7 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 13 | 0.7 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 14 | 0.7 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 9 | 0.7 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 15 | 0.7 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 15 | 0.7 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 15 | 0.7 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 2 | 0.7 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 2 | 0.7 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 2 | 0.7 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 18 | 0.7 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 18 | 0.7 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 18 | 0.7 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 14 | 0.7 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 5 | 0.7 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 5 | 0.7 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 5 | 0.7 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 5 | 0.7 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 1 | 0.7 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 1 | 0.7 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 20 | 0.7 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 20 | 0.7 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 1 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 5 | 0.7 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 4 | 0.7 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 1 | 0.7 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 3 | 0.7 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 16 | 0.7 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 16 | 0.7 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 16 | 0.7 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 3 | 0.7 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 4 | 0.7 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 7 | 0.7 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 16 | 0.7 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 9 | 0.7 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 18 | 0.7 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 16 | 0.7 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 16 | 0.7 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 16 | 0.7 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 16 | 0.7 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 7 | 0.7 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 6 | 0.7 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 6 | 0.7 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 6 | 0.7 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 6 | 0.7 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 9 | 0.7 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 9 | 0.7 |
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 9 | 0.7 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 12 | 0.7 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 12 | 0.7 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 12 | 0.7 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 1 | 0.7 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 6 | 0.7 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 18 | 0.7 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 19 | 0.7 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 17 | 0.7 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 17 | 0.7 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 17 | 0.7 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 12 | 0.7 |
| (1,1777) | 1:141:A:LEU:HD21 | 1:147:A:SER:HA | 16 | 0.7 |
| (1,1777) | 1:141:A:LEU:HD22 | 1:147:A:SER:HA | 16 | 0.7 |
| (1,1777) | 1:141:A:LEU:HD23 | 1:147:A:SER:HA | 16 | 0.7 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 19 | 0.7 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 19 | 0.7 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 19 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 2 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 1 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 3 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 6 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 7 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 10 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 11 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 14 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 15 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 16 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 17 | 0.7 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 19 | 0.7 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 7 | 0.7 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 7 | 0.7 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 7 | 0.7 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 15 | 0.7 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 15 | 0.7 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 15 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 7 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 7 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 7 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 7 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 7 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 7 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 7 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 7 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 7 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 19 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 19 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 19 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 19 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 19 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 19 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 19 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 19 | 0.7 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 19 | 0.7 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 13 | 0.7 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 13 | 0.7 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 8 | 0.7 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 8 | 0.7 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 8 | 0.7 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 17 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 17 | 0.7 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 17 | 0.7 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 1 | 0.7 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 1 | 0.7 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 1 | 0.7 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 1 | 0.7 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 19 | 0.7 |
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 9 | 0.7 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 8 | 0.7 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 10 | 0.7 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 11 | 0.7 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 13 | 0.7 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 15 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 3 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 3 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 3 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 3 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 3 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 3 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 3 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 3 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 3 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 13 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 13 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 13 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 13 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 13 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 13 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 13 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 13 | 0.7 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 13 | 0.7 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 9 | 0.7 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 9 | 0.7 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 9 | 0.7 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 19 | 0.7 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 19 | 0.7 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 19 | 0.7 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 19 | 0.7 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 19 | 0.7 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 19 | 0.7 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 19 | 0.7 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 19 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 19 | 0.7 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 6 | 0.7 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 6 | 0.7 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 5 | 0.7 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 5 | 0.7 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 18 | 0.7 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 13 | 0.7 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 15 | 0.7 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 16 | 0.7 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 1 | 0.7 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 5 | 0.7 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 14 | 0.7 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 6 | 0.7 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 5 | 0.7 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 5 | 0.7 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 3 | 0.7 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 3 | 0.7 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 3 | 0.7 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 10 | 0.7 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 10 | 0.7 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 10 | 0.7 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 14 | 0.7 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 14 | 0.7 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 14 | 0.7 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 12 | 0.7 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 15 | 0.7 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 15 | 0.7 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 15 | 0.7 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 15 | 0.7 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 11 | 0.7 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 6 | 0.7 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 8 | 0.7 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 12 | 0.7 |
| (1,691) | 1:96:A:ILE:HG21 | 1:98:A:SER:H | 19 | 0.7 |
| (1,691) | 1:96:A:ILE:HG22 | 1:98:A:SER:H | 19 | 0.7 |
| (1,691) | 1:96:A:ILE:HG23 | 1:98:A:SER:H | 19 | 0.7 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 17 | 0.7 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 4 | 0.7 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 17 | 0.7 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 6 | 0.7 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 6 | 0.7 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 6 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 10 | 0.7 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 10 | 0.7 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 10 | 0.7 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 7 | 0.7 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 7 | 0.7 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 7 | 0.7 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 7 | 0.7 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 19 | 0.7 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 18 | 0.7 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 18 | 0.7 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 18 | 0.7 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 20 | 0.7 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 20 | 0.7 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 20 | 0.7 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 20 | 0.7 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 20 | 0.7 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 20 | 0.7 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 7 | 0.7 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 7 | 0.7 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 7 | 0.7 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 11 | 0.7 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 11 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD21 | 2 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD22 | 2 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD21 | 4 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD22 | 4 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD21 | 5 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD22 | 5 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD21 | 8 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD22 | 8 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD21 | 20 | 0.7 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD22 | 20 | 0.7 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 18 | 0.7 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 18 | 0.7 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 18 | 0.7 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 18 | 0.7 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 18 | 0.7 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 18 | 0.7 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 18 | 0.7 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 18 | 0.7 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 18 | 0.7 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 16 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 6 | 0.7 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 15 | 0.7 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 6 | 0.7 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 6 | 0.7 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 6 | 0.7 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 6 | 0.7 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 6 | 0.7 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 6 | 0.7 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 19 | 0.7 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 19 | 0.7 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 19 | 0.7 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 10 | 0.7 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 10 | 0.7 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 10 | 0.7 |
| (1,396) | 1:85:A:ALA:HB1 | 1:86:A:LEU:HA | 16 | 0.7 |
| (1,396) | 1:85:A:ALA:HB2 | 1:86:A:LEU:HA | 16 | 0.7 |
| (1,396) | 1:85:A:ALA:HB3 | 1:86:A:LEU:HA | 16 | 0.7 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 11 | 0.7 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 11 | 0.7 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 11 | 0.7 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 17 | 0.7 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 13 | 0.7 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 10 | 0.7 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 20 | 0.7 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 20 | 0.7 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 20 | 0.7 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 16 | 0.7 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 16 | 0.7 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 16 | 0.7 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 12 | 0.7 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 14 | 0.7 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 1 | 0.7 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 14 | 0.7 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 1 | 0.7 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 19 | 0.7 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 20 | 0.7 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 6 | 0.7 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 6 | 0.7 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 6 | 0.7 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 6 | 0.7 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 6 | 0.7 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 17 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 17 | 0.7 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 17 | 0.7 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 14 | 0.7 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 14 | 0.7 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 14 | 0.7 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 15 | 0.7 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 15 | 0.7 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 15 | 0.7 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 7 | 0.7 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 7 | 0.7 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 7 | 0.7 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 6 | 0.7 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 19 | 0.7 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 19 | 0.7 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 19 | 0.7 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 12 | 0.7 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 12 | 0.7 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 12 | 0.7 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 12 | 0.7 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 10 | 0.7 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 10 | 0.7 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 10 | 0.7 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 16 | 0.7 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 6 | 0.7 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 6 | 0.7 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 8 | 0.69 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 3 | 0.69 |
| (3,1031) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 12 | 0.69 |
| (3,1031) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 12 | 0.69 |
| (3,995) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 13 | 0.69 |
| (3,995) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 13 | 0.69 |
| (3,892) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 1 | 0.69 |
| (3,892) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 1 | 0.69 |
| (3,892) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 1 | 0.69 |
| (3,892) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 1 | 0.69 |
| (3,892) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 1 | 0.69 |
| (3,892) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 1 | 0.69 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 9 | 0.69 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 9 | 0.69 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 9 | 0.69 |
| (3,369) | 1:59:A:HIS:H | 1:120:A:GLY:H | 19 | 0.69 |
| (3,209) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 14 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,209) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 14 | 0.69 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 16 | 0.69 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 9 | 0.69 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 9 | 0.69 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 4 | 0.69 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 4 | 0.69 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 4 | 0.69 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 4 | 0.69 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 8 | 0.69 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 8 | 0.69 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 11 | 0.69 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 11 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 1 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 1 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 1 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 1 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 1 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 1 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 16 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 16 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 16 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 16 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 16 | 0.69 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 16 | 0.69 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 3 | 0.69 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 3 | 0.69 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 0.69 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 0.69 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 16 | 0.69 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 16 | 0.69 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 17 | 0.69 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 17 | 0.69 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 18 | 0.69 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 18 | 0.69 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 5 | 0.69 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 5 | 0.69 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 15 | 0.69 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 15 | 0.69 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 19 | 0.69 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 19 | 0.69 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 8 | 0.69 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 8 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 14 | 0.69 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 11 | 0.69 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 15 | 0.69 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 17 | 0.69 |
| (1,7583) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 2 | 0.69 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 8 | 0.69 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 17 | 0.69 |
| (1,7354) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 4 | 0.69 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 10 | 0.69 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 10 | 0.69 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 1 | 0.69 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 3 | 0.69 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 7 | 0.69 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 10 | 0.69 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 14 | 0.69 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 17 | 0.69 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 19 | 0.69 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 3 | 0.69 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 6 | 0.69 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 13 | 0.69 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 1 | 0.69 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 3 | 0.69 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 3 | 0.69 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 15 | 0.69 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 15 | 0.69 |
| (1,6931) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 18 | 0.69 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 9 | 0.69 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 3 | 0.69 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 11 | 0.69 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 7 | 0.69 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 12 | 0.69 |
| (1,6670) | 1:14:A:ARG:HA | 1:15:A:MET:H | 11 | 0.69 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 10 | 0.69 |
| (1,6572) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 7 | 0.69 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 16 | 0.69 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 16 | 0.69 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 16 | 0.69 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 9 | 0.69 |
| (1,6430) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 17 | 0.69 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 16 | 0.69 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 7 | 0.69 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 6 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 5 | 0.69 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 5 | 0.69 |
| (1,6151) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 16 | 0.69 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 7 | 0.69 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 7 | 0.69 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 7 | 0.69 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 12 | 0.69 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 12 | 0.69 |
| (1,5963) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 6 | 0.69 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 6 | 0.69 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 6 | 0.69 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 6 | 0.69 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 7 | 0.69 |
| (1,5728) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 11 | 0.69 |
| (1,5728) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 11 | 0.69 |
| (1,5728) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 11 | 0.69 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 4 | 0.69 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 4 | 0.69 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 5 | 0.69 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 5 | 0.69 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 9 | 0.69 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 9 | 0.69 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 18 | 0.69 |
| (1,5507) | 1:96:A:ILE:H | 1:97:A:LYS:H | 9 | 0.69 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 12 | 0.69 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 11 | 0.69 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 11 | 0.69 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 11 | 0.69 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 12 | 0.69 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 12 | 0.69 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 12 | 0.69 |
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 8 | 0.69 |
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 8 | 0.69 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 8 | 0.69 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 10 | 0.69 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 12 | 0.69 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 8 | 0.69 |
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 8 | 0.69 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 2 | 0.69 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 6 | 0.69 |
| (1,4949) | 1:67:A:SER:HA | 1:68:A:ARG:H | 16 | 0.69 |
| (1,4869) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 10 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4869) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 10 | 0.69 |
| (1,4869) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 10 | 0.69 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 6 | 0.69 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 6 | 0.69 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 6 | 0.69 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 9 | 0.69 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 18 | 0.69 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 11 | 0.69 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 19 | 0.69 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 9 | 0.69 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 10 | 0.69 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 10 | 0.69 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 10 | 0.69 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 16 | 0.69 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 16 | 0.69 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 16 | 0.69 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB1 | 20 | 0.69 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB2 | 20 | 0.69 |
| (1,4637) | 1:52:A:PRO:HA | 1:53:A:ALA:HB3 | 20 | 0.69 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 1 | 0.69 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 1 | 0.69 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 19 | 0.69 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 15 | 0.69 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 15 | 0.69 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 7 | 0.69 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 7 | 0.69 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 15 | 0.69 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 9 | 0.69 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 14 | 0.69 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 14 | 0.69 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 12 | 0.69 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 12 | 0.69 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 14 | 0.69 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 14 | 0.69 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 14 | 0.69 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 14 | 0.69 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 14 | 0.69 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 14 | 0.69 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 20 | 0.69 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 20 | 0.69 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 14 | 0.69 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 14 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 14 | 0.69 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 14 | 0.69 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 14 | 0.69 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 14 | 0.69 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 1 | 0.69 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 1 | 0.69 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 1 | 0.69 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 13 | 0.69 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 13 | 0.69 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 2 | 0.69 |
| (1,3431) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 16 | 0.69 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 18 | 0.69 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 18 | 0.69 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 18 | 0.69 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 20 | 0.69 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 20 | 0.69 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 20 | 0.69 |
| (1,3371) | 1:157:A:HIS:H | 1:157:A:HIS:HA | 13 | 0.69 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 10 | 0.69 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 10 | 0.69 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 17 | 0.69 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 17 | 0.69 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 0.69 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 9 | 0.69 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 9 | 0.69 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 9 | 0.69 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 4 | 0.69 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 4 | 0.69 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 9 | 0.69 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 16 | 0.69 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 13 | 0.69 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 5 | 0.69 |
| (1,3001) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 17 | 0.69 |
| (1,3001) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 20 | 0.69 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 3 | 0.69 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 14 | 0.69 |
| (1,2949) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 18 | 0.69 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 18 | 0.69 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 18 | 0.69 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 18 | 0.69 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 13 | 0.69 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 14 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 14 | 0.69 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 14 | 0.69 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 10 | 0.69 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 12 | 0.69 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 3 | 0.69 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 3 | 0.69 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 3 | 0.69 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 16 | 0.69 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 6 | 0.69 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 6 | 0.69 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 6 | 0.69 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 13 | 0.69 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 3 | 0.69 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 11 | 0.69 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 3 | 0.69 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 3 | 0.69 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE1 | 11 | 0.69 |
| (1,2759) | 1:13:A:LYS:HB3 | 1:24:A:TYR:HE2 | 11 | 0.69 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 3 | 0.69 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 3 | 0.69 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 8 | 0.69 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 8 | 0.69 |
| (1,2713) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB3 | 12 | 0.69 |
| (1,2713) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB3 | 12 | 0.69 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 6 | 0.69 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 12 | 0.69 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 10 | 0.69 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 6 | 0.69 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 7 | 0.69 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 9 | 0.69 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 10 | 0.69 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 2 | 0.69 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 6 | 0.69 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 16 | 0.69 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 6 | 0.69 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 6 | 0.69 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 6 | 0.69 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 6 | 0.69 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 6 | 0.69 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 6 | 0.69 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 9 | 0.69 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 9 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 10 | 0.69 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 18 | 0.69 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 16 | 0.69 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 7 | 0.69 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 15 | 0.69 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 14 | 0.69 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 18 | 0.69 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 18 | 0.69 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 8 | 0.69 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 8 | 0.69 |
| (1,1975) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 8 | 0.69 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 8 | 0.69 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 8 | 0.69 |
| (1,1975) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 8 | 0.69 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 8 | 0.69 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 8 | 0.69 |
| (1,1975) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 8 | 0.69 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 12 | 0.69 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 12 | 0.69 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 12 | 0.69 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 9 | 0.69 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 9 | 0.69 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 9 | 0.69 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 4 | 0.69 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 17 | 0.69 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 17 | 0.69 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 17 | 0.69 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 17 | 0.69 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 14 | 0.69 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 14 | 0.69 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 14 | 0.69 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 17 | 0.69 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 10 | 0.69 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 19 | 0.69 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 6 | 0.69 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 6 | 0.69 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 6 | 0.69 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 11 | 0.69 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 11 | 0.69 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 11 | 0.69 |
| (1,1749) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 16 | 0.69 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 15 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 4 | 0.69 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 4 | 0.69 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 4 | 0.69 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD1 | 5 | 0.69 |
| (1,1721) | 1:138:A:SER:H | 1:139:A:PHE:HD2 | 5 | 0.69 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 1 | 0.69 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 19 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 9 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 9 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 9 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 9 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 9 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 9 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 9 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 9 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 9 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 12 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 12 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 12 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 12 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 12 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 12 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 12 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 12 | 0.69 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 12 | 0.69 |
| (1,1661) | 1:137:A:ALA:HA | 1:140:A:ALA:H | 14 | 0.69 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 19 | 0.69 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 19 | 0.69 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 19 | 0.69 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 19 | 0.69 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 7 | 0.69 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 16 | 0.69 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 2 | 0.69 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 5 | 0.69 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 7 | 0.69 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 10 | 0.69 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 13 | 0.69 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 16 | 0.69 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 1 | 0.69 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 2 | 0.69 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 11 | 0.69 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 17 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1381) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 15 | 0.69 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 7 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 6 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 6 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 6 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 6 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 6 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 6 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 6 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 6 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 6 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 10 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 10 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 10 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 10 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 10 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 10 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 10 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 10 | 0.69 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 10 | 0.69 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 3 | 0.69 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 14 | 0.69 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 6 | 0.69 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 17 | 0.69 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 11 | 0.69 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 14 | 0.69 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 14 | 0.69 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 14 | 0.69 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 13 | 0.69 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 17 | 0.69 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 10 | 0.69 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 10 | 0.69 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 10 | 0.69 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 10 | 0.69 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 10 | 0.69 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 10 | 0.69 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 7 | 0.69 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 11 | 0.69 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 13 | 0.69 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 18 | 0.69 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 20 | 0.69 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 3 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 11 | 0.69 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 17 | 0.69 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 17 | 0.69 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 9 | 0.69 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 9 | 0.69 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 6 | 0.69 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 10 | 0.69 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 10 | 0.69 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 10 | 0.69 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 10 | 0.69 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 10 | 0.69 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 10 | 0.69 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 10 | 0.69 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 10 | 0.69 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 10 | 0.69 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 4 | 0.69 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 4 | 0.69 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 4 | 0.69 |
| (1,657) | 1:96:A:ILE:H | 1:97:A:LYS:H | 9 | 0.69 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 12 | 0.69 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 3 | 0.69 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 6 | 0.69 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 11 | 0.69 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 17 | 0.69 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD21 | 12 | 0.69 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD22 | 12 | 0.69 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD21 | 13 | 0.69 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD22 | 13 | 0.69 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 1 | 0.69 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 1 | 0.69 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 1 | 0.69 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 10 | 0.69 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 15 | 0.69 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 7 | 0.69 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 5 | 0.69 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 5 | 0.69 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 10 | 0.69 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 20 | 0.69 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 18 | 0.69 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 15 | 0.69 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 19 | 0.69 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 9 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 9 | 0.69 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 9 | 0.69 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 15 | 0.69 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 15 | 0.69 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 15 | 0.69 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 11 | 0.69 |
| (1,232) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 14 | 0.69 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 5 | 0.69 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 1 | 0.69 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 8 | 0.69 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 8 | 0.69 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 13 | 0.69 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 11 | 0.69 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 11 | 0.69 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 11 | 0.69 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 5 | 0.69 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 5 | 0.69 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 5 | 0.69 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 2 | 0.69 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 16 | 0.69 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 16 | 0.69 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 16 | 0.69 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 11 | 0.69 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 1 | 0.69 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 2 | 0.69 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 4 | 0.69 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 5 | 0.69 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 6 | 0.69 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 18 | 0.69 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 20 | 0.69 |
| (1,37) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 16 | 0.69 |
| (1,37) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 16 | 0.69 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 7 | 0.69 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 7 | 0.69 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 12 | 0.69 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 12 | 0.69 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 1 | 0.69 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 4 | 0.68 |
| (4,276) | 1:90:A:ASN:CB | 1:34:A:TRP:H | 16 | 0.68 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 10 | 0.68 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 19 | 0.68 |
| (4,181) | 1:131:A:GLN:CB | 1:6:A:LYS:H | 10 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,853) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 13 | 0.68 |
| (3,853) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 13 | 0.68 |
| (3,853) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 13 | 0.68 |
| (3,853) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 13 | 0.68 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 5 | 0.68 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 5 | 0.68 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 9 | 0.68 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 9 | 0.68 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 9 | 0.68 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 9 | 0.68 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 9 | 0.68 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 9 | 0.68 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 9 | 0.68 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 9 | 0.68 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 9 | 0.68 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 7 | 0.68 |
| (3,421) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 9 | 0.68 |
| (3,421) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 9 | 0.68 |
| (3,421) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 9 | 0.68 |
| (3,421) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 9 | 0.68 |
| (3,421) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 9 | 0.68 |
| (3,421) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 9 | 0.68 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 20 | 0.68 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 16 | 0.68 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 20 | 0.68 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 20 | 0.68 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 20 | 0.68 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 20 | 0.68 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 20 | 0.68 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 20 | 0.68 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 20 | 0.68 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 20 | 0.68 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 20 | 0.68 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 9 | 0.68 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 9 | 0.68 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 9 | 0.68 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 18 | 0.68 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 18 | 0.68 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 18 | 0.68 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 12 | 0.68 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 12 | 0.68 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 12 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 12 | 0.68 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 12 | 0.68 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 12 | 0.68 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 11 | 0.68 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 11 | 0.68 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 11 | 0.68 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 11 | 0.68 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 11 | 0.68 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 11 | 0.68 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 11 | 0.68 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 11 | 0.68 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 20 | 0.68 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 20 | 0.68 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 14 | 0.68 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 14 | 0.68 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 16 | 0.68 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 16 | 0.68 |
| (1,9238) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 20 | 0.68 |
| (1,9238) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 20 | 0.68 |
| (1,9238) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 20 | 0.68 |
| (1,9238) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 20 | 0.68 |
| (1,9238) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 20 | 0.68 |
| (1,9238) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 20 | 0.68 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 9 | 0.68 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 9 | 0.68 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 9 | 0.68 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 9 | 0.68 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 9 | 0.68 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 9 | 0.68 |
| (1,8824) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 5 | 0.68 |
| (1,8824) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 5 | 0.68 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 14 | 0.68 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 14 | 0.68 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 10 | 0.68 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 10 | 0.68 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 8 | 0.68 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 8 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 16 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 16 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 16 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 16 | 0.68 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 16 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 16 | 0.68 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 19 | 0.68 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 3 | 0.68 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 19 | 0.68 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 6 | 0.68 |
| (1,7384) | 1:157:A:HIS:H | 1:157:A:HIS:HD2 | 4 | 0.68 |
| (1,7304) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 16 | 0.68 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 3 | 0.68 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 11 | 0.68 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 8 | 0.68 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 8 | 0.68 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 8 | 0.68 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 5 | 0.68 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 5 | 0.68 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 18 | 0.68 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 18 | 0.68 |
| (1,6931) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 9 | 0.68 |
| (1,6841) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 20 | 0.68 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 12 | 0.68 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 12 | 0.68 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 12 | 0.68 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 8 | 0.68 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 13 | 0.68 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 6 | 0.68 |
| (1,6540) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 6 | 0.68 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 8 | 0.68 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 8 | 0.68 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 8 | 0.68 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 13 | 0.68 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 13 | 0.68 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 13 | 0.68 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 8 | 0.68 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 8 | 0.68 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 8 | 0.68 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 8 | 0.68 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 8 | 0.68 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 8 | 0.68 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 8 | 0.68 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 8 | 0.68 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 8 | 0.68 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 13 | 0.68 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 13 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 13 | 0.68 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 13 | 0.68 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 13 | 0.68 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 13 | 0.68 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 13 | 0.68 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 13 | 0.68 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 13 | 0.68 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 13 | 0.68 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 13 | 0.68 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 20 | 0.68 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 20 | 0.68 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 20 | 0.68 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 5 | 0.68 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 16 | 0.68 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 16 | 0.68 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 16 | 0.68 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 13 | 0.68 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 7 | 0.68 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 14 | 0.68 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 11 | 0.68 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 9 | 0.68 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 9 | 0.68 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 9 | 0.68 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 9 | 0.68 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 9 | 0.68 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 9 | 0.68 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 9 | 0.68 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 9 | 0.68 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 9 | 0.68 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 3 | 0.68 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 3 | 0.68 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 3 | 0.68 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 7 | 0.68 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 7 | 0.68 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 7 | 0.68 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 7 | 0.68 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 17 | 0.68 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 13 | 0.68 |
| (1,5125) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 1 | 0.68 |
| (1,5125) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 1 | 0.68 |
| (1,5125) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 1 | 0.68 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 12 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 15 | 0.68 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 12 | 0.68 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 12 | 0.68 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 12 | 0.68 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 13 | 0.68 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 13 | 0.68 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 13 | 0.68 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 1 | 0.68 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 7 | 0.68 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 15 | 0.68 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 1 | 0.68 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 1 | 0.68 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 1 | 0.68 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 12 | 0.68 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 12 | 0.68 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 12 | 0.68 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 10 | 0.68 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 1 | 0.68 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 1 | 0.68 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 1 | 0.68 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 11 | 0.68 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 11 | 0.68 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 11 | 0.68 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 20 | 0.68 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 20 | 0.68 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 20 | 0.68 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 20 | 0.68 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 14 | 0.68 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 14 | 0.68 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 2 | 0.68 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 2 | 0.68 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 2 | 0.68 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 2 | 0.68 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 2 | 0.68 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 2 | 0.68 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 11 | 0.68 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 11 | 0.68 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 14 | 0.68 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 14 | 0.68 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 18 | 0.68 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 2 | 0.68 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 12 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 12 | 0.68 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 20 | 0.68 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 20 | 0.68 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 8 | 0.68 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 0.68 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 3 | 0.68 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 3 | 0.68 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 3 | 0.68 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 5 | 0.68 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 5 | 0.68 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 5 | 0.68 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 19 | 0.68 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 19 | 0.68 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 19 | 0.68 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 11 | 0.68 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 12 | 0.68 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 7 | 0.68 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 3 | 0.68 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 6 | 0.68 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 8 | 0.68 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 18 | 0.68 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 3 | 0.68 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 10 | 0.68 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 10 | 0.68 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 19 | 0.68 |
| (1,3001) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 8 | 0.68 |
| (1,3001) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 14 | 0.68 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 15 | 0.68 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 14 | 0.68 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 17 | 0.68 |
| (1,2949) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 9 | 0.68 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 14 | 0.68 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 14 | 0.68 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 14 | 0.68 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 18 | 0.68 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 18 | 0.68 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 18 | 0.68 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 7 | 0.68 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 6 | 0.68 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 20 | 0.68 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 8 | 0.68 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 8 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 18 | 0.68 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 2 | 0.68 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 16 | 0.68 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 9 | 0.68 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 18 | 0.68 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 5 | 0.68 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 13 | 0.68 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 6 | 0.68 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 12 | 0.68 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 20 | 0.68 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 6 | 0.68 |
| (1,2385) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 6 | 0.68 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 17 | 0.68 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 5 | 0.68 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 11 | 0.68 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 15 | 0.68 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 15 | 0.68 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 15 | 0.68 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 20 | 0.68 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 19 | 0.68 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 17 | 0.68 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 17 | 0.68 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 17 | 0.68 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 4 | 0.68 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 4 | 0.68 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 4 | 0.68 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 19 | 0.68 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 19 | 0.68 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 19 | 0.68 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 16 | 0.68 |
| (1,2099) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 13 | 0.68 |
| (1,2099) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 13 | 0.68 |
| (1,2099) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 13 | 0.68 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 18 | 0.68 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 18 | 0.68 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 18 | 0.68 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 20 | 0.68 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 20 | 0.68 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 20 | 0.68 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 14 | 0.68 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 16 | 0.68 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 2 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 2 | 0.68 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 2 | 0.68 |
| (1,1953) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 4 | 0.68 |
| (1,1953) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 4 | 0.68 |
| (1,1953) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 4 | 0.68 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 2 | 0.68 |
| (1,1927) | 1:148:A:GLY:H | 1:148:A:GLY:HA2 | 3 | 0.68 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 6 | 0.68 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 6 | 0.68 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 19 | 0.68 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 19 | 0.68 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 19 | 0.68 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 15 | 0.68 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 16 | 0.68 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 1 | 0.68 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 7 | 0.68 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 7 | 0.68 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 7 | 0.68 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 13 | 0.68 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 13 | 0.68 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 6 | 0.68 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 6 | 0.68 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 6 | 0.68 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 3 | 0.68 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 11 | 0.68 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 17 | 0.68 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 2 | 0.68 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 2 | 0.68 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 2 | 0.68 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 16 | 0.68 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 16 | 0.68 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 16 | 0.68 |
| (1,1683) | 1:138:A:SER:H | 1:140:A:ALA:H | 8 | 0.68 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 6 | 0.68 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 13 | 0.68 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 13 | 0.68 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 13 | 0.68 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 13 | 0.68 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 13 | 0.68 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 13 | 0.68 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 13 | 0.68 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 13 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 13 | 0.68 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 7 | 0.68 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 12 | 0.68 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 12 | 0.68 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 11 | 0.68 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 14 | 0.68 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 15 | 0.68 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 17 | 0.68 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 12 | 0.68 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 12 | 0.68 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 12 | 0.68 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 5 | 0.68 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 17 | 0.68 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 5 | 0.68 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 5 | 0.68 |
| (1,1295) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 5 | 0.68 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 5 | 0.68 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 5 | 0.68 |
| (1,1295) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 5 | 0.68 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 5 | 0.68 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 5 | 0.68 |
| (1,1295) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 5 | 0.68 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 15 | 0.68 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 7 | 0.68 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 7 | 0.68 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 7 | 0.68 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 16 | 0.68 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 10 | 0.68 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 10 | 0.68 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 10 | 0.68 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 11 | 0.68 |
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 11 | 0.68 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 11 | 0.68 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 14 | 0.68 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 7 | 0.68 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 17 | 0.68 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 19 | 0.68 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 12 | 0.68 |
| (1,923) | 1:105:A:SER:HA | 1:108:A:SER:H | 1 | 0.68 |
| (1,915) | 1:105:A:SER:H | 1:105:A:SER:HB2 | 5 | 0.68 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 20 | 0.68 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 4 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 4 | 0.68 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 4 | 0.68 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 11 | 0.68 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 8 | 0.68 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 12 | 0.68 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 17 | 0.68 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 19 | 0.68 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 19 | 0.68 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 13 | 0.68 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 16 | 0.68 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 20 | 0.68 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 20 | 0.68 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 20 | 0.68 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 19 | 0.68 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 19 | 0.68 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 15 | 0.68 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 17 | 0.68 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 6 | 0.68 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 4 | 0.68 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 20 | 0.68 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 14 | 0.68 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 14 | 0.68 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 14 | 0.68 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 15 | 0.68 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 19 | 0.68 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 19 | 0.68 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 19 | 0.68 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 14 | 0.68 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 16 | 0.68 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 13 | 0.68 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 13 | 0.68 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 13 | 0.68 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 9 | 0.68 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 15 | 0.68 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD21 | 17 | 0.68 |
| (1,489) | 1:90:A:ASN:HB2 | 1:90:A:ASN:HD22 | 17 | 0.68 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 2 | 0.68 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 2 | 0.68 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 2 | 0.68 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 2 | 0.68 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 2 | 0.68 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 2 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 3 | 0.68 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 3 | 0.68 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 5 | 0.68 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 13 | 0.68 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 15 | 0.68 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 20 | 0.68 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 13 | 0.68 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 17 | 0.68 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 4 | 0.68 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 2 | 0.68 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 2 | 0.68 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 2 | 0.68 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 2 | 0.68 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 6 | 0.68 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 6 | 0.68 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 6 | 0.68 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 2 | 0.68 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 2 | 0.68 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 2 | 0.68 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 1 | 0.68 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 1 | 0.68 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 1 | 0.68 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 15 | 0.68 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 15 | 0.68 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 15 | 0.68 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 11 | 0.68 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 17 | 0.68 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 17 | 0.68 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 17 | 0.68 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 5 | 0.68 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 13 | 0.68 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 7 | 0.68 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 7 | 0.68 |
| (1,211) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 7 | 0.68 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 9 | 0.68 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 19 | 0.68 |
| (1,149) | 1:62:A:VAL:HG21 | 1:63:A:LYS:H | 17 | 0.68 |
| (1,149) | 1:62:A:VAL:HG22 | 1:63:A:LYS:H | 17 | 0.68 |
| (1,149) | 1:62:A:VAL:HG23 | 1:63:A:LYS:H | 17 | 0.68 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 4 | 0.68 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 4 | 0.68 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 4 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 10 | 0.68 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 3 | 0.68 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 7 | 0.68 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 8 | 0.68 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 9 | 0.68 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 10 | 0.68 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 11 | 0.68 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 13 | 0.68 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 16 | 0.68 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 19 | 0.68 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 4 | 0.68 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 4 | 0.68 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 4 | 0.68 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 11 | 0.68 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD21 | 12 | 0.67 |
| (4,229) | 1:15:A:MET:CB | 1:90:A:ASN:HD22 | 12 | 0.67 |
| (4,205) | 1:131:A:GLN:CB | 1:33:A:GLN:H | 10 | 0.67 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 5 | 0.67 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 5 | 0.67 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 5 | 0.67 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 5 | 0.67 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 12 | 0.67 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 12 | 0.67 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 12 | 0.67 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 12 | 0.67 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 4 | 0.67 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 4 | 0.67 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 16 | 0.67 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 16 | 0.67 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 15 | 0.67 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 15 | 0.67 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 15 | 0.67 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 16 | 0.67 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 8 | 0.67 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 8 | 0.67 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 9 | 0.67 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 9 | 0.67 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 15 | 0.67 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 15 | 0.67 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 15 | 0.67 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 15 | 0.67 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 15 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 15 | 0.67 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 11 | 0.67 |
| (3,455) | 1:73:A:TRP:HZ2 | 1:110:A:PHE:H | 4 | 0.67 |
| (3,261) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 5 | 0.67 |
| (3,102) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 4 | 0.67 |
| (3,102) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 4 | 0.67 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 3 | 0.67 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 3 | 0.67 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 9 | 0.67 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 9 | 0.67 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 2 | 0.67 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 2 | 0.67 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 2 | 0.67 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 2 | 0.67 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 2 | 0.67 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 2 | 0.67 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 2 | 0.67 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 2 | 0.67 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 2 | 0.67 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 9 | 0.67 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 9 | 0.67 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 11 | 0.67 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 11 | 0.67 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 15 | 0.67 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 15 | 0.67 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 15 | 0.67 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 15 | 0.67 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 15 | 0.67 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 15 | 0.67 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 16 | 0.67 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 16 | 0.67 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 17 | 0.67 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 17 | 0.67 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 5 | 0.67 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 5 | 0.67 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 5 | 0.67 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 5 | 0.67 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 5 | 0.67 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 5 | 0.67 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 13 | 0.67 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 13 | 0.67 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 13 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 13 | 0.67 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 13 | 0.67 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 13 | 0.67 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 7 | 0.67 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 7 | 0.67 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 19 | 0.67 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 19 | 0.67 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 20 | 0.67 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 20 | 0.67 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 2 | 0.67 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 6 | 0.67 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 12 | 0.67 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 14 | 0.67 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 15 | 0.67 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 11 | 0.67 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 16 | 0.67 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 16 | 0.67 |
| (1,7932) | 1:71:A:SER:HA | 1:78:A:ILE:H | 14 | 0.67 |
| (1,7583) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 6 | 0.67 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 11 | 0.67 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 6 | 0.67 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 6 | 0.67 |
| (1,7117) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 12 | 0.67 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 15 | 0.67 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 16 | 0.67 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 14 | 0.67 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 16 | 0.67 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 14 | 0.67 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 8 | 0.67 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 20 | 0.67 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 8 | 0.67 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 16 | 0.67 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 16 | 0.67 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 16 | 0.67 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 16 | 0.67 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 4 | 0.67 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 4 | 0.67 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 4 | 0.67 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 20 | 0.67 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 19 | 0.67 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 1 | 0.67 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 3 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 12 | 0.67 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 8 | 0.67 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 6 | 0.67 |
| (1,6488) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 2 | 0.67 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 9 | 0.67 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 9 | 0.67 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 9 | 0.67 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 5 | 0.67 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 5 | 0.67 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 5 | 0.67 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 5 | 0.67 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 5 | 0.67 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 5 | 0.67 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 5 | 0.67 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 5 | 0.67 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 5 | 0.67 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 5 | 0.67 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 5 | 0.67 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 5 | 0.67 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 13 | 0.67 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 6 | 0.67 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 3 | 0.67 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 3 | 0.67 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 3 | 0.67 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 3 | 0.67 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 1 | 0.67 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 11 | 0.67 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 15 | 0.67 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 17 | 0.67 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 15 | 0.67 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 15 | 0.67 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 15 | 0.67 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 15 | 0.67 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 15 | 0.67 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 15 | 0.67 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 15 | 0.67 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 15 | 0.67 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 15 | 0.67 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 17 | 0.67 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 14 | 0.67 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 14 | 0.67 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 14 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 14 | 0.67 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 14 | 0.67 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 14 | 0.67 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 10 | 0.67 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 6 | 0.67 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 17 | 0.67 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 17 | 0.67 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 17 | 0.67 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 14 | 0.67 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 18 | 0.67 |
| (1,5702) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 12 | 0.67 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 12 | 0.67 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 4 | 0.67 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 4 | 0.67 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 4 | 0.67 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 13 | 0.67 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 17 | 0.67 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 17 | 0.67 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 17 | 0.67 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 20 | 0.67 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 20 | 0.67 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 20 | 0.67 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 18 | 0.67 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 10 | 0.67 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 6 | 0.67 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 13 | 0.67 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 1 | 0.67 |
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 1 | 0.67 |
| (1,5151) | 1:82:A:LYS:H | 1:83:A:GLU:H | 18 | 0.67 |
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 1 | 0.67 |
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 1 | 0.67 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 1 | 0.67 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 15 | 0.67 |
| (1,5085) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 16 | 0.67 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 8 | 0.67 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 3 | 0.67 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 10 | 0.67 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 10 | 0.67 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 15 | 0.67 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 15 | 0.67 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 15 | 0.67 |
| (1,4907) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 8 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 19 | 0.67 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 20 | 0.67 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 5 | 0.67 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 7 | 0.67 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 7 | 0.67 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 7 | 0.67 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 9 | 0.67 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 9 | 0.67 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 9 | 0.67 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 5 | 0.67 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 5 | 0.67 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 8 | 0.67 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 8 | 0.67 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 7 | 0.67 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 7 | 0.67 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 7 | 0.67 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 7 | 0.67 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 7 | 0.67 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 7 | 0.67 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 2 | 0.67 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 2 | 0.67 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 2 | 0.67 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 2 | 0.67 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 2 | 0.67 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 2 | 0.67 |
| (1,3873) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 13 | 0.67 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 18 | 0.67 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 18 | 0.67 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 14 | 0.67 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 14 | 0.67 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 14 | 0.67 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 14 | 0.67 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 14 | 0.67 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 14 | 0.67 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 19 | 0.67 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 19 | 0.67 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 19 | 0.67 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 19 | 0.67 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 19 | 0.67 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 19 | 0.67 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 3 | 0.67 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 18 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 18 | 0.67 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 18 | 0.67 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 1 | 0.67 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 17 | 0.67 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 9 | 0.67 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 20 | 0.67 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 2 | 0.67 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 3 | 0.67 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 3 | 0.67 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 3 | 0.67 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 8 | 0.67 |
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 8 | 0.67 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 8 | 0.67 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 4 | 0.67 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 4 | 0.67 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 4 | 0.67 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 17 | 0.67 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 17 | 0.67 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 17 | 0.67 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 19 | 0.67 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 1 | 0.67 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 1 | 0.67 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 1 | 0.67 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 5 | 0.67 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 5 | 0.67 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 5 | 0.67 |
| (1,3231) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 11 | 0.67 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 10 | 0.67 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 3 | 0.67 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 16 | 0.67 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 15 | 0.67 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 2 | 0.67 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 6 | 0.67 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 10 | 0.67 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 13 | 0.67 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 1 | 0.67 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 6 | 0.67 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 9 | 0.67 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 16 | 0.67 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 14 | 0.67 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 8 | 0.67 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 15 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 15 | 0.67 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 15 | 0.67 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 8 | 0.67 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 20 | 0.67 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 4 | 0.67 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 16 | 0.67 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 6 | 0.67 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 6 | 0.67 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 14 | 0.67 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 14 | 0.67 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 14 | 0.67 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 14 | 0.67 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 4 | 0.67 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 4 | 0.67 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 4 | 0.67 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 4 | 0.67 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 4 | 0.67 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 4 | 0.67 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 13 | 0.67 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 18 | 0.67 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 18 | 0.67 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 18 | 0.67 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 13 | 0.67 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 20 | 0.67 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 6 | 0.67 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 6 | 0.67 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 6 | 0.67 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 19 | 0.67 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 8 | 0.67 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 8 | 0.67 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 8 | 0.67 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 13 | 0.67 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 13 | 0.67 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 13 | 0.67 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 11 | 0.67 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 19 | 0.67 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 11 | 0.67 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 11 | 0.67 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 11 | 0.67 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 19 | 0.67 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 5 | 0.67 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 5 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 5 | 0.67 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 9 | 0.67 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 9 | 0.67 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 9 | 0.67 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 19 | 0.67 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 19 | 0.67 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 19 | 0.67 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 7 | 0.67 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 6 | 0.67 |
| (1,2285) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 2 | 0.67 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 9 | 0.67 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 16 | 0.67 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 16 | 0.67 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 16 | 0.67 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 4 | 0.67 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 4 | 0.67 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 4 | 0.67 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 17 | 0.67 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 17 | 0.67 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 17 | 0.67 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 14 | 0.67 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 14 | 0.67 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 14 | 0.67 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 5 | 0.67 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 5 | 0.67 |
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 5 | 0.67 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 12 | 0.67 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 12 | 0.67 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 6 | 0.67 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 3 | 0.67 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 13 | 0.67 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 15 | 0.67 |
| (1,1843) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 7 | 0.67 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 3 | 0.67 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 3 | 0.67 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 8 | 0.67 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 7 | 0.67 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 7 | 0.67 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 7 | 0.67 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 10 | 0.67 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 10 | 0.67 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 13 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 5 | 0.67 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 16 | 0.67 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 20 | 0.67 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 20 | 0.67 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 20 | 0.67 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 20 | 0.67 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 18 | 0.67 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 10 | 0.67 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 10 | 0.67 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 10 | 0.67 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 10 | 0.67 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 10 | 0.67 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 10 | 0.67 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 10 | 0.67 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 10 | 0.67 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 10 | 0.67 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 19 | 0.67 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 19 | 0.67 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 6 | 0.67 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 6 | 0.67 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 6 | 0.67 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 14 | 0.67 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 14 | 0.67 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 14 | 0.67 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 10 | 0.67 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 18 | 0.67 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 10 | 0.67 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 6 | 0.67 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 16 | 0.67 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 6 | 0.67 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 6 | 0.67 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 2 | 0.67 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 2 | 0.67 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 10 | 0.67 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 10 | 0.67 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 18 | 0.67 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 19 | 0.67 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 9 | 0.67 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 14 | 0.67 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 1 | 0.67 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 3 | 0.67 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 10 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 17 | 0.67 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 12 | 0.67 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 1 | 0.67 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 8 | 0.67 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 10 | 0.67 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 20 | 0.67 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 1 | 0.67 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 1 | 0.67 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 1 | 0.67 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 1 | 0.67 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 1 | 0.67 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 1 | 0.67 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 16 | 0.67 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 5 | 0.67 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 12 | 0.67 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 20 | 0.67 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 11 | 0.67 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 11 | 0.67 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 11 | 0.67 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 16 | 0.67 |
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 13 | 0.67 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 15 | 0.67 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 15 | 0.67 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 10 | 0.67 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 16 | 0.67 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 20 | 0.67 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 20 | 0.67 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 20 | 0.67 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 8 | 0.67 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 8 | 0.67 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 8 | 0.67 |
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 17 | 0.67 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 15 | 0.67 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 16 | 0.67 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 4 | 0.67 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 4 | 0.67 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 4 | 0.67 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 4 | 0.67 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 4 | 0.67 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 4 | 0.67 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 4 | 0.67 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 4 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 4 | 0.67 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 19 | 0.67 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 19 | 0.67 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 19 | 0.67 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 19 | 0.67 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 19 | 0.67 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 19 | 0.67 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 19 | 0.67 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 19 | 0.67 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 19 | 0.67 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 1 | 0.67 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 4 | 0.67 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 9 | 0.67 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 10 | 0.67 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 14 | 0.67 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 15 | 0.67 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 5 | 0.67 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 5 | 0.67 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 5 | 0.67 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 15 | 0.67 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 15 | 0.67 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 15 | 0.67 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 17 | 0.67 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 17 | 0.67 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 17 | 0.67 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 14 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 5 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 5 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 5 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 7 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 7 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 7 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 13 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 13 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 13 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 15 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 15 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 15 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 16 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 16 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 16 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 17 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 17 | 0.67 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 17 | 0.67 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 7 | 0.67 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 7 | 0.67 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 7 | 0.67 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 19 | 0.67 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 19 | 0.67 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 19 | 0.67 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 16 | 0.67 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 12 | 0.67 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 13 | 0.67 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 19 | 0.67 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 17 | 0.67 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 12 | 0.67 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 12 | 0.67 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 12 | 0.67 |
| (1,334) | 1:82:A:LYS:H | 1:83:A:GLU:H | 18 | 0.67 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 16 | 0.67 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 1 | 0.67 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 19 | 0.67 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 1 | 0.67 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 10 | 0.67 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 13 | 0.67 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 19 | 0.67 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 2 | 0.67 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 10 | 0.67 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 3 | 0.67 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 20 | 0.67 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 20 | 0.67 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 1 | 0.67 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 10 | 0.67 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 10 | 0.67 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 14 | 0.67 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 14 | 0.67 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 14 | 0.67 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 14 | 0.67 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 14 | 0.67 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 14 | 0.67 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 14 | 0.67 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 14 | 0.67 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 14 | 0.67 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 5 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 5 | 0.67 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 5 | 0.67 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 18 | 0.67 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 1 | 0.67 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 18 | 0.67 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 11 | 0.67 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 11 | 0.67 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 11 | 0.67 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 20 | 0.67 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 20 | 0.67 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 20 | 0.67 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG21 | 12 | 0.67 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG22 | 12 | 0.67 |
| (1,92) | 1:57:A:CYS:HB3 | 1:159:A:ILE:HG23 | 12 | 0.67 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 14 | 0.67 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 17 | 0.67 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 19 | 0.67 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 19 | 0.67 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 19 | 0.67 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 19 | 0.67 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 19 | 0.67 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 19 | 0.67 |
| (1,37) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 20 | 0.67 |
| (1,37) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 20 | 0.67 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 20 | 0.67 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 20 | 0.67 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 20 | 0.67 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 20 | 0.67 |
| (4,237) | 1:15:A:MET:CB | 1:101:A:GLU:H | 2 | 0.66 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 1 | 0.66 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 9 | 0.66 |
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 11 | 0.66 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 11 | 0.66 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 11 | 0.66 |
| (3,747) | 1:160:A:LEU:HD21 | 1:162:A:THR:HB | 11 | 0.66 |
| (3,747) | 1:160:A:LEU:HD22 | 1:162:A:THR:HB | 11 | 0.66 |
| (3,747) | 1:160:A:LEU:HD23 | 1:162:A:THR:HB | 11 | 0.66 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 7 | 0.66 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 7 | 0.66 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 7 | 0.66 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 17 | 0.66 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 17 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 17 | 0.66 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB2 | 2 | 0.66 |
| (3,677) | 1:137:A:ALA:H | 1:151:A:PHE:HB3 | 2 | 0.66 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 14 | 0.66 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 14 | 0.66 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 11 | 0.66 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 11 | 0.66 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 11 | 0.66 |
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 1 | 0.66 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 1 | 0.66 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 1 | 0.66 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 18 | 0.66 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 18 | 0.66 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 18 | 0.66 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 8 | 0.66 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 8 | 0.66 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 3 | 0.66 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 3 | 0.66 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 3 | 0.66 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 3 | 0.66 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 11 | 0.66 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 11 | 0.66 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 11 | 0.66 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 11 | 0.66 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 13 | 0.66 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 13 | 0.66 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 4 | 0.66 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 4 | 0.66 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 4 | 0.66 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 4 | 0.66 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 4 | 0.66 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 4 | 0.66 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 17 | 0.66 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 17 | 0.66 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 12 | 0.66 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 12 | 0.66 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 12 | 0.66 |
| (1,8425) | 1:143:A:THR:H | 1:145:A:GLU:H | 5 | 0.66 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 14 | 0.66 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 6 | 0.66 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 6 | 0.66 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 16 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7948) | 1:73:A:TRP:HH2 | 1:74:A:ARG:H | 7 | 0.66 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 14 | 0.66 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 8 | 0.66 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 4 | 0.66 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 4 | 0.66 |
| (1,7304) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 6 | 0.66 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 15 | 0.66 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 15 | 0.66 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 11 | 0.66 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 5 | 0.66 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 5 | 0.66 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 19 | 0.66 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 19 | 0.66 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 16 | 0.66 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 16 | 0.66 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 16 | 0.66 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 7 | 0.66 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 17 | 0.66 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 7 | 0.66 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 13 | 0.66 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 5 | 0.66 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 5 | 0.66 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 15 | 0.66 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 11 | 0.66 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 12 | 0.66 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 20 | 0.66 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 7 | 0.66 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 15 | 0.66 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 15 | 0.66 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 15 | 0.66 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 17 | 0.66 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 5 | 0.66 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 13 | 0.66 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 13 | 0.66 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 6 | 0.66 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 6 | 0.66 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 6 | 0.66 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 8 | 0.66 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 8 | 0.66 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 6 | 0.66 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 17 | 0.66 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 13 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 3 | 0.66 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 9 | 0.66 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 9 | 0.66 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 9 | 0.66 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 6 | 0.66 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 1 | 0.66 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 1 | 0.66 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 1 | 0.66 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 12 | 0.66 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 3 | 0.66 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 20 | 0.66 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 11 | 0.66 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 12 | 0.66 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 12 | 0.66 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 12 | 0.66 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 8 | 0.66 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 8 | 0.66 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 8 | 0.66 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 8 | 0.66 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 8 | 0.66 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 8 | 0.66 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 8 | 0.66 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 8 | 0.66 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 8 | 0.66 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 11 | 0.66 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 11 | 0.66 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 11 | 0.66 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 3 | 0.66 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 18 | 0.66 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 18 | 0.66 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 18 | 0.66 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 18 | 0.66 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 18 | 0.66 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 18 | 0.66 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 18 | 0.66 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 18 | 0.66 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 18 | 0.66 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 3 | 0.66 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 18 | 0.66 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 14 | 0.66 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 10 | 0.66 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 10 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 10 | 0.66 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 10 | 0.66 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 10 | 0.66 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 10 | 0.66 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 10 | 0.66 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 10 | 0.66 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 10 | 0.66 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 8 | 0.66 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 11 | 0.66 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 16 | 0.66 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 15 | 0.66 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 18 | 0.66 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 18 | 0.66 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 18 | 0.66 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 15 | 0.66 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 15 | 0.66 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 15 | 0.66 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 19 | 0.66 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 19 | 0.66 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 19 | 0.66 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 4 | 0.66 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 4 | 0.66 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 4 | 0.66 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 19 | 0.66 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 19 | 0.66 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 19 | 0.66 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 10 | 0.66 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 10 | 0.66 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 10 | 0.66 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 10 | 0.66 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 10 | 0.66 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 10 | 0.66 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 13 | 0.66 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 13 | 0.66 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 3 | 0.66 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 3 | 0.66 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 3 | 0.66 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 3 | 0.66 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 3 | 0.66 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 3 | 0.66 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 8 | 0.66 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 8 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 19 | 0.66 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 19 | 0.66 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 5 | 0.66 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 5 | 0.66 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 20 | 0.66 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 20 | 0.66 |
| (1,3993) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 12 | 0.66 |
| (1,3993) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 12 | 0.66 |
| (1,3993) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 12 | 0.66 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 1 | 0.66 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 11 | 0.66 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 16 | 0.66 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 16 | 0.66 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 16 | 0.66 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 16 | 0.66 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 16 | 0.66 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 16 | 0.66 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 16 | 0.66 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 16 | 0.66 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 16 | 0.66 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 16 | 0.66 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 16 | 0.66 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 16 | 0.66 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 7 | 0.66 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 7 | 0.66 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 7 | 0.66 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 7 | 0.66 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 7 | 0.66 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 7 | 0.66 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 11 | 0.66 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 11 | 0.66 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 1 | 0.66 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 1 | 0.66 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 1 | 0.66 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 1 | 0.66 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 1 | 0.66 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 1 | 0.66 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 3 | 0.66 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 3 | 0.66 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 17 | 0.66 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 17 | 0.66 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 2 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 2 | 0.66 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 2 | 0.66 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 11 | 0.66 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 1 | 0.66 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 1 | 0.66 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 1 | 0.66 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 12 | 0.66 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 13 | 0.66 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 11 | 0.66 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 11 | 0.66 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 11 | 0.66 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 20 | 0.66 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 9 | 0.66 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 11 | 0.66 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 16 | 0.66 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 14 | 0.66 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 10 | 0.66 |
| (1,3065) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 14 | 0.66 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 10 | 0.66 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 4 | 0.66 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 6 | 0.66 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 9 | 0.66 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 10 | 0.66 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 15 | 0.66 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 4 | 0.66 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 14 | 0.66 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 20 | 0.66 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 18 | 0.66 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 18 | 0.66 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 18 | 0.66 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 8 | 0.66 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 8 | 0.66 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 8 | 0.66 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 1 | 0.66 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 1 | 0.66 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 1 | 0.66 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 8 | 0.66 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 1 | 0.66 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 6 | 0.66 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 11 | 0.66 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 17 | 0.66 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 16 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 11 | 0.66 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 11 | 0.66 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 11 | 0.66 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 11 | 0.66 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 11 | 0.66 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 11 | 0.66 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 11 | 0.66 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 11 | 0.66 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 11 | 0.66 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 3 | 0.66 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 18 | 0.66 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 18 | 0.66 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 18 | 0.66 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 2 | 0.66 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 3 | 0.66 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 5 | 0.66 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 8 | 0.66 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 8 | 0.66 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 8 | 0.66 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 13 | 0.66 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 13 | 0.66 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 13 | 0.66 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 14 | 0.66 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 14 | 0.66 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 14 | 0.66 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 11 | 0.66 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 20 | 0.66 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 13 | 0.66 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 6 | 0.66 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 18 | 0.66 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 16 | 0.66 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 7 | 0.66 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 7 | 0.66 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 7 | 0.66 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 7 | 0.66 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 6 | 0.66 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 11 | 0.66 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 10 | 0.66 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 10 | 0.66 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 10 | 0.66 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 6 | 0.66 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 6 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 6 | 0.66 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 6 | 0.66 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 6 | 0.66 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 6 | 0.66 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 6 | 0.66 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 6 | 0.66 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 6 | 0.66 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 3 | 0.66 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 3 | 0.66 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 3 | 0.66 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 9 | 0.66 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 9 | 0.66 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 9 | 0.66 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 15 | 0.66 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 15 | 0.66 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 15 | 0.66 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 7 | 0.66 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 9 | 0.66 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 9 | 0.66 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 9 | 0.66 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD11 | 13 | 0.66 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD12 | 13 | 0.66 |
| (1,2117) | 1:158:A:ILE:HA | 1:158:A:ILE:HD13 | 13 | 0.66 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 10 | 0.66 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 19 | 0.66 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 19 | 0.66 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 19 | 0.66 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 2 | 0.66 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 8 | 0.66 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 15 | 0.66 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 19 | 0.66 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 19 | 0.66 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 19 | 0.66 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 13 | 0.66 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 15 | 0.66 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 7 | 0.66 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 7 | 0.66 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 7 | 0.66 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 10 | 0.66 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 10 | 0.66 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 10 | 0.66 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 4 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 4 | 0.66 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 4 | 0.66 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 1 | 0.66 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 5 | 0.66 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 6 | 0.66 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 7 | 0.66 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 9 | 0.66 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 9 | 0.66 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 9 | 0.66 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 13 | 0.66 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 13 | 0.66 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 13 | 0.66 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 2 | 0.66 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 2 | 0.66 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 2 | 0.66 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 12 | 0.66 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 12 | 0.66 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 12 | 0.66 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 12 | 0.66 |
| (1,1557) | 1:132:A:LYS:HA | 1:132:A:LYS:HB3 | 14 | 0.66 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 3 | 0.66 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 1 | 0.66 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 17 | 0.66 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 13 | 0.66 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 2 | 0.66 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 0.66 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 11 | 0.66 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 7 | 0.66 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 7 | 0.66 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 7 | 0.66 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 9 | 0.66 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 9 | 0.66 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 9 | 0.66 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 13 | 0.66 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 13 | 0.66 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 13 | 0.66 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 13 | 0.66 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 11 | 0.66 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 6 | 0.66 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 5 | 0.66 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 1 | 0.66 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 18 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1081) | 1:108:A:SER:H | 1:110:A:PHE:H | 10 | 0.66 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 12 | 0.66 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 1 | 0.66 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 1 | 0.66 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 1 | 0.66 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 1 | 0.66 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 3 | 0.66 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 14 | 0.66 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 14 | 0.66 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 16 | 0.66 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 4 | 0.66 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 5 | 0.66 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 2 | 0.66 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 6 | 0.66 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 19 | 0.66 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 19 | 0.66 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 19 | 0.66 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 9 | 0.66 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 9 | 0.66 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 9 | 0.66 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 4 | 0.66 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 9 | 0.66 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 3 | 0.66 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 8 | 0.66 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 3 | 0.66 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 3 | 0.66 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 11 | 0.66 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 11 | 0.66 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 2 | 0.66 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 14 | 0.66 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 1 | 0.66 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 20 | 0.66 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 2 | 0.66 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 4 | 0.66 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 4 | 0.66 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 4 | 0.66 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 4 | 0.66 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 13 | 0.66 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 16 | 0.66 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 2 | 0.66 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 9 | 0.66 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 9 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 9 | 0.66 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 1 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 1 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 1 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 1 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 2 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 2 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 2 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 4 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 4 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 4 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 12 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 12 | 0.66 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 12 | 0.66 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 16 | 0.66 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 16 | 0.66 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 16 | 0.66 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 10 | 0.66 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 3 | 0.66 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 19 | 0.66 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 19 | 0.66 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 8 | 0.66 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 14 | 0.66 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 19 | 0.66 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 5 | 0.66 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 5 | 0.66 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 5 | 0.66 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 4 | 0.66 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 14 | 0.66 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 14 | 0.66 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 14 | 0.66 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 9 | 0.66 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 17 | 0.66 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 5 | 0.66 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 5 | 0.66 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 5 | 0.66 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 10 | 0.66 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 4 | 0.66 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 9 | 0.66 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 16 | 0.66 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 16 | 0.66 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 18 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 18 | 0.66 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 18 | 0.66 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 18 | 0.66 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 18 | 0.66 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 18 | 0.66 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 18 | 0.66 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 18 | 0.66 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 18 | 0.66 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 16 | 0.66 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 20 | 0.66 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 20 | 0.66 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 20 | 0.66 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 20 | 0.66 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 20 | 0.66 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 20 | 0.66 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 15 | 0.66 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 10 | 0.66 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 11 | 0.66 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 15 | 0.66 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 10 | 0.66 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 19 | 0.66 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 10 | 0.66 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 12 | 0.66 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 18 | 0.66 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 12 | 0.66 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 12 | 0.66 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 12 | 0.66 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 18 | 0.66 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 18 | 0.66 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 18 | 0.66 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 17 | 0.66 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 17 | 0.66 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 20 | 0.66 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 20 | 0.66 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 20 | 0.65 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 11 | 0.65 |
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 19 | 0.65 |
| (3,979) | 1:109:A:GLN:HB2 | 1:110:A:PHE:HZ | 15 | 0.65 |
| (3,979) | 1:109:A:GLN:HB3 | 1:110:A:PHE:HZ | 15 | 0.65 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE21 | 17 | 0.65 |
| (3,974) | 1:106:A:LEU:H | 1:109:A:GLN:HE22 | 17 | 0.65 |
| (3,941) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 2 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,941) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 2 | 0.65 |
| (3,630) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 4 | 0.65 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 2 | 0.65 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 2 | 0.65 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 2 | 0.65 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 2 | 0.65 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 2 | 0.65 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 2 | 0.65 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 2 | 0.65 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 2 | 0.65 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 2 | 0.65 |
| (3,261) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 10 | 0.65 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 15 | 0.65 |
| (3,135) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 17 | 0.65 |
| (3,135) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 17 | 0.65 |
| (3,21) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 16 | 0.65 |
| (3,21) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 16 | 0.65 |
| (3,21) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 16 | 0.65 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 20 | 0.65 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 20 | 0.65 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 20 | 0.65 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 7 | 0.65 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 7 | 0.65 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 9 | 0.65 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 9 | 0.65 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 14 | 0.65 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 14 | 0.65 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 9 | 0.65 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 9 | 0.65 |
| (1,8877) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 18 | 0.65 |
| (1,8877) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 18 | 0.65 |
| (1,8810) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 14 | 0.65 |
| (1,8810) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 14 | 0.65 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 6 | 0.65 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 6 | 0.65 |
| (1,8750) | 1:54:A:ARG:HG2 | 1:126:A:SER:HA | 3 | 0.65 |
| (1,8750) | 1:54:A:ARG:HG3 | 1:126:A:SER:HA | 3 | 0.65 |
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 2 | 0.65 |
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 2 | 0.65 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 2 | 0.65 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 2 | 0.65 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 14 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 6 | 0.65 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 15 | 0.65 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 15 | 0.65 |
| (1,8254) | 1:116:A:ALA:HA | 1:119:A:ARG:HA | 18 | 0.65 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 1 | 0.65 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 19 | 0.65 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 9 | 0.65 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 13 | 0.65 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 18 | 0.65 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 9 | 0.65 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 9 | 0.65 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 8 | 0.65 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 9 | 0.65 |
| (1,6957) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 19 | 0.65 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 9 | 0.65 |
| (1,6831) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 13 | 0.65 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 7 | 0.65 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 20 | 0.65 |
| (1,6730) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 9 | 0.65 |
| (1,6730) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 15 | 0.65 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 5 | 0.65 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 3 | 0.65 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 8 | 0.65 |
| (1,6638) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 9 | 0.65 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 13 | 0.65 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 13 | 0.65 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 18 | 0.65 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 18 | 0.65 |
| (1,6496) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 8 | 0.65 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 3 | 0.65 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 1 | 0.65 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 1 | 0.65 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 1 | 0.65 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 9 | 0.65 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 9 | 0.65 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 9 | 0.65 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 20 | 0.65 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 20 | 0.65 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 20 | 0.65 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 2 | 0.65 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 16 | 0.65 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 14 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 12 | 0.65 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 12 | 0.65 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 10 | 0.65 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 20 | 0.65 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 20 | 0.65 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 4 | 0.65 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 19 | 0.65 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 19 | 0.65 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 19 | 0.65 |
| (1,5785) | 1:115:A:SER:H | 1:116:A:ALA:H | 19 | 0.65 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 6 | 0.65 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 9 | 0.65 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 11 | 0.65 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 4 | 0.65 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 16 | 0.65 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 16 | 0.65 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 20 | 0.65 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 20 | 0.65 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 1 | 0.65 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 15 | 0.65 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 1 | 0.65 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 13 | 0.65 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 13 | 0.65 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 13 | 0.65 |
| (1,5380) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 8 | 0.65 |
| (1,5380) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 8 | 0.65 |
| (1,5380) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 8 | 0.65 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 17 | 0.65 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 11 | 0.65 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 11 | 0.65 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 11 | 0.65 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 15 | 0.65 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 15 | 0.65 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 15 | 0.65 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 20 | 0.65 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 20 | 0.65 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 20 | 0.65 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 19 | 0.65 |
| (1,5182) | 1:83:A:GLU:H | 1:84:A:GLU:H | 12 | 0.65 |
| (1,5151) | 1:82:A:LYS:H | 1:83:A:GLU:H | 12 | 0.65 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 5 | 0.65 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 19 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 17 | 0.65 |
| (1,4992) | 1:73:A:TRP:H | 1:74:A:ARG:H | 16 | 0.65 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 12 | 0.65 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 12 | 0.65 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 12 | 0.65 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 4 | 0.65 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 4 | 0.65 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 4 | 0.65 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 13 | 0.65 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 2 | 0.65 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 9 | 0.65 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 18 | 0.65 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 11 | 0.65 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 11 | 0.65 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 11 | 0.65 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 11 | 0.65 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 11 | 0.65 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 11 | 0.65 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 11 | 0.65 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 11 | 0.65 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 11 | 0.65 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 2 | 0.65 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 10 | 0.65 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 15 | 0.65 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 15 | 0.65 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 15 | 0.65 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 15 | 0.65 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 15 | 0.65 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 13 | 0.65 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 13 | 0.65 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 9 | 0.65 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 9 | 0.65 |
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 10 | 0.65 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 3 | 0.65 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 3 | 0.65 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 13 | 0.65 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 13 | 0.65 |
| (1,4081) | 1:87:A:GLU:HG2 | 1:88:A:LEU:H | 15 | 0.65 |
| (1,4081) | 1:87:A:GLU:HG3 | 1:88:A:LEU:H | 15 | 0.65 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 10 | 0.65 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 10 | 0.65 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 20 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 20 | 0.65 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 13 | 0.65 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 13 | 0.65 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 2 | 0.65 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 2 | 0.65 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 4 | 0.65 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 4 | 0.65 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 2 | 0.65 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 2 | 0.65 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 2 | 0.65 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 7 | 0.65 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 7 | 0.65 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 16 | 0.65 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 16 | 0.65 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 6 | 0.65 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 6 | 0.65 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 6 | 0.65 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 16 | 0.65 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 16 | 0.65 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 18 | 0.65 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 18 | 0.65 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 20 | 0.65 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 15 | 0.65 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 4 | 0.65 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 4 | 0.65 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 4 | 0.65 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 19 | 0.65 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 19 | 0.65 |
| (1,3343) | 1:139:A:PHE:HB3 | 1:141:A:LEU:H | 8 | 0.65 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 13 | 0.65 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 13 | 0.65 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 13 | 0.65 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 19 | 0.65 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 15 | 0.65 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 1 | 0.65 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 16 | 0.65 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 7 | 0.65 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 18 | 0.65 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 7 | 0.65 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 11 | 0.65 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 16 | 0.65 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 8 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 12 | 0.65 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 15 | 0.65 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 7 | 0.65 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 8 | 0.65 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 1 | 0.65 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 14 | 0.65 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 14 | 0.65 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 14 | 0.65 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 3 | 0.65 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 3 | 0.65 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 3 | 0.65 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 20 | 0.65 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 20 | 0.65 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 20 | 0.65 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 3 | 0.65 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 11 | 0.65 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 11 | 0.65 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 11 | 0.65 |
| (1,2815) | 1:26:A:ASN:HB2 | 1:26:A:ASN:HD21 | 13 | 0.65 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 20 | 0.65 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 20 | 0.65 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 4 | 0.65 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 4 | 0.65 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 15 | 0.65 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 15 | 0.65 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 15 | 0.65 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 3 | 0.65 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 1 | 0.65 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 1 | 0.65 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 1 | 0.65 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 17 | 0.65 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 17 | 0.65 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 17 | 0.65 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 13 | 0.65 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 11 | 0.65 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 13 | 0.65 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 19 | 0.65 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 18 | 0.65 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 19 | 0.65 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 18 | 0.65 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 2 | 0.65 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 2 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 2 | 0.65 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 3 | 0.65 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 5 | 0.65 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 3 | 0.65 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 3 | 0.65 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 5 | 0.65 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 5 | 0.65 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 5 | 0.65 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 10 | 0.65 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 10 | 0.65 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 10 | 0.65 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 2 | 0.65 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 2 | 0.65 |
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 2 | 0.65 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 11 | 0.65 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 11 | 0.65 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 11 | 0.65 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 6 | 0.65 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 6 | 0.65 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 6 | 0.65 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 6 | 0.65 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 6 | 0.65 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 6 | 0.65 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 6 | 0.65 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 6 | 0.65 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 6 | 0.65 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 7 | 0.65 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 7 | 0.65 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 7 | 0.65 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 16 | 0.65 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 16 | 0.65 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 16 | 0.65 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 14 | 0.65 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 14 | 0.65 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 14 | 0.65 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 11 | 0.65 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 16 | 0.65 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 2 | 0.65 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 5 | 0.65 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 5 | 0.65 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 9 | 0.65 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 20 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1801) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 12 | 0.65 |
| (1,1801) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 12 | 0.65 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 8 | 0.65 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 8 | 0.65 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 9 | 0.65 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 9 | 0.65 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 6 | 0.65 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 6 | 0.65 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 6 | 0.65 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 5 | 0.65 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 14 | 0.65 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 6 | 0.65 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 6 | 0.65 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 6 | 0.65 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 6 | 0.65 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 6 | 0.65 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 6 | 0.65 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 6 | 0.65 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 6 | 0.65 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 6 | 0.65 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 10 | 0.65 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 10 | 0.65 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 10 | 0.65 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 3 | 0.65 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 17 | 0.65 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 2 | 0.65 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 1 | 0.65 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 8 | 0.65 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 13 | 0.65 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 13 | 0.65 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 7 | 0.65 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 11 | 0.65 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 11 | 0.65 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 11 | 0.65 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 16 | 0.65 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 9 | 0.65 |
| (1,1405) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HD2 | 2 | 0.65 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 6 | 0.65 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 19 | 0.65 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 15 | 0.65 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 15 | 0.65 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 15 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 15 | 0.65 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 15 | 0.65 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 15 | 0.65 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 1 | 0.65 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 1 | 0.65 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 1 | 0.65 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 12 | 0.65 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 5 | 0.65 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 5 | 0.65 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 5 | 0.65 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 4 | 0.65 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 17 | 0.65 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 17 | 0.65 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 15 | 0.65 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 15 | 0.65 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 15 | 0.65 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 14 | 0.65 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 14 | 0.65 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 6 | 0.65 |
| (1,1137) | 1:115:A:SER:H | 1:116:A:ALA:H | 19 | 0.65 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 5 | 0.65 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 8 | 0.65 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 17 | 0.65 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 10 | 0.65 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 12 | 0.65 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 11 | 0.65 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 11 | 0.65 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 11 | 0.65 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 1 | 0.65 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 1 | 0.65 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 1 | 0.65 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 12 | 0.65 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 12 | 0.65 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 12 | 0.65 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 12 | 0.65 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 12 | 0.65 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 6 | 0.65 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 11 | 0.65 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 18 | 0.65 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 10 | 0.65 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 19 | 0.65 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 19 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 19 | 0.65 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 7 | 0.65 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 2 | 0.65 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 3 | 0.65 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 3 | 0.65 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 15 | 0.65 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 12 | 0.65 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 12 | 0.65 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 12 | 0.65 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 12 | 0.65 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 12 | 0.65 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 12 | 0.65 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 17 | 0.65 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 17 | 0.65 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 17 | 0.65 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 1 | 0.65 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 2 | 0.65 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 15 | 0.65 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 16 | 0.65 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 16 | 0.65 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 16 | 0.65 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 16 | 0.65 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 5 | 0.65 |
| (1,611) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 19 | 0.65 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 20 | 0.65 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 17 | 0.65 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 2 | 0.65 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 5 | 0.65 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD11 | 19 | 0.65 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD12 | 19 | 0.65 |
| (1,502) | 1:92:A:TYR:HB2 | 1:96:A:ILE:HD13 | 19 | 0.65 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 5 | 0.65 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 19 | 0.65 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 3 | 0.65 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 6 | 0.65 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 8 | 0.65 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 8 | 0.65 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 8 | 0.65 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 20 | 0.65 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 20 | 0.65 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 20 | 0.65 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 10 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 10 | 0.65 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 10 | 0.65 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 12 | 0.65 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 12 | 0.65 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 12 | 0.65 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 11 | 0.65 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 11 | 0.65 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 11 | 0.65 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 19 | 0.65 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 19 | 0.65 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 19 | 0.65 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 2 | 0.65 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 5 | 0.65 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 14 | 0.65 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 17 | 0.65 |
| (1,362) | 1:83:A:GLU:H | 1:84:A:GLU:H | 12 | 0.65 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 7 | 0.65 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 13 | 0.65 |
| (1,334) | 1:82:A:LYS:H | 1:83:A:GLU:H | 12 | 0.65 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 9 | 0.65 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 9 | 0.65 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 9 | 0.65 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 9 | 0.65 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 20 | 0.65 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 11 | 0.65 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 11 | 0.65 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 11 | 0.65 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 14 | 0.65 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 8 | 0.65 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 18 | 0.65 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 19 | 0.65 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 19 | 0.65 |
| (1,213) | 1:73:A:TRP:H | 1:74:A:ARG:H | 16 | 0.65 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 3 | 0.65 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 15 | 0.65 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 15 | 0.65 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 15 | 0.65 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 13 | 0.65 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 5 | 0.65 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 15 | 0.65 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 1 | 0.65 |
| (1,84) | 1:57:A:CYS:H | 1:57:A:CYS:HA | 12 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 4 | 0.65 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 4 | 0.65 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 19 | 0.65 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 19 | 0.65 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 19 | 0.65 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 9 | 0.64 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 20 | 0.64 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 20 | 0.64 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 20 | 0.64 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 14 | 0.64 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 14 | 0.64 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 14 | 0.64 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 14 | 0.64 |
| (3,734) | 1:152:A:THR:H | 1:157:A:HIS:H | 18 | 0.64 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 16 | 0.64 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 16 | 0.64 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 16 | 0.64 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 14 | 0.64 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 14 | 0.64 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 14 | 0.64 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 17 | 0.64 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 17 | 0.64 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 17 | 0.64 |
| (3,605) | 1:115:A:SER:H | 1:122:A:LEU:H | 1 | 0.64 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 15 | 0.64 |
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 15 | 0.64 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 15 | 0.64 |
| (3,387) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 4 | 0.64 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 18 | 0.64 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 19 | 0.64 |
| (3,213) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 1 | 0.64 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 1 | 0.64 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 1 | 0.64 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 15 | 0.64 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 15 | 0.64 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 20 | 0.64 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 20 | 0.64 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 13 | 0.64 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 13 | 0.64 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 8 | 0.64 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 8 | 0.64 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 8 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 8 | 0.64 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 8 | 0.64 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 8 | 0.64 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 5 | 0.64 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 5 | 0.64 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 5 | 0.64 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 5 | 0.64 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 5 | 0.64 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 5 | 0.64 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 5 | 0.64 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 5 | 0.64 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 12 | 0.64 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 12 | 0.64 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 13 | 0.64 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 13 | 0.64 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 19 | 0.64 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 19 | 0.64 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 18 | 0.64 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 18 | 0.64 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 18 | 0.64 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 18 | 0.64 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 19 | 0.64 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 19 | 0.64 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 19 | 0.64 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 19 | 0.64 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 19 | 0.64 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 19 | 0.64 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 18 | 0.64 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 18 | 0.64 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG21 | 2 | 0.64 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG22 | 2 | 0.64 |
| (1,9011) | 1:77:A:LYS:HB2 | 1:79:A:THR:HG23 | 2 | 0.64 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG21 | 2 | 0.64 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG22 | 2 | 0.64 |
| (1,9011) | 1:77:A:LYS:HB3 | 1:79:A:THR:HG23 | 2 | 0.64 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 6 | 0.64 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 6 | 0.64 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 18 | 0.64 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 18 | 0.64 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 7 | 0.64 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 7 | 0.64 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 2 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 1 | 0.64 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 4 | 0.64 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 15 | 0.64 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 8 | 0.64 |
| (1,7916) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 13 | 0.64 |
| (1,7916) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 13 | 0.64 |
| (1,7600) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 10 | 0.64 |
| (1,7549) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 12 | 0.64 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 9 | 0.64 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 15 | 0.64 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 15 | 0.64 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 15 | 0.64 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 15 | 0.64 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 0.64 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 9 | 0.64 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 9 | 0.64 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 10 | 0.64 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 10 | 0.64 |
| (1,6772) | 1:23:A:TYR:H | 1:24:A:TYR:H | 4 | 0.64 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 6 | 0.64 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 7 | 0.64 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 7 | 0.64 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 7 | 0.64 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 9 | 0.64 |
| (1,6540) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 19 | 0.64 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 11 | 0.64 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 11 | 0.64 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 11 | 0.64 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 14 | 0.64 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 14 | 0.64 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 14 | 0.64 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 3 | 0.64 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 3 | 0.64 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 10 | 0.64 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 10 | 0.64 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 10 | 0.64 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 10 | 0.64 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 10 | 0.64 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 10 | 0.64 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 10 | 0.64 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 10 | 0.64 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 10 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 16 | 0.64 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 16 | 0.64 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 16 | 0.64 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 19 | 0.64 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 19 | 0.64 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 19 | 0.64 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 19 | 0.64 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 19 | 0.64 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 19 | 0.64 |
| (1,6020) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 2 | 0.64 |
| (1,6020) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 2 | 0.64 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 3 | 0.64 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 19 | 0.64 |
| (1,5963) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 7 | 0.64 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 20 | 0.64 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 20 | 0.64 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 1 | 0.64 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 1 | 0.64 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 1 | 0.64 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 19 | 0.64 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 19 | 0.64 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 19 | 0.64 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 1 | 0.64 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 3 | 0.64 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 11 | 0.64 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 20 | 0.64 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 4 | 0.64 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 14 | 0.64 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 14 | 0.64 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 6 | 0.64 |
| (1,5327) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 18 | 0.64 |
| (1,5327) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 18 | 0.64 |
| (1,5327) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 18 | 0.64 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 19 | 0.64 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 10 | 0.64 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 11 | 0.64 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 10 | 0.64 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 8 | 0.64 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 12 | 0.64 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 17 | 0.64 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 13 | 0.64 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 13 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 13 | 0.64 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 3 | 0.64 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 11 | 0.64 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 10 | 0.64 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 6 | 0.64 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 6 | 0.64 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 6 | 0.64 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 2 | 0.64 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 2 | 0.64 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 16 | 0.64 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 16 | 0.64 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 16 | 0.64 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 16 | 0.64 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 17 | 0.64 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 17 | 0.64 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 17 | 0.64 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 17 | 0.64 |
| (1,4573) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 17 | 0.64 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 4 | 0.64 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 4 | 0.64 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 17 | 0.64 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 17 | 0.64 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 17 | 0.64 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 17 | 0.64 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 17 | 0.64 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 17 | 0.64 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 2 | 0.64 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 2 | 0.64 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 17 | 0.64 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 17 | 0.64 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 2 | 0.64 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 2 | 0.64 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 2 | 0.64 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 2 | 0.64 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 17 | 0.64 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 17 | 0.64 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 17 | 0.64 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 17 | 0.64 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 17 | 0.64 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 17 | 0.64 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 19 | 0.64 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 19 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 19 | 0.64 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 19 | 0.64 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 19 | 0.64 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 19 | 0.64 |
| (1,4007) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 13 | 0.64 |
| (1,4007) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 13 | 0.64 |
| (1,4001) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 18 | 0.64 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 12 | 0.64 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 12 | 0.64 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 12 | 0.64 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 12 | 0.64 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 12 | 0.64 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 12 | 0.64 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 9 | 0.64 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 9 | 0.64 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 3 | 0.64 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 10 | 0.64 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 10 | 0.64 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 11 | 0.64 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 11 | 0.64 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 7 | 0.64 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 19 | 0.64 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 19 | 0.64 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 14 | 0.64 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 14 | 0.64 |
| (1,3613) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 8 | 0.64 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 10 | 0.64 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 10 | 0.64 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 10 | 0.64 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 10 | 0.64 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 10 | 0.64 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 10 | 0.64 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 15 | 0.64 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 12 | 0.64 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 12 | 0.64 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 3 | 0.64 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 3 | 0.64 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 2 | 0.64 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 1 | 0.64 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 14 | 0.64 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 14 | 0.64 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 5 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 9 | 0.64 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 11 | 0.64 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 12 | 0.64 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 13 | 0.64 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 16 | 0.64 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 18 | 0.64 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 20 | 0.64 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 9 | 0.64 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 9 | 0.64 |
| (1,3149) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 19 | 0.64 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 3 | 0.64 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 4 | 0.64 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 8 | 0.64 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 8 | 0.64 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 16 | 0.64 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 16 | 0.64 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 16 | 0.64 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 1 | 0.64 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 6 | 0.64 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 10 | 0.64 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 9 | 0.64 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 3 | 0.64 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 2 | 0.64 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 2 | 0.64 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 15 | 0.64 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 15 | 0.64 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 20 | 0.64 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 20 | 0.64 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 20 | 0.64 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 20 | 0.64 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 20 | 0.64 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 20 | 0.64 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 10 | 0.64 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 10 | 0.64 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 13 | 0.64 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 4 | 0.64 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 3 | 0.64 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 18 | 0.64 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 8 | 0.64 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 16 | 0.64 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 12 | 0.64 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 13 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 5 | 0.64 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 5 | 0.64 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 5 | 0.64 |
| (1,2385) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 19 | 0.64 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 17 | 0.64 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 17 | 0.64 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 17 | 0.64 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 16 | 0.64 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 16 | 0.64 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 16 | 0.64 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 18 | 0.64 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 18 | 0.64 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 18 | 0.64 |
| (1,2289) | 1:3:A:ASP:HB2 | 1:4:A:GLU:H | 2 | 0.64 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 2 | 0.64 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 7 | 0.64 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 15 | 0.64 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 16 | 0.64 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 17 | 0.64 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 5 | 0.64 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 5 | 0.64 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 5 | 0.64 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 14 | 0.64 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 14 | 0.64 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 14 | 0.64 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 7 | 0.64 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 7 | 0.64 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 7 | 0.64 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 9 | 0.64 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 9 | 0.64 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 19 | 0.64 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 1 | 0.64 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 1 | 0.64 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 1 | 0.64 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 16 | 0.64 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 16 | 0.64 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 16 | 0.64 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 17 | 0.64 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 17 | 0.64 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 17 | 0.64 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 6 | 0.64 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 6 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 6 | 0.64 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 12 | 0.64 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 12 | 0.64 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 12 | 0.64 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 18 | 0.64 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 6 | 0.64 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 6 | 0.64 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 20 | 0.64 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 20 | 0.64 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 20 | 0.64 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 20 | 0.64 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 20 | 0.64 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 20 | 0.64 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 20 | 0.64 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 20 | 0.64 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 20 | 0.64 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 4 | 0.64 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 8 | 0.64 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 8 | 0.64 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 8 | 0.64 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 7 | 0.64 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 4 | 0.64 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 4 | 0.64 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 4 | 0.64 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 4 | 0.64 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 4 | 0.64 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 4 | 0.64 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 4 | 0.64 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 4 | 0.64 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 4 | 0.64 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 11 | 0.64 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 11 | 0.64 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 11 | 0.64 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 11 | 0.64 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 11 | 0.64 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 11 | 0.64 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 11 | 0.64 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 11 | 0.64 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 11 | 0.64 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 9 | 0.64 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 9 | 0.64 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 9 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 15 | 0.64 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 15 | 0.64 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 15 | 0.64 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 11 | 0.64 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 6 | 0.64 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 12 | 0.64 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 16 | 0.64 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 18 | 0.64 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 19 | 0.64 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 1 | 0.64 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 6 | 0.64 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 7 | 0.64 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 10 | 0.64 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 13 | 0.64 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 16 | 0.64 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 19 | 0.64 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 12 | 0.64 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 10 | 0.64 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 10 | 0.64 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 10 | 0.64 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 10 | 0.64 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 10 | 0.64 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 10 | 0.64 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 10 | 0.64 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 10 | 0.64 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 10 | 0.64 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 17 | 0.64 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 17 | 0.64 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 17 | 0.64 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 15 | 0.64 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 1 | 0.64 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 12 | 0.64 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 1 | 0.64 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 4 | 0.64 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 4 | 0.64 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 3 | 0.64 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 6 | 0.64 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 4 | 0.64 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 1 | 0.64 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 4 | 0.64 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 5 | 0.64 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 8 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 10 | 0.64 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 11 | 0.64 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 16 | 0.64 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 17 | 0.64 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 20 | 0.64 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 11 | 0.64 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 15 | 0.64 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 19 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 2 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 3 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 5 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 6 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 7 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 8 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 10 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 15 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 16 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 18 | 0.64 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 20 | 0.64 |
| (1,903) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 11 | 0.64 |
| (1,903) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 19 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 2 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 3 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 5 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 6 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 7 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 8 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 10 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 15 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 16 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 18 | 0.64 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 20 | 0.64 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 16 | 0.64 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 18 | 0.64 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 14 | 0.64 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 14 | 0.64 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 4 | 0.64 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 4 | 0.64 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 18 | 0.64 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 18 | 0.64 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 19 | 0.64 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 19 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 11 | 0.64 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 11 | 0.64 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 11 | 0.64 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 7 | 0.64 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 4 | 0.64 |
| (1,711) | 1:97:A:LYS:H | 1:97:A:LYS:HA | 5 | 0.64 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 9 | 0.64 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 9 | 0.64 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 9 | 0.64 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 12 | 0.64 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 10 | 0.64 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 12 | 0.64 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 14 | 0.64 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 8 | 0.64 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 11 | 0.64 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 11 | 0.64 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 11 | 0.64 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 11 | 0.64 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 11 | 0.64 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 11 | 0.64 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 3 | 0.64 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 3 | 0.64 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 3 | 0.64 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 9 | 0.64 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 9 | 0.64 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 9 | 0.64 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 11 | 0.64 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 11 | 0.64 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 11 | 0.64 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 19 | 0.64 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 7 | 0.64 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 7 | 0.64 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 7 | 0.64 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 7 | 0.64 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 7 | 0.64 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 13 | 0.64 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 13 | 0.64 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 13 | 0.64 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 8 | 0.64 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 6 | 0.64 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 15 | 0.64 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 10 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,333) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 12 | 0.64 |
| (1,333) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 12 | 0.64 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 2 | 0.64 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 7 | 0.64 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 7 | 0.64 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 7 | 0.64 |
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 7 | 0.64 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 7 | 0.64 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 7 | 0.64 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 7 | 0.64 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD11 | 12 | 0.64 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD12 | 12 | 0.64 |
| (1,296) | 1:78:A:ILE:H | 1:78:A:ILE:HD13 | 12 | 0.64 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 6 | 0.64 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 11 | 0.64 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 5 | 0.64 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 5 | 0.64 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 5 | 0.64 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 2 | 0.64 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 12 | 0.64 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 15 | 0.64 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 15 | 0.64 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 1 | 0.64 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 1 | 0.64 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 8 | 0.64 |
| (1,80) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 2 | 0.64 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 20 | 0.64 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 20 | 0.64 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 20 | 0.64 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 20 | 0.64 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 20 | 0.64 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 20 | 0.64 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 2 | 0.63 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 7 | 0.63 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 7 | 0.63 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 11 | 0.63 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 11 | 0.63 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG12 | 7 | 0.63 |
| (3,1044) | 1:151:A:PHE:HZ | 1:156:A:ILE:HG13 | 7 | 0.63 |
| (3,944) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 4 | 0.63 |
| (3,944) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 4 | 0.63 |
| (3,944) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 4 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,944) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 4 | 0.63 |
| (3,841) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB2 | 4 | 0.63 |
| (3,841) | 1:63:A:LYS:HD2 | 1:67:A:SER:HB3 | 4 | 0.63 |
| (3,841) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB2 | 4 | 0.63 |
| (3,841) | 1:63:A:LYS:HD3 | 1:67:A:SER:HB3 | 4 | 0.63 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 3 | 0.63 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 3 | 0.63 |
| (3,409) | 1:61:A:LEU:H | 1:157:A:HIS:H | 3 | 0.63 |
| (3,407) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 6 | 0.63 |
| (3,407) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 6 | 0.63 |
| (3,407) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 6 | 0.63 |
| (3,96) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 7 | 0.63 |
| (3,96) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 7 | 0.63 |
| (3,96) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 7 | 0.63 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 12 | 0.63 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 12 | 0.63 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 12 | 0.63 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 12 | 0.63 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 12 | 0.63 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 12 | 0.63 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 12 | 0.63 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 12 | 0.63 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 12 | 0.63 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 6 | 0.63 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 6 | 0.63 |
| (3,25) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 9 | 0.63 |
| (3,25) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 9 | 0.63 |
| (3,25) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 9 | 0.63 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 2 | 0.63 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 2 | 0.63 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 2 | 0.63 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 2 | 0.63 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 18 | 0.63 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 18 | 0.63 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 2 | 0.63 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 2 | 0.63 |
| (1,9026) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 20 | 0.63 |
| (1,9026) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 20 | 0.63 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 19 | 0.63 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 19 | 0.63 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 4 | 0.63 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 4 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 3 | 0.63 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 3 | 0.63 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 3 | 0.63 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 3 | 0.63 |
| (1,8521) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 19 | 0.63 |
| (1,8521) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 19 | 0.63 |
| (1,8443) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 13 | 0.63 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 3 | 0.63 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 13 | 0.63 |
| (1,8371) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 12 | 0.63 |
| (1,8040) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 18 | 0.63 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 8 | 0.63 |
| (1,7861) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 13 | 0.63 |
| (1,7861) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 13 | 0.63 |
| (1,7861) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 13 | 0.63 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 13 | 0.63 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 13 | 0.63 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 5 | 0.63 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 5 | 0.63 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 13 | 0.63 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 13 | 0.63 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 19 | 0.63 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 8 | 0.63 |
| (1,7186) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 8 | 0.63 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 14 | 0.63 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 19 | 0.63 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 4 | 0.63 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 4 | 0.63 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 10 | 0.63 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 10 | 0.63 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 10 | 0.63 |
| (1,7055) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 4 | 0.63 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 4 | 0.63 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 4 | 0.63 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 17 | 0.63 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 17 | 0.63 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 5 | 0.63 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 5 | 0.63 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 7 | 0.63 |
| (1,6935) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 6 | 0.63 |
| (1,6931) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 11 | 0.63 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 3 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 7 | 0.63 |
| (1,6833) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 14 | 0.63 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 13 | 0.63 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 17 | 0.63 |
| (1,6726) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 15 | 0.63 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 2 | 0.63 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 2 | 0.63 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 2 | 0.63 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 2 | 0.63 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 2 | 0.63 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 2 | 0.63 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 4 | 0.63 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 16 | 0.63 |
| (1,6558) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 7 | 0.63 |
| (1,6558) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 7 | 0.63 |
| (1,6558) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 7 | 0.63 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 4 | 0.63 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 6 | 0.63 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 20 | 0.63 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 17 | 0.63 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 17 | 0.63 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 17 | 0.63 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 17 | 0.63 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 17 | 0.63 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 17 | 0.63 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 9 | 0.63 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 9 | 0.63 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 9 | 0.63 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 15 | 0.63 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 15 | 0.63 |
| (1,6447) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 15 | 0.63 |
| (1,6307) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 5 | 0.63 |
| (1,6307) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 5 | 0.63 |
| (1,6307) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 5 | 0.63 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 6 | 0.63 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 6 | 0.63 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 6 | 0.63 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 8 | 0.63 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 8 | 0.63 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 8 | 0.63 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 14 | 0.63 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 11 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 17 | 0.63 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 7 | 0.63 |
| (1,6116) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 4 | 0.63 |
| (1,6116) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 4 | 0.63 |
| (1,6116) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 4 | 0.63 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 8 | 0.63 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 8 | 0.63 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 8 | 0.63 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 8 | 0.63 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 8 | 0.63 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 8 | 0.63 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 8 | 0.63 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 8 | 0.63 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 8 | 0.63 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 12 | 0.63 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 15 | 0.63 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 15 | 0.63 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 1 | 0.63 |
| (1,5783) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 11 | 0.63 |
| (1,5783) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 11 | 0.63 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 16 | 0.63 |
| (1,5702) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 4 | 0.63 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 1 | 0.63 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 15 | 0.63 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 1 | 0.63 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 4 | 0.63 |
| (1,5535) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 5 | 0.63 |
| (1,5535) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 5 | 0.63 |
| (1,5535) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 5 | 0.63 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 5 | 0.63 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 20 | 0.63 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 18 | 0.63 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 18 | 0.63 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 18 | 0.63 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 18 | 0.63 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 18 | 0.63 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 18 | 0.63 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 6 | 0.63 |
| (1,5182) | 1:83:A:GLU:H | 1:84:A:GLU:H | 2 | 0.63 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 18 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 1 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 4 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 8 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 11 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 14 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 15 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 17 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 18 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 19 | 0.63 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 20 | 0.63 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 11 | 0.63 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 11 | 0.63 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 11 | 0.63 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 0.63 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 0.63 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 0.63 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 12 | 0.63 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 12 | 0.63 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 12 | 0.63 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 12 | 0.63 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 12 | 0.63 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 12 | 0.63 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 12 | 0.63 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 12 | 0.63 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 12 | 0.63 |
| (1,4856) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 14 | 0.63 |
| (1,4856) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 14 | 0.63 |
| (1,4856) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 14 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 4 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 4 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 4 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 4 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 4 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 4 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 4 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 4 | 0.63 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 4 | 0.63 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 2 | 0.63 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 10 | 0.63 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 20 | 0.63 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 13 | 0.63 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 11 | 0.63 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 9 | 0.63 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 9 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 9 | 0.63 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 8 | 0.63 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 11 | 0.63 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 11 | 0.63 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 11 | 0.63 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 12 | 0.63 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 5 | 0.63 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 5 | 0.63 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 11 | 0.63 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 11 | 0.63 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 10 | 0.63 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 10 | 0.63 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 11 | 0.63 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 11 | 0.63 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 11 | 0.63 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 11 | 0.63 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 11 | 0.63 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 11 | 0.63 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 8 | 0.63 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 8 | 0.63 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 9 | 0.63 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 9 | 0.63 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 9 | 0.63 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 9 | 0.63 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 9 | 0.63 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 9 | 0.63 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 20 | 0.63 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 20 | 0.63 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 14 | 0.63 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 14 | 0.63 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 14 | 0.63 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 14 | 0.63 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 14 | 0.63 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 14 | 0.63 |
| (1,3999) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 18 | 0.63 |
| (1,3999) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 18 | 0.63 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 3 | 0.63 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 3 | 0.63 |
| (1,3871) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 8 | 0.63 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 3 | 0.63 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 3 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 1 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 1 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 3 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 3 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 6 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 6 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 8 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 8 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 10 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 10 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 12 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 12 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 14 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 14 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 15 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 15 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 17 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 17 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 20 | 0.63 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 20 | 0.63 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 2 | 0.63 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 2 | 0.63 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 20 | 0.63 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 0.63 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 8 | 0.63 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 8 | 0.63 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 15 | 0.63 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 15 | 0.63 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 6 | 0.63 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 6 | 0.63 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 13 | 0.63 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 13 | 0.63 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 13 | 0.63 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 13 | 0.63 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 13 | 0.63 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 13 | 0.63 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 13 | 0.63 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 13 | 0.63 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 13 | 0.63 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 5 | 0.63 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 5 | 0.63 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 5 | 0.63 |
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 2 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3391) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 2 | 0.63 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 14 | 0.63 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 18 | 0.63 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 11 | 0.63 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 11 | 0.63 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 11 | 0.63 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 13 | 0.63 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 15 | 0.63 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 15 | 0.63 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 15 | 0.63 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 20 | 0.63 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 20 | 0.63 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 20 | 0.63 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 3 | 0.63 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 10 | 0.63 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 14 | 0.63 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 15 | 0.63 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 17 | 0.63 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 7 | 0.63 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 7 | 0.63 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 7 | 0.63 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 6 | 0.63 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 17 | 0.63 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 17 | 0.63 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 7 | 0.63 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 14 | 0.63 |
| (1,3117) | 1:47:A:ASN:H | 1:47:A:ASN:HA | 11 | 0.63 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 12 | 0.63 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 3 | 0.63 |
| (1,2949) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 11 | 0.63 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 9 | 0.63 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 18 | 0.63 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 5 | 0.63 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 11 | 0.63 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 20 | 0.63 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 4 | 0.63 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 4 | 0.63 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 4 | 0.63 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 11 | 0.63 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 11 | 0.63 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 11 | 0.63 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 2 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 1 | 0.63 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 7 | 0.63 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 3 | 0.63 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 3 | 0.63 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 9 | 0.63 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 9 | 0.63 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 9 | 0.63 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 9 | 0.63 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 5 | 0.63 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 14 | 0.63 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 17 | 0.63 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 18 | 0.63 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 3 | 0.63 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 5 | 0.63 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 6 | 0.63 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 16 | 0.63 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 16 | 0.63 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 11 | 0.63 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 2 | 0.63 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 9 | 0.63 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 18 | 0.63 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 18 | 0.63 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 18 | 0.63 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 4 | 0.63 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 6 | 0.63 |
| (1,2297) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 11 | 0.63 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 2 | 0.63 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 2 | 0.63 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 2 | 0.63 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 2 | 0.63 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 13 | 0.63 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 20 | 0.63 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 19 | 0.63 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 19 | 0.63 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 19 | 0.63 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 6 | 0.63 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 6 | 0.63 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 6 | 0.63 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 9 | 0.63 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 9 | 0.63 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 4 | 0.63 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 4 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 4 | 0.63 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 20 | 0.63 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 20 | 0.63 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 20 | 0.63 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 20 | 0.63 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 20 | 0.63 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 20 | 0.63 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 20 | 0.63 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 20 | 0.63 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 20 | 0.63 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 3 | 0.63 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 3 | 0.63 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 3 | 0.63 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 7 | 0.63 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 7 | 0.63 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 7 | 0.63 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 17 | 0.63 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 17 | 0.63 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 17 | 0.63 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 10 | 0.63 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 10 | 0.63 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 10 | 0.63 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 5 | 0.63 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 5 | 0.63 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 5 | 0.63 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 15 | 0.63 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 20 | 0.63 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 16 | 0.63 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 16 | 0.63 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 16 | 0.63 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 14 | 0.63 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 14 | 0.63 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 14 | 0.63 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 14 | 0.63 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 19 | 0.63 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 19 | 0.63 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 19 | 0.63 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 1 | 0.63 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 11 | 0.63 |
| (1,1741) | 1:140:A:ALA:HA | 1:141:A:LEU:H | 8 | 0.63 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 13 | 0.63 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 13 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 2 | 0.63 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 2 | 0.63 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 2 | 0.63 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 2 | 0.63 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 2 | 0.63 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 2 | 0.63 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 15 | 0.63 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 4 | 0.63 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 15 | 0.63 |
| (1,1693) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 19 | 0.63 |
| (1,1693) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 19 | 0.63 |
| (1,1693) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 19 | 0.63 |
| (1,1689) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 19 | 0.63 |
| (1,1689) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 19 | 0.63 |
| (1,1689) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 19 | 0.63 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 6 | 0.63 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 6 | 0.63 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 6 | 0.63 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 11 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 1 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 1 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 1 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 1 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 1 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 1 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 1 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 1 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 1 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 15 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 15 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 15 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 15 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 15 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 15 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 15 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 15 | 0.63 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 15 | 0.63 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 17 | 0.63 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 17 | 0.63 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 17 | 0.63 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 17 | 0.63 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 17 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 17 | 0.63 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 17 | 0.63 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 17 | 0.63 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 17 | 0.63 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 14 | 0.63 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 14 | 0.63 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 18 | 0.63 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 18 | 0.63 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 18 | 0.63 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 10 | 0.63 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 13 | 0.63 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 9 | 0.63 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 14 | 0.63 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 15 | 0.63 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 18 | 0.63 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 18 | 0.63 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 11 | 0.63 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 17 | 0.63 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 12 | 0.63 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 12 | 0.63 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 12 | 0.63 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 3 | 0.63 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 3 | 0.63 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 3 | 0.63 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 1 | 0.63 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 2 | 0.63 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 17 | 0.63 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 17 | 0.63 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 17 | 0.63 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 1 | 0.63 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 14 | 0.63 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 3 | 0.63 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 9 | 0.63 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 16 | 0.63 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 10 | 0.63 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 10 | 0.63 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 16 | 0.63 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 16 | 0.63 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 5 | 0.63 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 6 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 2 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 3 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 6 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 7 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 9 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 12 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 13 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 14 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 15 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 18 | 0.63 |
| (1,1071) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 19 | 0.63 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 13 | 0.63 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 13 | 0.63 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 13 | 0.63 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 19 | 0.63 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 19 | 0.63 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 19 | 0.63 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 15 | 0.63 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 1 | 0.63 |
| (1,941) | 1:106:A:LEU:H | 1:106:A:LEU:HA | 19 | 0.63 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 2 | 0.63 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 7 | 0.63 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 9 | 0.63 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 1 | 0.63 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 12 | 0.63 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 17 | 0.63 |
| (1,903) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 14 | 0.63 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 1 | 0.63 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 12 | 0.63 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 17 | 0.63 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 2 | 0.63 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 2 | 0.63 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 2 | 0.63 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 19 | 0.63 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 19 | 0.63 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 19 | 0.63 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 19 | 0.63 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 19 | 0.63 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 19 | 0.63 |
| (1,849) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 3 | 0.63 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 2 | 0.63 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 2 | 0.63 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 2 | 0.63 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 13 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 1 | 0.63 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 15 | 0.63 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 19 | 0.63 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 19 | 0.63 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 19 | 0.63 |
| (1,757) | 1:99:A:GLY:H | 1:99:A:GLY:HA3 | 3 | 0.63 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 20 | 0.63 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 6 | 0.63 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 6 | 0.63 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 6 | 0.63 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 13 | 0.63 |
| (1,585) | 1:90:A:ASN:HA | 1:93:A:ILE:HG13 | 7 | 0.63 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 3 | 0.63 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 3 | 0.63 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 3 | 0.63 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 10 | 0.63 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 10 | 0.63 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 10 | 0.63 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 15 | 0.63 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 15 | 0.63 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 15 | 0.63 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 4 | 0.63 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 4 | 0.63 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 4 | 0.63 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 14 | 0.63 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 14 | 0.63 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 14 | 0.63 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 4 | 0.63 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 4 | 0.63 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 4 | 0.63 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 7 | 0.63 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 20 | 0.63 |
| (1,378) | 1:81:A:THR:H | 1:85:A:ALA:H | 12 | 0.63 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 19 | 0.63 |
| (1,362) | 1:83:A:GLU:H | 1:84:A:GLU:H | 2 | 0.63 |
| (1,333) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 18 | 0.63 |
| (1,333) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 18 | 0.63 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 4 | 0.63 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 4 | 0.63 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 4 | 0.63 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 10 | 0.63 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 10 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 10 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 1 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 4 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 8 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 11 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 14 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 15 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 17 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 18 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 19 | 0.63 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 20 | 0.63 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 20 | 0.63 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 9 | 0.63 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 9 | 0.63 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 9 | 0.63 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 2 | 0.63 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 9 | 0.63 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 11 | 0.63 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 14 | 0.63 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 17 | 0.63 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 10 | 0.63 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 14 | 0.63 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 17 | 0.63 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 15 | 0.63 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 15 | 0.63 |
| (1,191) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 1 | 0.63 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 15 | 0.63 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 15 | 0.63 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 15 | 0.63 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 15 | 0.63 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 15 | 0.63 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 15 | 0.63 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 15 | 0.63 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 15 | 0.63 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 15 | 0.63 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 2 | 0.63 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 2 | 0.63 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 2 | 0.63 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 12 | 0.63 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 12 | 0.63 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 12 | 0.63 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 8 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 8 | 0.63 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 8 | 0.63 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 8 | 0.63 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 8 | 0.63 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 8 | 0.63 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 8 | 0.63 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 8 | 0.63 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 8 | 0.63 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 16 | 0.63 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 16 | 0.63 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 16 | 0.63 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 16 | 0.63 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 16 | 0.63 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 16 | 0.63 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 18 | 0.63 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 20 | 0.63 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 12 | 0.63 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 10 | 0.63 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 17 | 0.62 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 17 | 0.62 |
| (3,488) | 1:85:A:ALA:H | 1:88:A:LEU:H | 13 | 0.62 |
| (3,355) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 13 | 0.62 |
| (3,351) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 18 | 0.62 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 1 | 0.62 |
| (3,179) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 17 | 0.62 |
| (3,11) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 10 | 0.62 |
| (3,11) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 10 | 0.62 |
| (3,11) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 10 | 0.62 |
| (1,9593) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 18 | 0.62 |
| (1,9593) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 18 | 0.62 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 4 | 0.62 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 4 | 0.62 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 4 | 0.62 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 4 | 0.62 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 4 | 0.62 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 4 | 0.62 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 16 | 0.62 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 16 | 0.62 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 11 | 0.62 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 11 | 0.62 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 1 | 0.62 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 1 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 6 | 0.62 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 6 | 0.62 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 10 | 0.62 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 10 | 0.62 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 17 | 0.62 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 17 | 0.62 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 20 | 0.62 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 20 | 0.62 |
| (1,9353) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 2 | 0.62 |
| (1,9353) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 2 | 0.62 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 1 | 0.62 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 1 | 0.62 |
| (1,9184) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 2 | 0.62 |
| (1,9184) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 2 | 0.62 |
| (1,9130) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 13 | 0.62 |
| (1,9130) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 13 | 0.62 |
| (1,9130) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 13 | 0.62 |
| (1,9130) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 13 | 0.62 |
| (1,9130) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 13 | 0.62 |
| (1,9130) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 13 | 0.62 |
| (1,9026) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 17 | 0.62 |
| (1,9026) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 17 | 0.62 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 1 | 0.62 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 1 | 0.62 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 1 | 0.62 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 1 | 0.62 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 10 | 0.62 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 10 | 0.62 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 10 | 0.62 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 10 | 0.62 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 10 | 0.62 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 10 | 0.62 |
| (1,8786) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 1 | 0.62 |
| (1,8786) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 1 | 0.62 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 18 | 0.62 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 18 | 0.62 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 4 | 0.62 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 4 | 0.62 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 15 | 0.62 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 15 | 0.62 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 20 | 0.62 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 20 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 17 | 0.62 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 17 | 0.62 |
| (1,8443) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 3 | 0.62 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 19 | 0.62 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 5 | 0.62 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 11 | 0.62 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 14 | 0.62 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 17 | 0.62 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 13 | 0.62 |
| (1,7916) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 18 | 0.62 |
| (1,7916) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 18 | 0.62 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 14 | 0.62 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 13 | 0.62 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 19 | 0.62 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 19 | 0.62 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 11 | 0.62 |
| (1,7247) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 7 | 0.62 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 5 | 0.62 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 12 | 0.62 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 6 | 0.62 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 6 | 0.62 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 6 | 0.62 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 20 | 0.62 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 16 | 0.62 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 16 | 0.62 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 16 | 0.62 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 6 | 0.62 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 16 | 0.62 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 16 | 0.62 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 16 | 0.62 |
| (1,6841) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 7 | 0.62 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 5 | 0.62 |
| (1,6730) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 14 | 0.62 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 16 | 0.62 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 7 | 0.62 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 5 | 0.62 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 17 | 0.62 |
| (1,6436) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 16 | 0.62 |
| (1,6436) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 16 | 0.62 |
| (1,6436) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 16 | 0.62 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 19 | 0.62 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 19 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 19 | 0.62 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 8 | 0.62 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 8 | 0.62 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 8 | 0.62 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 8 | 0.62 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 8 | 0.62 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 8 | 0.62 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 0.62 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 12 | 0.62 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 12 | 0.62 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 12 | 0.62 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 14 | 0.62 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 18 | 0.62 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 18 | 0.62 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 1 | 0.62 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 2 | 0.62 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 9 | 0.62 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 9 | 0.62 |
| (1,5609) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 9 | 0.62 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 18 | 0.62 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 18 | 0.62 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 18 | 0.62 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 20 | 0.62 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 20 | 0.62 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 20 | 0.62 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 20 | 0.62 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 20 | 0.62 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 20 | 0.62 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 20 | 0.62 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 20 | 0.62 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 20 | 0.62 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 1 | 0.62 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 20 | 0.62 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 4 | 0.62 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 3 | 0.62 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 5 | 0.62 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 9 | 0.62 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 10 | 0.62 |
| (1,5095) | 1:79:A:THR:H | 1:79:A:THR:HA | 16 | 0.62 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 13 | 0.62 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 9 | 0.62 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 6 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 6 | 0.62 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 6 | 0.62 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 6 | 0.62 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 6 | 0.62 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 6 | 0.62 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 5 | 0.62 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 5 | 0.62 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 5 | 0.62 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 5 | 0.62 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 5 | 0.62 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 5 | 0.62 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 5 | 0.62 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 5 | 0.62 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 5 | 0.62 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 20 | 0.62 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 20 | 0.62 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 20 | 0.62 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 20 | 0.62 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 20 | 0.62 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 20 | 0.62 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 20 | 0.62 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 20 | 0.62 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 20 | 0.62 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 17 | 0.62 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 17 | 0.62 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 17 | 0.62 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 4 | 0.62 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 4 | 0.62 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 4 | 0.62 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 9 | 0.62 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 9 | 0.62 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 9 | 0.62 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 2 | 0.62 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 3 | 0.62 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 3 | 0.62 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 7 | 0.62 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 7 | 0.62 |
| (1,4173) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HA | 13 | 0.62 |
| (1,4173) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HA | 13 | 0.62 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 4 | 0.62 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 4 | 0.62 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 4 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 4 | 0.62 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 4 | 0.62 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 4 | 0.62 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 6 | 0.62 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 6 | 0.62 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 6 | 0.62 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 6 | 0.62 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 1 | 0.62 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 1 | 0.62 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 1 | 0.62 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 1 | 0.62 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 1 | 0.62 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 1 | 0.62 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 4 | 0.62 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 4 | 0.62 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 7 | 0.62 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 7 | 0.62 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 16 | 0.62 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 16 | 0.62 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 10 | 0.62 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 5 | 0.62 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 5 | 0.62 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 16 | 0.62 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 16 | 0.62 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 4 | 0.62 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 4 | 0.62 |
| (1,3517) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 12 | 0.62 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 12 | 0.62 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 12 | 0.62 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 2 | 0.62 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 2 | 0.62 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 5 | 0.62 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 5 | 0.62 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 16 | 0.62 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 16 | 0.62 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 16 | 0.62 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 19 | 0.62 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 1 | 0.62 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 1 | 0.62 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 1 | 0.62 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 13 | 0.62 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 10 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 10 | 0.62 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 10 | 0.62 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 8 | 0.62 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 6 | 0.62 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 3 | 0.62 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 16 | 0.62 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 11 | 0.62 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 1 | 0.62 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 1 | 0.62 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 1 | 0.62 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 3 | 0.62 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 14 | 0.62 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 14 | 0.62 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 12 | 0.62 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 20 | 0.62 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 14 | 0.62 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 7 | 0.62 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 14 | 0.62 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 17 | 0.62 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 5 | 0.62 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 5 | 0.62 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 14 | 0.62 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 14 | 0.62 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 1 | 0.62 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 6 | 0.62 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 7 | 0.62 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 14 | 0.62 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 2 | 0.62 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 18 | 0.62 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 12 | 0.62 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 14 | 0.62 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 4 | 0.62 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 8 | 0.62 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 12 | 0.62 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 16 | 0.62 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 19 | 0.62 |
| (1,2789) | 1:25:A:PHE:HD1 | 1:27:A:HIS:HB3 | 2 | 0.62 |
| (1,2789) | 1:25:A:PHE:HD2 | 1:27:A:HIS:HB3 | 2 | 0.62 |
| (1,2735) | 1:14:A:ARG:H | 1:24:A:TYR:HB3 | 14 | 0.62 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 14 | 0.62 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 14 | 0.62 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 7 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 3 | 0.62 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 6 | 0.62 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 6 | 0.62 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 17 | 0.62 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 5 | 0.62 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 16 | 0.62 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 3 | 0.62 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 7 | 0.62 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 8 | 0.62 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 10 | 0.62 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 13 | 0.62 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 18 | 0.62 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 19 | 0.62 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 20 | 0.62 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 6 | 0.62 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 16 | 0.62 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 8 | 0.62 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 11 | 0.62 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 17 | 0.62 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 7 | 0.62 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 17 | 0.62 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 2 | 0.62 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 12 | 0.62 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 12 | 0.62 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 12 | 0.62 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 10 | 0.62 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 4 | 0.62 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 4 | 0.62 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 4 | 0.62 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD11 | 11 | 0.62 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD12 | 11 | 0.62 |
| (1,2153) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD13 | 11 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 5 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 5 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 5 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 5 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 5 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 5 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 8 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 8 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 8 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 8 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 8 | 0.62 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 8 | 0.62 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 14 | 0.62 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 14 | 0.62 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 14 | 0.62 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 6 | 0.62 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 6 | 0.62 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 6 | 0.62 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 6 | 0.62 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 6 | 0.62 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 4 | 0.62 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 4 | 0.62 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 4 | 0.62 |
| (1,1965) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 2 | 0.62 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 6 | 0.62 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 6 | 0.62 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 6 | 0.62 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 8 | 0.62 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 8 | 0.62 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 8 | 0.62 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 3 | 0.62 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 9 | 0.62 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 9 | 0.62 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 7 | 0.62 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 12 | 0.62 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 4 | 0.62 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 8 | 0.62 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 9 | 0.62 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 2 | 0.62 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 12 | 0.62 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 20 | 0.62 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 2 | 0.62 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 12 | 0.62 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 1 | 0.62 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 1 | 0.62 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 9 | 0.62 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 9 | 0.62 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 9 | 0.62 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 5 | 0.62 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 5 | 0.62 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 5 | 0.62 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 12 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 12 | 0.62 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 12 | 0.62 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 2 | 0.62 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 2 | 0.62 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 2 | 0.62 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 2 | 0.62 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 2 | 0.62 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 3 | 0.62 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 8 | 0.62 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 9 | 0.62 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 12 | 0.62 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 13 | 0.62 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 16 | 0.62 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 18 | 0.62 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 20 | 0.62 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 3 | 0.62 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 7 | 0.62 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 7 | 0.62 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 11 | 0.62 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 18 | 0.62 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 18 | 0.62 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 17 | 0.62 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 12 | 0.62 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 12 | 0.62 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 12 | 0.62 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 3 | 0.62 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 18 | 0.62 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 16 | 0.62 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 14 | 0.62 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 18 | 0.62 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 18 | 0.62 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 18 | 0.62 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 13 | 0.62 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 13 | 0.62 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 13 | 0.62 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 18 | 0.62 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 9 | 0.62 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 5 | 0.62 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 18 | 0.62 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 1 | 0.62 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 12 | 0.62 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 3 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 5 | 0.62 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 18 | 0.62 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 4 | 0.62 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 15 | 0.62 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 20 | 0.62 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 7 | 0.62 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 7 | 0.62 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 7 | 0.62 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 8 | 0.62 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 13 | 0.62 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 13 | 0.62 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 8 | 0.62 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 8 | 0.62 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 8 | 0.62 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 9 | 0.62 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 3 | 0.62 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 3 | 0.62 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 3 | 0.62 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 20 | 0.62 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 11 | 0.62 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 11 | 0.62 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 11 | 0.62 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 15 | 0.62 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 15 | 0.62 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 15 | 0.62 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 12 | 0.62 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 12 | 0.62 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 12 | 0.62 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 18 | 0.62 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 18 | 0.62 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 18 | 0.62 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 18 | 0.62 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 18 | 0.62 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 20 | 0.62 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 20 | 0.62 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 20 | 0.62 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 20 | 0.62 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 20 | 0.62 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 20 | 0.62 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 3 | 0.62 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 3 | 0.62 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 11 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 11 | 0.62 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 11 | 0.62 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 11 | 0.62 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 11 | 0.62 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 11 | 0.62 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 11 | 0.62 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 11 | 0.62 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 11 | 0.62 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 3 | 0.62 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 10 | 0.62 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 10 | 0.62 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 10 | 0.62 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 11 | 0.62 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 11 | 0.62 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 11 | 0.62 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 8 | 0.62 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 15 | 0.62 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 1 | 0.62 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 15 | 0.62 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 15 | 0.62 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 15 | 0.62 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 2 | 0.62 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 16 | 0.62 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 2 | 0.62 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 2 | 0.62 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 2 | 0.62 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 2 | 0.62 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 2 | 0.62 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 2 | 0.62 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 18 | 0.62 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 20 | 0.62 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 10 | 0.62 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 3 | 0.62 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 5 | 0.62 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 9 | 0.62 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 10 | 0.62 |
| (1,298) | 1:79:A:THR:H | 1:79:A:THR:HA | 16 | 0.62 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 10 | 0.62 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 19 | 0.62 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 6 | 0.62 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 6 | 0.62 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 6 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 9 | 0.62 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 7 | 0.62 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 15 | 0.62 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 1 | 0.62 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 20 | 0.62 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 6 | 0.62 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 3 | 0.62 |
| (1,199) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 11 | 0.62 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 4 | 0.62 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 4 | 0.62 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 2 | 0.62 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 2 | 0.62 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 2 | 0.62 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 2 | 0.62 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 2 | 0.62 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 2 | 0.62 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 2 | 0.62 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 2 | 0.62 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 2 | 0.62 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 20 | 0.62 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 20 | 0.62 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 20 | 0.62 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 15 | 0.62 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 15 | 0.62 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 15 | 0.62 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 12 | 0.62 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 1 | 0.62 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 1 | 0.62 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 1 | 0.62 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 2 | 0.62 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 1 | 0.62 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 1 | 0.62 |
| (4,282) | 1:98:A:SER:CB | 1:3:A:ASP:H | 20 | 0.61 |
| (4,95) | 1:15:A:MET:CB | 1:156:A:ILE:H | 19 | 0.61 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 8 | 0.61 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 14 | 0.61 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 14 | 0.61 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 14 | 0.61 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 14 | 0.61 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 1 | 0.61 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 1 | 0.61 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 15 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 15 | 0.61 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 15 | 0.61 |
| (3,647) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB2 | 4 | 0.61 |
| (3,647) | 1:132:A:LYS:HD2 | 1:135:A:GLU:HB3 | 4 | 0.61 |
| (3,589) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 4 | 0.61 |
| (3,409) | 1:61:A:LEU:H | 1:157:A:HIS:H | 16 | 0.61 |
| (3,400) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 4 | 0.61 |
| (3,400) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 4 | 0.61 |
| (3,400) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 4 | 0.61 |
| (3,351) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 6 | 0.61 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 16 | 0.61 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 14 | 0.61 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 20 | 0.61 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 20 | 0.61 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 20 | 0.61 |
| (3,166) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 11 | 0.61 |
| (3,166) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 11 | 0.61 |
| (3,166) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 11 | 0.61 |
| (3,166) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 11 | 0.61 |
| (3,166) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 11 | 0.61 |
| (3,166) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 11 | 0.61 |
| (3,75) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 13 | 0.61 |
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 4 | 0.61 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 4 | 0.61 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 4 | 0.61 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 16 | 0.61 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 16 | 0.61 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 5 | 0.61 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 5 | 0.61 |
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 5 | 0.61 |
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 5 | 0.61 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 5 | 0.61 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 5 | 0.61 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 7 | 0.61 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 7 | 0.61 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 5 | 0.61 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 5 | 0.61 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 1 | 0.61 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 1 | 0.61 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 4 | 0.61 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 4 | 0.61 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 4 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 4 | 0.61 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 4 | 0.61 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 4 | 0.61 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 17 | 0.61 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 17 | 0.61 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 14 | 0.61 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 14 | 0.61 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 12 | 0.61 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 12 | 0.61 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 16 | 0.61 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 16 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 3 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 3 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 3 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 3 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 3 | 0.61 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 3 | 0.61 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 1 | 0.61 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 1 | 0.61 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 0.61 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 0.61 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 2 | 0.61 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 2 | 0.61 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 13 | 0.61 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 13 | 0.61 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 8 | 0.61 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 8 | 0.61 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 17 | 0.61 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 2 | 0.61 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 8 | 0.61 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 16 | 0.61 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 18 | 0.61 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 16 | 0.61 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 9 | 0.61 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 14 | 0.61 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 6 | 0.61 |
| (1,7900) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 9 | 0.61 |
| (1,7900) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 9 | 0.61 |
| (1,7600) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 16 | 0.61 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 2 | 0.61 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 2 | 0.61 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 17 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 17 | 0.61 |
| (1,7306) | 1:40:A:ASN:HA | 1:41:A:SER:H | 15 | 0.61 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 10 | 0.61 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 10 | 0.61 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 10 | 0.61 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 10 | 0.61 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 10 | 0.61 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 10 | 0.61 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 14 | 0.61 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 8 | 0.61 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 8 | 0.61 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 8 | 0.61 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 1 | 0.61 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 1 | 0.61 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 17 | 0.61 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 17 | 0.61 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 17 | 0.61 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 16 | 0.61 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 10 | 0.61 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 19 | 0.61 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 6 | 0.61 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 8 | 0.61 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 9 | 0.61 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 12 | 0.61 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 6 | 0.61 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 6 | 0.61 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 1 | 0.61 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 1 | 0.61 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 3 | 0.61 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 20 | 0.61 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 10 | 0.61 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 13 | 0.61 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 16 | 0.61 |
| (1,6584) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 20 | 0.61 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 13 | 0.61 |
| (1,6414) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 17 | 0.61 |
| (1,6414) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 17 | 0.61 |
| (1,6414) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 17 | 0.61 |
| (1,6368) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 13 | 0.61 |
| (1,6368) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 13 | 0.61 |
| (1,6368) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 13 | 0.61 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 5 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 5 | 0.61 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 5 | 0.61 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 12 | 0.61 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 3 | 0.61 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 17 | 0.61 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 18 | 0.61 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 8 | 0.61 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 7 | 0.61 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 18 | 0.61 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 18 | 0.61 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 3 | 0.61 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 2 | 0.61 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 19 | 0.61 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 7 | 0.61 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 10 | 0.61 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 18 | 0.61 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 11 | 0.61 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 11 | 0.61 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 11 | 0.61 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 16 | 0.61 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 16 | 0.61 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 16 | 0.61 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 9 | 0.61 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG2 | 1 | 0.61 |
| (1,5593) | 1:100:A:GLU:H | 1:100:A:GLU:HG3 | 1 | 0.61 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 5 | 0.61 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 8 | 0.61 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 7 | 0.61 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 7 | 0.61 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 7 | 0.61 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 12 | 0.61 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 13 | 0.61 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 13 | 0.61 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 17 | 0.61 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 17 | 0.61 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 10 | 0.61 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 2 | 0.61 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 14 | 0.61 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 14 | 0.61 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 14 | 0.61 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 17 | 0.61 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 17 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 17 | 0.61 |
| (1,4907) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 16 | 0.61 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 5 | 0.61 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 5 | 0.61 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 5 | 0.61 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 6 | 0.61 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 14 | 0.61 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 14 | 0.61 |
| (1,4692) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 14 | 0.61 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 15 | 0.61 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 15 | 0.61 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 15 | 0.61 |
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 9 | 0.61 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 9 | 0.61 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 9 | 0.61 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 14 | 0.61 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 14 | 0.61 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 14 | 0.61 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 14 | 0.61 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 14 | 0.61 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 14 | 0.61 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 17 | 0.61 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 17 | 0.61 |
| (1,4571) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 17 | 0.61 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 17 | 0.61 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 17 | 0.61 |
| (1,4571) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 17 | 0.61 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 2 | 0.61 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 2 | 0.61 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 2 | 0.61 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 2 | 0.61 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 2 | 0.61 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 2 | 0.61 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 4 | 0.61 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 4 | 0.61 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 7 | 0.61 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 7 | 0.61 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 9 | 0.61 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 9 | 0.61 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 9 | 0.61 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 4 | 0.61 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 7 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 18 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 18 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 18 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 18 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 18 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 18 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 20 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 20 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 20 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 20 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 20 | 0.61 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 20 | 0.61 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 5 | 0.61 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 5 | 0.61 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 2 | 0.61 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 2 | 0.61 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 8 | 0.61 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 19 | 0.61 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 19 | 0.61 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 19 | 0.61 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 19 | 0.61 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 19 | 0.61 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 19 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 1 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 1 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 2 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 2 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 12 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 12 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 14 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 14 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 15 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 15 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 19 | 0.61 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 19 | 0.61 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 6 | 0.61 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 6 | 0.61 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 6 | 0.61 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 6 | 0.61 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 6 | 0.61 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 6 | 0.61 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 15 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 15 | 0.61 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 15 | 0.61 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 15 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 2 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 2 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 4 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 4 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 7 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 7 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 9 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 9 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 13 | 0.61 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 13 | 0.61 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 20 | 0.61 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 20 | 0.61 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 13 | 0.61 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 15 | 0.61 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 13 | 0.61 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 15 | 0.61 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 20 | 0.61 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 20 | 0.61 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 20 | 0.61 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 2 | 0.61 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 2 | 0.61 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 16 | 0.61 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 2 | 0.61 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 17 | 0.61 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 18 | 0.61 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 18 | 0.61 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 18 | 0.61 |
| (1,3213) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 18 | 0.61 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 2 | 0.61 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 3 | 0.61 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 3 | 0.61 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 12 | 0.61 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 8 | 0.61 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 1 | 0.61 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 1 | 0.61 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 1 | 0.61 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 10 | 0.61 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 10 | 0.61 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 10 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 3 | 0.61 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 1 | 0.61 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 1 | 0.61 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 15 | 0.61 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 15 | 0.61 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 7 | 0.61 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 12 | 0.61 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 20 | 0.61 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 9 | 0.61 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 7 | 0.61 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 13 | 0.61 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 11 | 0.61 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 11 | 0.61 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 11 | 0.61 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 8 | 0.61 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 8 | 0.61 |
| (1,2877) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 8 | 0.61 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 18 | 0.61 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 5 | 0.61 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 10 | 0.61 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 14 | 0.61 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 18 | 0.61 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 8 | 0.61 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 16 | 0.61 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 16 | 0.61 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 16 | 0.61 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 16 | 0.61 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 16 | 0.61 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 16 | 0.61 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 6 | 0.61 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 6 | 0.61 |
| (1,2721) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 9 | 0.61 |
| (1,2721) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 9 | 0.61 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 19 | 0.61 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 19 | 0.61 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 5 | 0.61 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 5 | 0.61 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 5 | 0.61 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 5 | 0.61 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 5 | 0.61 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 5 | 0.61 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 5 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 5 | 0.61 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 5 | 0.61 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 10 | 0.61 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 13 | 0.61 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 16 | 0.61 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 19 | 0.61 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 13 | 0.61 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 16 | 0.61 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 16 | 0.61 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 16 | 0.61 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 1 | 0.61 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 1 | 0.61 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 2 | 0.61 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 9 | 0.61 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 12 | 0.61 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 15 | 0.61 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 14 | 0.61 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 5 | 0.61 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 20 | 0.61 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 17 | 0.61 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 17 | 0.61 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 17 | 0.61 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 8 | 0.61 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 8 | 0.61 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 8 | 0.61 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 13 | 0.61 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 13 | 0.61 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 13 | 0.61 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 13 | 0.61 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 20 | 0.61 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 20 | 0.61 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 20 | 0.61 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 19 | 0.61 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 10 | 0.61 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 16 | 0.61 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 17 | 0.61 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 16 | 0.61 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 16 | 0.61 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 16 | 0.61 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 16 | 0.61 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 16 | 0.61 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 7 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 7 | 0.61 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 7 | 0.61 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 18 | 0.61 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 12 | 0.61 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 13 | 0.61 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 4 | 0.61 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 4 | 0.61 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 15 | 0.61 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 15 | 0.61 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 15 | 0.61 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 1 | 0.61 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 1 | 0.61 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 1 | 0.61 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 4 | 0.61 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 6 | 0.61 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 19 | 0.61 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 18 | 0.61 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 5 | 0.61 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 10 | 0.61 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 20 | 0.61 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 20 | 0.61 |
| (1,1675) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 20 | 0.61 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 20 | 0.61 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 20 | 0.61 |
| (1,1675) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 20 | 0.61 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 20 | 0.61 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 20 | 0.61 |
| (1,1675) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 20 | 0.61 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 18 | 0.61 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 18 | 0.61 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 18 | 0.61 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 6 | 0.61 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 9 | 0.61 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 1 | 0.61 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 1 | 0.61 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 3 | 0.61 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 3 | 0.61 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 15 | 0.61 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 2 | 0.61 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 16 | 0.61 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 12 | 0.61 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 19 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 12 | 0.61 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 18 | 0.61 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 17 | 0.61 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 11 | 0.61 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 11 | 0.61 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 15 | 0.61 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 15 | 0.61 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD1 | 3 | 0.61 |
| (1,1339) | 1:55:A:VAL:H | 1:125:A:PHE:HD2 | 3 | 0.61 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 9 | 0.61 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD11 | 2 | 0.61 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD12 | 2 | 0.61 |
| (1,1267) | 1:122:A:LEU:H | 1:122:A:LEU:HD13 | 2 | 0.61 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 13 | 0.61 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 13 | 0.61 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 6 | 0.61 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 11 | 0.61 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 19 | 0.61 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 12 | 0.61 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 3 | 0.61 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 3 | 0.61 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 7 | 0.61 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 10 | 0.61 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 18 | 0.61 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 12 | 0.61 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 8 | 0.61 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 13 | 0.61 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 17 | 0.61 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 14 | 0.61 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 2 | 0.61 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 2 | 0.61 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 16 | 0.61 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 16 | 0.61 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 19 | 0.61 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 9 | 0.61 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 9 | 0.61 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 9 | 0.61 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 16 | 0.61 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 16 | 0.61 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 16 | 0.61 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 15 | 0.61 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 7 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 9 | 0.61 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 14 | 0.61 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 4 | 0.61 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 9 | 0.61 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 7 | 0.61 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 7 | 0.61 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 7 | 0.61 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 13 | 0.61 |
| (1,839) | 1:103:A:PHE:H | 1:103:A:PHE:HA | 2 | 0.61 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 6 | 0.61 |
| (1,813) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 6 | 0.61 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 13 | 0.61 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 5 | 0.61 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 6 | 0.61 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 6 | 0.61 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 6 | 0.61 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 5 | 0.61 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 5 | 0.61 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 5 | 0.61 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 8 | 0.61 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 17 | 0.61 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 7 | 0.61 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 7 | 0.61 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 7 | 0.61 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 20 | 0.61 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 20 | 0.61 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 20 | 0.61 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 20 | 0.61 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 20 | 0.61 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 20 | 0.61 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 12 | 0.61 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 13 | 0.61 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 13 | 0.61 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 13 | 0.61 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 13 | 0.61 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 13 | 0.61 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 13 | 0.61 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 3 | 0.61 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 8 | 0.61 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 6 | 0.61 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 6 | 0.61 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 6 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 9 | 0.61 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 9 | 0.61 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 9 | 0.61 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 11 | 0.61 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 17 | 0.61 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 14 | 0.61 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 14 | 0.61 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 2 | 0.61 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 2 | 0.61 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 2 | 0.61 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 2 | 0.61 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 2 | 0.61 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 2 | 0.61 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 15 | 0.61 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 1 | 0.61 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 4 | 0.61 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 18 | 0.61 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 20 | 0.61 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 7 | 0.61 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 18 | 0.61 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 14 | 0.61 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 9 | 0.61 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 18 | 0.61 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 18 | 0.61 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 18 | 0.61 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 11 | 0.61 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 11 | 0.61 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 11 | 0.61 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 2 | 0.61 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 2 | 0.61 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 2 | 0.61 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 8 | 0.61 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 8 | 0.61 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 8 | 0.61 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 14 | 0.61 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 14 | 0.61 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 14 | 0.61 |
| (1,240) | 1:75:A:GLN:H | 1:75:A:GLN:HA | 8 | 0.61 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 4 | 0.61 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 7 | 0.61 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 11 | 0.61 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 6 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 13 | 0.61 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 13 | 0.61 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 6 | 0.61 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 20 | 0.61 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 20 | 0.61 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 15 | 0.61 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 15 | 0.61 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 15 | 0.61 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 7 | 0.61 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 7 | 0.61 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 7 | 0.61 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 15 | 0.61 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 15 | 0.61 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 15 | 0.61 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 10 | 0.61 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 12 | 0.61 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 14 | 0.61 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 14 | 0.61 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 14 | 0.61 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 10 | 0.61 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 10 | 0.61 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 10 | 0.61 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 6 | 0.61 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 4 | 0.61 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 19 | 0.61 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 19 | 0.61 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 19 | 0.61 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 9 | 0.61 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 9 | 0.61 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 9 | 0.61 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 6 | 0.61 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 16 | 0.61 |
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 10 | 0.61 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 3 | 0.61 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 3 | 0.61 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 13 | 0.6 |
| (4,67) | 1:15:A:MET:CB | 1:126:A:SER:H | 1 | 0.6 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 9 | 0.6 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 9 | 0.6 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 9 | 0.6 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 2 | 0.6 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 2 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 2 | 0.6 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 2 | 0.6 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 2 | 0.6 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 2 | 0.6 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 2 | 0.6 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 2 | 0.6 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 2 | 0.6 |
| (3,484) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 7 | 0.6 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 8 | 0.6 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 1 | 0.6 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 1 | 0.6 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 1 | 0.6 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 4 | 0.6 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 4 | 0.6 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 4 | 0.6 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 4 | 0.6 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 4 | 0.6 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 4 | 0.6 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 4 | 0.6 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 4 | 0.6 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 4 | 0.6 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 4 | 0.6 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 4 | 0.6 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 9 | 0.6 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 9 | 0.6 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 9 | 0.6 |
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 10 | 0.6 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 12 | 0.6 |
| (3,201) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HB3 | 14 | 0.6 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 11 | 0.6 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 11 | 0.6 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 11 | 0.6 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 11 | 0.6 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 11 | 0.6 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 11 | 0.6 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 11 | 0.6 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 11 | 0.6 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 11 | 0.6 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 17 | 0.6 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 17 | 0.6 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 7 | 0.6 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 7 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 11 | 0.6 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 11 | 0.6 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 13 | 0.6 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 13 | 0.6 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 20 | 0.6 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 20 | 0.6 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 18 | 0.6 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 18 | 0.6 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 2 | 0.6 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 2 | 0.6 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 16 | 0.6 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 16 | 0.6 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 16 | 0.6 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 16 | 0.6 |
| (1,8648) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 19 | 0.6 |
| (1,8648) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 19 | 0.6 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 17 | 0.6 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 17 | 0.6 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 17 | 0.6 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 17 | 0.6 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 17 | 0.6 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 17 | 0.6 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 1 | 0.6 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 1 | 0.6 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 1 | 0.6 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 17 | 0.6 |
| (1,8180) | 1:102:A:ASP:H | 1:105:A:SER:H | 3 | 0.6 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 6 | 0.6 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 9 | 0.6 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 9 | 0.6 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 9 | 0.6 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 9 | 0.6 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 20 | 0.6 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 12 | 0.6 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 12 | 0.6 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 12 | 0.6 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 12 | 0.6 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 12 | 0.6 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 12 | 0.6 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 12 | 0.6 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 12 | 0.6 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 12 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 12 | 0.6 |
| (1,7039) | 1:40:A:ASN:H | 1:40:A:ASN:HA | 1 | 0.6 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 5 | 0.6 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 8 | 0.6 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 8 | 0.6 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 10 | 0.6 |
| (1,6692) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 6 | 0.6 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 2 | 0.6 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 9 | 0.6 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 19 | 0.6 |
| (1,6540) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 7 | 0.6 |
| (1,6289) | 1:150:A:VAL:H | 1:157:A:HIS:H | 20 | 0.6 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 1 | 0.6 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 1 | 0.6 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 1 | 0.6 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 18 | 0.6 |
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 14 | 0.6 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 1 | 0.6 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 2 | 0.6 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 2 | 0.6 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 2 | 0.6 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 5 | 0.6 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 5 | 0.6 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 5 | 0.6 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 17 | 0.6 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 17 | 0.6 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 17 | 0.6 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 9 | 0.6 |
| (1,6020) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 20 | 0.6 |
| (1,6020) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 20 | 0.6 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 13 | 0.6 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 15 | 0.6 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 12 | 0.6 |
| (1,5877) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 10 | 0.6 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 7 | 0.6 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 20 | 0.6 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 20 | 0.6 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 10 | 0.6 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 10 | 0.6 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 10 | 0.6 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 15 | 0.6 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 15 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 15 | 0.6 |
| (1,5702) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 18 | 0.6 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 1 | 0.6 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 6 | 0.6 |
| (1,5591) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 18 | 0.6 |
| (1,5591) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 18 | 0.6 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 9 | 0.6 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 9 | 0.6 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 9 | 0.6 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 18 | 0.6 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 18 | 0.6 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 18 | 0.6 |
| (1,5368) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 13 | 0.6 |
| (1,5368) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 13 | 0.6 |
| (1,5368) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 13 | 0.6 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 8 | 0.6 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 11 | 0.6 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 7 | 0.6 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 10 | 0.6 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 7 | 0.6 |
| (1,4975) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 16 | 0.6 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 19 | 0.6 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 19 | 0.6 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 19 | 0.6 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 7 | 0.6 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 7 | 0.6 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 7 | 0.6 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 14 | 0.6 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 14 | 0.6 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 14 | 0.6 |
| (1,4801) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 6 | 0.6 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 6 | 0.6 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 6 | 0.6 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 6 | 0.6 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 18 | 0.6 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 18 | 0.6 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 18 | 0.6 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 13 | 0.6 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 13 | 0.6 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 13 | 0.6 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 12 | 0.6 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 12 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 13 | 0.6 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 13 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 9 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 9 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 9 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 9 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 9 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 9 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 15 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 15 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 15 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 15 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 15 | 0.6 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 15 | 0.6 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 7 | 0.6 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 7 | 0.6 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 7 | 0.6 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 7 | 0.6 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 7 | 0.6 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 7 | 0.6 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 14 | 0.6 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 14 | 0.6 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 14 | 0.6 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 14 | 0.6 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 14 | 0.6 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 14 | 0.6 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 13 | 0.6 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 13 | 0.6 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 13 | 0.6 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 13 | 0.6 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 13 | 0.6 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 13 | 0.6 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 3 | 0.6 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 17 | 0.6 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 9 | 0.6 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 9 | 0.6 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 18 | 0.6 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 18 | 0.6 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 0.6 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 20 | 0.6 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 10 | 0.6 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 10 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 10 | 0.6 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 10 | 0.6 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 10 | 0.6 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 10 | 0.6 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 19 | 0.6 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 19 | 0.6 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 2 | 0.6 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 2 | 0.6 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 2 | 0.6 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 2 | 0.6 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 2 | 0.6 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 2 | 0.6 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 18 | 0.6 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 18 | 0.6 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 3 | 0.6 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 3 | 0.6 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 3 | 0.6 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 3 | 0.6 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 3 | 0.6 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 3 | 0.6 |
| (1,3543) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 12 | 0.6 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 10 | 0.6 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 6 | 0.6 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 11 | 0.6 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 5 | 0.6 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 14 | 0.6 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 14 | 0.6 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 8 | 0.6 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 8 | 0.6 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 8 | 0.6 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 10 | 0.6 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 8 | 0.6 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 7 | 0.6 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 11 | 0.6 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 16 | 0.6 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 18 | 0.6 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 2 | 0.6 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 12 | 0.6 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 13 | 0.6 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 16 | 0.6 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 19 | 0.6 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 2 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 3 | 0.6 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 15 | 0.6 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 19 | 0.6 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 4 | 0.6 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 14 | 0.6 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 17 | 0.6 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 16 | 0.6 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 18 | 0.6 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 1 | 0.6 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 5 | 0.6 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 1 | 0.6 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 1 | 0.6 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 1 | 0.6 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 3 | 0.6 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 3 | 0.6 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 3 | 0.6 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 6 | 0.6 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 6 | 0.6 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 12 | 0.6 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 17 | 0.6 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG11 | 10 | 0.6 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG12 | 10 | 0.6 |
| (1,2579) | 1:15:A:MET:H | 1:22:A:VAL:HG13 | 10 | 0.6 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 5 | 0.6 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 14 | 0.6 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 17 | 0.6 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 19 | 0.6 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 17 | 0.6 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 5 | 0.6 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 8 | 0.6 |
| (1,2385) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 7 | 0.6 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 12 | 0.6 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 10 | 0.6 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 11 | 0.6 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 17 | 0.6 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 4 | 0.6 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 8 | 0.6 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 12 | 0.6 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 16 | 0.6 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 17 | 0.6 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 19 | 0.6 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 8 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 8 | 0.6 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 8 | 0.6 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 9 | 0.6 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 9 | 0.6 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 11 | 0.6 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 16 | 0.6 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 20 | 0.6 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 17 | 0.6 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 5 | 0.6 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 5 | 0.6 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 5 | 0.6 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 17 | 0.6 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 17 | 0.6 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 17 | 0.6 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 17 | 0.6 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 17 | 0.6 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 17 | 0.6 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 17 | 0.6 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 17 | 0.6 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 17 | 0.6 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 6 | 0.6 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 6 | 0.6 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 6 | 0.6 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 6 | 0.6 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 18 | 0.6 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 18 | 0.6 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 18 | 0.6 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 3 | 0.6 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 9 | 0.6 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 7 | 0.6 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 7 | 0.6 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 7 | 0.6 |
| (1,1819) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 18 | 0.6 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 3 | 0.6 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 3 | 0.6 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 3 | 0.6 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 7 | 0.6 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 10 | 0.6 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 14 | 0.6 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 1 | 0.6 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 1 | 0.6 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 1 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 8 | 0.6 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 8 | 0.6 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 8 | 0.6 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 8 | 0.6 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 12 | 0.6 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 18 | 0.6 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 1 | 0.6 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 11 | 0.6 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 11 | 0.6 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 11 | 0.6 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 9 | 0.6 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 17 | 0.6 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 20 | 0.6 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 6 | 0.6 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 9 | 0.6 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 13 | 0.6 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 9 | 0.6 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 11 | 0.6 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 13 | 0.6 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 15 | 0.6 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 12 | 0.6 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 6 | 0.6 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 4 | 0.6 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 5 | 0.6 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 3 | 0.6 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 3 | 0.6 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 1 | 0.6 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 3 | 0.6 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 10 | 0.6 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 17 | 0.6 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 2 | 0.6 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 11 | 0.6 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 11 | 0.6 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 11 | 0.6 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 7 | 0.6 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 2 | 0.6 |
| (1,1115) | 1:112:A:ASP:HA | 1:113:A:CYS:H | 13 | 0.6 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 20 | 0.6 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 8 | 0.6 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 10 | 0.6 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 17 | 0.6 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 5 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 5 | 0.6 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 5 | 0.6 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 3 | 0.6 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 6 | 0.6 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 19 | 0.6 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 1 | 0.6 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 6 | 0.6 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 18 | 0.6 |
| (1,877) | 1:104:A:GLU:H | 1:105:A:SER:H | 9 | 0.6 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 19 | 0.6 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 19 | 0.6 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 19 | 0.6 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 19 | 0.6 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 19 | 0.6 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 19 | 0.6 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 14 | 0.6 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 1 | 0.6 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 1 | 0.6 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 1 | 0.6 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 6 | 0.6 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 1 | 0.6 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 1 | 0.6 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 1 | 0.6 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 1 | 0.6 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 1 | 0.6 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 1 | 0.6 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 12 | 0.6 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 12 | 0.6 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 14 | 0.6 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 14 | 0.6 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 14 | 0.6 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 9 | 0.6 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 9 | 0.6 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 9 | 0.6 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 12 | 0.6 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 3 | 0.6 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 6 | 0.6 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 13 | 0.6 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 16 | 0.6 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 1 | 0.6 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 5 | 0.6 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 7 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 15 | 0.6 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 19 | 0.6 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 1 | 0.6 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 1 | 0.6 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 1 | 0.6 |
| (1,547) | 1:93:A:ILE:HA | 1:94:A:GLN:H | 20 | 0.6 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 12 | 0.6 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 12 | 0.6 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 12 | 0.6 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 12 | 0.6 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 12 | 0.6 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 12 | 0.6 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 10 | 0.6 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 10 | 0.6 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 18 | 0.6 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 18 | 0.6 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 5 | 0.6 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 5 | 0.6 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 5 | 0.6 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 18 | 0.6 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 18 | 0.6 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 18 | 0.6 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 6 | 0.6 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 18 | 0.6 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 8 | 0.6 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 8 | 0.6 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 8 | 0.6 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 8 | 0.6 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 8 | 0.6 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 8 | 0.6 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 7 | 0.6 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 6 | 0.6 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 6 | 0.6 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 6 | 0.6 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 17 | 0.6 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 16 | 0.6 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 5 | 0.6 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 5 | 0.6 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 20 | 0.6 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 20 | 0.6 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 3 | 0.6 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 7 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 10 | 0.6 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 19 | 0.6 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 7 | 0.6 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 10 | 0.6 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 18 | 0.6 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 10 | 0.6 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 10 | 0.6 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 10 | 0.6 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 19 | 0.6 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 19 | 0.6 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 19 | 0.6 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 11 | 0.6 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 11 | 0.6 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 11 | 0.6 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 1 | 0.6 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 1 | 0.6 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 1 | 0.6 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 1 | 0.6 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 1 | 0.6 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 1 | 0.6 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 17 | 0.6 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 6 | 0.6 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 9 | 0.6 |
| (1,217) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 13 | 0.6 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 13 | 0.6 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 4 | 0.6 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 4 | 0.6 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 4 | 0.6 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 19 | 0.6 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 3 | 0.6 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 3 | 0.6 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 3 | 0.6 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 3 | 0.6 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 3 | 0.6 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 3 | 0.6 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 3 | 0.6 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 3 | 0.6 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 3 | 0.6 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 8 | 0.6 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 8 | 0.6 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 8 | 0.6 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 1 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 9 | 0.6 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 14 | 0.6 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 7 | 0.6 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 7 | 0.6 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 7 | 0.6 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 12 | 0.6 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 12 | 0.6 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 12 | 0.6 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 9 | 0.6 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 9 | 0.6 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 9 | 0.6 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 18 | 0.6 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 6 | 0.6 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 6 | 0.6 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 6 | 0.6 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 6 | 0.6 |
| (1,37) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 6 | 0.6 |
| (1,37) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 6 | 0.6 |
| (1,37) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 9 | 0.6 |
| (1,37) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 9 | 0.6 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 18 | 0.6 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 18 | 0.6 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 6 | 0.6 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 6 | 0.6 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 6 | 0.6 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 3 | 0.6 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 3 | 0.6 |
| (4,261) | 1:90:A:ASN:CB | 1:13:A:LYS:H | 16 | 0.59 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 17 | 0.59 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 14 | 0.59 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 14 | 0.59 |
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 12 | 0.59 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 15 | 0.59 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 1 | 0.59 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 1 | 0.59 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 6 | 0.59 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 6 | 0.59 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 6 | 0.59 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 11 | 0.59 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 11 | 0.59 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 11 | 0.59 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 12 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 12 | 0.59 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 12 | 0.59 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 12 | 0.59 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 12 | 0.59 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 12 | 0.59 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 12 | 0.59 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 12 | 0.59 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 12 | 0.59 |
| (3,475) | 1:80:A:ARG:HA | 1:88:A:LEU:HD11 | 14 | 0.59 |
| (3,475) | 1:80:A:ARG:HA | 1:88:A:LEU:HD12 | 14 | 0.59 |
| (3,475) | 1:80:A:ARG:HA | 1:88:A:LEU:HD13 | 14 | 0.59 |
| (3,409) | 1:61:A:LEU:H | 1:157:A:HIS:H | 10 | 0.59 |
| (3,406) | 1:61:A:LEU:HD21 | 1:155:A:GLY:H | 11 | 0.59 |
| (3,406) | 1:61:A:LEU:HD22 | 1:155:A:GLY:H | 11 | 0.59 |
| (3,406) | 1:61:A:LEU:HD23 | 1:155:A:GLY:H | 11 | 0.59 |
| (3,212) | 1:11:A:TRP:HZ3 | 1:33:A:GLN:HB3 | 15 | 0.59 |
| (3,21) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 13 | 0.59 |
| (3,21) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 13 | 0.59 |
| (3,21) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 13 | 0.59 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 18 | 0.59 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 18 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 5 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 5 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 5 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 5 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 5 | 0.59 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 5 | 0.59 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 6 | 0.59 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 6 | 0.59 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 6 | 0.59 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 6 | 0.59 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 19 | 0.59 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 19 | 0.59 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 18 | 0.59 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 18 | 0.59 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 16 | 0.59 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 16 | 0.59 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 3 | 0.59 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 3 | 0.59 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 18 | 0.59 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 18 | 0.59 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 2 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 2 | 0.59 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 9 | 0.59 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 19 | 0.59 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 11 | 0.59 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 16 | 0.59 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 14 | 0.59 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 6 | 0.59 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 2 | 0.59 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 16 | 0.59 |
| (1,7609) | 1:26:A:ASN:H | 1:30:A:ASN:H | 4 | 0.59 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 3 | 0.59 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 19 | 0.59 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 19 | 0.59 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 19 | 0.59 |
| (1,7255) | 1:28:A:ILE:HG12 | 1:141:A:LEU:HG | 20 | 0.59 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 10 | 0.59 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 10 | 0.59 |
| (1,7117) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 4 | 0.59 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 3 | 0.59 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 8 | 0.59 |
| (1,7010) | 1:37:A:PRO:HA | 1:38:A:SER:H | 9 | 0.59 |
| (1,7010) | 1:37:A:PRO:HA | 1:38:A:SER:H | 18 | 0.59 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 3 | 0.59 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 19 | 0.59 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 15 | 0.59 |
| (1,6658) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 11 | 0.59 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 3 | 0.59 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 6 | 0.59 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 20 | 0.59 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 8 | 0.59 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 13 | 0.59 |
| (1,6534) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 17 | 0.59 |
| (1,6534) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 17 | 0.59 |
| (1,6534) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 17 | 0.59 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 7 | 0.59 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 15 | 0.59 |
| (1,6313) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 2 | 0.59 |
| (1,6313) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 2 | 0.59 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 16 | 0.59 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 1 | 0.59 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 19 | 0.59 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 9 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 9 | 0.59 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 9 | 0.59 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 10 | 0.59 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 10 | 0.59 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 10 | 0.59 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 10 | 0.59 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 10 | 0.59 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 10 | 0.59 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 10 | 0.59 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 10 | 0.59 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 10 | 0.59 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 2 | 0.59 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 2 | 0.59 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 2 | 0.59 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 14 | 0.59 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 11 | 0.59 |
| (1,5940) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 9 | 0.59 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 18 | 0.59 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 18 | 0.59 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 18 | 0.59 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 4 | 0.59 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 4 | 0.59 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 4 | 0.59 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 14 | 0.59 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 14 | 0.59 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 14 | 0.59 |
| (1,5783) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 18 | 0.59 |
| (1,5783) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 18 | 0.59 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 13 | 0.59 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 13 | 0.59 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 13 | 0.59 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 19 | 0.59 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 20 | 0.59 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 20 | 0.59 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 17 | 0.59 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 17 | 0.59 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 17 | 0.59 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 7 | 0.59 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 7 | 0.59 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 7 | 0.59 |
| (1,5347) | 1:87:A:GLU:H | 1:89:A:ILE:H | 19 | 0.59 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 14 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 2 | 0.59 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 2 | 0.59 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 2 | 0.59 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 12 | 0.59 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 12 | 0.59 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 12 | 0.59 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 14 | 0.59 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 13 | 0.59 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 1 | 0.59 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 13 | 0.59 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 8 | 0.59 |
| (1,5066) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 3 | 0.59 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 1 | 0.59 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 1 | 0.59 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 10 | 0.59 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 10 | 0.59 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 17 | 0.59 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 17 | 0.59 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 13 | 0.59 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 13 | 0.59 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 13 | 0.59 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 13 | 0.59 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 13 | 0.59 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 13 | 0.59 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 13 | 0.59 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 13 | 0.59 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 13 | 0.59 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 2 | 0.59 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 3 | 0.59 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 7 | 0.59 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 5 | 0.59 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 13 | 0.59 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 4 | 0.59 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 4 | 0.59 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 4 | 0.59 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 6 | 0.59 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 6 | 0.59 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 11 | 0.59 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 11 | 0.59 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 14 | 0.59 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 14 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 1 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 1 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 3 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 3 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 10 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 10 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 11 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 11 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 17 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 17 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 19 | 0.59 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 19 | 0.59 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 6 | 0.59 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 6 | 0.59 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 6 | 0.59 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 6 | 0.59 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 10 | 0.59 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 10 | 0.59 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 17 | 0.59 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 17 | 0.59 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 6 | 0.59 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 6 | 0.59 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 3 | 0.59 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 14 | 0.59 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 10 | 0.59 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 10 | 0.59 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 10 | 0.59 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 10 | 0.59 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 3 | 0.59 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 3 | 0.59 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 3 | 0.59 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 3 | 0.59 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 3 | 0.59 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 3 | 0.59 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 6 | 0.59 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 6 | 0.59 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 6 | 0.59 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 6 | 0.59 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 6 | 0.59 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 6 | 0.59 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 12 | 0.59 |
| (1,3541) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 12 | 0.59 |
| (1,3451) | 1:37:A:PRO:HB3 | 1:38:A:SER:H | 15 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 8 | 0.59 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 15 | 0.59 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 7 | 0.59 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 7 | 0.59 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 7 | 0.59 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 1 | 0.59 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 1 | 0.59 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 1 | 0.59 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 6 | 0.59 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 7 | 0.59 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 7 | 0.59 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 6 | 0.59 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 1 | 0.59 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 6 | 0.59 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 15 | 0.59 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 20 | 0.59 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 7 | 0.59 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 13 | 0.59 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 19 | 0.59 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 10 | 0.59 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 7 | 0.59 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 7 | 0.59 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 7 | 0.59 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 1 | 0.59 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 1 | 0.59 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 1 | 0.59 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 5 | 0.59 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 12 | 0.59 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 13 | 0.59 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 2 | 0.59 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 3 | 0.59 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 3 | 0.59 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 3 | 0.59 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 8 | 0.59 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 8 | 0.59 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 8 | 0.59 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 14 | 0.59 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 14 | 0.59 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 14 | 0.59 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 15 | 0.59 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 15 | 0.59 |
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE1 | 2 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2761) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HE2 | 2 | 0.59 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE1 | 2 | 0.59 |
| (1,2761) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HE2 | 2 | 0.59 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 1 | 0.59 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 7 | 0.59 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 2 | 0.59 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 2 | 0.59 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 2 | 0.59 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 16 | 0.59 |
| (1,2543) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 11 | 0.59 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 17 | 0.59 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 20 | 0.59 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 3 | 0.59 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 6 | 0.59 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 20 | 0.59 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 13 | 0.59 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 4 | 0.59 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 4 | 0.59 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 4 | 0.59 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 4 | 0.59 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 4 | 0.59 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 4 | 0.59 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 7 | 0.59 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 2 | 0.59 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 10 | 0.59 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 16 | 0.59 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 16 | 0.59 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 16 | 0.59 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 16 | 0.59 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 16 | 0.59 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 16 | 0.59 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 16 | 0.59 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 16 | 0.59 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 16 | 0.59 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 8 | 0.59 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 8 | 0.59 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 8 | 0.59 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 12 | 0.59 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 12 | 0.59 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 12 | 0.59 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 10 | 0.59 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 15 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2065) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 6 | 0.59 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 1 | 0.59 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 3 | 0.59 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 5 | 0.59 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 7 | 0.59 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 13 | 0.59 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 18 | 0.59 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 3 | 0.59 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 6 | 0.59 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 14 | 0.59 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 19 | 0.59 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 19 | 0.59 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 3 | 0.59 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 3 | 0.59 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 3 | 0.59 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 1 | 0.59 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 9 | 0.59 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 9 | 0.59 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 9 | 0.59 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 9 | 0.59 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 9 | 0.59 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 9 | 0.59 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 9 | 0.59 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 9 | 0.59 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 9 | 0.59 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 1 | 0.59 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 2 | 0.59 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 2 | 0.59 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 2 | 0.59 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 7 | 0.59 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 13 | 0.59 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 2 | 0.59 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 14 | 0.59 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 14 | 0.59 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 6 | 0.59 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 6 | 0.59 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 6 | 0.59 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 9 | 0.59 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 9 | 0.59 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 9 | 0.59 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 1 | 0.59 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 19 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 15 | 0.59 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 15 | 0.59 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 15 | 0.59 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 15 | 0.59 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 15 | 0.59 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 15 | 0.59 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 15 | 0.59 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 15 | 0.59 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 15 | 0.59 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 16 | 0.59 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 19 | 0.59 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 7 | 0.59 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 9 | 0.59 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 9 | 0.59 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 9 | 0.59 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 18 | 0.59 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 18 | 0.59 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 18 | 0.59 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 14 | 0.59 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 5 | 0.59 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 13 | 0.59 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 16 | 0.59 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 20 | 0.59 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 11 | 0.59 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 9 | 0.59 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 9 | 0.59 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 12 | 0.59 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 13 | 0.59 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 18 | 0.59 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 16 | 0.59 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 16 | 0.59 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 9 | 0.59 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 9 | 0.59 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 17 | 0.59 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 17 | 0.59 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 20 | 0.59 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 20 | 0.59 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 13 | 0.59 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 4 | 0.59 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 10 | 0.59 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 1 | 0.59 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 1 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 15 | 0.59 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 15 | 0.59 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 19 | 0.59 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 15 | 0.59 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 20 | 0.59 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 1 | 0.59 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD21 | 2 | 0.59 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD22 | 2 | 0.59 |
| (1,947) | 1:106:A:LEU:H | 1:106:A:LEU:HD23 | 2 | 0.59 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 3 | 0.59 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 3 | 0.59 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 13 | 0.59 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 18 | 0.59 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 16 | 0.59 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 1 | 0.59 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 11 | 0.59 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 19 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 1 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 2 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 4 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 7 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 8 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 9 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 14 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 17 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 18 | 0.59 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 20 | 0.59 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE1 | 7 | 0.59 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE2 | 7 | 0.59 |
| (1,661) | 1:96:A:ILE:H | 1:146:A:MET:HE3 | 7 | 0.59 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 6 | 0.59 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 14 | 0.59 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 14 | 0.59 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 14 | 0.59 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 11 | 0.59 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 11 | 0.59 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 11 | 0.59 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 11 | 0.59 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 11 | 0.59 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 11 | 0.59 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 6 | 0.59 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 6 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 6 | 0.59 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 6 | 0.59 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 6 | 0.59 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 6 | 0.59 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 15 | 0.59 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 15 | 0.59 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 15 | 0.59 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 15 | 0.59 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 15 | 0.59 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 15 | 0.59 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 7 | 0.59 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 11 | 0.59 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 15 | 0.59 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 15 | 0.59 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 18 | 0.59 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 5 | 0.59 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 5 | 0.59 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 5 | 0.59 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 5 | 0.59 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 5 | 0.59 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 5 | 0.59 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 5 | 0.59 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 5 | 0.59 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 5 | 0.59 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 16 | 0.59 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 16 | 0.59 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 16 | 0.59 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 5 | 0.59 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 5 | 0.59 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 5 | 0.59 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 5 | 0.59 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 9 | 0.59 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 6 | 0.59 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 10 | 0.59 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 10 | 0.59 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 9 | 0.59 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 13 | 0.59 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 12 | 0.59 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 16 | 0.59 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 16 | 0.59 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 16 | 0.59 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 16 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 15 | 0.59 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 15 | 0.59 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 15 | 0.59 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 9 | 0.59 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 20 | 0.59 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 2 | 0.59 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 5 | 0.59 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 20 | 0.59 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 14 | 0.59 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 15 | 0.59 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 8 | 0.59 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 8 | 0.59 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 6 | 0.59 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 6 | 0.59 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 6 | 0.59 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 3 | 0.59 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 19 | 0.59 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 6 | 0.59 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 6 | 0.59 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 6 | 0.59 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 6 | 0.59 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 6 | 0.59 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 6 | 0.59 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 6 | 0.59 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 6 | 0.59 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 6 | 0.59 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 7 | 0.59 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 16 | 0.59 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 6 | 0.59 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 6 | 0.59 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 6 | 0.59 |
| (1,70) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 14 | 0.59 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 19 | 0.59 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 19 | 0.59 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 19 | 0.59 |
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 14 | 0.59 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 14 | 0.59 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 14 | 0.59 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 4 | 0.59 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 15 | 0.59 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 15 | 0.59 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 18 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE21 | 17 | 0.58 |
| (4,206) | 1:131:A:GLN:CB | 1:33:A:GLN:HE22 | 17 | 0.58 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 4 | 0.58 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 1 | 0.58 |
| (3,993) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG2 | 11 | 0.58 |
| (3,993) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HG3 | 11 | 0.58 |
| (3,993) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG2 | 11 | 0.58 |
| (3,993) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HG3 | 11 | 0.58 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 12 | 0.58 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 12 | 0.58 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 6 | 0.58 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 6 | 0.58 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 6 | 0.58 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 6 | 0.58 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 6 | 0.58 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 6 | 0.58 |
| (3,929) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 4 | 0.58 |
| (3,929) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 4 | 0.58 |
| (3,929) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 4 | 0.58 |
| (3,929) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 4 | 0.58 |
| (3,335) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 10 | 0.58 |
| (3,335) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 10 | 0.58 |
| (3,303) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 19 | 0.58 |
| (3,303) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 19 | 0.58 |
| (3,303) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 19 | 0.58 |
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 7 | 0.58 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 7 | 0.58 |
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 7 | 0.58 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 9 | 0.58 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 9 | 0.58 |
| (3,261) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 8 | 0.58 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 5 | 0.58 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 5 | 0.58 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 12 | 0.58 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 12 | 0.58 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 2 | 0.58 |
| (3,193) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 4 | 0.58 |
| (3,193) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 4 | 0.58 |
| (3,193) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 4 | 0.58 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 16 | 0.58 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 17 | 0.58 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 17 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE1 | 10 | 0.58 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE2 | 10 | 0.58 |
| (1,9568) | 1:146:A:MET:HB2 | 1:146:A:MET:HE3 | 10 | 0.58 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE1 | 10 | 0.58 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE2 | 10 | 0.58 |
| (1,9568) | 1:146:A:MET:HB3 | 1:146:A:MET:HE3 | 10 | 0.58 |
| (1,9522) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 13 | 0.58 |
| (1,9522) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 13 | 0.58 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 12 | 0.58 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 12 | 0.58 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 12 | 0.58 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 12 | 0.58 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 12 | 0.58 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 12 | 0.58 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 1 | 0.58 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 1 | 0.58 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 3 | 0.58 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 3 | 0.58 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 17 | 0.58 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 17 | 0.58 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 3 | 0.58 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 3 | 0.58 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 6 | 0.58 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 6 | 0.58 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 10 | 0.58 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 10 | 0.58 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 15 | 0.58 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 15 | 0.58 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 8 | 0.58 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 8 | 0.58 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 10 | 0.58 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 10 | 0.58 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 5 | 0.58 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 5 | 0.58 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 11 | 0.58 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 11 | 0.58 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 11 | 0.58 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 11 | 0.58 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 11 | 0.58 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 11 | 0.58 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 1 | 0.58 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 1 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 1 | 0.58 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 1 | 0.58 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 1 | 0.58 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 1 | 0.58 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 20 | 0.58 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 20 | 0.58 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 20 | 0.58 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 7 | 0.58 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 10 | 0.58 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 12 | 0.58 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 18 | 0.58 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 20 | 0.58 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 16 | 0.58 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 19 | 0.58 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 11 | 0.58 |
| (1,7740) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 12 | 0.58 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 8 | 0.58 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 10 | 0.58 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 1 | 0.58 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 1 | 0.58 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 10 | 0.58 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 18 | 0.58 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 4 | 0.58 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 4 | 0.58 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 5 | 0.58 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 5 | 0.58 |
| (1,7326) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 17 | 0.58 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 17 | 0.58 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 5 | 0.58 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 5 | 0.58 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 10 | 0.58 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 17 | 0.58 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 11 | 0.58 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 7 | 0.58 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 7 | 0.58 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 7 | 0.58 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 16 | 0.58 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 16 | 0.58 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 4 | 0.58 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 4 | 0.58 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 3 | 0.58 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 15 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6730) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 11 | 0.58 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 4 | 0.58 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 14 | 0.58 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 11 | 0.58 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 9 | 0.58 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 9 | 0.58 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 9 | 0.58 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 10 | 0.58 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 10 | 0.58 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 10 | 0.58 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 14 | 0.58 |
| (1,6530) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 9 | 0.58 |
| (1,6530) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 9 | 0.58 |
| (1,6530) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 9 | 0.58 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 5 | 0.58 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 5 | 0.58 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 5 | 0.58 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 5 | 0.58 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 5 | 0.58 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 5 | 0.58 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 17 | 0.58 |
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 7 | 0.58 |
| (1,6204) | 1:142:A:ARG:HA | 1:145:A:GLU:H | 10 | 0.58 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 6 | 0.58 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 7 | 0.58 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 8 | 0.58 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 8 | 0.58 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 8 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 4 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 4 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 4 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 4 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 4 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 4 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 4 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 4 | 0.58 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 4 | 0.58 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 18 | 0.58 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 4 | 0.58 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 14 | 0.58 |
| (1,5940) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 12 | 0.58 |
| (1,5850) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 5 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 15 | 0.58 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 5 | 0.58 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 5 | 0.58 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 15 | 0.58 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 18 | 0.58 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 6 | 0.58 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 10 | 0.58 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 20 | 0.58 |
| (1,5637) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 9 | 0.58 |
| (1,5637) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 9 | 0.58 |
| (1,5637) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 9 | 0.58 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 2 | 0.58 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 2 | 0.58 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 2 | 0.58 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 20 | 0.58 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 11 | 0.58 |
| (1,5347) | 1:87:A:GLU:H | 1:89:A:ILE:H | 12 | 0.58 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 5 | 0.58 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 7 | 0.58 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 10 | 0.58 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 10 | 0.58 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 10 | 0.58 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 9 | 0.58 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 11 | 0.58 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 9 | 0.58 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 17 | 0.58 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 11 | 0.58 |
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 11 | 0.58 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 12 | 0.58 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 5 | 0.58 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 9 | 0.58 |
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 13 | 0.58 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 8 | 0.58 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 8 | 0.58 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 8 | 0.58 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 3 | 0.58 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 15 | 0.58 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 15 | 0.58 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 15 | 0.58 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 15 | 0.58 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 15 | 0.58 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 15 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 2 | 0.58 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 2 | 0.58 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 7 | 0.58 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 7 | 0.58 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 15 | 0.58 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 15 | 0.58 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 15 | 0.58 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 5 | 0.58 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 5 | 0.58 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 11 | 0.58 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 11 | 0.58 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 11 | 0.58 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 11 | 0.58 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 3 | 0.58 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 3 | 0.58 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 4 | 0.58 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 4 | 0.58 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 14 | 0.58 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 14 | 0.58 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 15 | 0.58 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 15 | 0.58 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 4 | 0.58 |
| (1,4151) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 4 | 0.58 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 4 | 0.58 |
| (1,4151) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 4 | 0.58 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 4 | 0.58 |
| (1,4151) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 4 | 0.58 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 2 | 0.58 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 2 | 0.58 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 2 | 0.58 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB2 | 6 | 0.58 |
| (1,3991) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HB3 | 6 | 0.58 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB2 | 6 | 0.58 |
| (1,3991) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HB3 | 6 | 0.58 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB2 | 6 | 0.58 |
| (1,3991) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HB3 | 6 | 0.58 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 7 | 0.58 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 7 | 0.58 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 15 | 0.58 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 15 | 0.58 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 0.58 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 14 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 14 | 0.58 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 10 | 0.58 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 10 | 0.58 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 10 | 0.58 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 10 | 0.58 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 10 | 0.58 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 10 | 0.58 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 19 | 0.58 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 19 | 0.58 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 19 | 0.58 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 19 | 0.58 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 20 | 0.58 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 20 | 0.58 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 20 | 0.58 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 11 | 0.58 |
| (1,3381) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 12 | 0.58 |
| (1,3379) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 4 | 0.58 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 5 | 0.58 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 5 | 0.58 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 5 | 0.58 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 20 | 0.58 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 20 | 0.58 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 18 | 0.58 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 18 | 0.58 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 18 | 0.58 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 5 | 0.58 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 16 | 0.58 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 16 | 0.58 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 5 | 0.58 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 8 | 0.58 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 17 | 0.58 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 9 | 0.58 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 9 | 0.58 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 4 | 0.58 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 3 | 0.58 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 7 | 0.58 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 16 | 0.58 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 15 | 0.58 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 1 | 0.58 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 9 | 0.58 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 13 | 0.58 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG21 | 11 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG22 | 11 | 0.58 |
| (1,2855) | 1:28:A:ILE:H | 1:29:A:THR:HG23 | 11 | 0.58 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 15 | 0.58 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 10 | 0.58 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 10 | 0.58 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 10 | 0.58 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 3 | 0.58 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 3 | 0.58 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 3 | 0.58 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 2 | 0.58 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 9 | 0.58 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 9 | 0.58 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 12 | 0.58 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 12 | 0.58 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 12 | 0.58 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 12 | 0.58 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 12 | 0.58 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 12 | 0.58 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 8 | 0.58 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 2 | 0.58 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 2 | 0.58 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 3 | 0.58 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 7 | 0.58 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 1 | 0.58 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 9 | 0.58 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 12 | 0.58 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 12 | 0.58 |
| (1,2541) | 1:14:A:ARG:H | 1:14:A:ARG:HA | 4 | 0.58 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 4 | 0.58 |
| (1,2505) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 14 | 0.58 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 14 | 0.58 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 1 | 0.58 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 14 | 0.58 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 3 | 0.58 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 3 | 0.58 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 3 | 0.58 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 10 | 0.58 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 10 | 0.58 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 10 | 0.58 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 14 | 0.58 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 6 | 0.58 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 17 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 5 | 0.58 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 7 | 0.58 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 15 | 0.58 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD11 | 20 | 0.58 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD12 | 20 | 0.58 |
| (1,2165) | 1:160:A:LEU:H | 1:160:A:LEU:HD13 | 20 | 0.58 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 9 | 0.58 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 8 | 0.58 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 8 | 0.58 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 8 | 0.58 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 20 | 0.58 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 20 | 0.58 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 20 | 0.58 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 19 | 0.58 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 19 | 0.58 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 19 | 0.58 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 3 | 0.58 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 3 | 0.58 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 3 | 0.58 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 11 | 0.58 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 11 | 0.58 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 11 | 0.58 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 17 | 0.58 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 5 | 0.58 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 12 | 0.58 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 3 | 0.58 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 20 | 0.58 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 8 | 0.58 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 8 | 0.58 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 17 | 0.58 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 2 | 0.58 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 8 | 0.58 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 12 | 0.58 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 12 | 0.58 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 12 | 0.58 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 7 | 0.58 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 7 | 0.58 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 7 | 0.58 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 13 | 0.58 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 15 | 0.58 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 15 | 0.58 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 4 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 18 | 0.58 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 14 | 0.58 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 20 | 0.58 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 8 | 0.58 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 8 | 0.58 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 20 | 0.58 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 8 | 0.58 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 11 | 0.58 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 11 | 0.58 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 7 | 0.58 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 7 | 0.58 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 7 | 0.58 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 8 | 0.58 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 8 | 0.58 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 8 | 0.58 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 2 | 0.58 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 10 | 0.58 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 13 | 0.58 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 5 | 0.58 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 5 | 0.58 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 20 | 0.58 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 20 | 0.58 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 4 | 0.58 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 18 | 0.58 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 6 | 0.58 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 10 | 0.58 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 20 | 0.58 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 3 | 0.58 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 6 | 0.58 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 12 | 0.58 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 12 | 0.58 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 12 | 0.58 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 19 | 0.58 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 10 | 0.58 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 10 | 0.58 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 11 | 0.58 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 11 | 0.58 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 20 | 0.58 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 2 | 0.58 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 2 | 0.58 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 2 | 0.58 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 2 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 2 | 0.58 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 2 | 0.58 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 2 | 0.58 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 2 | 0.58 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 2 | 0.58 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 20 | 0.58 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 20 | 0.58 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 20 | 0.58 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 5 | 0.58 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 15 | 0.58 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 19 | 0.58 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 19 | 0.58 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 19 | 0.58 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 19 | 0.58 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 11 | 0.58 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 20 | 0.58 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 17 | 0.58 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 17 | 0.58 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 17 | 0.58 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 7 | 0.58 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 7 | 0.58 |
| (1,537) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 7 | 0.58 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 11 | 0.58 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 13 | 0.58 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 13 | 0.58 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 13 | 0.58 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 14 | 0.58 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 16 | 0.58 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 16 | 0.58 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 16 | 0.58 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 12 | 0.58 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 12 | 0.58 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 10 | 0.58 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 10 | 0.58 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 10 | 0.58 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 10 | 0.58 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 10 | 0.58 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 10 | 0.58 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 9 | 0.58 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 11 | 0.58 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 8 | 0.58 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 19 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 20 | 0.58 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 20 | 0.58 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 18 | 0.58 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 8 | 0.58 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 5 | 0.58 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 10 | 0.58 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 13 | 0.58 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 20 | 0.58 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 13 | 0.58 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 18 | 0.58 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 18 | 0.58 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 18 | 0.58 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 7 | 0.58 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 18 | 0.58 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 14 | 0.58 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 2 | 0.58 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 2 | 0.58 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 2 | 0.58 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 20 | 0.58 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 20 | 0.58 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 20 | 0.58 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 6 | 0.58 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 6 | 0.58 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 6 | 0.58 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 20 | 0.58 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 20 | 0.58 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 20 | 0.58 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 9 | 0.58 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 16 | 0.58 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 17 | 0.58 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 15 | 0.58 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 19 | 0.58 |
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 13 | 0.58 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 5 | 0.58 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 4 | 0.58 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 4 | 0.58 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 4 | 0.58 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 4 | 0.58 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 4 | 0.58 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 4 | 0.58 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 4 | 0.58 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 4 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 4 | 0.58 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 8 | 0.58 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 8 | 0.58 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 8 | 0.58 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 20 | 0.58 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 8 | 0.58 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 8 | 0.58 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 8 | 0.58 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 8 | 0.58 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 8 | 0.58 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 8 | 0.58 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 9 | 0.58 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 11 | 0.58 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 11 | 0.58 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 11 | 0.58 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 11 | 0.58 |
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 19 | 0.58 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 19 | 0.58 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 19 | 0.58 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 3 | 0.58 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 4 | 0.58 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 4 | 0.58 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 4 | 0.58 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 12 | 0.58 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 12 | 0.58 |
| (4,210) | 1:131:A:GLN:CB | 1:36:A:ARG:H | 1 | 0.57 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 9 | 0.57 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 10 | 0.57 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 17 | 0.57 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 17 | 0.57 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 17 | 0.57 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 17 | 0.57 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 17 | 0.57 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 17 | 0.57 |
| (3,734) | 1:152:A:THR:H | 1:157:A:HIS:H | 5 | 0.57 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 8 | 0.57 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 8 | 0.57 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 8 | 0.57 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 3 | 0.57 |
| (3,200) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 18 | 0.57 |
| (3,179) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 4 | 0.57 |
| (3,155) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 18 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,106) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 19 | 0.57 |
| (3,106) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 19 | 0.57 |
| (3,31) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 9 | 0.57 |
| (3,31) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 9 | 0.57 |
| (3,31) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 9 | 0.57 |
| (3,31) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 9 | 0.57 |
| (3,31) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 9 | 0.57 |
| (3,31) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 9 | 0.57 |
| (3,21) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 10 | 0.57 |
| (3,21) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 10 | 0.57 |
| (3,21) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 10 | 0.57 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 10 | 0.57 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 10 | 0.57 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 9 | 0.57 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 9 | 0.57 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 20 | 0.57 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 20 | 0.57 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 20 | 0.57 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 20 | 0.57 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 20 | 0.57 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 20 | 0.57 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 10 | 0.57 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 10 | 0.57 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 1 | 0.57 |
| (1,8847) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 1 | 0.57 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 1 | 0.57 |
| (1,8847) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 1 | 0.57 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 1 | 0.57 |
| (1,8847) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 1 | 0.57 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 16 | 0.57 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 16 | 0.57 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 18 | 0.57 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 18 | 0.57 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 12 | 0.57 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 12 | 0.57 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 10 | 0.57 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 10 | 0.57 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 8 | 0.57 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 8 | 0.57 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 8 | 0.57 |
| (1,8410) | 1:141:A:LEU:HA | 1:142:A:ARG:HA | 4 | 0.57 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 11 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 9 | 0.57 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 17 | 0.57 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 3 | 0.57 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 10 | 0.57 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 17 | 0.57 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 19 | 0.57 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 14 | 0.57 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 7 | 0.57 |
| (1,7298) | 1:28:A:ILE:H | 1:29:A:THR:H | 14 | 0.57 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 4 | 0.57 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 1 | 0.57 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 6 | 0.57 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 7 | 0.57 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 20 | 0.57 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 2 | 0.57 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 17 | 0.57 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 6 | 0.57 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 4 | 0.57 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 4 | 0.57 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 4 | 0.57 |
| (1,7010) | 1:37:A:PRO:HA | 1:38:A:SER:H | 11 | 0.57 |
| (1,7008) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 16 | 0.57 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 4 | 0.57 |
| (1,6931) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 15 | 0.57 |
| (1,6895) | 1:29:A:THR:H | 1:30:A:ASN:H | 4 | 0.57 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 15 | 0.57 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 15 | 0.57 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 15 | 0.57 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 9 | 0.57 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 2 | 0.57 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 8 | 0.57 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 11 | 0.57 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 13 | 0.57 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 3 | 0.57 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 6 | 0.57 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 9 | 0.57 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 11 | 0.57 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 14 | 0.57 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 18 | 0.57 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 20 | 0.57 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 10 | 0.57 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 10 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 10 | 0.57 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 11 | 0.57 |
| (1,6580) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 12 | 0.57 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 10 | 0.57 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 5 | 0.57 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 2 | 0.57 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 5 | 0.57 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 5 | 0.57 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 5 | 0.57 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 5 | 0.57 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 5 | 0.57 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 5 | 0.57 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 5 | 0.57 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 5 | 0.57 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 5 | 0.57 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 16 | 0.57 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 16 | 0.57 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 16 | 0.57 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 16 | 0.57 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 13 | 0.57 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 13 | 0.57 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 9 | 0.57 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 16 | 0.57 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 19 | 0.57 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 19 | 0.57 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 10 | 0.57 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 6 | 0.57 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 6 | 0.57 |
| (1,6151) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 5 | 0.57 |
| (1,5945) | 1:126:A:SER:HA | 1:127:A:ARG:H | 6 | 0.57 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 16 | 0.57 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 1 | 0.57 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 1 | 0.57 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 1 | 0.57 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 4 | 0.57 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 4 | 0.57 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 4 | 0.57 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 5 | 0.57 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 5 | 0.57 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 5 | 0.57 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 13 | 0.57 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 16 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 19 | 0.57 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 1 | 0.57 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 3 | 0.57 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 3 | 0.57 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 3 | 0.57 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 8 | 0.57 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 9 | 0.57 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 2 | 0.57 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 2 | 0.57 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 2 | 0.57 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 10 | 0.57 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 10 | 0.57 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 18 | 0.57 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 20 | 0.57 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 3 | 0.57 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 3 | 0.57 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 3 | 0.57 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 20 | 0.57 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 2 | 0.57 |
| (1,5085) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 17 | 0.57 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 19 | 0.57 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 19 | 0.57 |
| (1,5033) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 13 | 0.57 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 12 | 0.57 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 12 | 0.57 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 12 | 0.57 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 5 | 0.57 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 14 | 0.57 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 1 | 0.57 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 3 | 0.57 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 4 | 0.57 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 19 | 0.57 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 12 | 0.57 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 18 | 0.57 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 18 | 0.57 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 18 | 0.57 |
| (1,4850) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 11 | 0.57 |
| (1,4850) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 11 | 0.57 |
| (1,4850) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 11 | 0.57 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 13 | 0.57 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 13 | 0.57 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 13 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 13 | 0.57 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 13 | 0.57 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 13 | 0.57 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 13 | 0.57 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 13 | 0.57 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 13 | 0.57 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 6 | 0.57 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 9 | 0.57 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 4 | 0.57 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 4 | 0.57 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 4 | 0.57 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 4 | 0.57 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 15 | 0.57 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 15 | 0.57 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 9 | 0.57 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 9 | 0.57 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 9 | 0.57 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 9 | 0.57 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 9 | 0.57 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 9 | 0.57 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 18 | 0.57 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 18 | 0.57 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 1 | 0.57 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 1 | 0.57 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 12 | 0.57 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 12 | 0.57 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 16 | 0.57 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 16 | 0.57 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 15 | 0.57 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 15 | 0.57 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 15 | 0.57 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 8 | 0.57 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 8 | 0.57 |
| (1,3737) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 5 | 0.57 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 9 | 0.57 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 9 | 0.57 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 8 | 0.57 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 8 | 0.57 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 7 | 0.57 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 7 | 0.57 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 18 | 0.57 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 7 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 8 | 0.57 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 4 | 0.57 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 14 | 0.57 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 8 | 0.57 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 7 | 0.57 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 7 | 0.57 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 7 | 0.57 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 17 | 0.57 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 17 | 0.57 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 17 | 0.57 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 3 | 0.57 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 3 | 0.57 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 16 | 0.57 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 16 | 0.57 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 10 | 0.57 |
| (1,3179) | 1:77:A:LYS:H | 1:77:A:LYS:HG2 | 4 | 0.57 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 12 | 0.57 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 8 | 0.57 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 1 | 0.57 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 1 | 0.57 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 7 | 0.57 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 7 | 0.57 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 1 | 0.57 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 3 | 0.57 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 4 | 0.57 |
| (1,2949) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 15 | 0.57 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 14 | 0.57 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 17 | 0.57 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 2 | 0.57 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 8 | 0.57 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 11 | 0.57 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 7 | 0.57 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 3 | 0.57 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 6 | 0.57 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 9 | 0.57 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 11 | 0.57 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 14 | 0.57 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 18 | 0.57 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 20 | 0.57 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 9 | 0.57 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 20 | 0.57 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 11 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 11 | 0.57 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 18 | 0.57 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 20 | 0.57 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 1 | 0.57 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 14 | 0.57 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 3 | 0.57 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 3 | 0.57 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 3 | 0.57 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 12 | 0.57 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 12 | 0.57 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 12 | 0.57 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 18 | 0.57 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 12 | 0.57 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 12 | 0.57 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 12 | 0.57 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 2 | 0.57 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 16 | 0.57 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 8 | 0.57 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 19 | 0.57 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 10 | 0.57 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 3 | 0.57 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 7 | 0.57 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 10 | 0.57 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 10 | 0.57 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 10 | 0.57 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 11 | 0.57 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 11 | 0.57 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 11 | 0.57 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 2 | 0.57 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 12 | 0.57 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 16 | 0.57 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 9 | 0.57 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 13 | 0.57 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 20 | 0.57 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 7 | 0.57 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 7 | 0.57 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 7 | 0.57 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 12 | 0.57 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 12 | 0.57 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 12 | 0.57 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 13 | 0.57 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 13 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 9 | 0.57 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 9 | 0.57 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 9 | 0.57 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 9 | 0.57 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 9 | 0.57 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 9 | 0.57 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 9 | 0.57 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 9 | 0.57 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 9 | 0.57 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 13 | 0.57 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 13 | 0.57 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 13 | 0.57 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 20 | 0.57 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 20 | 0.57 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 20 | 0.57 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 17 | 0.57 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 17 | 0.57 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 17 | 0.57 |
| (1,1915) | 1:147:A:SER:H | 1:147:A:SER:HA | 13 | 0.57 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 6 | 0.57 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 15 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 3 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 3 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 3 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 10 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 10 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 10 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 14 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 14 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 14 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 16 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 16 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 16 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 17 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 17 | 0.57 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 17 | 0.57 |
| (1,1749) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 5 | 0.57 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 9 | 0.57 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 13 | 0.57 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 13 | 0.57 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 9 | 0.57 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 9 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 9 | 0.57 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 9 | 0.57 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 9 | 0.57 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 9 | 0.57 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 8 | 0.57 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 14 | 0.57 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 5 | 0.57 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 2 | 0.57 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 20 | 0.57 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 20 | 0.57 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 2 | 0.57 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 15 | 0.57 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 8 | 0.57 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 3 | 0.57 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 14 | 0.57 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 15 | 0.57 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 19 | 0.57 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 7 | 0.57 |
| (1,1377) | 1:126:A:SER:HA | 1:127:A:ARG:H | 6 | 0.57 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 14 | 0.57 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 8 | 0.57 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 8 | 0.57 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 9 | 0.57 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 6 | 0.57 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 6 | 0.57 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 6 | 0.57 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 9 | 0.57 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 14 | 0.57 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 14 | 0.57 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 2 | 0.57 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 5 | 0.57 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 7 | 0.57 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 9 | 0.57 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 20 | 0.57 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 19 | 0.57 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 19 | 0.57 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 19 | 0.57 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 20 | 0.57 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 20 | 0.57 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 20 | 0.57 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 5 | 0.57 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 12 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 1 | 0.57 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 16 | 0.57 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 2 | 0.57 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 13 | 0.57 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 16 | 0.57 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 19 | 0.57 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 3 | 0.57 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 3 | 0.57 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 3 | 0.57 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 3 | 0.57 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 3 | 0.57 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 3 | 0.57 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 4 | 0.57 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 4 | 0.57 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 8 | 0.57 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 9 | 0.57 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 10 | 0.57 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 9 | 0.57 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 13 | 0.57 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 9 | 0.57 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 9 | 0.57 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 9 | 0.57 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 10 | 0.57 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 4 | 0.57 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 10 | 0.57 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 12 | 0.57 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 10 | 0.57 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 15 | 0.57 |
| (1,476) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 11 | 0.57 |
| (1,476) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 11 | 0.57 |
| (1,476) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 11 | 0.57 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 18 | 0.57 |
| (1,433) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 14 | 0.57 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 1 | 0.57 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 4 | 0.57 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 4 | 0.57 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 9 | 0.57 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 20 | 0.57 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 7 | 0.57 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 20 | 0.57 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 20 | 0.57 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 20 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 5 | 0.57 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 9 | 0.57 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 9 | 0.57 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 9 | 0.57 |
| (1,281) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 8 | 0.57 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 16 | 0.57 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 16 | 0.57 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 16 | 0.57 |
| (1,265) | 1:77:A:LYS:H | 1:77:A:LYS:HG3 | 18 | 0.57 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 6 | 0.57 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 20 | 0.57 |
| (1,226) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 11 | 0.57 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 1 | 0.57 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 8 | 0.57 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 11 | 0.57 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 8 | 0.57 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 5 | 0.57 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 5 | 0.57 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 12 | 0.57 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 6 | 0.57 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 16 | 0.57 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 16 | 0.57 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 16 | 0.57 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 6 | 0.57 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 4 | 0.57 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 4 | 0.57 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 4 | 0.57 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 4 | 0.57 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 6 | 0.57 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 11 | 0.57 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 1 | 0.57 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 1 | 0.57 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 1 | 0.57 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 1 | 0.57 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 1 | 0.57 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 1 | 0.57 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 1 | 0.57 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 1 | 0.57 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 1 | 0.57 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 3 | 0.57 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 3 | 0.57 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB1 | 14 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB2 | 14 | 0.57 |
| (1,66) | 1:56:A:ARG:H | 1:124:A:ALA:HB3 | 14 | 0.57 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 4 | 0.57 |
| (1,37) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 8 | 0.57 |
| (1,37) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 8 | 0.57 |
| (1,37) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 12 | 0.57 |
| (1,37) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 12 | 0.57 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 18 | 0.57 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 18 | 0.57 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 15 | 0.57 |
| (1,24) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 15 | 0.57 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 11 | 0.56 |
| (4,185) | 1:131:A:GLN:CB | 1:11:A:TRP:HE1 | 20 | 0.56 |
| (4,43) | 1:15:A:MET:CB | 1:96:A:ILE:H | 2 | 0.56 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 11 | 0.56 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 19 | 0.56 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 4 | 0.56 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 4 | 0.56 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 18 | 0.56 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 18 | 0.56 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 8 | 0.56 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 8 | 0.56 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 8 | 0.56 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 8 | 0.56 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 8 | 0.56 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 8 | 0.56 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 8 | 0.56 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 8 | 0.56 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 8 | 0.56 |
| (3,488) | 1:85:A:ALA:H | 1:88:A:LEU:H | 9 | 0.56 |
| (3,369) | 1:59:A:HIS:H | 1:120:A:GLY:H | 9 | 0.56 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 9 | 0.56 |
| (3,193) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HG2 | 11 | 0.56 |
| (3,193) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HG2 | 11 | 0.56 |
| (3,193) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HG2 | 11 | 0.56 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 8 | 0.56 |
| (3,75) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 2 | 0.56 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 11 | 0.56 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 11 | 0.56 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 5 | 0.56 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 5 | 0.56 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 5 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 5 | 0.56 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 5 | 0.56 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 5 | 0.56 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 5 | 0.56 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 5 | 0.56 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 5 | 0.56 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 14 | 0.56 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 14 | 0.56 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 5 | 0.56 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 5 | 0.56 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 11 | 0.56 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 11 | 0.56 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 11 | 0.56 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 11 | 0.56 |
| (1,9195) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 4 | 0.56 |
| (1,9195) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 4 | 0.56 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 6 | 0.56 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 6 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 11 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 11 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 11 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 11 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 11 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 11 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 15 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 15 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 15 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 15 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 15 | 0.56 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 15 | 0.56 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 3 | 0.56 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 3 | 0.56 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 12 | 0.56 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 12 | 0.56 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 18 | 0.56 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 18 | 0.56 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 1 | 0.56 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 1 | 0.56 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 12 | 0.56 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 12 | 0.56 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 4 | 0.56 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 4 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 4 | 0.56 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 4 | 0.56 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 4 | 0.56 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 4 | 0.56 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 5 | 0.56 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 5 | 0.56 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 3 | 0.56 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 3 | 0.56 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 13 | 0.56 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 13 | 0.56 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 12 | 0.56 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 12 | 0.56 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 12 | 0.56 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 12 | 0.56 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 12 | 0.56 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 12 | 0.56 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 11 | 0.56 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 4 | 0.56 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 8 | 0.56 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 14 | 0.56 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 6 | 0.56 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 18 | 0.56 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 19 | 0.56 |
| (1,7663) | 1:33:A:GLN:HE22 | 1:35:A:GLU:H | 6 | 0.56 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 16 | 0.56 |
| (1,7471) | 1:12:A:GLU:H | 1:27:A:HIS:H | 15 | 0.56 |
| (1,7354) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 14 | 0.56 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 12 | 0.56 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 12 | 0.56 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 12 | 0.56 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 3 | 0.56 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 11 | 0.56 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 2 | 0.56 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 10 | 0.56 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 7 | 0.56 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 7 | 0.56 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 7 | 0.56 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 14 | 0.56 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 14 | 0.56 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 11 | 0.56 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 11 | 0.56 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 11 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 2 | 0.56 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 2 | 0.56 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 2 | 0.56 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 18 | 0.56 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 12 | 0.56 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 12 | 0.56 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 12 | 0.56 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 15 | 0.56 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 15 | 0.56 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 0.56 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 15 | 0.56 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 8 | 0.56 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 9 | 0.56 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 16 | 0.56 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 18 | 0.56 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 15 | 0.56 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 2 | 0.56 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 16 | 0.56 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 7 | 0.56 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 8 | 0.56 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 9 | 0.56 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 19 | 0.56 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 2 | 0.56 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 2 | 0.56 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 2 | 0.56 |
| (1,6451) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 12 | 0.56 |
| (1,6451) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 12 | 0.56 |
| (1,6451) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 12 | 0.56 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 1 | 0.56 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 1 | 0.56 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 1 | 0.56 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 1 | 0.56 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 1 | 0.56 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 1 | 0.56 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 1 | 0.56 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 1 | 0.56 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 1 | 0.56 |
| (1,6289) | 1:150:A:VAL:H | 1:157:A:HIS:H | 8 | 0.56 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 6 | 0.56 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 6 | 0.56 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 6 | 0.56 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 6 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 19 | 0.56 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 9 | 0.56 |
| (1,6214) | 1:142:A:ARG:HA | 1:145:A:GLU:HB2 | 13 | 0.56 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 20 | 0.56 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 20 | 0.56 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 2 | 0.56 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 16 | 0.56 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 16 | 0.56 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 18 | 0.56 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 6 | 0.56 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 11 | 0.56 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 11 | 0.56 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 8 | 0.56 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 8 | 0.56 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 8 | 0.56 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 12 | 0.56 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 12 | 0.56 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 12 | 0.56 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 8 | 0.56 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 8 | 0.56 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 8 | 0.56 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 8 | 0.56 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 15 | 0.56 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 17 | 0.56 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 16 | 0.56 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 20 | 0.56 |
| (1,5940) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 18 | 0.56 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 4 | 0.56 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 4 | 0.56 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 14 | 0.56 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 11 | 0.56 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 2 | 0.56 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 5 | 0.56 |
| (1,5749) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 2 | 0.56 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 16 | 0.56 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 14 | 0.56 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 6 | 0.56 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 13 | 0.56 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 15 | 0.56 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 8 | 0.56 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 7 | 0.56 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 14 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 6 | 0.56 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 11 | 0.56 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 18 | 0.56 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 2 | 0.56 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 6 | 0.56 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 6 | 0.56 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 3 | 0.56 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 10 | 0.56 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 16 | 0.56 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 9 | 0.56 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 11 | 0.56 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 5 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 3 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 3 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 3 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 3 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 3 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 3 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 3 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 3 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 3 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 6 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 6 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 6 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 6 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 6 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 6 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 6 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 6 | 0.56 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 6 | 0.56 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 8 | 0.56 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 8 | 0.56 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 8 | 0.56 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 18 | 0.56 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 16 | 0.56 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 16 | 0.56 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 16 | 0.56 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 11 | 0.56 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 6 | 0.56 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 6 | 0.56 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 6 | 0.56 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 6 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 6 | 0.56 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 6 | 0.56 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 12 | 0.56 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 12 | 0.56 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 12 | 0.56 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 12 | 0.56 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 7 | 0.56 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 7 | 0.56 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 7 | 0.56 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 7 | 0.56 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 7 | 0.56 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 7 | 0.56 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 4 | 0.56 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 1 | 0.56 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 1 | 0.56 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 1 | 0.56 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 1 | 0.56 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 18 | 0.56 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 18 | 0.56 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 6 | 0.56 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 6 | 0.56 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 6 | 0.56 |
| (1,4077) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 6 | 0.56 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 6 | 0.56 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 6 | 0.56 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 15 | 0.56 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 15 | 0.56 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 15 | 0.56 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 15 | 0.56 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 15 | 0.56 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 15 | 0.56 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 0.56 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 20 | 0.56 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 13 | 0.56 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 14 | 0.56 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 20 | 0.56 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 2 | 0.56 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 2 | 0.56 |
| (1,3839) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 2 | 0.56 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 3 | 0.56 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 3 | 0.56 |
| (1,3669) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 12 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 15 | 0.56 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 15 | 0.56 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 14 | 0.56 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 14 | 0.56 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 16 | 0.56 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 16 | 0.56 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 7 | 0.56 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 7 | 0.56 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 7 | 0.56 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 7 | 0.56 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 7 | 0.56 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 7 | 0.56 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 4 | 0.56 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 4 | 0.56 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 15 | 0.56 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 17 | 0.56 |
| (1,3423) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 2 | 0.56 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 2 | 0.56 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 6 | 0.56 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 6 | 0.56 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 1 | 0.56 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 1 | 0.56 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 1 | 0.56 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 14 | 0.56 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 14 | 0.56 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 14 | 0.56 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 14 | 0.56 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 11 | 0.56 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 11 | 0.56 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 6 | 0.56 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 10 | 0.56 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 17 | 0.56 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 4 | 0.56 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 6 | 0.56 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 6 | 0.56 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 8 | 0.56 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 8 | 0.56 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 15 | 0.56 |
| (1,2943) | 1:32:A:SER:H | 1:32:A:SER:HA | 16 | 0.56 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 9 | 0.56 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 11 | 0.56 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 17 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 16 | 0.56 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 16 | 0.56 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 16 | 0.56 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 18 | 0.56 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 18 | 0.56 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 18 | 0.56 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 4 | 0.56 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 13 | 0.56 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 16 | 0.56 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 18 | 0.56 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 2 | 0.56 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 2 | 0.56 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 16 | 0.56 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 3 | 0.56 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 8 | 0.56 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 11 | 0.56 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 13 | 0.56 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 20 | 0.56 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 20 | 0.56 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 8 | 0.56 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 18 | 0.56 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 18 | 0.56 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 18 | 0.56 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 1 | 0.56 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 1 | 0.56 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 1 | 0.56 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 1 | 0.56 |
| (1,2515) | 1:13:A:LYS:HB3 | 1:14:A:ARG:H | 12 | 0.56 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 11 | 0.56 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 18 | 0.56 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 11 | 0.56 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 9 | 0.56 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 10 | 0.56 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 1 | 0.56 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 4 | 0.56 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 7 | 0.56 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 20 | 0.56 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 1 | 0.56 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 7 | 0.56 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 11 | 0.56 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 18 | 0.56 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 6 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 6 | 0.56 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 6 | 0.56 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 8 | 0.56 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 15 | 0.56 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 15 | 0.56 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 15 | 0.56 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 9 | 0.56 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 9 | 0.56 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 9 | 0.56 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 1 | 0.56 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 7 | 0.56 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 11 | 0.56 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 3 | 0.56 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 3 | 0.56 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 3 | 0.56 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 3 | 0.56 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 3 | 0.56 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 3 | 0.56 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 3 | 0.56 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 3 | 0.56 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 3 | 0.56 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 15 | 0.56 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 15 | 0.56 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 15 | 0.56 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 15 | 0.56 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 15 | 0.56 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 15 | 0.56 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 13 | 0.56 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 10 | 0.56 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 10 | 0.56 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 10 | 0.56 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 5 | 0.56 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 18 | 0.56 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 8 | 0.56 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 7 | 0.56 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 11 | 0.56 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 14 | 0.56 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 11 | 0.56 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 11 | 0.56 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 11 | 0.56 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 2 | 0.56 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 16 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 16 | 0.56 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 20 | 0.56 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 9 | 0.56 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 9 | 0.56 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 9 | 0.56 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 19 | 0.56 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 19 | 0.56 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 19 | 0.56 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 14 | 0.56 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 3 | 0.56 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 6 | 0.56 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 2 | 0.56 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 3 | 0.56 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 8 | 0.56 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 9 | 0.56 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 9 | 0.56 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 9 | 0.56 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 10 | 0.56 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 2 | 0.56 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 2 | 0.56 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 13 | 0.56 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 8 | 0.56 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 20 | 0.56 |
| (1,1437) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 6 | 0.56 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 1 | 0.56 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 4 | 0.56 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 9 | 0.56 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 16 | 0.56 |
| (1,1303) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 4 | 0.56 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 4 | 0.56 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 14 | 0.56 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 7 | 0.56 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 7 | 0.56 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 12 | 0.56 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 20 | 0.56 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 2 | 0.56 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 5 | 0.56 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 18 | 0.56 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 9 | 0.56 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 16 | 0.56 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 16 | 0.56 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 14 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 16 | 0.56 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 5 | 0.56 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 4 | 0.56 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 2 | 0.56 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 2 | 0.56 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 11 | 0.56 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 11 | 0.56 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 3 | 0.56 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 3 | 0.56 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 3 | 0.56 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 17 | 0.56 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 17 | 0.56 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 17 | 0.56 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 1 | 0.56 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 1 | 0.56 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 1 | 0.56 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 1 | 0.56 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 1 | 0.56 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 1 | 0.56 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 1 | 0.56 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 1 | 0.56 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 1 | 0.56 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 2 | 0.56 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 2 | 0.56 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 2 | 0.56 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 12 | 0.56 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 12 | 0.56 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 18 | 0.56 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 18 | 0.56 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 18 | 0.56 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 11 | 0.56 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 11 | 0.56 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 11 | 0.56 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 13 | 0.56 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 20 | 0.56 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 20 | 0.56 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 20 | 0.56 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 18 | 0.56 |
| (1,496) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 20 | 0.56 |
| (1,496) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 20 | 0.56 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 14 | 0.56 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 15 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 11 | 0.56 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 6 | 0.56 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 7 | 0.56 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 2 | 0.56 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 3 | 0.56 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 10 | 0.56 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 17 | 0.56 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 10 | 0.56 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 15 | 0.56 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 18 | 0.56 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 10 | 0.56 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 4 | 0.56 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 3 | 0.56 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 2 | 0.56 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 1 | 0.56 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 5 | 0.56 |
| (1,309) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 13 | 0.56 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 4 | 0.56 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 4 | 0.56 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 4 | 0.56 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 10 | 0.56 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 10 | 0.56 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 10 | 0.56 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 9 | 0.56 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 8 | 0.56 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 14 | 0.56 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 14 | 0.56 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 14 | 0.56 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 14 | 0.56 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 7 | 0.56 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 12 | 0.56 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 9 | 0.56 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 9 | 0.56 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 9 | 0.56 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 7 | 0.56 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 7 | 0.56 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 7 | 0.56 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 19 | 0.56 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 19 | 0.56 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 19 | 0.56 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 14 | 0.56 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 14 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 14 | 0.56 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 11 | 0.56 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 11 | 0.56 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 11 | 0.56 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 11 | 0.56 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 11 | 0.56 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 11 | 0.56 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 11 | 0.56 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 12 | 0.56 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 12 | 0.56 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 12 | 0.56 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 3 | 0.56 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 4 | 0.56 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 18 | 0.55 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 18 | 0.55 |
| (4,173) | 1:98:A:SER:CB | 1:45:A:GLY:H | 13 | 0.55 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 8 | 0.55 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE21 | 19 | 0.55 |
| (4,19) | 1:15:A:MET:CB | 1:66:A:GLN:HE22 | 19 | 0.55 |
| (4,16) | 1:15:A:MET:CB | 1:64:A:HIS:H | 3 | 0.55 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 9 | 0.55 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 9 | 0.55 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 9 | 0.55 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 9 | 0.55 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 14 | 0.55 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 14 | 0.55 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 14 | 0.55 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 14 | 0.55 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 14 | 0.55 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 14 | 0.55 |
| (3,929) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE21 | 17 | 0.55 |
| (3,929) | 1:91:A:GLY:HA2 | 1:94:A:GLN:HE22 | 17 | 0.55 |
| (3,929) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE21 | 17 | 0.55 |
| (3,929) | 1:91:A:GLY:HA3 | 1:94:A:GLN:HE22 | 17 | 0.55 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 10 | 0.55 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 10 | 0.55 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 15 | 0.55 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 15 | 0.55 |
| (3,611) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 8 | 0.55 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 8 | 0.55 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 8 | 0.55 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 12 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 12 | 0.55 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 13 | 0.55 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 13 | 0.55 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 13 | 0.55 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 14 | 0.55 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 14 | 0.55 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 14 | 0.55 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 5 | 0.55 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 5 | 0.55 |
| (1,9184) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 14 | 0.55 |
| (1,9184) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 14 | 0.55 |
| (1,9178) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 6 | 0.55 |
| (1,9178) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 6 | 0.55 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 14 | 0.55 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 14 | 0.55 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 18 | 0.55 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 18 | 0.55 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 3 | 0.55 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 3 | 0.55 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 3 | 0.55 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 3 | 0.55 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 4 | 0.55 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 4 | 0.55 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 13 | 0.55 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 13 | 0.55 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 20 | 0.55 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 20 | 0.55 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 6 | 0.55 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 6 | 0.55 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 1 | 0.55 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 1 | 0.55 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 9 | 0.55 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 9 | 0.55 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 9 | 0.55 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 9 | 0.55 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 9 | 0.55 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 9 | 0.55 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 2 | 0.55 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 2 | 0.55 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 3 | 0.55 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 14 | 0.55 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 1 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 14 | 0.55 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 17 | 0.55 |
| (1,7888) | 1:65:A:SER:HA | 1:70:A:PRO:HB2 | 20 | 0.55 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 9 | 0.55 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 18 | 0.55 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 6 | 0.55 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 15 | 0.55 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 1 | 0.55 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 1 | 0.55 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 9 | 0.55 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 17 | 0.55 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 3 | 0.55 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 3 | 0.55 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 3 | 0.55 |
| (1,7077) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 13 | 0.55 |
| (1,7077) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 13 | 0.55 |
| (1,7077) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 13 | 0.55 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 4 | 0.55 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 20 | 0.55 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 13 | 0.55 |
| (1,7010) | 1:37:A:PRO:HA | 1:38:A:SER:H | 4 | 0.55 |
| (1,7010) | 1:37:A:PRO:HA | 1:38:A:SER:H | 7 | 0.55 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 5 | 0.55 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 10 | 0.55 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 10 | 0.55 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 3 | 0.55 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 9 | 0.55 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 17 | 0.55 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 18 | 0.55 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 15 | 0.55 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 15 | 0.55 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 20 | 0.55 |
| (1,6588) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 4 | 0.55 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 20 | 0.55 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 5 | 0.55 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 16 | 0.55 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 16 | 0.55 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 16 | 0.55 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 18 | 0.55 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 4 | 0.55 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 4 | 0.55 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 5 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 5 | 0.55 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 15 | 0.55 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 15 | 0.55 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 15 | 0.55 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 15 | 0.55 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 15 | 0.55 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 15 | 0.55 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 15 | 0.55 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 15 | 0.55 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 15 | 0.55 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 3 | 0.55 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 3 | 0.55 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 3 | 0.55 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 11 | 0.55 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 4 | 0.55 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 12 | 0.55 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 18 | 0.55 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 18 | 0.55 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 18 | 0.55 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 13 | 0.55 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 13 | 0.55 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 13 | 0.55 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 2 | 0.55 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 20 | 0.55 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 17 | 0.55 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 17 | 0.55 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 20 | 0.55 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 20 | 0.55 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 20 | 0.55 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 1 | 0.55 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 17 | 0.55 |
| (1,5940) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 13 | 0.55 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 17 | 0.55 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 6 | 0.55 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 7 | 0.55 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 9 | 0.55 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 11 | 0.55 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 14 | 0.55 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 18 | 0.55 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 20 | 0.55 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 20 | 0.55 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 20 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 19 | 0.55 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 2 | 0.55 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 2 | 0.55 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 2 | 0.55 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 2 | 0.55 |
| (1,5486) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 20 | 0.55 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 15 | 0.55 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 15 | 0.55 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 15 | 0.55 |
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 13 | 0.55 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 13 | 0.55 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 13 | 0.55 |
| (1,5341) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 8 | 0.55 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 6 | 0.55 |
| (1,5217) | 1:83:A:GLU:H | 1:86:A:LEU:H | 1 | 0.55 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 4 | 0.55 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 4 | 0.55 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 4 | 0.55 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 11 | 0.55 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 11 | 0.55 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 11 | 0.55 |
| (1,5182) | 1:83:A:GLU:H | 1:84:A:GLU:H | 16 | 0.55 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 20 | 0.55 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 14 | 0.55 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 14 | 0.55 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 16 | 0.55 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 16 | 0.55 |
| (1,5006) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 19 | 0.55 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 7 | 0.55 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 1 | 0.55 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 1 | 0.55 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 1 | 0.55 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 1 | 0.55 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 1 | 0.55 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 1 | 0.55 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 5 | 0.55 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 5 | 0.55 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 5 | 0.55 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 5 | 0.55 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 5 | 0.55 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 5 | 0.55 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 5 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 5 | 0.55 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 5 | 0.55 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 8 | 0.55 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 8 | 0.55 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 1 | 0.55 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 8 | 0.55 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 2 | 0.55 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 2 | 0.55 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 2 | 0.55 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 14 | 0.55 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 14 | 0.55 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 14 | 0.55 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 16 | 0.55 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 16 | 0.55 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 15 | 0.55 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 15 | 0.55 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 15 | 0.55 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 15 | 0.55 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 15 | 0.55 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 15 | 0.55 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 11 | 0.55 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 11 | 0.55 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 11 | 0.55 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 11 | 0.55 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 2 | 0.55 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 2 | 0.55 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 6 | 0.55 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 6 | 0.55 |
| (1,4215) | 1:97:A:LYS:HB3 | 1:98:A:SER:H | 5 | 0.55 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 9 | 0.55 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 9 | 0.55 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 9 | 0.55 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 9 | 0.55 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 12 | 0.55 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 12 | 0.55 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 13 | 0.55 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 13 | 0.55 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 6 | 0.55 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 6 | 0.55 |
| (1,3989) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 6 | 0.55 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 19 | 0.55 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 19 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 5 | 0.55 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 5 | 0.55 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 20 | 0.55 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 20 | 0.55 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 16 | 0.55 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 16 | 0.55 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 12 | 0.55 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 12 | 0.55 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 12 | 0.55 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 12 | 0.55 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 12 | 0.55 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 12 | 0.55 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 8 | 0.55 |
| (1,3515) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 8 | 0.55 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 1 | 0.55 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 1 | 0.55 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 18 | 0.55 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 18 | 0.55 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 18 | 0.55 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 18 | 0.55 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 18 | 0.55 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 18 | 0.55 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 18 | 0.55 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 18 | 0.55 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 18 | 0.55 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 13 | 0.55 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 13 | 0.55 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 13 | 0.55 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 15 | 0.55 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 3 | 0.55 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 1 | 0.55 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 4 | 0.55 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 4 | 0.55 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 4 | 0.55 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 11 | 0.55 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 10 | 0.55 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 10 | 0.55 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 10 | 0.55 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 17 | 0.55 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 19 | 0.55 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 15 | 0.55 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 8 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 13 | 0.55 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 10 | 0.55 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 12 | 0.55 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 10 | 0.55 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 2 | 0.55 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 2 | 0.55 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 2 | 0.55 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 5 | 0.55 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 5 | 0.55 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 5 | 0.55 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 15 | 0.55 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 14 | 0.55 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 14 | 0.55 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 14 | 0.55 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 3 | 0.55 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 9 | 0.55 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 17 | 0.55 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 17 | 0.55 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 5 | 0.55 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 5 | 0.55 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 5 | 0.55 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 6 | 0.55 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 16 | 0.55 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 18 | 0.55 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 14 | 0.55 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 14 | 0.55 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 2 | 0.55 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 13 | 0.55 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 13 | 0.55 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 13 | 0.55 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 18 | 0.55 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 18 | 0.55 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 18 | 0.55 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 18 | 0.55 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 20 | 0.55 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 3 | 0.55 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 11 | 0.55 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 19 | 0.55 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 2 | 0.55 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 13 | 0.55 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 7 | 0.55 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 15 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 15 | 0.55 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 15 | 0.55 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 19 | 0.55 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 19 | 0.55 |
| (1,2405) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 19 | 0.55 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 3 | 0.55 |
| (1,2371) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 8 | 0.55 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 18 | 0.55 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 18 | 0.55 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 18 | 0.55 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 5 | 0.55 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 3 | 0.55 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 14 | 0.55 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 4 | 0.55 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 9 | 0.55 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 10 | 0.55 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 13 | 0.55 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 9 | 0.55 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 20 | 0.55 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 4 | 0.55 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 4 | 0.55 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 4 | 0.55 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 14 | 0.55 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 15 | 0.55 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 13 | 0.55 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 9 | 0.55 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 9 | 0.55 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 9 | 0.55 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 20 | 0.55 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 20 | 0.55 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 20 | 0.55 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 1 | 0.55 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 1 | 0.55 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 1 | 0.55 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 8 | 0.55 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 8 | 0.55 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 8 | 0.55 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 18 | 0.55 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 9 | 0.55 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 9 | 0.55 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 9 | 0.55 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 11 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 11 | 0.55 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 16 | 0.55 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 16 | 0.55 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 16 | 0.55 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 1 | 0.55 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 1 | 0.55 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 1 | 0.55 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 1 | 0.55 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 1 | 0.55 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 1 | 0.55 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 1 | 0.55 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 1 | 0.55 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 1 | 0.55 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 11 | 0.55 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 11 | 0.55 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 11 | 0.55 |
| (1,1933) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 13 | 0.55 |
| (1,1933) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 13 | 0.55 |
| (1,1933) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 13 | 0.55 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 19 | 0.55 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 13 | 0.55 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 8 | 0.55 |
| (1,1849) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 12 | 0.55 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 13 | 0.55 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 3 | 0.55 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 10 | 0.55 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 1 | 0.55 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 1 | 0.55 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 1 | 0.55 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 5 | 0.55 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 5 | 0.55 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 5 | 0.55 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 7 | 0.55 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 7 | 0.55 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 7 | 0.55 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 18 | 0.55 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 15 | 0.55 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 4 | 0.55 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 8 | 0.55 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 8 | 0.55 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 8 | 0.55 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 8 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 8 | 0.55 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 8 | 0.55 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 8 | 0.55 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 8 | 0.55 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 8 | 0.55 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 1 | 0.55 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 2 | 0.55 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 12 | 0.55 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 18 | 0.55 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 6 | 0.55 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 6 | 0.55 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 6 | 0.55 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 6 | 0.55 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 19 | 0.55 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 11 | 0.55 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 11 | 0.55 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 11 | 0.55 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 11 | 0.55 |
| (1,1543) | 1:132:A:LYS:HA | 1:132:A:LYS:HG2 | 16 | 0.55 |
| (1,1537) | 1:132:A:LYS:H | 1:132:A:LYS:HA | 4 | 0.55 |
| (1,1523) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 14 | 0.55 |
| (1,1489) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 17 | 0.55 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 6 | 0.55 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 7 | 0.55 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 20 | 0.55 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 12 | 0.55 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 16 | 0.55 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 2 | 0.55 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 14 | 0.55 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 4 | 0.55 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 4 | 0.55 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 4 | 0.55 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 6 | 0.55 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 6 | 0.55 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 20 | 0.55 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 20 | 0.55 |
| (1,1319) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 20 | 0.55 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 20 | 0.55 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 20 | 0.55 |
| (1,1319) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 20 | 0.55 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 11 | 0.55 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 14 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 1 | 0.55 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 3 | 0.55 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 4 | 0.55 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 9 | 0.55 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 10 | 0.55 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 11 | 0.55 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 2 | 0.55 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 5 | 0.55 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 18 | 0.55 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 16 | 0.55 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 17 | 0.55 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 15 | 0.55 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 6 | 0.55 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 6 | 0.55 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 1 | 0.55 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 12 | 0.55 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 3 | 0.55 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 3 | 0.55 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 3 | 0.55 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 19 | 0.55 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 15 | 0.55 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 13 | 0.55 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 13 | 0.55 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 6 | 0.55 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 6 | 0.55 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 6 | 0.55 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 6 | 0.55 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 6 | 0.55 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 4 | 0.55 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 2 | 0.55 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 18 | 0.55 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 18 | 0.55 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 18 | 0.55 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 18 | 0.55 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 18 | 0.55 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 18 | 0.55 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 18 | 0.55 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 18 | 0.55 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 18 | 0.55 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 10 | 0.55 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 10 | 0.55 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 10 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 20 | 0.55 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 20 | 0.55 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 20 | 0.55 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 7 | 0.55 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 18 | 0.55 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 18 | 0.55 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 18 | 0.55 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 6 | 0.55 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 6 | 0.55 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 6 | 0.55 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 7 | 0.55 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 7 | 0.55 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 7 | 0.55 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 7 | 0.55 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 7 | 0.55 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 7 | 0.55 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 20 | 0.55 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 20 | 0.55 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 20 | 0.55 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 20 | 0.55 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 20 | 0.55 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 20 | 0.55 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 3 | 0.55 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 18 | 0.55 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 18 | 0.55 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 18 | 0.55 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 17 | 0.55 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 17 | 0.55 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 17 | 0.55 |
| (1,447) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD11 | 14 | 0.55 |
| (1,447) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD12 | 14 | 0.55 |
| (1,447) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HD13 | 14 | 0.55 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 4 | 0.55 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 10 | 0.55 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 6 | 0.55 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 3 | 0.55 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 4 | 0.55 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 6 | 0.55 |
| (1,362) | 1:83:A:GLU:H | 1:84:A:GLU:H | 16 | 0.55 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 4 | 0.55 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 7 | 0.55 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 7 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 7 | 0.55 |
| (1,292) | 1:78:A:ILE:HB | 1:78:A:ILE:HG12 | 11 | 0.55 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 1 | 0.55 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 5 | 0.55 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 9 | 0.55 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 11 | 0.55 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 14 | 0.55 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 20 | 0.55 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 8 | 0.55 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 8 | 0.55 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 8 | 0.55 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 18 | 0.55 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 12 | 0.55 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 3 | 0.55 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 12 | 0.55 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 12 | 0.55 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 19 | 0.55 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 19 | 0.55 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 2 | 0.55 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 2 | 0.55 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 2 | 0.55 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 17 | 0.55 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 10 | 0.55 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 15 | 0.55 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 15 | 0.55 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 15 | 0.55 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 10 | 0.55 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 10 | 0.55 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 10 | 0.55 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 8 | 0.55 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 17 | 0.55 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 8 | 0.55 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 2 | 0.55 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 10 | 0.55 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 15 | 0.55 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 20 | 0.55 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 10 | 0.55 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 16 | 0.54 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 1 | 0.54 |
| (4,186) | 1:131:A:GLN:CB | 1:12:A:GLU:H | 11 | 0.54 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE21 | 9 | 0.54 |
| (4,176) | 1:98:A:SER:CB | 1:49:A:GLN:HE22 | 9 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,10) | 1:15:A:MET:CB | 1:57:A:CYS:H | 10 | 0.54 |
| (3,855) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 7 | 0.54 |
| (3,855) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 7 | 0.54 |
| (3,855) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 16 | 0.54 |
| (3,855) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 16 | 0.54 |
| (3,701) | 1:142:A:ARG:H | 1:145:A:GLU:H | 20 | 0.54 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 13 | 0.54 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 13 | 0.54 |
| (3,484) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 5 | 0.54 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 15 | 0.54 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 15 | 0.54 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 15 | 0.54 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 15 | 0.54 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 15 | 0.54 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 15 | 0.54 |
| (3,155) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 8 | 0.54 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 6 | 0.54 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 6 | 0.54 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 16 | 0.54 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 16 | 0.54 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 16 | 0.54 |
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 20 | 0.54 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 20 | 0.54 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 20 | 0.54 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 11 | 0.54 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 11 | 0.54 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 11 | 0.54 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 11 | 0.54 |
| (1,9527) | 1:141:A:LEU:HB2 | 1:145:A:GLU:HB2 | 8 | 0.54 |
| (1,9527) | 1:141:A:LEU:HB3 | 1:145:A:GLU:HB2 | 8 | 0.54 |
| (1,9336) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 9 | 0.54 |
| (1,9336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 9 | 0.54 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 12 | 0.54 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 12 | 0.54 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 6 | 0.54 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 6 | 0.54 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 16 | 0.54 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 16 | 0.54 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 1 | 0.54 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 1 | 0.54 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 1 | 0.54 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 1 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8922) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 15 | 0.54 |
| (1,8922) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 15 | 0.54 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 14 | 0.54 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 14 | 0.54 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG2 | 6 | 0.54 |
| (1,8762) | 1:55:A:VAL:HG21 | 1:161:A:ARG:HG3 | 6 | 0.54 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG2 | 6 | 0.54 |
| (1,8762) | 1:55:A:VAL:HG22 | 1:161:A:ARG:HG3 | 6 | 0.54 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG2 | 6 | 0.54 |
| (1,8762) | 1:55:A:VAL:HG23 | 1:161:A:ARG:HG3 | 6 | 0.54 |
| (1,8753) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 13 | 0.54 |
| (1,8753) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 13 | 0.54 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 4 | 0.54 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 4 | 0.54 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 2 | 0.54 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 2 | 0.54 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 11 | 0.54 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 11 | 0.54 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 11 | 0.54 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 11 | 0.54 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 5 | 0.54 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 5 | 0.54 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 7 | 0.54 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 7 | 0.54 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 11 | 0.54 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 11 | 0.54 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 16 | 0.54 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 16 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 9 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 9 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 9 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 9 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 9 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 9 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 13 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 13 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 13 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 13 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 13 | 0.54 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 13 | 0.54 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 19 | 0.54 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 17 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 20 | 0.54 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 20 | 0.54 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 3 | 0.54 |
| (1,8225) | 1:108:A:SER:HA | 1:120:A:GLY:H | 3 | 0.54 |
| (1,8194) | 1:104:A:GLU:H | 1:107:A:ALA:H | 15 | 0.54 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 7 | 0.54 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 9 | 0.54 |
| (1,7863) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 10 | 0.54 |
| (1,7863) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 10 | 0.54 |
| (1,7863) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 10 | 0.54 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 12 | 0.54 |
| (1,7522) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 1 | 0.54 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 16 | 0.54 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 16 | 0.54 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 16 | 0.54 |
| (1,7326) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 15 | 0.54 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 8 | 0.54 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 8 | 0.54 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 19 | 0.54 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 5 | 0.54 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 8 | 0.54 |
| (1,7010) | 1:37:A:PRO:HA | 1:38:A:SER:H | 1 | 0.54 |
| (1,7010) | 1:37:A:PRO:HA | 1:38:A:SER:H | 3 | 0.54 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 12 | 0.54 |
| (1,6957) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 16 | 0.54 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 8 | 0.54 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 8 | 0.54 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 8 | 0.54 |
| (1,6899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 10 | 0.54 |
| (1,6899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 18 | 0.54 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 3 | 0.54 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 3 | 0.54 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 3 | 0.54 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 6 | 0.54 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 6 | 0.54 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 6 | 0.54 |
| (1,6857) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 14 | 0.54 |
| (1,6849) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 10 | 0.54 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 8 | 0.54 |
| (1,6805) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 7 | 0.54 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 10 | 0.54 |
| (1,6692) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 19 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 2 | 0.54 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 15 | 0.54 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 16 | 0.54 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 4 | 0.54 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 6 | 0.54 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 5 | 0.54 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 11 | 0.54 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 18 | 0.54 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 20 | 0.54 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 5 | 0.54 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 9 | 0.54 |
| (1,6283) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 13 | 0.54 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 20 | 0.54 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 20 | 0.54 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 20 | 0.54 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 20 | 0.54 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 20 | 0.54 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 20 | 0.54 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 11 | 0.54 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 1 | 0.54 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 11 | 0.54 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 16 | 0.54 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 19 | 0.54 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 3 | 0.54 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 3 | 0.54 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 17 | 0.54 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 17 | 0.54 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 2 | 0.54 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 2 | 0.54 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 18 | 0.54 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 20 | 0.54 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 4 | 0.54 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 4 | 0.54 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 10 | 0.54 |
| (1,5916) | 1:125:A:PHE:HB2 | 1:126:A:SER:H | 6 | 0.54 |
| (1,5916) | 1:125:A:PHE:HB3 | 1:126:A:SER:H | 6 | 0.54 |
| (1,5908) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 13 | 0.54 |
| (1,5908) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 13 | 0.54 |
| (1,5861) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 5 | 0.54 |
| (1,5861) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 5 | 0.54 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 16 | 0.54 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 15 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 12 | 0.54 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 3 | 0.54 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 3 | 0.54 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 3 | 0.54 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 3 | 0.54 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 10 | 0.54 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 7 | 0.54 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 14 | 0.54 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 2 | 0.54 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 20 | 0.54 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 8 | 0.54 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 8 | 0.54 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 8 | 0.54 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 16 | 0.54 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 14 | 0.54 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 15 | 0.54 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 15 | 0.54 |
| (1,5471) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 15 | 0.54 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 15 | 0.54 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 15 | 0.54 |
| (1,5471) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 15 | 0.54 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 15 | 0.54 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 15 | 0.54 |
| (1,5471) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 15 | 0.54 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 8 | 0.54 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 1 | 0.54 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 14 | 0.54 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 13 | 0.54 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 13 | 0.54 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 13 | 0.54 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 12 | 0.54 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 14 | 0.54 |
| (1,5111) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 20 | 0.54 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 14 | 0.54 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 16 | 0.54 |
| (1,5006) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 1 | 0.54 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 20 | 0.54 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 5 | 0.54 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 12 | 0.54 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 7 | 0.54 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 5 | 0.54 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 5 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 10 | 0.54 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 6 | 0.54 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 4 | 0.54 |
| (1,4747) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 7 | 0.54 |
| (1,4743) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 2 | 0.54 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 17 | 0.54 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 17 | 0.54 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 17 | 0.54 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 1 | 0.54 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 5 | 0.54 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 1 | 0.54 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 1 | 0.54 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 1 | 0.54 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 1 | 0.54 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 1 | 0.54 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 1 | 0.54 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 5 | 0.54 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 5 | 0.54 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 15 | 0.54 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 15 | 0.54 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 5 | 0.54 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 5 | 0.54 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 8 | 0.54 |
| (1,3921) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 8 | 0.54 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 12 | 0.54 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 12 | 0.54 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 2 | 0.54 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 6 | 0.54 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 12 | 0.54 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 12 | 0.54 |
| (1,3883) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 12 | 0.54 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 12 | 0.54 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 12 | 0.54 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 12 | 0.54 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 12 | 0.54 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 12 | 0.54 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 12 | 0.54 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 20 | 0.54 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 0.54 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 4 | 0.54 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 4 | 0.54 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 13 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 13 | 0.54 |
| (1,3589) | 1:21:A:ARG:HG2 | 1:22:A:VAL:H | 2 | 0.54 |
| (1,3589) | 1:21:A:ARG:HG3 | 1:22:A:VAL:H | 2 | 0.54 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 9 | 0.54 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 0.54 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 9 | 0.54 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 20 | 0.54 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 20 | 0.54 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 16 | 0.54 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 16 | 0.54 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 16 | 0.54 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 5 | 0.54 |
| (1,3405) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 8 | 0.54 |
| (1,3405) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 8 | 0.54 |
| (1,3405) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 8 | 0.54 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 11 | 0.54 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 11 | 0.54 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 11 | 0.54 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 9 | 0.54 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 19 | 0.54 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 19 | 0.54 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 19 | 0.54 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 8 | 0.54 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 8 | 0.54 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 8 | 0.54 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 8 | 0.54 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 14 | 0.54 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 14 | 0.54 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 4 | 0.54 |
| (1,3081) | 1:38:A:SER:H | 1:38:A:SER:HA | 14 | 0.54 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 3 | 0.54 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 14 | 0.54 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 8 | 0.54 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 14 | 0.54 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 14 | 0.54 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 12 | 0.54 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 18 | 0.54 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 9 | 0.54 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 9 | 0.54 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 9 | 0.54 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 12 | 0.54 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 17 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 14 | 0.54 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 14 | 0.54 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 14 | 0.54 |
| (1,2899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 10 | 0.54 |
| (1,2899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 18 | 0.54 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 7 | 0.54 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 11 | 0.54 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 19 | 0.54 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 12 | 0.54 |
| (1,2835) | 1:27:A:HIS:H | 1:27:A:HIS:HB2 | 10 | 0.54 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 8 | 0.54 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 12 | 0.54 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 12 | 0.54 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 4 | 0.54 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 4 | 0.54 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 4 | 0.54 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 4 | 0.54 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 4 | 0.54 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 4 | 0.54 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 13 | 0.54 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 13 | 0.54 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 19 | 0.54 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 15 | 0.54 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 15 | 0.54 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 3 | 0.54 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 3 | 0.54 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 4 | 0.54 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 6 | 0.54 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 20 | 0.54 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 14 | 0.54 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 14 | 0.54 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 14 | 0.54 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 18 | 0.54 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 20 | 0.54 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 14 | 0.54 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 7 | 0.54 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 7 | 0.54 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 7 | 0.54 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 19 | 0.54 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 11 | 0.54 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 7 | 0.54 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 8 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 14 | 0.54 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 18 | 0.54 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 3 | 0.54 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 2 | 0.54 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 2 | 0.54 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 2 | 0.54 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 11 | 0.54 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 11 | 0.54 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 11 | 0.54 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 8 | 0.54 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 18 | 0.54 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 18 | 0.54 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 18 | 0.54 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 4 | 0.54 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG21 | 6 | 0.54 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG22 | 6 | 0.54 |
| (1,2039) | 1:156:A:ILE:HA | 1:156:A:ILE:HG23 | 6 | 0.54 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 3 | 0.54 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 3 | 0.54 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 8 | 0.54 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 8 | 0.54 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 8 | 0.54 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 8 | 0.54 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 8 | 0.54 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 8 | 0.54 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 8 | 0.54 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 8 | 0.54 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 8 | 0.54 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 8 | 0.54 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 8 | 0.54 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 8 | 0.54 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 11 | 0.54 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 11 | 0.54 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 11 | 0.54 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 9 | 0.54 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 9 | 0.54 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 9 | 0.54 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 1 | 0.54 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 1 | 0.54 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 1 | 0.54 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 12 | 0.54 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 12 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 12 | 0.54 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 14 | 0.54 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 20 | 0.54 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 15 | 0.54 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 16 | 0.54 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 6 | 0.54 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 19 | 0.54 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 19 | 0.54 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 19 | 0.54 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 7 | 0.54 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 7 | 0.54 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 14 | 0.54 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 14 | 0.54 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 14 | 0.54 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 4 | 0.54 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 17 | 0.54 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 13 | 0.54 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 7 | 0.54 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 7 | 0.54 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 16 | 0.54 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 16 | 0.54 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 6 | 0.54 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 18 | 0.54 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 1 | 0.54 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 4 | 0.54 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 20 | 0.54 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 8 | 0.54 |
| (1,1401) | 1:127:A:ARG:H | 1:127:A:ARG:HB3 | 12 | 0.54 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 1 | 0.54 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 10 | 0.54 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 5 | 0.54 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 6 | 0.54 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 6 | 0.54 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 6 | 0.54 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 6 | 0.54 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 6 | 0.54 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 6 | 0.54 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 1 | 0.54 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 1 | 0.54 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 10 | 0.54 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 10 | 0.54 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 10 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 15 | 0.54 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 15 | 0.54 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 15 | 0.54 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 19 | 0.54 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 19 | 0.54 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 19 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 1 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 1 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 1 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 2 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 2 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 2 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 4 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 4 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 4 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 9 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 9 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 9 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 17 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 17 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 17 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 18 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 18 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 18 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 20 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 20 | 0.54 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 20 | 0.54 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 13 | 0.54 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 14 | 0.54 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 16 | 0.54 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 16 | 0.54 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 10 | 0.54 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 10 | 0.54 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 15 | 0.54 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 11 | 0.54 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 11 | 0.54 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 11 | 0.54 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 7 | 0.54 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 14 | 0.54 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 2 | 0.54 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 17 | 0.54 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 5 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 5 | 0.54 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 5 | 0.54 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 14 | 0.54 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 16 | 0.54 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 12 | 0.54 |
| (1,593) | 1:94:A:GLN:H | 1:94:A:GLN:HA | 3 | 0.54 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 8 | 0.54 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 1 | 0.54 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 14 | 0.54 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 2 | 0.54 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 2 | 0.54 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 2 | 0.54 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 1 | 0.54 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 1 | 0.54 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 1 | 0.54 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 17 | 0.54 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 18 | 0.54 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 6 | 0.54 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 11 | 0.54 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 14 | 0.54 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 19 | 0.54 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 19 | 0.54 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 19 | 0.54 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 19 | 0.54 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 19 | 0.54 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 19 | 0.54 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 15 | 0.54 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 15 | 0.54 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 15 | 0.54 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 13 | 0.54 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 13 | 0.54 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 13 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 1 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 2 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 3 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 4 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 5 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 6 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 7 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 8 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 9 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 10 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 11 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 12 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 15 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 16 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 17 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 19 | 0.54 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 20 | 0.54 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 17 | 0.54 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 7 | 0.54 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 16 | 0.54 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 20 | 0.54 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 14 | 0.54 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 14 | 0.54 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 14 | 0.54 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 14 | 0.54 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 14 | 0.54 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 14 | 0.54 |
| (1,398) | 1:86:A:LEU:HA | 1:87:A:GLU:H | 1 | 0.54 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 20 | 0.54 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 11 | 0.54 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 11 | 0.54 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 11 | 0.54 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 11 | 0.54 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 18 | 0.54 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 1 | 0.54 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 1 | 0.54 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 1 | 0.54 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 15 | 0.54 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 7 | 0.54 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 17 | 0.54 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 1 | 0.54 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 1 | 0.54 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 17 | 0.54 |
| (1,157) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 7 | 0.54 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 20 | 0.54 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 20 | 0.54 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 20 | 0.54 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 20 | 0.54 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 20 | 0.54 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 20 | 0.54 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 20 | 0.54 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 20 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 20 | 0.54 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 11 | 0.54 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 11 | 0.54 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 11 | 0.54 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 11 | 0.54 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 11 | 0.54 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 11 | 0.54 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 11 | 0.54 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 11 | 0.54 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 11 | 0.54 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 5 | 0.54 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 5 | 0.54 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 5 | 0.54 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 7 | 0.54 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 7 | 0.54 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 7 | 0.54 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 1 | 0.54 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 1 | 0.54 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 1 | 0.54 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 4 | 0.54 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 4 | 0.54 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 4 | 0.54 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 12 | 0.54 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 19 | 0.54 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 7 | 0.54 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 12 | 0.54 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 16 | 0.54 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 16 | 0.54 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 16 | 0.54 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 13 | 0.54 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 5 | 0.54 |
| (1,60) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 15 | 0.54 |
| (1,60) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 15 | 0.54 |
| (1,60) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 15 | 0.54 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 5 | 0.53 |
| (4,265) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 13 | 0.53 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 18 | 0.53 |
| (4,8) | 1:15:A:MET:CB | 1:54:A:ARG:H | 14 | 0.53 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 20 | 0.53 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 20 | 0.53 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 7 | 0.53 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 7 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,801) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 9 | 0.53 |
| (3,801) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 9 | 0.53 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 11 | 0.53 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 11 | 0.53 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 11 | 0.53 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 20 | 0.53 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 20 | 0.53 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 20 | 0.53 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 20 | 0.53 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 20 | 0.53 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 20 | 0.53 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 20 | 0.53 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 20 | 0.53 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 20 | 0.53 |
| (3,484) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 20 | 0.53 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 4 | 0.53 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 9 | 0.53 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 9 | 0.53 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 9 | 0.53 |
| (3,351) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 8 | 0.53 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 1 | 0.53 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 1 | 0.53 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 8 | 0.53 |
| (3,219) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 15 | 0.53 |
| (3,213) | 1:11:A:TRP:HZ2 | 1:37:A:PRO:HG3 | 6 | 0.53 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 12 | 0.53 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 12 | 0.53 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 8 | 0.53 |
| (3,104) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 14 | 0.53 |
| (3,104) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 14 | 0.53 |
| (1,9612) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 17 | 0.53 |
| (1,9612) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 17 | 0.53 |
| (1,9612) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 17 | 0.53 |
| (1,9612) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 17 | 0.53 |
| (1,9612) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 17 | 0.53 |
| (1,9612) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 17 | 0.53 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 8 | 0.53 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 8 | 0.53 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 11 | 0.53 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 11 | 0.53 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 17 | 0.53 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 17 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 18 | 0.53 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 18 | 0.53 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 15 | 0.53 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 15 | 0.53 |
| (1,9184) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 20 | 0.53 |
| (1,9184) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 20 | 0.53 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 12 | 0.53 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 12 | 0.53 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 12 | 0.53 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 12 | 0.53 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 12 | 0.53 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 12 | 0.53 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 20 | 0.53 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 20 | 0.53 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 5 | 0.53 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 5 | 0.53 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 9 | 0.53 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 9 | 0.53 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 1 | 0.53 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 1 | 0.53 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 1 | 0.53 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 1 | 0.53 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 1 | 0.53 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 1 | 0.53 |
| (1,8868) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 17 | 0.53 |
| (1,8868) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 17 | 0.53 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 11 | 0.53 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 11 | 0.53 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 11 | 0.53 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 11 | 0.53 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 11 | 0.53 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 11 | 0.53 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 15 | 0.53 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 15 | 0.53 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 15 | 0.53 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 15 | 0.53 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 15 | 0.53 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 15 | 0.53 |
| (1,8786) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 14 | 0.53 |
| (1,8786) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 14 | 0.53 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 19 | 0.53 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 19 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 19 | 0.53 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 19 | 0.53 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 9 | 0.53 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 9 | 0.53 |
| (1,8683) | 1:43:A:SER:HB2 | 1:44:A:GLY:H | 11 | 0.53 |
| (1,8683) | 1:43:A:SER:HB3 | 1:44:A:GLY:H | 11 | 0.53 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 13 | 0.53 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 13 | 0.53 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 19 | 0.53 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 19 | 0.53 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 6 | 0.53 |
| (1,8332) | 1:131:A:GLN:H | 1:135:A:GLU:H | 19 | 0.53 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 11 | 0.53 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 10 | 0.53 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 5 | 0.53 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 20 | 0.53 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 4 | 0.53 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 6 | 0.53 |
| (1,7932) | 1:71:A:SER:HA | 1:78:A:ILE:H | 1 | 0.53 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 4 | 0.53 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 17 | 0.53 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 12 | 0.53 |
| (1,7606) | 1:26:A:ASN:HA | 1:28:A:ILE:H | 14 | 0.53 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 7 | 0.53 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 3 | 0.53 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 3 | 0.53 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 16 | 0.53 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 16 | 0.53 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 16 | 0.53 |
| (1,7247) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 16 | 0.53 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 7 | 0.53 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 16 | 0.53 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 1 | 0.53 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 1 | 0.53 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 1 | 0.53 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 2 | 0.53 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 17 | 0.53 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 12 | 0.53 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 12 | 0.53 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 8 | 0.53 |
| (1,7008) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 7 | 0.53 |
| (1,6955) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 18 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 20 | 0.53 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 6 | 0.53 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 8 | 0.53 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 8 | 0.53 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 8 | 0.53 |
| (1,6899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 12 | 0.53 |
| (1,6899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 20 | 0.53 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 17 | 0.53 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 14 | 0.53 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 6 | 0.53 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 5 | 0.53 |
| (1,6674) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 10 | 0.53 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 13 | 0.53 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 9 | 0.53 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 8 | 0.53 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 20 | 0.53 |
| (1,6368) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 20 | 0.53 |
| (1,6368) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 20 | 0.53 |
| (1,6368) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 20 | 0.53 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 15 | 0.53 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 8 | 0.53 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 9 | 0.53 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 9 | 0.53 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 9 | 0.53 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 14 | 0.53 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 17 | 0.53 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 8 | 0.53 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 8 | 0.53 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 8 | 0.53 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 8 | 0.53 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 7 | 0.53 |
| (1,6024) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 3 | 0.53 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 19 | 0.53 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 7 | 0.53 |
| (1,5940) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 6 | 0.53 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 20 | 0.53 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 20 | 0.53 |
| (1,5810) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 6 | 0.53 |
| (1,5810) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 6 | 0.53 |
| (1,5810) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 6 | 0.53 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 15 | 0.53 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 19 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5669) | 1:105:A:SER:HA | 1:108:A:SER:H | 18 | 0.53 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 17 | 0.53 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 11 | 0.53 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 4 | 0.53 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 4 | 0.53 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 4 | 0.53 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 11 | 0.53 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 9 | 0.53 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 9 | 0.53 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 9 | 0.53 |
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 16 | 0.53 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 16 | 0.53 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 16 | 0.53 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 20 | 0.53 |
| (1,5239) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 12 | 0.53 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 5 | 0.53 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 5 | 0.53 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 17 | 0.53 |
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 6 | 0.53 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 1 | 0.53 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 11 | 0.53 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 11 | 0.53 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 13 | 0.53 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 7 | 0.53 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 10 | 0.53 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 18 | 0.53 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 12 | 0.53 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 19 | 0.53 |
| (1,4747) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 1 | 0.53 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 8 | 0.53 |
| (1,4704) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 13 | 0.53 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 7 | 0.53 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 7 | 0.53 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 7 | 0.53 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 6 | 0.53 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 8 | 0.53 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 12 | 0.53 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 13 | 0.53 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 16 | 0.53 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 20 | 0.53 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 3 | 0.53 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 16 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 16 | 0.53 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 16 | 0.53 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 16 | 0.53 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 16 | 0.53 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 9 | 0.53 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 9 | 0.53 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 9 | 0.53 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 9 | 0.53 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 9 | 0.53 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 9 | 0.53 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 11 | 0.53 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 11 | 0.53 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 12 | 0.53 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 12 | 0.53 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 12 | 0.53 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 7 | 0.53 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 7 | 0.53 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 3 | 0.53 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 3 | 0.53 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 14 | 0.53 |
| (1,4203) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 14 | 0.53 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 14 | 0.53 |
| (1,4203) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 14 | 0.53 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 1 | 0.53 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 1 | 0.53 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 17 | 0.53 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 17 | 0.53 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 17 | 0.53 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 4 | 0.53 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 4 | 0.53 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 3 | 0.53 |
| (1,4071) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 3 | 0.53 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 3 | 0.53 |
| (1,4071) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 3 | 0.53 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 3 | 0.53 |
| (1,4071) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 3 | 0.53 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 7 | 0.53 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 7 | 0.53 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 6 | 0.53 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 6 | 0.53 |
| (1,3987) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 6 | 0.53 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG21 | 6 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG22 | 6 | 0.53 |
| (1,3987) | 1:77:A:LYS:HG3 | 1:79:A:THR:HG23 | 6 | 0.53 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 3 | 0.53 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 3 | 0.53 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 6 | 0.53 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 6 | 0.53 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 12 | 0.53 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 12 | 0.53 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 14 | 0.53 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 14 | 0.53 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 3 | 0.53 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 3 | 0.53 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 5 | 0.53 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 5 | 0.53 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 19 | 0.53 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 19 | 0.53 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 11 | 0.53 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 11 | 0.53 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 10 | 0.53 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 10 | 0.53 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 10 | 0.53 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 16 | 0.53 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 16 | 0.53 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 16 | 0.53 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 15 | 0.53 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 8 | 0.53 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 8 | 0.53 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 17 | 0.53 |
| (1,3249) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG2 | 4 | 0.53 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 3 | 0.53 |
| (1,3217) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 17 | 0.53 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 7 | 0.53 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 17 | 0.53 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 11 | 0.53 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 6 | 0.53 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 6 | 0.53 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 16 | 0.53 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 16 | 0.53 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 16 | 0.53 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 5 | 0.53 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 19 | 0.53 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 20 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3005) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 19 | 0.53 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 5 | 0.53 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 20 | 0.53 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 5 | 0.53 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 12 | 0.53 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 5 | 0.53 |
| (1,2899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 12 | 0.53 |
| (1,2899) | 1:29:A:THR:HA | 1:29:A:THR:HB | 20 | 0.53 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 9 | 0.53 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 20 | 0.53 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 10 | 0.53 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 10 | 0.53 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 15 | 0.53 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD1 | 20 | 0.53 |
| (1,2705) | 1:16:A:SER:H | 1:23:A:TYR:HD2 | 20 | 0.53 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 6 | 0.53 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 3 | 0.53 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 11 | 0.53 |
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 8 | 0.53 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 8 | 0.53 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 8 | 0.53 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 4 | 0.53 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 6 | 0.53 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 12 | 0.53 |
| (1,2565) | 1:14:A:ARG:H | 1:14:A:ARG:HB3 | 4 | 0.53 |
| (1,2561) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 10 | 0.53 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 1 | 0.53 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 1 | 0.53 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 6 | 0.53 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 20 | 0.53 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 5 | 0.53 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 5 | 0.53 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 5 | 0.53 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 13 | 0.53 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 13 | 0.53 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 13 | 0.53 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 20 | 0.53 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 2 | 0.53 |
| (1,2041) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 12 | 0.53 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 5 | 0.53 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 5 | 0.53 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 5 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 19 | 0.53 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 18 | 0.53 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 18 | 0.53 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 15 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 9 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 9 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 9 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 9 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 9 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 9 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 9 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 9 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 9 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 12 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 12 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 12 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 12 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 12 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 12 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 12 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 12 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 12 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 16 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 16 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 16 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 16 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 16 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 16 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 16 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 16 | 0.53 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 16 | 0.53 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 5 | 0.53 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 5 | 0.53 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 5 | 0.53 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 8 | 0.53 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 16 | 0.53 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 16 | 0.53 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 14 | 0.53 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 14 | 0.53 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 14 | 0.53 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 3 | 0.53 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 1 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 16 | 0.53 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 17 | 0.53 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 7 | 0.53 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 7 | 0.53 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 7 | 0.53 |
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 16 | 0.53 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 10 | 0.53 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 15 | 0.53 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 18 | 0.53 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 20 | 0.53 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 11 | 0.53 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 11 | 0.53 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 11 | 0.53 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 18 | 0.53 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 15 | 0.53 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 15 | 0.53 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 14 | 0.53 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 20 | 0.53 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 19 | 0.53 |
| (1,1597) | 1:134:A:PHE:HA | 1:137:A:ALA:H | 6 | 0.53 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 7 | 0.53 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 4 | 0.53 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 4 | 0.53 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 4 | 0.53 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 4 | 0.53 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 4 | 0.53 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 4 | 0.53 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 16 | 0.53 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 20 | 0.53 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 3 | 0.53 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 3 | 0.53 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 3 | 0.53 |
| (1,1429) | 1:128:A:GLY:H | 1:130:A:MET:H | 15 | 0.53 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 19 | 0.53 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 7 | 0.53 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 1 | 0.53 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD1 | 12 | 0.53 |
| (1,1341) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HD2 | 12 | 0.53 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD1 | 12 | 0.53 |
| (1,1341) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HD2 | 12 | 0.53 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD1 | 12 | 0.53 |
| (1,1341) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HD2 | 12 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 10 | 0.53 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 10 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 3 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 3 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 3 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 5 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 5 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 5 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 12 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 12 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 12 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 14 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 14 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 14 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 16 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 16 | 0.53 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 16 | 0.53 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 1 | 0.53 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 1 | 0.53 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 6 | 0.53 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 6 | 0.53 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 14 | 0.53 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 14 | 0.53 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 14 | 0.53 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 3 | 0.53 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 5 | 0.53 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 8 | 0.53 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 10 | 0.53 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 17 | 0.53 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 20 | 0.53 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 9 | 0.53 |
| (1,1093) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 9 | 0.53 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 9 | 0.53 |
| (1,1093) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 9 | 0.53 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 9 | 0.53 |
| (1,1093) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 9 | 0.53 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 18 | 0.53 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 18 | 0.53 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 18 | 0.53 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 19 | 0.53 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 14 | 0.53 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 14 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 14 | 0.53 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 14 | 0.53 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 14 | 0.53 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 14 | 0.53 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 5 | 0.53 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 5 | 0.53 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 5 | 0.53 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 4 | 0.53 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 18 | 0.53 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 10 | 0.53 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 10 | 0.53 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 15 | 0.53 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 17 | 0.53 |
| (1,723) | 1:97:A:LYS:HA | 1:97:A:LYS:HG3 | 8 | 0.53 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 5 | 0.53 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 2 | 0.53 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 16 | 0.53 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 16 | 0.53 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 16 | 0.53 |
| (1,663) | 1:96:A:ILE:H | 1:96:A:ILE:HA | 11 | 0.53 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 18 | 0.53 |
| (1,633) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 18 | 0.53 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 10 | 0.53 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 11 | 0.53 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 20 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 3 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 3 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 6 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 6 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 11 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 11 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 14 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 14 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 18 | 0.53 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 18 | 0.53 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 6 | 0.53 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 18 | 0.53 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 18 | 0.53 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 18 | 0.53 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG21 | 19 | 0.53 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG22 | 19 | 0.53 |
| (1,456) | 1:89:A:ILE:H | 1:89:A:ILE:HG23 | 19 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 13 | 0.53 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 18 | 0.53 |
| (1,421) | 1:85:A:ALA:H | 1:87:A:GLU:H | 17 | 0.53 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 12 | 0.53 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 5 | 0.53 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 5 | 0.53 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 5 | 0.53 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 8 | 0.53 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 9 | 0.53 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 11 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 16 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 16 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 16 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 16 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 16 | 0.53 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 16 | 0.53 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 3 | 0.53 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 5 | 0.53 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 2 | 0.53 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 6 | 0.53 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 5 | 0.53 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 14 | 0.53 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 12 | 0.53 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 17 | 0.53 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 18 | 0.53 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 1 | 0.53 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 16 | 0.53 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 18 | 0.53 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 11 | 0.53 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 11 | 0.53 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 16 | 0.53 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 16 | 0.53 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 16 | 0.53 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 16 | 0.53 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 16 | 0.53 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 16 | 0.53 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 16 | 0.53 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 16 | 0.53 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 16 | 0.53 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 3 | 0.53 |
| (1,127) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 16 | 0.53 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 11 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 11 | 0.53 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 11 | 0.53 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 11 | 0.53 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 11 | 0.53 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 11 | 0.53 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 11 | 0.53 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 11 | 0.53 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 11 | 0.53 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 19 | 0.53 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 19 | 0.53 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 19 | 0.53 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 19 | 0.53 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 19 | 0.53 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 19 | 0.53 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 19 | 0.53 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 19 | 0.53 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 19 | 0.53 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 15 | 0.53 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 15 | 0.53 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 15 | 0.53 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 15 | 0.53 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 15 | 0.53 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 15 | 0.53 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 1 | 0.53 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 4 | 0.53 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 8 | 0.53 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 9 | 0.53 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 20 | 0.53 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 6 | 0.53 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 8 | 0.53 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 10 | 0.53 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 12 | 0.53 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 15 | 0.53 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 16 | 0.53 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 1 | 0.53 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 3 | 0.53 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 14 | 0.53 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 17 | 0.53 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 17 | 0.53 |
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 7 | 0.53 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 7 | 0.53 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 7 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 12 | 0.53 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 12 | 0.53 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 12 | 0.53 |
| (1,54) | 1:55:A:VAL:HB | 1:56:A:ARG:H | 13 | 0.53 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 6 | 0.53 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 6 | 0.53 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 10 | 0.53 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 10 | 0.53 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 6 | 0.53 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 8 | 0.53 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 12 | 0.53 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 13 | 0.53 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 16 | 0.53 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 20 | 0.53 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 3 | 0.53 |
| (4,130) | 1:90:A:ASN:CB | 1:35:A:GLU:H | 5 | 0.52 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB2 | 3 | 0.52 |
| (3,856) | 1:66:A:GLN:HE21 | 1:83:A:GLU:HB3 | 3 | 0.52 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB2 | 3 | 0.52 |
| (3,856) | 1:66:A:GLN:HE22 | 1:83:A:GLU:HB3 | 3 | 0.52 |
| (3,852) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 19 | 0.52 |
| (3,852) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 19 | 0.52 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 18 | 0.52 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 18 | 0.52 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 18 | 0.52 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 10 | 0.52 |
| (3,303) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 9 | 0.52 |
| (3,303) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 9 | 0.52 |
| (3,303) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 9 | 0.52 |
| (3,303) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 14 | 0.52 |
| (3,303) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 14 | 0.52 |
| (3,303) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 14 | 0.52 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 13 | 0.52 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 9 | 0.52 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 9 | 0.52 |
| (3,21) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 3 | 0.52 |
| (3,21) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 3 | 0.52 |
| (3,21) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 3 | 0.52 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 3 | 0.52 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 3 | 0.52 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 7 | 0.52 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 7 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 7 | 0.52 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 7 | 0.52 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 7 | 0.52 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 7 | 0.52 |
| (1,9427) | 1:128:A:GLY:HA2 | 1:129:A:GLN:HA | 10 | 0.52 |
| (1,9427) | 1:128:A:GLY:HA3 | 1:129:A:GLN:HA | 10 | 0.52 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 4 | 0.52 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 4 | 0.52 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 17 | 0.52 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 17 | 0.52 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 17 | 0.52 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 17 | 0.52 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 17 | 0.52 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 17 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 19 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 19 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 19 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 19 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 19 | 0.52 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 19 | 0.52 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 16 | 0.52 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 16 | 0.52 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 16 | 0.52 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 16 | 0.52 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 16 | 0.52 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 16 | 0.52 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 17 | 0.52 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 17 | 0.52 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 10 | 0.52 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 10 | 0.52 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 9 | 0.52 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 9 | 0.52 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 3 | 0.52 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 3 | 0.52 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 6 | 0.52 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 6 | 0.52 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 6 | 0.52 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 6 | 0.52 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 6 | 0.52 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 6 | 0.52 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 7 | 0.52 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 17 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 3 | 0.52 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 7 | 0.52 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 20 | 0.52 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 20 | 0.52 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 12 | 0.52 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 12 | 0.52 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 3 | 0.52 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 3 | 0.52 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 3 | 0.52 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 2 | 0.52 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 2 | 0.52 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 2 | 0.52 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 18 | 0.52 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 14 | 0.52 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 15 | 0.52 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 1 | 0.52 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 19 | 0.52 |
| (1,7010) | 1:37:A:PRO:HA | 1:38:A:SER:H | 10 | 0.52 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 2 | 0.52 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 9 | 0.52 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 10 | 0.52 |
| (1,6987) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 10 | 0.52 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 8 | 0.52 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 19 | 0.52 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 11 | 0.52 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 18 | 0.52 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 5 | 0.52 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 11 | 0.52 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 11 | 0.52 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 11 | 0.52 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 14 | 0.52 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 17 | 0.52 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 18 | 0.52 |
| (1,6658) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 9 | 0.52 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 4 | 0.52 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 4 | 0.52 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 4 | 0.52 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 4 | 0.52 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 4 | 0.52 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 4 | 0.52 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 15 | 0.52 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 20 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 9 | 0.52 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 1 | 0.52 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 8 | 0.52 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 5 | 0.52 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 11 | 0.52 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 8 | 0.52 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 2 | 0.52 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 2 | 0.52 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 2 | 0.52 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 2 | 0.52 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 2 | 0.52 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 2 | 0.52 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 2 | 0.52 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 2 | 0.52 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 2 | 0.52 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 19 | 0.52 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 19 | 0.52 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 19 | 0.52 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 19 | 0.52 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 19 | 0.52 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 19 | 0.52 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 19 | 0.52 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 19 | 0.52 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 19 | 0.52 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 18 | 0.52 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 1 | 0.52 |
| (1,6196) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 20 | 0.52 |
| (1,6196) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 20 | 0.52 |
| (1,6196) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 20 | 0.52 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 3 | 0.52 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 17 | 0.52 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 13 | 0.52 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 13 | 0.52 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 2 | 0.52 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 17 | 0.52 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 10 | 0.52 |
| (1,5797) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 1 | 0.52 |
| (1,5797) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 1 | 0.52 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 12 | 0.52 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 12 | 0.52 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 12 | 0.52 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 4 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 4 | 0.52 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 13 | 0.52 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 5 | 0.52 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 5 | 0.52 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 5 | 0.52 |
| (1,5486) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 2 | 0.52 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 2 | 0.52 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 6 | 0.52 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 7 | 0.52 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 12 | 0.52 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 7 | 0.52 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 7 | 0.52 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 7 | 0.52 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 7 | 0.52 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 20 | 0.52 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 20 | 0.52 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 20 | 0.52 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 16 | 0.52 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 9 | 0.52 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 9 | 0.52 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 19 | 0.52 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 10 | 0.52 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 10 | 0.52 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 10 | 0.52 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 3 | 0.52 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 3 | 0.52 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 8 | 0.52 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 8 | 0.52 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 1 | 0.52 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 1 | 0.52 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 19 | 0.52 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 20 | 0.52 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 13 | 0.52 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 13 | 0.52 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 2 | 0.52 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 15 | 0.52 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 12 | 0.52 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 12 | 0.52 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 12 | 0.52 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 19 | 0.52 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 10 | 0.52 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 10 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 10 | 0.52 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 10 | 0.52 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 10 | 0.52 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 10 | 0.52 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 10 | 0.52 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 10 | 0.52 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 10 | 0.52 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 6 | 0.52 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 6 | 0.52 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 6 | 0.52 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 15 | 0.52 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 1 | 0.52 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 4 | 0.52 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 9 | 0.52 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 10 | 0.52 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 6 | 0.52 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 6 | 0.52 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 1 | 0.52 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 1 | 0.52 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 14 | 0.52 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 14 | 0.52 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 6 | 0.52 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 6 | 0.52 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 8 | 0.52 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 8 | 0.52 |
| (1,4379) | 1:122:A:LEU:HB3 | 1:123:A:GLY:H | 1 | 0.52 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 18 | 0.52 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 18 | 0.52 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 18 | 0.52 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 18 | 0.52 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 11 | 0.52 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 11 | 0.52 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 2 | 0.52 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 2 | 0.52 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 2 | 0.52 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 2 | 0.52 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 2 | 0.52 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 2 | 0.52 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 6 | 0.52 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 6 | 0.52 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 6 | 0.52 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 6 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 6 | 0.52 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 6 | 0.52 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 3 | 0.52 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 3 | 0.52 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 3 | 0.52 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 3 | 0.52 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 3 | 0.52 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 3 | 0.52 |
| (1,3747) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 2 | 0.52 |
| (1,3747) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 2 | 0.52 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 5 | 0.52 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 5 | 0.52 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 5 | 0.52 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 5 | 0.52 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 5 | 0.52 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 5 | 0.52 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 16 | 0.52 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 16 | 0.52 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 9 | 0.52 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 9 | 0.52 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 16 | 0.52 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 16 | 0.52 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 8 | 0.52 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 8 | 0.52 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 19 | 0.52 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 19 | 0.52 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 15 | 0.52 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 15 | 0.52 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 15 | 0.52 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 15 | 0.52 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 15 | 0.52 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 15 | 0.52 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 20 | 0.52 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 20 | 0.52 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 8 | 0.52 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 8 | 0.52 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 8 | 0.52 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 8 | 0.52 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 8 | 0.52 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 8 | 0.52 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 8 | 0.52 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 8 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 8 | 0.52 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 3 | 0.52 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 3 | 0.52 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 3 | 0.52 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 19 | 0.52 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 14 | 0.52 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 14 | 0.52 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 14 | 0.52 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 6 | 0.52 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 18 | 0.52 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 20 | 0.52 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 10 | 0.52 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 6 | 0.52 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 6 | 0.52 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 6 | 0.52 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 10 | 0.52 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 10 | 0.52 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 10 | 0.52 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 14 | 0.52 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 14 | 0.52 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 14 | 0.52 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 4 | 0.52 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 4 | 0.52 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 4 | 0.52 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 13 | 0.52 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 20 | 0.52 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 15 | 0.52 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 13 | 0.52 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 4 | 0.52 |
| (1,2983) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 20 | 0.52 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 17 | 0.52 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 10 | 0.52 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 10 | 0.52 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 10 | 0.52 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 14 | 0.52 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 14 | 0.52 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 14 | 0.52 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 17 | 0.52 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 17 | 0.52 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 17 | 0.52 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 6 | 0.52 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 14 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 3 | 0.52 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 20 | 0.52 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 20 | 0.52 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 20 | 0.52 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 20 | 0.52 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 18 | 0.52 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 18 | 0.52 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 18 | 0.52 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 1 | 0.52 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 1 | 0.52 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 1 | 0.52 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 19 | 0.52 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 19 | 0.52 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 19 | 0.52 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 18 | 0.52 |
| (1,2543) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 9 | 0.52 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 2 | 0.52 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 2 | 0.52 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 4 | 0.52 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 4 | 0.52 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 7 | 0.52 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 7 | 0.52 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 2 | 0.52 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 20 | 0.52 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 11 | 0.52 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 8 | 0.52 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 15 | 0.52 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 1 | 0.52 |
| (1,2377) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 2 | 0.52 |
| (1,2377) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 2 | 0.52 |
| (1,2377) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 2 | 0.52 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 11 | 0.52 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 15 | 0.52 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 7 | 0.52 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 5 | 0.52 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 5 | 0.52 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 17 | 0.52 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 5 | 0.52 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 5 | 0.52 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 5 | 0.52 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 13 | 0.52 |
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 3 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2211) | 1:162:A:THR:H | 1:162:A:THR:HA | 6 | 0.52 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 8 | 0.52 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 3 | 0.52 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 3 | 0.52 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 3 | 0.52 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 3 | 0.52 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 3 | 0.52 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 3 | 0.52 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 3 | 0.52 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 3 | 0.52 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 3 | 0.52 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 6 | 0.52 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 18 | 0.52 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 18 | 0.52 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 18 | 0.52 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 20 | 0.52 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 20 | 0.52 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 20 | 0.52 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 3 | 0.52 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 8 | 0.52 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 12 | 0.52 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 12 | 0.52 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 3 | 0.52 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 4 | 0.52 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 4 | 0.52 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 4 | 0.52 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 16 | 0.52 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 16 | 0.52 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 16 | 0.52 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 6 | 0.52 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 19 | 0.52 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 1 | 0.52 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 6 | 0.52 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 19 | 0.52 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 17 | 0.52 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 17 | 0.52 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 2 | 0.52 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 4 | 0.52 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 5 | 0.52 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 7 | 0.52 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 13 | 0.52 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 8 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 11 | 0.52 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 19 | 0.52 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 19 | 0.52 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 19 | 0.52 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 10 | 0.52 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 16 | 0.52 |
| (1,1551) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 4 | 0.52 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 11 | 0.52 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 2 | 0.52 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 5 | 0.52 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 6 | 0.52 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 17 | 0.52 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 5 | 0.52 |
| (1,1379) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 19 | 0.52 |
| (1,1379) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 19 | 0.52 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 3 | 0.52 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 20 | 0.52 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 7 | 0.52 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 19 | 0.52 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 20 | 0.52 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 20 | 0.52 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 7 | 0.52 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 7 | 0.52 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 19 | 0.52 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 19 | 0.52 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 14 | 0.52 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 2 | 0.52 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 2 | 0.52 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 2 | 0.52 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 2 | 0.52 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 2 | 0.52 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 2 | 0.52 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 2 | 0.52 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 2 | 0.52 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 2 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 6 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 6 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 6 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 11 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 11 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 11 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 13 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 13 | 0.52 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 13 | 0.52 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD21 | 7 | 0.52 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD22 | 7 | 0.52 |
| (1,1281) | 1:122:A:LEU:HB2 | 1:122:A:LEU:HD23 | 7 | 0.52 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 16 | 0.52 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 19 | 0.52 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 20 | 0.52 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 4 | 0.52 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 4 | 0.52 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 6 | 0.52 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 6 | 0.52 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 7 | 0.52 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 10 | 0.52 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 11 | 0.52 |
| (1,1139) | 1:115:A:SER:H | 1:115:A:SER:HA | 12 | 0.52 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 7 | 0.52 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 7 | 0.52 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 2 | 0.52 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 8 | 0.52 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 2 | 0.52 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 6 | 0.52 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 4 | 0.52 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 4 | 0.52 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 4 | 0.52 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 20 | 0.52 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 20 | 0.52 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 20 | 0.52 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 7 | 0.52 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 8 | 0.52 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 8 | 0.52 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 8 | 0.52 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 19 | 0.52 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 19 | 0.52 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 19 | 0.52 |
| (1,639) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 13 | 0.52 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 3 | 0.52 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 2 | 0.52 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 6 | 0.52 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 13 | 0.52 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 13 | 0.52 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 13 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 13 | 0.52 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 13 | 0.52 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 13 | 0.52 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 7 | 0.52 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 7 | 0.52 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 7 | 0.52 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 15 | 0.52 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 15 | 0.52 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 5 | 0.52 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 5 | 0.52 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 5 | 0.52 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 5 | 0.52 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 5 | 0.52 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 5 | 0.52 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 12 | 0.52 |
| (1,423) | 1:87:A:GLU:H | 1:87:A:GLU:HA | 11 | 0.52 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 15 | 0.52 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 15 | 0.52 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 7 | 0.52 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 7 | 0.52 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 7 | 0.52 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 18 | 0.52 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 7 | 0.52 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 14 | 0.52 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 15 | 0.52 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 3 | 0.52 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 3 | 0.52 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 9 | 0.52 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 9 | 0.52 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 9 | 0.52 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 3 | 0.52 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 4 | 0.52 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 4 | 0.52 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 15 | 0.52 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 7 | 0.52 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 7 | 0.52 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 2 | 0.52 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 13 | 0.52 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 10 | 0.52 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 6 | 0.52 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 2 | 0.52 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 9 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 10 | 0.52 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 10 | 0.52 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 10 | 0.52 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 11 | 0.52 |
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 15 | 0.52 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 15 | 0.52 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 15 | 0.52 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 4 | 0.52 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 11 | 0.52 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 12 | 0.52 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 14 | 0.52 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 16 | 0.52 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 16 | 0.52 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 2 | 0.52 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 2 | 0.52 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 13 | 0.52 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 13 | 0.52 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 17 | 0.52 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 17 | 0.52 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 1 | 0.52 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 4 | 0.52 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 9 | 0.52 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 10 | 0.52 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 5 | 0.52 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 5 | 0.52 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 18 | 0.51 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 18 | 0.51 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 9 | 0.51 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 2 | 0.51 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 1 | 0.51 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 1 | 0.51 |
| (3,843) | 1:64:A:HIS:HB2 | 1:66:A:GLN:H | 16 | 0.51 |
| (3,843) | 1:64:A:HIS:HB3 | 1:66:A:GLN:H | 16 | 0.51 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 9 | 0.51 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 9 | 0.51 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG2 | 14 | 0.51 |
| (3,220) | 1:12:A:GLU:HG2 | 1:14:A:ARG:HG3 | 14 | 0.51 |
| (3,218) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG3 | 20 | 0.51 |
| (3,166) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG21 | 7 | 0.51 |
| (3,166) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG22 | 7 | 0.51 |
| (3,166) | 1:103:A:PHE:HD1 | 1:158:A:ILE:HG23 | 7 | 0.51 |
| (3,166) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG21 | 7 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,166) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG22 | 7 | 0.51 |
| (3,166) | 1:103:A:PHE:HD2 | 1:158:A:ILE:HG23 | 7 | 0.51 |
| (3,75) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 15 | 0.51 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 6 | 0.51 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 13 | 0.51 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 13 | 0.51 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 16 | 0.51 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 16 | 0.51 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 16 | 0.51 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 6 | 0.51 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 6 | 0.51 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 6 | 0.51 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 15 | 0.51 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 15 | 0.51 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 11 | 0.51 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 11 | 0.51 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 11 | 0.51 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 11 | 0.51 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 11 | 0.51 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 11 | 0.51 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 13 | 0.51 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 13 | 0.51 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 11 | 0.51 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 11 | 0.51 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 11 | 0.51 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 11 | 0.51 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 11 | 0.51 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 11 | 0.51 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 9 | 0.51 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 9 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 2 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 2 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 2 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 2 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 2 | 0.51 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 2 | 0.51 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 18 | 0.51 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 18 | 0.51 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 10 | 0.51 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 10 | 0.51 |
| (1,8868) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 15 | 0.51 |
| (1,8868) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 15 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 18 | 0.51 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 18 | 0.51 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 18 | 0.51 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 18 | 0.51 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 6 | 0.51 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 6 | 0.51 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 14 | 0.51 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 14 | 0.51 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 14 | 0.51 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 14 | 0.51 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 19 | 0.51 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 19 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 4 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 4 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 4 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 4 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 4 | 0.51 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 4 | 0.51 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 17 | 0.51 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 17 | 0.51 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 11 | 0.51 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 11 | 0.51 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 16 | 0.51 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 16 | 0.51 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 20 | 0.51 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 20 | 0.51 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 4 | 0.51 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 4 | 0.51 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 3 | 0.51 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 20 | 0.51 |
| (1,7900) | 1:67:A:SER:HB2 | 1:69:A:ARG:H | 18 | 0.51 |
| (1,7900) | 1:67:A:SER:HB3 | 1:69:A:ARG:H | 18 | 0.51 |
| (1,7705) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 7 | 0.51 |
| (1,7705) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 7 | 0.51 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 9 | 0.51 |
| (1,7694) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 5 | 0.51 |
| (1,7694) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 5 | 0.51 |
| (1,7694) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 11 | 0.51 |
| (1,7694) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 11 | 0.51 |
| (1,7482) | 1:13:A:LYS:HA | 1:14:A:ARG:H | 11 | 0.51 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 5 | 0.51 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 2 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 4 | 0.51 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 16 | 0.51 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 8 | 0.51 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 8 | 0.51 |
| (1,7304) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 12 | 0.51 |
| (1,7273) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 1 | 0.51 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 13 | 0.51 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 18 | 0.51 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 3 | 0.51 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 2 | 0.51 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 14 | 0.51 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 14 | 0.51 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 4 | 0.51 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 4 | 0.51 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 11 | 0.51 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 11 | 0.51 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 14 | 0.51 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 14 | 0.51 |
| (1,7023) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 18 | 0.51 |
| (1,7023) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 18 | 0.51 |
| (1,7023) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 18 | 0.51 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 3 | 0.51 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 6 | 0.51 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 12 | 0.51 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 20 | 0.51 |
| (1,6929) | 1:32:A:SER:HA | 1:33:A:GLN:H | 11 | 0.51 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 10 | 0.51 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 10 | 0.51 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 10 | 0.51 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 1 | 0.51 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 8 | 0.51 |
| (1,6829) | 1:26:A:ASN:HA | 1:31:A:ALA:H | 12 | 0.51 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 15 | 0.51 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 17 | 0.51 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 19 | 0.51 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 7 | 0.51 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 13 | 0.51 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 4 | 0.51 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 17 | 0.51 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 1 | 0.51 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 18 | 0.51 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 12 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 14 | 0.51 |
| (1,6674) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 7 | 0.51 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 6 | 0.51 |
| (1,6588) | 1:11:A:TRP:HB2 | 1:11:A:TRP:HD1 | 15 | 0.51 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 3 | 0.51 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 16 | 0.51 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 10 | 0.51 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 19 | 0.51 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 10 | 0.51 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 10 | 0.51 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 10 | 0.51 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 10 | 0.51 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 10 | 0.51 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 10 | 0.51 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 10 | 0.51 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 10 | 0.51 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 10 | 0.51 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 11 | 0.51 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 11 | 0.51 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 11 | 0.51 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 4 | 0.51 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 0.51 |
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 11 | 0.51 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 17 | 0.51 |
| (1,6196) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 8 | 0.51 |
| (1,6196) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 8 | 0.51 |
| (1,6196) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 8 | 0.51 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 14 | 0.51 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 14 | 0.51 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 13 | 0.51 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 2 | 0.51 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 2 | 0.51 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 2 | 0.51 |
| (1,6151) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 2 | 0.51 |
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 7 | 0.51 |
| (1,5979) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 12 | 0.51 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 6 | 0.51 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 20 | 0.51 |
| (1,5797) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 14 | 0.51 |
| (1,5797) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 14 | 0.51 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 14 | 0.51 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 11 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 11 | 0.51 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 5 | 0.51 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 8 | 0.51 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 13 | 0.51 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 15 | 0.51 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 19 | 0.51 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 3 | 0.51 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 7 | 0.51 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 13 | 0.51 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 7 | 0.51 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 1 | 0.51 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 10 | 0.51 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 3 | 0.51 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 17 | 0.51 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 17 | 0.51 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 17 | 0.51 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 11 | 0.51 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 11 | 0.51 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 5 | 0.51 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 5 | 0.51 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 6 | 0.51 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 6 | 0.51 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 5 | 0.51 |
| (1,5006) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 5 | 0.51 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 12 | 0.51 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 14 | 0.51 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 4 | 0.51 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 15 | 0.51 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 3 | 0.51 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 3 | 0.51 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 19 | 0.51 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 19 | 0.51 |
| (1,4933) | 1:65:A:SER:HA | 1:67:A:SER:H | 16 | 0.51 |
| (1,4927) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 7 | 0.51 |
| (1,4927) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 9 | 0.51 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 19 | 0.51 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 11 | 0.51 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 11 | 0.51 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 11 | 0.51 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 11 | 0.51 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 11 | 0.51 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 11 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4869) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 6 | 0.51 |
| (1,4869) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 6 | 0.51 |
| (1,4869) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 6 | 0.51 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 8 | 0.51 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 17 | 0.51 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 16 | 0.51 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 14 | 0.51 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 6 | 0.51 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 6 | 0.51 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 9 | 0.51 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 9 | 0.51 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 20 | 0.51 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 20 | 0.51 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 10 | 0.51 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 10 | 0.51 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 11 | 0.51 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 11 | 0.51 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 12 | 0.51 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 12 | 0.51 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 20 | 0.51 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 0.51 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 14 | 0.51 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 14 | 0.51 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 14 | 0.51 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 14 | 0.51 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 14 | 0.51 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 14 | 0.51 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 12 | 0.51 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 12 | 0.51 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 12 | 0.51 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 12 | 0.51 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 12 | 0.51 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 12 | 0.51 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 12 | 0.51 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 12 | 0.51 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 12 | 0.51 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 13 | 0.51 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 13 | 0.51 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 3 | 0.51 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 3 | 0.51 |
| (1,3955) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 13 | 0.51 |
| (1,3955) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 13 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 4 | 0.51 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 17 | 0.51 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 17 | 0.51 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG2 | 7 | 0.51 |
| (1,3735) | 1:56:A:ARG:H | 1:56:A:ARG:HG3 | 7 | 0.51 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 7 | 0.51 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 7 | 0.51 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 5 | 0.51 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 5 | 0.51 |
| (1,3521) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 9 | 0.51 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 14 | 0.51 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 14 | 0.51 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 14 | 0.51 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 10 | 0.51 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 8 | 0.51 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 19 | 0.51 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 2 | 0.51 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 9 | 0.51 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 12 | 0.51 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 13 | 0.51 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 19 | 0.51 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 7 | 0.51 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 7 | 0.51 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 7 | 0.51 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 9 | 0.51 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 9 | 0.51 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 9 | 0.51 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 18 | 0.51 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 18 | 0.51 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 18 | 0.51 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 10 | 0.51 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 10 | 0.51 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 18 | 0.51 |
| (1,3237) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 3 | 0.51 |
| (1,3237) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 3 | 0.51 |
| (1,3237) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 3 | 0.51 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 12 | 0.51 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 12 | 0.51 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 12 | 0.51 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 3 | 0.51 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 1 | 0.51 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 11 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 11 | 0.51 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 12 | 0.51 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 20 | 0.51 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 8 | 0.51 |
| (1,2945) | 1:32:A:SER:HA | 1:33:A:GLN:H | 11 | 0.51 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 3 | 0.51 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 20 | 0.51 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 19 | 0.51 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 16 | 0.51 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 15 | 0.51 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 5 | 0.51 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 5 | 0.51 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 5 | 0.51 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 15 | 0.51 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 17 | 0.51 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 19 | 0.51 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 13 | 0.51 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 12 | 0.51 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 14 | 0.51 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 12 | 0.51 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 12 | 0.51 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 6 | 0.51 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 6 | 0.51 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 6 | 0.51 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 6 | 0.51 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 6 | 0.51 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 6 | 0.51 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 13 | 0.51 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 13 | 0.51 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 13 | 0.51 |
| (1,2607) | 1:16:A:SER:H | 1:22:A:VAL:H | 20 | 0.51 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 1 | 0.51 |
| (1,2561) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 7 | 0.51 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 13 | 0.51 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 1 | 0.51 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 7 | 0.51 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 7 | 0.51 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 7 | 0.51 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 18 | 0.51 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 18 | 0.51 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 16 | 0.51 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 16 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 16 | 0.51 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 9 | 0.51 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 3 | 0.51 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 10 | 0.51 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 12 | 0.51 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 15 | 0.51 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 12 | 0.51 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 2 | 0.51 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 16 | 0.51 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 9 | 0.51 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 13 | 0.51 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 19 | 0.51 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 19 | 0.51 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 19 | 0.51 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD11 | 18 | 0.51 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD12 | 18 | 0.51 |
| (1,2159) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD13 | 18 | 0.51 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 18 | 0.51 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 2 | 0.51 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 2 | 0.51 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 2 | 0.51 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 2 | 0.51 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 2 | 0.51 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 2 | 0.51 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 2 | 0.51 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 2 | 0.51 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 2 | 0.51 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 15 | 0.51 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 15 | 0.51 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 15 | 0.51 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 7 | 0.51 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 7 | 0.51 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 7 | 0.51 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 2 | 0.51 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 2 | 0.51 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 2 | 0.51 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 4 | 0.51 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 8 | 0.51 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 8 | 0.51 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 6 | 0.51 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 16 | 0.51 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 20 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 1 | 0.51 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 14 | 0.51 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 16 | 0.51 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 17 | 0.51 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 10 | 0.51 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 10 | 0.51 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 10 | 0.51 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 13 | 0.51 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 19 | 0.51 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 19 | 0.51 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 19 | 0.51 |
| (1,1749) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 2 | 0.51 |
| (1,1713) | 1:139:A:PHE:HA | 1:140:A:ALA:H | 13 | 0.51 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 5 | 0.51 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 7 | 0.51 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 4 | 0.51 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 4 | 0.51 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 10 | 0.51 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 10 | 0.51 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 6 | 0.51 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 15 | 0.51 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 7 | 0.51 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 12 | 0.51 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 14 | 0.51 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 3 | 0.51 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 18 | 0.51 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 14 | 0.51 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 6 | 0.51 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 18 | 0.51 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 8 | 0.51 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 8 | 0.51 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 17 | 0.51 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 4 | 0.51 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 10 | 0.51 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 9 | 0.51 |
| (1,1283) | 1:122:A:LEU:HB2 | 1:123:A:GLY:H | 3 | 0.51 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 14 | 0.51 |
| (1,1183) | 1:117:A:LYS:HA | 1:118:A:ALA:H | 4 | 0.51 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 14 | 0.51 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 12 | 0.51 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 17 | 0.51 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 3 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 9 | 0.51 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 9 | 0.51 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 9 | 0.51 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 3 | 0.51 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 5 | 0.51 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 5 | 0.51 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 5 | 0.51 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 5 | 0.51 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 5 | 0.51 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 5 | 0.51 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 8 | 0.51 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 6 | 0.51 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 6 | 0.51 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 6 | 0.51 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 2 | 0.51 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 9 | 0.51 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 9 | 0.51 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 12 | 0.51 |
| (1,705) | 1:96:A:ILE:HD11 | 1:97:A:LYS:H | 4 | 0.51 |
| (1,705) | 1:96:A:ILE:HD12 | 1:97:A:LYS:H | 4 | 0.51 |
| (1,705) | 1:96:A:ILE:HD13 | 1:97:A:LYS:H | 4 | 0.51 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 1 | 0.51 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 4 | 0.51 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 4 | 0.51 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 4 | 0.51 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 7 | 0.51 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 14 | 0.51 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 14 | 0.51 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 14 | 0.51 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 1 | 0.51 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 10 | 0.51 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 1 | 0.51 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 1 | 0.51 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 10 | 0.51 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 10 | 0.51 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 7 | 0.51 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 15 | 0.51 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 15 | 0.51 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 15 | 0.51 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 15 | 0.51 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 15 | 0.51 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 15 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 15 | 0.51 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 15 | 0.51 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 15 | 0.51 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 18 | 0.51 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 18 | 0.51 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 18 | 0.51 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 18 | 0.51 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 18 | 0.51 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 18 | 0.51 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 18 | 0.51 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 18 | 0.51 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 18 | 0.51 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 6 | 0.51 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 6 | 0.51 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 6 | 0.51 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 1 | 0.51 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 1 | 0.51 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 1 | 0.51 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 5 | 0.51 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 9 | 0.51 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 9 | 0.51 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 9 | 0.51 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 14 | 0.51 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 19 | 0.51 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 1 | 0.51 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 1 | 0.51 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 2 | 0.51 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 10 | 0.51 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 4 | 0.51 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 19 | 0.51 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 17 | 0.51 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 17 | 0.51 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 19 | 0.51 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 13 | 0.51 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 9 | 0.51 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 7 | 0.51 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 3 | 0.51 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 3 | 0.51 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 4 | 0.51 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 16 | 0.51 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 14 | 0.51 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 14 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 14 | 0.51 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 2 | 0.51 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 2 | 0.51 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 2 | 0.51 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 5 | 0.51 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 5 | 0.51 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 5 | 0.51 |
| (1,130) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 7 | 0.51 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 5 | 0.51 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 5 | 0.51 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 5 | 0.51 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 3 | 0.51 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 3 | 0.51 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 3 | 0.51 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 3 | 0.51 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 3 | 0.51 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 3 | 0.51 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 3 | 0.51 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 3 | 0.51 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 3 | 0.51 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 16 | 0.51 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 17 | 0.51 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 1 | 0.51 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 11 | 0.51 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 13 | 0.51 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 18 | 0.51 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 9 | 0.51 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 19 | 0.51 |
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 10 | 0.51 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 10 | 0.51 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 10 | 0.51 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 6 | 0.51 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 20 | 0.51 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 14 | 0.51 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 3 | 0.51 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 11 | 0.51 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 11 | 0.51 |
| (4,251) | 1:15:A:MET:CB | 1:145:A:GLU:H | 13 | 0.5 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 3 | 0.5 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 3 | 0.5 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 3 | 0.5 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 3 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 3 | 0.5 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 3 | 0.5 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 4 | 0.5 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 4 | 0.5 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 14 | 0.5 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 14 | 0.5 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 14 | 0.5 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 5 | 0.5 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 5 | 0.5 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 5 | 0.5 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 13 | 0.5 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 13 | 0.5 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 13 | 0.5 |
| (3,386) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 12 | 0.5 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 7 | 0.5 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 7 | 0.5 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 7 | 0.5 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 2 | 0.5 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 1 | 0.5 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 1 | 0.5 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 1 | 0.5 |
| (1,9593) | 1:156:A:ILE:H | 1:156:A:ILE:HG12 | 20 | 0.5 |
| (1,9593) | 1:156:A:ILE:H | 1:156:A:ILE:HG13 | 20 | 0.5 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 3 | 0.5 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 3 | 0.5 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 3 | 0.5 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 3 | 0.5 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 3 | 0.5 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 3 | 0.5 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 13 | 0.5 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 13 | 0.5 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 16 | 0.5 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 16 | 0.5 |
| (1,9195) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 14 | 0.5 |
| (1,9195) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 14 | 0.5 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 10 | 0.5 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 10 | 0.5 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 10 | 0.5 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 10 | 0.5 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 6 | 0.5 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 6 | 0.5 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 4 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 4 | 0.5 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 14 | 0.5 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 14 | 0.5 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 1 | 0.5 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 1 | 0.5 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 14 | 0.5 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 14 | 0.5 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 19 | 0.5 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 10 | 0.5 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 4 | 0.5 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 6 | 0.5 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 19 | 0.5 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 12 | 0.5 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 11 | 0.5 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 11 | 0.5 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 11 | 0.5 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 11 | 0.5 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 11 | 0.5 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 11 | 0.5 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 11 | 0.5 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 11 | 0.5 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 11 | 0.5 |
| (1,8004) | 1:82:A:LYS:H | 1:85:A:ALA:H | 8 | 0.5 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 18 | 0.5 |
| (1,7529) | 1:14:A:ARG:H | 1:24:A:TYR:H | 10 | 0.5 |
| (1,7487) | 1:13:A:LYS:H | 1:14:A:ARG:H | 20 | 0.5 |
| (1,7273) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 18 | 0.5 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 16 | 0.5 |
| (1,7215) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 16 | 0.5 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 16 | 0.5 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 5 | 0.5 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 7 | 0.5 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 15 | 0.5 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 5 | 0.5 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 16 | 0.5 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 16 | 0.5 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 16 | 0.5 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 17 | 0.5 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 14 | 0.5 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 10 | 0.5 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 13 | 0.5 |
| (1,6726) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 18 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 14 | 0.5 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 13 | 0.5 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 6 | 0.5 |
| (1,6532) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 12 | 0.5 |
| (1,6532) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 12 | 0.5 |
| (1,6532) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 12 | 0.5 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 7 | 0.5 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 7 | 0.5 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 7 | 0.5 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 11 | 0.5 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 20 | 0.5 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 20 | 0.5 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 20 | 0.5 |
| (1,6408) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 8 | 0.5 |
| (1,6340) | 1:154:A:SER:H | 1:155:A:GLY:H | 11 | 0.5 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 12 | 0.5 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE1 | 15 | 0.5 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE2 | 15 | 0.5 |
| (1,6250) | 1:93:A:ILE:HG13 | 1:146:A:MET:HE3 | 15 | 0.5 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 6 | 0.5 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 5 | 0.5 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 5 | 0.5 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 5 | 0.5 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 14 | 0.5 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 9 | 0.5 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 9 | 0.5 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 9 | 0.5 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 16 | 0.5 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 16 | 0.5 |
| (1,5979) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 18 | 0.5 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 8 | 0.5 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 13 | 0.5 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 8 | 0.5 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 10 | 0.5 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 10 | 0.5 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 17 | 0.5 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 17 | 0.5 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 4 | 0.5 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 20 | 0.5 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 13 | 0.5 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 13 | 0.5 |
| (1,5726) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 9 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5726) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 9 | 0.5 |
| (1,5726) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 9 | 0.5 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 4 | 0.5 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 14 | 0.5 |
| (1,5595) | 1:100:A:GLU:H | 1:101:A:GLU:H | 7 | 0.5 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 18 | 0.5 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 6 | 0.5 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 6 | 0.5 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 6 | 0.5 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 19 | 0.5 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 1 | 0.5 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 1 | 0.5 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 18 | 0.5 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 6 | 0.5 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 17 | 0.5 |
| (1,5364) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 6 | 0.5 |
| (1,5364) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 6 | 0.5 |
| (1,5364) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 6 | 0.5 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 16 | 0.5 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 16 | 0.5 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 16 | 0.5 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 2 | 0.5 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 7 | 0.5 |
| (1,5259) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 11 | 0.5 |
| (1,5217) | 1:83:A:GLU:H | 1:86:A:LEU:H | 11 | 0.5 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 2 | 0.5 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 6 | 0.5 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 18 | 0.5 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 3 | 0.5 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 3 | 0.5 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 3 | 0.5 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 3 | 0.5 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 3 | 0.5 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 17 | 0.5 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 16 | 0.5 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 16 | 0.5 |
| (1,4933) | 1:65:A:SER:HA | 1:67:A:SER:H | 18 | 0.5 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 9 | 0.5 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 9 | 0.5 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 9 | 0.5 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 3 | 0.5 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 5 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 10 | 0.5 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 13 | 0.5 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 13 | 0.5 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 13 | 0.5 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 12 | 0.5 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 3 | 0.5 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 3 | 0.5 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 3 | 0.5 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 6 | 0.5 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 6 | 0.5 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 6 | 0.5 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 11 | 0.5 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 2 | 0.5 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 3 | 0.5 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 5 | 0.5 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 10 | 0.5 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 11 | 0.5 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 11 | 0.5 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 12 | 0.5 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 12 | 0.5 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 12 | 0.5 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 12 | 0.5 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 12 | 0.5 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 12 | 0.5 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 11 | 0.5 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 11 | 0.5 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 7 | 0.5 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 16 | 0.5 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 7 | 0.5 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 7 | 0.5 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 7 | 0.5 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 7 | 0.5 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 7 | 0.5 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 7 | 0.5 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 17 | 0.5 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 17 | 0.5 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 8 | 0.5 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 8 | 0.5 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 12 | 0.5 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 12 | 0.5 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 9 | 0.5 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 9 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 12 | 0.5 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 12 | 0.5 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 11 | 0.5 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 11 | 0.5 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 9 | 0.5 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 9 | 0.5 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 9 | 0.5 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 9 | 0.5 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 9 | 0.5 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 9 | 0.5 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 16 | 0.5 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 16 | 0.5 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 11 | 0.5 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 11 | 0.5 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 16 | 0.5 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 11 | 0.5 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 16 | 0.5 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 16 | 0.5 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 16 | 0.5 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 16 | 0.5 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 16 | 0.5 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 16 | 0.5 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 3 | 0.5 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 4 | 0.5 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 14 | 0.5 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 15 | 0.5 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 17 | 0.5 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 14 | 0.5 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 13 | 0.5 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 5 | 0.5 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 20 | 0.5 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 5 | 0.5 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 6 | 0.5 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 10 | 0.5 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 6 | 0.5 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 6 | 0.5 |
| (1,2997) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 17 | 0.5 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 10 | 0.5 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 17 | 0.5 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 18 | 0.5 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 18 | 0.5 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 18 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 4 | 0.5 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 5 | 0.5 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 10 | 0.5 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 3 | 0.5 |
| (1,2859) | 1:28:A:ILE:HA | 1:28:A:ILE:HB | 6 | 0.5 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 6 | 0.5 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 1 | 0.5 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 1 | 0.5 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 1 | 0.5 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 5 | 0.5 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 14 | 0.5 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 14 | 0.5 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 14 | 0.5 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 13 | 0.5 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 18 | 0.5 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 1 | 0.5 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 20 | 0.5 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 20 | 0.5 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 20 | 0.5 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 20 | 0.5 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 20 | 0.5 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 20 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 12 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 12 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 12 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 12 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 12 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 12 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 20 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 20 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 20 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 20 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 20 | 0.5 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 20 | 0.5 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 12 | 0.5 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 12 | 0.5 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 7 | 0.5 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 7 | 0.5 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 10 | 0.5 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 10 | 0.5 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 10 | 0.5 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 17 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 17 | 0.5 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 17 | 0.5 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 9 | 0.5 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 12 | 0.5 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 14 | 0.5 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 14 | 0.5 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 14 | 0.5 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 5 | 0.5 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 0.5 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 5 | 0.5 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 13 | 0.5 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 9 | 0.5 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 9 | 0.5 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 9 | 0.5 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 2 | 0.5 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 2 | 0.5 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 2 | 0.5 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 16 | 0.5 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 18 | 0.5 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 6 | 0.5 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 6 | 0.5 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 6 | 0.5 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 14 | 0.5 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 14 | 0.5 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 14 | 0.5 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 11 | 0.5 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 20 | 0.5 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 20 | 0.5 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 20 | 0.5 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 12 | 0.5 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 16 | 0.5 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 6 | 0.5 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 6 | 0.5 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 6 | 0.5 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 3 | 0.5 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 11 | 0.5 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 12 | 0.5 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 12 | 0.5 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 12 | 0.5 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 17 | 0.5 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 17 | 0.5 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 17 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 14 | 0.5 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 14 | 0.5 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 14 | 0.5 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 8 | 0.5 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 8 | 0.5 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 15 | 0.5 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 15 | 0.5 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 18 | 0.5 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 18 | 0.5 |
| (1,1981) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 18 | 0.5 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 18 | 0.5 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 18 | 0.5 |
| (1,1981) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 18 | 0.5 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 18 | 0.5 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 18 | 0.5 |
| (1,1981) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 18 | 0.5 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 13 | 0.5 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 13 | 0.5 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 13 | 0.5 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 16 | 0.5 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 16 | 0.5 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 16 | 0.5 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 10 | 0.5 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 14 | 0.5 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 14 | 0.5 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 14 | 0.5 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 13 | 0.5 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 13 | 0.5 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 10 | 0.5 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 12 | 0.5 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 6 | 0.5 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 6 | 0.5 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 6 | 0.5 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 3 | 0.5 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 14 | 0.5 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 14 | 0.5 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 12 | 0.5 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 4 | 0.5 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 17 | 0.5 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 11 | 0.5 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 11 | 0.5 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 2 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 11 | 0.5 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 14 | 0.5 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 17 | 0.5 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 13 | 0.5 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 6 | 0.5 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 6 | 0.5 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 16 | 0.5 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 16 | 0.5 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 11 | 0.5 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 20 | 0.5 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 13 | 0.5 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 16 | 0.5 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 15 | 0.5 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 11 | 0.5 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 11 | 0.5 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 17 | 0.5 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 17 | 0.5 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 8 | 0.5 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD21 | 8 | 0.5 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD22 | 8 | 0.5 |
| (1,1289) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HD23 | 8 | 0.5 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 3 | 0.5 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 3 | 0.5 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 14 | 0.5 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 14 | 0.5 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 14 | 0.5 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 12 | 0.5 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 12 | 0.5 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 12 | 0.5 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 14 | 0.5 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 12 | 0.5 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 12 | 0.5 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 12 | 0.5 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 13 | 0.5 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 13 | 0.5 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 16 | 0.5 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 20 | 0.5 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 17 | 0.5 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 19 | 0.5 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 16 | 0.5 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 5 | 0.5 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 5 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 5 | 0.5 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 14 | 0.5 |
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 4 | 0.5 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 8 | 0.5 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 4 | 0.5 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 5 | 0.5 |
| (1,775) | 1:100:A:GLU:H | 1:101:A:GLU:H | 7 | 0.5 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 11 | 0.5 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 11 | 0.5 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 11 | 0.5 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 11 | 0.5 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 11 | 0.5 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 11 | 0.5 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 17 | 0.5 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 18 | 0.5 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 18 | 0.5 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 11 | 0.5 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 11 | 0.5 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 11 | 0.5 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 12 | 0.5 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 14 | 0.5 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 14 | 0.5 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 14 | 0.5 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 14 | 0.5 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 14 | 0.5 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 14 | 0.5 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 20 | 0.5 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 20 | 0.5 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 20 | 0.5 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 20 | 0.5 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 20 | 0.5 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 20 | 0.5 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 1 | 0.5 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 1 | 0.5 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 1 | 0.5 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 6 | 0.5 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 8 | 0.5 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 6 | 0.5 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 12 | 0.5 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 12 | 0.5 |
| (1,464) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 12 | 0.5 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 3 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 14 | 0.5 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 14 | 0.5 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 14 | 0.5 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 11 | 0.5 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 11 | 0.5 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 11 | 0.5 |
| (1,394) | 1:86:A:LEU:H | 1:88:A:LEU:H | 11 | 0.5 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 5 | 0.5 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 8 | 0.5 |
| (1,370) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 3 | 0.5 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 19 | 0.5 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 12 | 0.5 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 12 | 0.5 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 12 | 0.5 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 4 | 0.5 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 8 | 0.5 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 11 | 0.5 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 11 | 0.5 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 11 | 0.5 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 5 | 0.5 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 7 | 0.5 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 14 | 0.5 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 14 | 0.5 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 19 | 0.5 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 19 | 0.5 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 19 | 0.5 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 20 | 0.5 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 20 | 0.5 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 20 | 0.5 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 8 | 0.5 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 15 | 0.5 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 13 | 0.5 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 13 | 0.5 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 13 | 0.5 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 5 | 0.5 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 10 | 0.5 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 3 | 0.5 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 8 | 0.5 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 9 | 0.5 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 15 | 0.5 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 18 | 0.5 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 8 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 8 | 0.5 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 8 | 0.5 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 8 | 0.5 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 8 | 0.5 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 2 | 0.5 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 3 | 0.5 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 5 | 0.5 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 10 | 0.5 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 10 | 0.5 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 17 | 0.49 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 19 | 0.49 |
| (4,201) | 1:131:A:GLN:CB | 1:30:A:ASN:H | 16 | 0.49 |
| (4,151) | 1:98:A:SER:CB | 1:11:A:TRP:HE1 | 4 | 0.49 |
| (4,45) | 1:15:A:MET:CB | 1:98:A:SER:H | 20 | 0.49 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 13 | 0.49 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 13 | 0.49 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 13 | 0.49 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 13 | 0.49 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 11 | 0.49 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 11 | 0.49 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 8 | 0.49 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 8 | 0.49 |
| (3,619) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD1 | 9 | 0.49 |
| (3,619) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 9 | 0.49 |
| (3,619) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD1 | 9 | 0.49 |
| (3,619) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 9 | 0.49 |
| (3,619) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD1 | 9 | 0.49 |
| (3,619) | 1:122:A:LEU:HD23 | 1:125:A:PHE:HD2 | 9 | 0.49 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 18 | 0.49 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 18 | 0.49 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 18 | 0.49 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 6 | 0.49 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 6 | 0.49 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 6 | 0.49 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 4 | 0.49 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 4 | 0.49 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 4 | 0.49 |
| (3,355) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 6 | 0.49 |
| (3,335) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 7 | 0.49 |
| (3,335) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 7 | 0.49 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 11 | 0.49 |
| (3,214) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG21 | 13 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,214) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG22 | 13 | 0.49 |
| (3,214) | 1:11:A:TRP:HH2 | 1:29:A:THR:HG23 | 13 | 0.49 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 19 | 0.49 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 19 | 0.49 |
| (1,9505) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 11 | 0.49 |
| (1,9505) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 11 | 0.49 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 4 | 0.49 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 4 | 0.49 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 9 | 0.49 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 9 | 0.49 |
| (1,9353) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 7 | 0.49 |
| (1,9353) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 7 | 0.49 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 20 | 0.49 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 20 | 0.49 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 6 | 0.49 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 6 | 0.49 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 6 | 0.49 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 6 | 0.49 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 6 | 0.49 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 6 | 0.49 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 16 | 0.49 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 16 | 0.49 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 16 | 0.49 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 16 | 0.49 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 1 | 0.49 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 1 | 0.49 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 11 | 0.49 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 11 | 0.49 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 2 | 0.49 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 2 | 0.49 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 17 | 0.49 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 17 | 0.49 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 17 | 0.49 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 17 | 0.49 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 17 | 0.49 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 17 | 0.49 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 4 | 0.49 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 4 | 0.49 |
| (1,8351) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 5 | 0.49 |
| (1,8351) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 5 | 0.49 |
| (1,8351) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 5 | 0.49 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 14 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 14 | 0.49 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 19 | 0.49 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 19 | 0.49 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 14 | 0.49 |
| (1,7549) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 10 | 0.49 |
| (1,7549) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 16 | 0.49 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 17 | 0.49 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 10 | 0.49 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 20 | 0.49 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 20 | 0.49 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 20 | 0.49 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 7 | 0.49 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 10 | 0.49 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 19 | 0.49 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 10 | 0.49 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 20 | 0.49 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 20 | 0.49 |
| (1,7021) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 2 | 0.49 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 4 | 0.49 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 5 | 0.49 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 15 | 0.49 |
| (1,6805) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 5 | 0.49 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 19 | 0.49 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 4 | 0.49 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 11 | 0.49 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 15 | 0.49 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 3 | 0.49 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 9 | 0.49 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 9 | 0.49 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 15 | 0.49 |
| (1,6638) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 15 | 0.49 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 15 | 0.49 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 10 | 0.49 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 3 | 0.49 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 6 | 0.49 |
| (1,6408) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 18 | 0.49 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 2 | 0.49 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 5 | 0.49 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 5 | 0.49 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 5 | 0.49 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 7 | 0.49 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 2 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 2 | 0.49 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 2 | 0.49 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 13 | 0.49 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 13 | 0.49 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 4 | 0.49 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 5 | 0.49 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 3 | 0.49 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 1 | 0.49 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 2 | 0.49 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 2 | 0.49 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 11 | 0.49 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 11 | 0.49 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 18 | 0.49 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 19 | 0.49 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 19 | 0.49 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 10 | 0.49 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 10 | 0.49 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 10 | 0.49 |
| (1,5891) | 1:123:A:GLY:H | 1:124:A:ALA:H | 13 | 0.49 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 17 | 0.49 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 3 | 0.49 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 1 | 0.49 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 7 | 0.49 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 7 | 0.49 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 7 | 0.49 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 7 | 0.49 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 7 | 0.49 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 7 | 0.49 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 3 | 0.49 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 15 | 0.49 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 2 | 0.49 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 10 | 0.49 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 5 | 0.49 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 14 | 0.49 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 15 | 0.49 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 3 | 0.49 |
| (1,5524) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 1 | 0.49 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 4 | 0.49 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 4 | 0.49 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 4 | 0.49 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 3 | 0.49 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 9 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 20 | 0.49 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 17 | 0.49 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 2 | 0.49 |
| (1,5239) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 13 | 0.49 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 3 | 0.49 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 3 | 0.49 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 3 | 0.49 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 4 | 0.49 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 19 | 0.49 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 19 | 0.49 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 19 | 0.49 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 7 | 0.49 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 12 | 0.49 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 6 | 0.49 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 15 | 0.49 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 20 | 0.49 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 20 | 0.49 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 11 | 0.49 |
| (1,5006) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 9 | 0.49 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 19 | 0.49 |
| (1,4879) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 13 | 0.49 |
| (1,4879) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 13 | 0.49 |
| (1,4879) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 13 | 0.49 |
| (1,4879) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 13 | 0.49 |
| (1,4879) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 13 | 0.49 |
| (1,4879) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 13 | 0.49 |
| (1,4879) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 13 | 0.49 |
| (1,4879) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 13 | 0.49 |
| (1,4879) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 13 | 0.49 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 11 | 0.49 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 11 | 0.49 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 11 | 0.49 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 14 | 0.49 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 20 | 0.49 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 20 | 0.49 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 20 | 0.49 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 10 | 0.49 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 10 | 0.49 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 10 | 0.49 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 17 | 0.49 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 18 | 0.49 |
| (1,4635) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 8 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 18 | 0.49 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 18 | 0.49 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 8 | 0.49 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 8 | 0.49 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 8 | 0.49 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 8 | 0.49 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 8 | 0.49 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 8 | 0.49 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 4 | 0.49 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 4 | 0.49 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 4 | 0.49 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 4 | 0.49 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 13 | 0.49 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 13 | 0.49 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 13 | 0.49 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 19 | 0.49 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 19 | 0.49 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 7 | 0.49 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 7 | 0.49 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 14 | 0.49 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 14 | 0.49 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 9 | 0.49 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 9 | 0.49 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 2 | 0.49 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 2 | 0.49 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 9 | 0.49 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 9 | 0.49 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 9 | 0.49 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 9 | 0.49 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 9 | 0.49 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 9 | 0.49 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 14 | 0.49 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 14 | 0.49 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 15 | 0.49 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 15 | 0.49 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 2 | 0.49 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 5 | 0.49 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 5 | 0.49 |
| (1,3369) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 5 | 0.49 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 6 | 0.49 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 6 | 0.49 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 6 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 1 | 0.49 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 15 | 0.49 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 3 | 0.49 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 3 | 0.49 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 3 | 0.49 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 16 | 0.49 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 16 | 0.49 |
| (1,3263) | 1:96:A:ILE:HG21 | 1:97:A:LYS:HA | 19 | 0.49 |
| (1,3263) | 1:96:A:ILE:HG22 | 1:97:A:LYS:HA | 19 | 0.49 |
| (1,3263) | 1:96:A:ILE:HG23 | 1:97:A:LYS:HA | 19 | 0.49 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 8 | 0.49 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 11 | 0.49 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 1 | 0.49 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 1 | 0.49 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 10 | 0.49 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 10 | 0.49 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 10 | 0.49 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 9 | 0.49 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 15 | 0.49 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 8 | 0.49 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 8 | 0.49 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 12 | 0.49 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 12 | 0.49 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 16 | 0.49 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 16 | 0.49 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 17 | 0.49 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 18 | 0.49 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 18 | 0.49 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 18 | 0.49 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 17 | 0.49 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 12 | 0.49 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 12 | 0.49 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 12 | 0.49 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 19 | 0.49 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 19 | 0.49 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 19 | 0.49 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 8 | 0.49 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 8 | 0.49 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 8 | 0.49 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 8 | 0.49 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 8 | 0.49 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 8 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 12 | 0.49 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 12 | 0.49 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 12 | 0.49 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 12 | 0.49 |
| (1,2733) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 16 | 0.49 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 18 | 0.49 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 2 | 0.49 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 8 | 0.49 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 9 | 0.49 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 13 | 0.49 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 18 | 0.49 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 13 | 0.49 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 13 | 0.49 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 13 | 0.49 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 1 | 0.49 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 1 | 0.49 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 6 | 0.49 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 6 | 0.49 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 18 | 0.49 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 18 | 0.49 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 10 | 0.49 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 1 | 0.49 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 14 | 0.49 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 7 | 0.49 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 20 | 0.49 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 10 | 0.49 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 10 | 0.49 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 10 | 0.49 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 6 | 0.49 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 11 | 0.49 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 13 | 0.49 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 13 | 0.49 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 13 | 0.49 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 4 | 0.49 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 4 | 0.49 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 4 | 0.49 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 12 | 0.49 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 12 | 0.49 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 12 | 0.49 |
| (1,2009) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 13 | 0.49 |
| (1,2009) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 13 | 0.49 |
| (1,2009) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 13 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 5 | 0.49 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 18 | 0.49 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 18 | 0.49 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 1 | 0.49 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 1 | 0.49 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 1 | 0.49 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 13 | 0.49 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 1 | 0.49 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 2 | 0.49 |
| (1,1877) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 16 | 0.49 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 7 | 0.49 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 9 | 0.49 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 8 | 0.49 |
| (1,1735) | 1:140:A:ALA:H | 1:140:A:ALA:HA | 12 | 0.49 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 17 | 0.49 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 4 | 0.49 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 10 | 0.49 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 14 | 0.49 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 10 | 0.49 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 1 | 0.49 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 7 | 0.49 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 10 | 0.49 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 13 | 0.49 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 9 | 0.49 |
| (1,1607) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 0.49 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 7 | 0.49 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 7 | 0.49 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 7 | 0.49 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 17 | 0.49 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 14 | 0.49 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 11 | 0.49 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 11 | 0.49 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 11 | 0.49 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 17 | 0.49 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 17 | 0.49 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 17 | 0.49 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 10 | 0.49 |
| (1,1417) | 1:127:A:ARG:H | 1:127:A:ARG:HD2 | 1 | 0.49 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 8 | 0.49 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 20 | 0.49 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 20 | 0.49 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 20 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 11 | 0.49 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 11 | 0.49 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 11 | 0.49 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 11 | 0.49 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 15 | 0.49 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 15 | 0.49 |
| (1,1325) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 1 | 0.49 |
| (1,1325) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 1 | 0.49 |
| (1,1305) | 1:123:A:GLY:H | 1:124:A:ALA:H | 13 | 0.49 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 5 | 0.49 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 15 | 0.49 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 5 | 0.49 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 5 | 0.49 |
| (1,1227) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 13 | 0.49 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 17 | 0.49 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 13 | 0.49 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 13 | 0.49 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 3 | 0.49 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 17 | 0.49 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 17 | 0.49 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 7 | 0.49 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 4 | 0.49 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 5 | 0.49 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 10 | 0.49 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 12 | 0.49 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 6 | 0.49 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 15 | 0.49 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 10 | 0.49 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 10 | 0.49 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 10 | 0.49 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 7 | 0.49 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 15 | 0.49 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 15 | 0.49 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 15 | 0.49 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 10 | 0.49 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 5 | 0.49 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 14 | 0.49 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 15 | 0.49 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 2 | 0.49 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 20 | 0.49 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 3 | 0.49 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 11 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 20 | 0.49 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 20 | 0.49 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 7 | 0.49 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 2 | 0.49 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 2 | 0.49 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 2 | 0.49 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 2 | 0.49 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 2 | 0.49 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 2 | 0.49 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 18 | 0.49 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 6 | 0.49 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 6 | 0.49 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 6 | 0.49 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 6 | 0.49 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 6 | 0.49 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 6 | 0.49 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 6 | 0.49 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 6 | 0.49 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 6 | 0.49 |
| (1,679) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 1 | 0.49 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 11 | 0.49 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 11 | 0.49 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 11 | 0.49 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 11 | 0.49 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 15 | 0.49 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 15 | 0.49 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 15 | 0.49 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 15 | 0.49 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 15 | 0.49 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 15 | 0.49 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 12 | 0.49 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 12 | 0.49 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 12 | 0.49 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 15 | 0.49 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 15 | 0.49 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 15 | 0.49 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 20 | 0.49 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 9 | 0.49 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 3 | 0.49 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 9 | 0.49 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 20 | 0.49 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 17 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 17 | 0.49 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 17 | 0.49 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 6 | 0.49 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 10 | 0.49 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 3 | 0.49 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 13 | 0.49 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 6 | 0.49 |
| (1,365) | 1:84:A:GLU:H | 1:84:A:GLU:HA | 16 | 0.49 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 10 | 0.49 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 10 | 0.49 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 14 | 0.49 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 18 | 0.49 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 14 | 0.49 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 16 | 0.49 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 7 | 0.49 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 12 | 0.49 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 3 | 0.49 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 3 | 0.49 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 3 | 0.49 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 20 | 0.49 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 20 | 0.49 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 20 | 0.49 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 20 | 0.49 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 20 | 0.49 |
| (1,284) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 20 | 0.49 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 1 | 0.49 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 3 | 0.49 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 3 | 0.49 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 3 | 0.49 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 10 | 0.49 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 10 | 0.49 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 10 | 0.49 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 12 | 0.49 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 16 | 0.49 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 15 | 0.49 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 20 | 0.49 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 1 | 0.49 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 1 | 0.49 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 1 | 0.49 |
| (1,246) | 1:75:A:GLN:HA | 1:75:A:GLN:HB3 | 4 | 0.49 |
| (1,246) | 1:75:A:GLN:HA | 1:75:A:GLN:HB3 | 9 | 0.49 |
| (1,246) | 1:75:A:GLN:HA | 1:75:A:GLN:HB3 | 11 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,246) | 1:75:A:GLN:HA | 1:75:A:GLN:HB3 | 14 | 0.49 |
| (1,242) | 1:75:A:GLN:HA | 1:75:A:GLN:HB2 | 6 | 0.49 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 1 | 0.49 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 18 | 0.49 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 3 | 0.49 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 9 | 0.49 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 9 | 0.49 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 9 | 0.49 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 5 | 0.49 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 5 | 0.49 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 5 | 0.49 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 3 | 0.49 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 18 | 0.49 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 7 | 0.49 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 8 | 0.49 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 8 | 0.49 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 8 | 0.49 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 1 | 0.49 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 2 | 0.49 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 3 | 0.49 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 7 | 0.49 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 16 | 0.49 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 4 | 0.49 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 4 | 0.49 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 17 | 0.49 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 18 | 0.49 |
| (1,14) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 8 | 0.49 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 20 | 0.48 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 20 | 0.48 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 20 | 0.48 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 20 | 0.48 |
| (3,769) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 1 | 0.48 |
| (3,769) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 1 | 0.48 |
| (3,769) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 1 | 0.48 |
| (3,769) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 1 | 0.48 |
| (3,769) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 1 | 0.48 |
| (3,769) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 1 | 0.48 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 13 | 0.48 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 13 | 0.48 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 13 | 0.48 |
| (3,449) | 1:71:A:SER:H | 1:78:A:ILE:H | 1 | 0.48 |
| (3,387) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 12 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,360) | 1:57:A:CYS:HA | 1:163:A:GLU:H | 19 | 0.48 |
| (3,303) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 6 | 0.48 |
| (3,303) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 6 | 0.48 |
| (3,303) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 6 | 0.48 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 6 | 0.48 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 6 | 0.48 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 2 | 0.48 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 6 | 0.48 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 20 | 0.48 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 6 | 0.48 |
| (3,155) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 16 | 0.48 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 7 | 0.48 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 7 | 0.48 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 7 | 0.48 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 19 | 0.48 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 19 | 0.48 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 6 | 0.48 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 6 | 0.48 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 8 | 0.48 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 8 | 0.48 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 8 | 0.48 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 8 | 0.48 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 8 | 0.48 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 8 | 0.48 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 8 | 0.48 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 8 | 0.48 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 5 | 0.48 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 5 | 0.48 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 12 | 0.48 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 12 | 0.48 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 13 | 0.48 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 13 | 0.48 |
| (1,9336) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 18 | 0.48 |
| (1,9336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 18 | 0.48 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 14 | 0.48 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 14 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 6 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 6 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 6 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 6 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 6 | 0.48 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 6 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 4 | 0.48 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 4 | 0.48 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 11 | 0.48 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 11 | 0.48 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 8 | 0.48 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 8 | 0.48 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 15 | 0.48 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 15 | 0.48 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 9 | 0.48 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 9 | 0.48 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 2 | 0.48 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 2 | 0.48 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 9 | 0.48 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 9 | 0.48 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 1 | 0.48 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 16 | 0.48 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 18 | 0.48 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 5 | 0.48 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 18 | 0.48 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 11 | 0.48 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 12 | 0.48 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 12 | 0.48 |
| (1,7332) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 18 | 0.48 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 3 | 0.48 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 5 | 0.48 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 9 | 0.48 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 15 | 0.48 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 15 | 0.48 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 15 | 0.48 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 17 | 0.48 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 2 | 0.48 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 7 | 0.48 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 7 | 0.48 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 18 | 0.48 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 18 | 0.48 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 9 | 0.48 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 5 | 0.48 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 5 | 0.48 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 5 | 0.48 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG21 | 13 | 0.48 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG22 | 13 | 0.48 |
| (1,6881) | 1:28:A:ILE:HB | 1:29:A:THR:HG23 | 13 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 6 | 0.48 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 6 | 0.48 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 6 | 0.48 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 17 | 0.48 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 17 | 0.48 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 17 | 0.48 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 2 | 0.48 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 13 | 0.48 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 9 | 0.48 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 12 | 0.48 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 5 | 0.48 |
| (1,6530) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 18 | 0.48 |
| (1,6530) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 18 | 0.48 |
| (1,6530) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 18 | 0.48 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 12 | 0.48 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 20 | 0.48 |
| (1,6340) | 1:154:A:SER:H | 1:155:A:GLY:H | 1 | 0.48 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 14 | 0.48 |
| (1,6289) | 1:150:A:VAL:H | 1:157:A:HIS:H | 2 | 0.48 |
| (1,6289) | 1:150:A:VAL:H | 1:157:A:HIS:H | 12 | 0.48 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 11 | 0.48 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 17 | 0.48 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 3 | 0.48 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 12 | 0.48 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 12 | 0.48 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 1 | 0.48 |
| (1,6176) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 1 | 0.48 |
| (1,6135) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 11 | 0.48 |
| (1,6135) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 11 | 0.48 |
| (1,6135) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 11 | 0.48 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 14 | 0.48 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 14 | 0.48 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 14 | 0.48 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 14 | 0.48 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 14 | 0.48 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 14 | 0.48 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 14 | 0.48 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 14 | 0.48 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 14 | 0.48 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 11 | 0.48 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 11 | 0.48 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 11 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 20 | 0.48 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 2 | 0.48 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 12 | 0.48 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 17 | 0.48 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 2 | 0.48 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 2 | 0.48 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 11 | 0.48 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 8 | 0.48 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 3 | 0.48 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 19 | 0.48 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 1 | 0.48 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 3 | 0.48 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 7 | 0.48 |
| (1,5625) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 11 | 0.48 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 18 | 0.48 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 19 | 0.48 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 2 | 0.48 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 2 | 0.48 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 10 | 0.48 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 7 | 0.48 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 5 | 0.48 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 16 | 0.48 |
| (1,5380) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 2 | 0.48 |
| (1,5380) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 2 | 0.48 |
| (1,5380) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 2 | 0.48 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 1 | 0.48 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 13 | 0.48 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 13 | 0.48 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 16 | 0.48 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 11 | 0.48 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 11 | 0.48 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 11 | 0.48 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 8 | 0.48 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 8 | 0.48 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 8 | 0.48 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 5 | 0.48 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 5 | 0.48 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 5 | 0.48 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 7 | 0.48 |
| (1,5143) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 17 | 0.48 |
| (1,5143) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 17 | 0.48 |
| (1,5143) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 17 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5141) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 11 | 0.48 |
| (1,5141) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 11 | 0.48 |
| (1,5141) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 11 | 0.48 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 5 | 0.48 |
| (1,5054) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 15 | 0.48 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 7 | 0.48 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 7 | 0.48 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 9 | 0.48 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 4 | 0.48 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 15 | 0.48 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 2 | 0.48 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 11 | 0.48 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 7 | 0.48 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 16 | 0.48 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 16 | 0.48 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 16 | 0.48 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 15 | 0.48 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 15 | 0.48 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 15 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 2 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 2 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 2 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 2 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 2 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 2 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 2 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 2 | 0.48 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 2 | 0.48 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 14 | 0.48 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 14 | 0.48 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 14 | 0.48 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 19 | 0.48 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 9 | 0.48 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 19 | 0.48 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 19 | 0.48 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 19 | 0.48 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 19 | 0.48 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 15 | 0.48 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 2 | 0.48 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 2 | 0.48 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 2 | 0.48 |
| (1,4626) | 1:50:A:GLY:H | 1:51:A:GLU:H | 19 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4605) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 3 | 0.48 |
| (1,4605) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 3 | 0.48 |
| (1,4605) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 3 | 0.48 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 6 | 0.48 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 2 | 0.48 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 2 | 0.48 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 15 | 0.48 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 15 | 0.48 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 9 | 0.48 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 9 | 0.48 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 3 | 0.48 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 3 | 0.48 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 15 | 0.48 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 15 | 0.48 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 17 | 0.48 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 17 | 0.48 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 15 | 0.48 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 15 | 0.48 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 16 | 0.48 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 16 | 0.48 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 15 | 0.48 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 15 | 0.48 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 15 | 0.48 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 15 | 0.48 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 1 | 0.48 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 1 | 0.48 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 4 | 0.48 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 4 | 0.48 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 9 | 0.48 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 9 | 0.48 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 15 | 0.48 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 15 | 0.48 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE2 | 17 | 0.48 |
| (1,3389) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HE3 | 17 | 0.48 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 4 | 0.48 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 4 | 0.48 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 4 | 0.48 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 5 | 0.48 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 7 | 0.48 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 10 | 0.48 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 11 | 0.48 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 16 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 19 | 0.48 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 18 | 0.48 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 18 | 0.48 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 11 | 0.48 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 2 | 0.48 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 12 | 0.48 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 12 | 0.48 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 6 | 0.48 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 6 | 0.48 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 6 | 0.48 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 19 | 0.48 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 19 | 0.48 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 1 | 0.48 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 1 | 0.48 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 19 | 0.48 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 12 | 0.48 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 7 | 0.48 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 7 | 0.48 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 7 | 0.48 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 14 | 0.48 |
| (1,3037) | 1:36:A:ARG:H | 1:36:A:ARG:HA | 9 | 0.48 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 17 | 0.48 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 17 | 0.48 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 15 | 0.48 |
| (1,2963) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 9 | 0.48 |
| (1,2955) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 15 | 0.48 |
| (1,2947) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 5 | 0.48 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 6 | 0.48 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 13 | 0.48 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 20 | 0.48 |
| (1,2907) | 1:29:A:THR:HG21 | 1:30:A:ASN:H | 11 | 0.48 |
| (1,2907) | 1:29:A:THR:HG22 | 1:30:A:ASN:H | 11 | 0.48 |
| (1,2907) | 1:29:A:THR:HG23 | 1:30:A:ASN:H | 11 | 0.48 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 8 | 0.48 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 7 | 0.48 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 7 | 0.48 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 7 | 0.48 |
| (1,2847) | 1:28:A:ILE:H | 1:28:A:ILE:HB | 15 | 0.48 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 16 | 0.48 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 16 | 0.48 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 16 | 0.48 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 16 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2821) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 1 | 0.48 |
| (1,2821) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 4 | 0.48 |
| (1,2821) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 6 | 0.48 |
| (1,2821) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 12 | 0.48 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 12 | 0.48 |
| (1,2777) | 1:25:A:PHE:H | 1:25:A:PHE:HA | 4 | 0.48 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 8 | 0.48 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 8 | 0.48 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 8 | 0.48 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 8 | 0.48 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 8 | 0.48 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 8 | 0.48 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 16 | 0.48 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 18 | 0.48 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 7 | 0.48 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 7 | 0.48 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 7 | 0.48 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 9 | 0.48 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 18 | 0.48 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 1 | 0.48 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 15 | 0.48 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 15 | 0.48 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 15 | 0.48 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 16 | 0.48 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 16 | 0.48 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 16 | 0.48 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 11 | 0.48 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 1 | 0.48 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 20 | 0.48 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 10 | 0.48 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 10 | 0.48 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 10 | 0.48 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 13 | 0.48 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 13 | 0.48 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 13 | 0.48 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 13 | 0.48 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 7 | 0.48 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 12 | 0.48 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 5 | 0.48 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 12 | 0.48 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 15 | 0.48 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 14 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 18 | 0.48 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 2 | 0.48 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 2 | 0.48 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 2 | 0.48 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 9 | 0.48 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 11 | 0.48 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 1 | 0.48 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 1 | 0.48 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 6 | 0.48 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 4 | 0.48 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 4 | 0.48 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 4 | 0.48 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 5 | 0.48 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 5 | 0.48 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 5 | 0.48 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 8 | 0.48 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 18 | 0.48 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 20 | 0.48 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 10 | 0.48 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 10 | 0.48 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 10 | 0.48 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 6 | 0.48 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 1 | 0.48 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 1 | 0.48 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 1 | 0.48 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 8 | 0.48 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 8 | 0.48 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 8 | 0.48 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 6 | 0.48 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 5 | 0.48 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 5 | 0.48 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 5 | 0.48 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 5 | 0.48 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 2 | 0.48 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 2 | 0.48 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 4 | 0.48 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 4 | 0.48 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 13 | 0.48 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 13 | 0.48 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 10 | 0.48 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 10 | 0.48 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 20 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 6 | 0.48 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 6 | 0.48 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 6 | 0.48 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 9 | 0.48 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 9 | 0.48 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 9 | 0.48 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 9 | 0.48 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 9 | 0.48 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 9 | 0.48 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 7 | 0.48 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 17 | 0.48 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 5 | 0.48 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 3 | 0.48 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 20 | 0.48 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 7 | 0.48 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 14 | 0.48 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 9 | 0.48 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 9 | 0.48 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 9 | 0.48 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 14 | 0.48 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 2 | 0.48 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 13 | 0.48 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 20 | 0.48 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 1 | 0.48 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 14 | 0.48 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 14 | 0.48 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 8 | 0.48 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 17 | 0.48 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 12 | 0.48 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 17 | 0.48 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 16 | 0.48 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 16 | 0.48 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 16 | 0.48 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 6 | 0.48 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 16 | 0.48 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 11 | 0.48 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 1 | 0.48 |
| (1,1073) | 1:109:A:GLN:HA | 1:109:A:GLN:HG3 | 1 | 0.48 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 20 | 0.48 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 4 | 0.48 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 13 | 0.48 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 13 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 13 | 0.48 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 1 | 0.48 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 18 | 0.48 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 19 | 0.48 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 3 | 0.48 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 7 | 0.48 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 11 | 0.48 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 11 | 0.48 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 11 | 0.48 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 5 | 0.48 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 17 | 0.48 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 18 | 0.48 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 19 | 0.48 |
| (1,727) | 1:97:A:LYS:HB2 | 1:98:A:SER:H | 9 | 0.48 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 4 | 0.48 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 4 | 0.48 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 4 | 0.48 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 7 | 0.48 |
| (1,659) | 1:96:A:ILE:H | 1:101:A:GLU:H | 4 | 0.48 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 2 | 0.48 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 12 | 0.48 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 5 | 0.48 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 14 | 0.48 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 14 | 0.48 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 14 | 0.48 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 1 | 0.48 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 1 | 0.48 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 1 | 0.48 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 7 | 0.48 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 7 | 0.48 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 7 | 0.48 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 8 | 0.48 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 8 | 0.48 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 8 | 0.48 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 8 | 0.48 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 8 | 0.48 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 8 | 0.48 |
| (1,504) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HB3 | 11 | 0.48 |
| (1,504) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HB3 | 11 | 0.48 |
| (1,504) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HB3 | 11 | 0.48 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 3 | 0.48 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 16 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 15 | 0.48 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 18 | 0.48 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 18 | 0.48 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 18 | 0.48 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 10 | 0.48 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 6 | 0.48 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 6 | 0.48 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 6 | 0.48 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 4 | 0.48 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 8 | 0.48 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 8 | 0.48 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 8 | 0.48 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 6 | 0.48 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 16 | 0.48 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 7 | 0.48 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 7 | 0.48 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 8 | 0.48 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 9 | 0.48 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 19 | 0.48 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 15 | 0.48 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 5 | 0.48 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 8 | 0.48 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 8 | 0.48 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 8 | 0.48 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 13 | 0.48 |
| (1,272) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 15 | 0.48 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 11 | 0.48 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 11 | 0.48 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 11 | 0.48 |
| (1,246) | 1:75:A:GLN:HA | 1:75:A:GLN:HB3 | 5 | 0.48 |
| (1,242) | 1:75:A:GLN:HA | 1:75:A:GLN:HB2 | 2 | 0.48 |
| (1,242) | 1:75:A:GLN:HA | 1:75:A:GLN:HB2 | 3 | 0.48 |
| (1,242) | 1:75:A:GLN:HA | 1:75:A:GLN:HB2 | 16 | 0.48 |
| (1,242) | 1:75:A:GLN:HA | 1:75:A:GLN:HB2 | 18 | 0.48 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 11 | 0.48 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 18 | 0.48 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 5 | 0.48 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 7 | 0.48 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 2 | 0.48 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 2 | 0.48 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 2 | 0.48 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 18 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 18 | 0.48 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 3 | 0.48 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 3 | 0.48 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 3 | 0.48 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 14 | 0.48 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 12 | 0.48 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 12 | 0.48 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 12 | 0.48 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 12 | 0.48 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 12 | 0.48 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 12 | 0.48 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 8 | 0.48 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 8 | 0.48 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 8 | 0.48 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 12 | 0.48 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 12 | 0.48 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 12 | 0.48 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 14 | 0.48 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 20 | 0.48 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 9 | 0.48 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 8 | 0.48 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 8 | 0.48 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 8 | 0.48 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 5 | 0.48 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 10 | 0.48 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 17 | 0.48 |
| (1,49) | 1:55:A:VAL:H | 1:55:A:VAL:HA | 19 | 0.48 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 15 | 0.48 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 17 | 0.48 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 9 | 0.48 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 9 | 0.48 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 9 | 0.48 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 9 | 0.48 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 10 | 0.48 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 10 | 0.48 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 10 | 0.48 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 10 | 0.48 |
| (4,318) | 1:131:A:GLN:CB | 1:10:A:GLY:H | 6 | 0.47 |
| (4,293) | 1:98:A:SER:CB | 1:20:A:GLY:H | 5 | 0.47 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 17 | 0.47 |
| (4,191) | 1:131:A:GLN:CB | 1:20:A:GLY:H | 14 | 0.47 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 13 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 7 | 0.47 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 2 | 0.47 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 11 | 0.47 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 11 | 0.47 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 11 | 0.47 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 11 | 0.47 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 3 | 0.47 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 3 | 0.47 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 3 | 0.47 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 3 | 0.47 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 20 | 0.47 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 20 | 0.47 |
| (3,855) | 1:66:A:GLN:HE21 | 1:83:A:GLU:H | 19 | 0.47 |
| (3,855) | 1:66:A:GLN:HE22 | 1:83:A:GLU:H | 19 | 0.47 |
| (3,773) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 19 | 0.47 |
| (3,773) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 19 | 0.47 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 3 | 0.47 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 3 | 0.47 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 8 | 0.47 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 8 | 0.47 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 8 | 0.47 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 12 | 0.47 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 12 | 0.47 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 12 | 0.47 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 16 | 0.47 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 16 | 0.47 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 16 | 0.47 |
| (3,611) | 1:117:A:LYS:HA | 1:120:A:GLY:H | 3 | 0.47 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 6 | 0.47 |
| (3,221) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 19 | 0.47 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 5 | 0.47 |
| (3,179) | 1:7:A:LEU:HB3 | 1:11:A:TRP:H | 19 | 0.47 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 19 | 0.47 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 3 | 0.47 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 3 | 0.47 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 16 | 0.47 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 16 | 0.47 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 3 | 0.47 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 3 | 0.47 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 3 | 0.47 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 3 | 0.47 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 3 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 3 | 0.47 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 3 | 0.47 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 3 | 0.47 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 3 | 0.47 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 8 | 0.47 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 8 | 0.47 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 8 | 0.47 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 8 | 0.47 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 8 | 0.47 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 8 | 0.47 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 8 | 0.47 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 8 | 0.47 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 8 | 0.47 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 8 | 0.47 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 8 | 0.47 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 8 | 0.47 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 14 | 0.47 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 14 | 0.47 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 19 | 0.47 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 19 | 0.47 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 14 | 0.47 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 14 | 0.47 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 9 | 0.47 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 9 | 0.47 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 2 | 0.47 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 2 | 0.47 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 2 | 0.47 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 2 | 0.47 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 2 | 0.47 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 2 | 0.47 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG2 | 1 | 0.47 |
| (1,9093) | 1:86:A:LEU:H | 1:87:A:GLU:HG3 | 1 | 0.47 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 19 | 0.47 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 19 | 0.47 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 6 | 0.47 |
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 6 | 0.47 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 3 | 0.47 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 3 | 0.47 |
| (1,9026) | 1:80:A:ARG:HB2 | 1:85:A:ALA:H | 13 | 0.47 |
| (1,9026) | 1:80:A:ARG:HB3 | 1:85:A:ALA:H | 13 | 0.47 |
| (1,8786) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 10 | 0.47 |
| (1,8786) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 10 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 11 | 0.47 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 11 | 0.47 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 11 | 0.47 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 11 | 0.47 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 7 | 0.47 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 7 | 0.47 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 10 | 0.47 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 10 | 0.47 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 11 | 0.47 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 11 | 0.47 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 16 | 0.47 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 16 | 0.47 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 11 | 0.47 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 11 | 0.47 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 7 | 0.47 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 7 | 0.47 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 19 | 0.47 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 19 | 0.47 |
| (1,8443) | 1:146:A:MET:HG2 | 1:147:A:SER:H | 20 | 0.47 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 15 | 0.47 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 17 | 0.47 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 2 | 0.47 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 1 | 0.47 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 2 | 0.47 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 5 | 0.47 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 13 | 0.47 |
| (1,7863) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 6 | 0.47 |
| (1,7863) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 6 | 0.47 |
| (1,7863) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 6 | 0.47 |
| (1,7465) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 4 | 0.47 |
| (1,7465) | 1:12:A:GLU:H | 1:26:A:ASN:HA | 15 | 0.47 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 19 | 0.47 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 14 | 0.47 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 14 | 0.47 |
| (1,7359) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 13 | 0.47 |
| (1,7359) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 13 | 0.47 |
| (1,7359) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 13 | 0.47 |
| (1,7326) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 4 | 0.47 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 15 | 0.47 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 15 | 0.47 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 15 | 0.47 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 6 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 6 | 0.47 |
| (1,7284) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 10 | 0.47 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 3 | 0.47 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 3 | 0.47 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 8 | 0.47 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 17 | 0.47 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 2 | 0.47 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 10 | 0.47 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 10 | 0.47 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 18 | 0.47 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 18 | 0.47 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 1 | 0.47 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 1 | 0.47 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 15 | 0.47 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 15 | 0.47 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 15 | 0.47 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 8 | 0.47 |
| (1,6957) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 4 | 0.47 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 11 | 0.47 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 4 | 0.47 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 4 | 0.47 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 4 | 0.47 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 13 | 0.47 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 13 | 0.47 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 13 | 0.47 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 12 | 0.47 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 12 | 0.47 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 12 | 0.47 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 1 | 0.47 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 4 | 0.47 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 10 | 0.47 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 19 | 0.47 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 11 | 0.47 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 13 | 0.47 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 5 | 0.47 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 16 | 0.47 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 14 | 0.47 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 1 | 0.47 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 8 | 0.47 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 8 | 0.47 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 11 | 0.47 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 4 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 4 | 0.47 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 16 | 0.47 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 4 | 0.47 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 3 | 0.47 |
| (1,6340) | 1:154:A:SER:H | 1:155:A:GLY:H | 7 | 0.47 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 15 | 0.47 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 7 | 0.47 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 9 | 0.47 |
| (1,6151) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 9 | 0.47 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 14 | 0.47 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 4 | 0.47 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 3 | 0.47 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 20 | 0.47 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 5 | 0.47 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 11 | 0.47 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 14 | 0.47 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 14 | 0.47 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 2 | 0.47 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 1 | 0.47 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 6 | 0.47 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 14 | 0.47 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 16 | 0.47 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 18 | 0.47 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 18 | 0.47 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 18 | 0.47 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 5 | 0.47 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 5 | 0.47 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 5 | 0.47 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 3 | 0.47 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 6 | 0.47 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 15 | 0.47 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 11 | 0.47 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 11 | 0.47 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 11 | 0.47 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 20 | 0.47 |
| (1,5390) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 16 | 0.47 |
| (1,5390) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 16 | 0.47 |
| (1,5390) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 16 | 0.47 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 6 | 0.47 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 5 | 0.47 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 5 | 0.47 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 5 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 11 | 0.47 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 11 | 0.47 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 15 | 0.47 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 15 | 0.47 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 4 | 0.47 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 15 | 0.47 |
| (1,5006) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 11 | 0.47 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 15 | 0.47 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 6 | 0.47 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 4 | 0.47 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 13 | 0.47 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 13 | 0.47 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 13 | 0.47 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 8 | 0.47 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 6 | 0.47 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 17 | 0.47 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 15 | 0.47 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 16 | 0.47 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 7 | 0.47 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 7 | 0.47 |
| (1,4927) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 17 | 0.47 |
| (1,4927) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 20 | 0.47 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 2 | 0.47 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 12 | 0.47 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 12 | 0.47 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 12 | 0.47 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 12 | 0.47 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 12 | 0.47 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 12 | 0.47 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 12 | 0.47 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 12 | 0.47 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 12 | 0.47 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 11 | 0.47 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 11 | 0.47 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 11 | 0.47 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 5 | 0.47 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 14 | 0.47 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 14 | 0.47 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 14 | 0.47 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 12 | 0.47 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 15 | 0.47 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 16 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 7 | 0.47 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 5 | 0.47 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 5 | 0.47 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 5 | 0.47 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 10 | 0.47 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 10 | 0.47 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 10 | 0.47 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 9 | 0.47 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 9 | 0.47 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 9 | 0.47 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 3 | 0.47 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 3 | 0.47 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 3 | 0.47 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 5 | 0.47 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 5 | 0.47 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 5 | 0.47 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 11 | 0.47 |
| (1,4549) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 10 | 0.47 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 1 | 0.47 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 1 | 0.47 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 6 | 0.47 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 6 | 0.47 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 5 | 0.47 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 5 | 0.47 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 5 | 0.47 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 11 | 0.47 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 11 | 0.47 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 11 | 0.47 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 3 | 0.47 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 3 | 0.47 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 3 | 0.47 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 3 | 0.47 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 5 | 0.47 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 5 | 0.47 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 18 | 0.47 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 18 | 0.47 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 16 | 0.47 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 16 | 0.47 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 16 | 0.47 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 16 | 0.47 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 16 | 0.47 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 16 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 12 | 0.47 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 12 | 0.47 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 10 | 0.47 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 10 | 0.47 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 18 | 0.47 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 18 | 0.47 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 2 | 0.47 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 2 | 0.47 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 10 | 0.47 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 10 | 0.47 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 17 | 0.47 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 17 | 0.47 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 11 | 0.47 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 11 | 0.47 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 20 | 0.47 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 20 | 0.47 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 20 | 0.47 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 20 | 0.47 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD2 | 12 | 0.47 |
| (1,3519) | 1:6:A:LYS:H | 1:6:A:LYS:HD3 | 12 | 0.47 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 8 | 0.47 |
| (1,3339) | 1:139:A:PHE:HA | 1:139:A:PHE:HB2 | 17 | 0.47 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 6 | 0.47 |
| (1,3331) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 6 | 0.47 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 16 | 0.47 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 5 | 0.47 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 5 | 0.47 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 4 | 0.47 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 19 | 0.47 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 4 | 0.47 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 18 | 0.47 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 9 | 0.47 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 12 | 0.47 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 12 | 0.47 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 12 | 0.47 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 13 | 0.47 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 5 | 0.47 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 14 | 0.47 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 12 | 0.47 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 12 | 0.47 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 12 | 0.47 |
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 13 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2933) | 1:31:A:ALA:H | 1:31:A:ALA:HA | 19 | 0.47 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 3 | 0.47 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 14 | 0.47 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 14 | 0.47 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 14 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 2 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 3 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 4 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 5 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 6 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 9 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 10 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 11 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 17 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 19 | 0.47 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 20 | 0.47 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD11 | 9 | 0.47 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD12 | 9 | 0.47 |
| (1,2887) | 1:27:A:HIS:H | 1:28:A:ILE:HD13 | 9 | 0.47 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 1 | 0.47 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 4 | 0.47 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 10 | 0.47 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 19 | 0.47 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 9 | 0.47 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 9 | 0.47 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 9 | 0.47 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 1 | 0.47 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 8 | 0.47 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 8 | 0.47 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 8 | 0.47 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 5 | 0.47 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 5 | 0.47 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 5 | 0.47 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 9 | 0.47 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 9 | 0.47 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 9 | 0.47 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 11 | 0.47 |
| (1,2821) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 7 | 0.47 |
| (1,2821) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 15 | 0.47 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 12 | 0.47 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 12 | 0.47 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 12 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 5 | 0.47 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 16 | 0.47 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 14 | 0.47 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 14 | 0.47 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 3 | 0.47 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 19 | 0.47 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 19 | 0.47 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 19 | 0.47 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 6 | 0.47 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 6 | 0.47 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 6 | 0.47 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 8 | 0.47 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 8 | 0.47 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 11 | 0.47 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 4 | 0.47 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 13 | 0.47 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 6 | 0.47 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 15 | 0.47 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 12 | 0.47 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 14 | 0.47 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 19 | 0.47 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 17 | 0.47 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 17 | 0.47 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 17 | 0.47 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 4 | 0.47 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 5 | 0.47 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 9 | 0.47 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 12 | 0.47 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 14 | 0.47 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 7 | 0.47 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 7 | 0.47 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 7 | 0.47 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 3 | 0.47 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 7 | 0.47 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 7 | 0.47 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 7 | 0.47 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 7 | 0.47 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 7 | 0.47 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 7 | 0.47 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 7 | 0.47 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 7 | 0.47 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 7 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 1 | 0.47 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 1 | 0.47 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 1 | 0.47 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 14 | 0.47 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 14 | 0.47 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 7 | 0.47 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 7 | 0.47 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 7 | 0.47 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 17 | 0.47 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 2 | 0.47 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 11 | 0.47 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 5 | 0.47 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 5 | 0.47 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 2 | 0.47 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 2 | 0.47 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 2 | 0.47 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 15 | 0.47 |
| (1,1749) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 9 | 0.47 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 15 | 0.47 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 2 | 0.47 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 2 | 0.47 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 2 | 0.47 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 3 | 0.47 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 18 | 0.47 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 16 | 0.47 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 16 | 0.47 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 5 | 0.47 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 11 | 0.47 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 14 | 0.47 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 12 | 0.47 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 4 | 0.47 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 10 | 0.47 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 5 | 0.47 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 5 | 0.47 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 1 | 0.47 |
| (1,1291) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 19 | 0.47 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 14 | 0.47 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 7 | 0.47 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 7 | 0.47 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 19 | 0.47 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 19 | 0.47 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 5 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 5 | 0.47 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 12 | 0.47 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 12 | 0.47 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 17 | 0.47 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 17 | 0.47 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 2 | 0.47 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 4 | 0.47 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 4 | 0.47 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 3 | 0.47 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 7 | 0.47 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 14 | 0.47 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 1 | 0.47 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 5 | 0.47 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 7 | 0.47 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 9 | 0.47 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 14 | 0.47 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 18 | 0.47 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 4 | 0.47 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 4 | 0.47 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 4 | 0.47 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 1 | 0.47 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 15 | 0.47 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 6 | 0.47 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 10 | 0.47 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 19 | 0.47 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 5 | 0.47 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 10 | 0.47 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 18 | 0.47 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 17 | 0.47 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 17 | 0.47 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 10 | 0.47 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 20 | 0.47 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 3 | 0.47 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 15 | 0.47 |
| (1,669) | 1:96:A:ILE:HA | 1:98:A:SER:H | 3 | 0.47 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 4 | 0.47 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 3 | 0.47 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 3 | 0.47 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 3 | 0.47 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 19 | 0.47 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 19 | 0.47 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 19 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 19 | 0.47 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 1 | 0.47 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 9 | 0.47 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 9 | 0.47 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 9 | 0.47 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 9 | 0.47 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 9 | 0.47 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 9 | 0.47 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 18 | 0.47 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 18 | 0.47 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 18 | 0.47 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 18 | 0.47 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 18 | 0.47 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 18 | 0.47 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 5 | 0.47 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 5 | 0.47 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 5 | 0.47 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 1 | 0.47 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 1 | 0.47 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 4 | 0.47 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 4 | 0.47 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 4 | 0.47 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 7 | 0.47 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 7 | 0.47 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 7 | 0.47 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 4 | 0.47 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 4 | 0.47 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 4 | 0.47 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 4 | 0.47 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 4 | 0.47 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 4 | 0.47 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 20 | 0.47 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 9 | 0.47 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 3 | 0.47 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 3 | 0.47 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 3 | 0.47 |
| (1,417) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 3 | 0.47 |
| (1,417) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 3 | 0.47 |
| (1,417) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 3 | 0.47 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 17 | 0.47 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 17 | 0.47 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 12 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 12 | 0.47 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 12 | 0.47 |
| (1,400) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 11 | 0.47 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 10 | 0.47 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 10 | 0.47 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 10 | 0.47 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 10 | 0.47 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 17 | 0.47 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 3 | 0.47 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 6 | 0.47 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 10 | 0.47 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 13 | 0.47 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 13 | 0.47 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 13 | 0.47 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 7 | 0.47 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 15 | 0.47 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 9 | 0.47 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 12 | 0.47 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 11 | 0.47 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 11 | 0.47 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 11 | 0.47 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 17 | 0.47 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 17 | 0.47 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 17 | 0.47 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 3 | 0.47 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 3 | 0.47 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 12 | 0.47 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 12 | 0.47 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 12 | 0.47 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 18 | 0.47 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 18 | 0.47 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 18 | 0.47 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 11 | 0.47 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 11 | 0.47 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 11 | 0.47 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 12 | 0.47 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 11 | 0.47 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 13 | 0.47 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 6 | 0.47 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 6 | 0.47 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 15 | 0.47 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 16 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 7 | 0.47 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 7 | 0.47 |
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 5 | 0.47 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 5 | 0.47 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 5 | 0.47 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 16 | 0.47 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 16 | 0.47 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 16 | 0.47 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 11 | 0.47 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 17 | 0.47 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 17 | 0.47 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 10 | 0.47 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 10 | 0.47 |
| (4,257) | 1:15:A:MET:CB | 1:161:A:ARG:H | 20 | 0.46 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 6 | 0.46 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 6 | 0.46 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 6 | 0.46 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 6 | 0.46 |
| (3,875) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG2 | 3 | 0.46 |
| (3,875) | 1:75:A:GLN:HE21 | 1:77:A:LYS:HG3 | 3 | 0.46 |
| (3,875) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG2 | 3 | 0.46 |
| (3,875) | 1:75:A:GLN:HE22 | 1:77:A:LYS:HG3 | 3 | 0.46 |
| (3,648) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 1 | 0.46 |
| (3,648) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 1 | 0.46 |
| (3,226) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 4 | 0.46 |
| (3,226) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 4 | 0.46 |
| (3,226) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 4 | 0.46 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 13 | 0.46 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 20 | 0.46 |
| (3,129) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 15 | 0.46 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 20 | 0.46 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 20 | 0.46 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 18 | 0.46 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 18 | 0.46 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 8 | 0.46 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 8 | 0.46 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 12 | 0.46 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 12 | 0.46 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 12 | 0.46 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 12 | 0.46 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 12 | 0.46 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 12 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 1 | 0.46 |
| (1,9099) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 1 | 0.46 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 1 | 0.46 |
| (1,9099) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 1 | 0.46 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 1 | 0.46 |
| (1,9099) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 1 | 0.46 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 6 | 0.46 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 6 | 0.46 |
| (1,8973) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 14 | 0.46 |
| (1,8973) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 14 | 0.46 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 20 | 0.46 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 20 | 0.46 |
| (1,8922) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 18 | 0.46 |
| (1,8922) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 18 | 0.46 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 4 | 0.46 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 4 | 0.46 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 3 | 0.46 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 3 | 0.46 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 3 | 0.46 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 3 | 0.46 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 3 | 0.46 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 3 | 0.46 |
| (1,8783) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 12 | 0.46 |
| (1,8783) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 12 | 0.46 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 14 | 0.46 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 14 | 0.46 |
| (1,8711) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 18 | 0.46 |
| (1,8711) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 18 | 0.46 |
| (1,8699) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 2 | 0.46 |
| (1,8699) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 2 | 0.46 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 4 | 0.46 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 4 | 0.46 |
| (1,8628) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 6 | 0.46 |
| (1,8628) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 6 | 0.46 |
| (1,8628) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 6 | 0.46 |
| (1,8628) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 6 | 0.46 |
| (1,8628) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 6 | 0.46 |
| (1,8628) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 6 | 0.46 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 9 | 0.46 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 9 | 0.46 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 9 | 0.46 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 9 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 3 | 0.46 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 3 | 0.46 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 2 | 0.46 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 2 | 0.46 |
| (1,8543) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 20 | 0.46 |
| (1,8543) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 20 | 0.46 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 12 | 0.46 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 12 | 0.46 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 11 | 0.46 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 20 | 0.46 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 8 | 0.46 |
| (1,7705) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 13 | 0.46 |
| (1,7705) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 13 | 0.46 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 19 | 0.46 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 3 | 0.46 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 9 | 0.46 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 9 | 0.46 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 3 | 0.46 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 3 | 0.46 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 12 | 0.46 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 18 | 0.46 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 18 | 0.46 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 4 | 0.46 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 4 | 0.46 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 7 | 0.46 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 12 | 0.46 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 3 | 0.46 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 6 | 0.46 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 6 | 0.46 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 6 | 0.46 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 9 | 0.46 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 6 | 0.46 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 10 | 0.46 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 10 | 0.46 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 2 | 0.46 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 5 | 0.46 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 18 | 0.46 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 13 | 0.46 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 2 | 0.46 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 5 | 0.46 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 7 | 0.46 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 12 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 14 | 0.46 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 16 | 0.46 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 18 | 0.46 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 16 | 0.46 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 1 | 0.46 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 15 | 0.46 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 10 | 0.46 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 9 | 0.46 |
| (1,6544) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 13 | 0.46 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 16 | 0.46 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 15 | 0.46 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 15 | 0.46 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 3 | 0.46 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 6 | 0.46 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 6 | 0.46 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 6 | 0.46 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 18 | 0.46 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 18 | 0.46 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 18 | 0.46 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 9 | 0.46 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 9 | 0.46 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 9 | 0.46 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 9 | 0.46 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 9 | 0.46 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 9 | 0.46 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 9 | 0.46 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 9 | 0.46 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 9 | 0.46 |
| (1,6283) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 15 | 0.46 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 15 | 0.46 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 15 | 0.46 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 16 | 0.46 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 16 | 0.46 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 16 | 0.46 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 12 | 0.46 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 12 | 0.46 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 12 | 0.46 |
| (1,6151) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 13 | 0.46 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 1 | 0.46 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 3 | 0.46 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 3 | 0.46 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 3 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 9 | 0.46 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 14 | 0.46 |
| (1,5773) | 1:113:A:CYS:HA | 1:114:A:SER:H | 17 | 0.46 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 16 | 0.46 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 10 | 0.46 |
| (1,5646) | 1:104:A:GLU:H | 1:105:A:SER:H | 11 | 0.46 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 5 | 0.46 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 7 | 0.46 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 7 | 0.46 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 7 | 0.46 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 4 | 0.46 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 1 | 0.46 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 16 | 0.46 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 20 | 0.46 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 11 | 0.46 |
| (1,5297) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 16 | 0.46 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 15 | 0.46 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 15 | 0.46 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 15 | 0.46 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 17 | 0.46 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 17 | 0.46 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 17 | 0.46 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 2 | 0.46 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 2 | 0.46 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 2 | 0.46 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 10 | 0.46 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 14 | 0.46 |
| (1,5111) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 4 | 0.46 |
| (1,5107) | 1:80:A:ARG:HA | 1:81:A:THR:H | 17 | 0.46 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 11 | 0.46 |
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 12 | 0.46 |
| (1,5050) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 18 | 0.46 |
| (1,5050) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 18 | 0.46 |
| (1,5050) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 18 | 0.46 |
| (1,5050) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 18 | 0.46 |
| (1,5050) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 18 | 0.46 |
| (1,5050) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 18 | 0.46 |
| (1,5006) | 1:73:A:TRP:HB3 | 1:73:A:TRP:HE3 | 14 | 0.46 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 6 | 0.46 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 2 | 0.46 |
| (1,4949) | 1:67:A:SER:HA | 1:68:A:ARG:H | 10 | 0.46 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 18 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 18 | 0.46 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 18 | 0.46 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 18 | 0.46 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 18 | 0.46 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 18 | 0.46 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 18 | 0.46 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 18 | 0.46 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 18 | 0.46 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 1 | 0.46 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 1 | 0.46 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 1 | 0.46 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 19 | 0.46 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 1 | 0.46 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 14 | 0.46 |
| (1,4565) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 18 | 0.46 |
| (1,4565) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 18 | 0.46 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 12 | 0.46 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 12 | 0.46 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 2 | 0.46 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 2 | 0.46 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 19 | 0.46 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 19 | 0.46 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 16 | 0.46 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 16 | 0.46 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 19 | 0.46 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 19 | 0.46 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 4 | 0.46 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 4 | 0.46 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 12 | 0.46 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 12 | 0.46 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 6 | 0.46 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 6 | 0.46 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 6 | 0.46 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 8 | 0.46 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 8 | 0.46 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 11 | 0.46 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 11 | 0.46 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 4 | 0.46 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 4 | 0.46 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 12 | 0.46 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 12 | 0.46 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 16 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 16 | 0.46 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 1 | 0.46 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 1 | 0.46 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 7 | 0.46 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 7 | 0.46 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 13 | 0.46 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 13 | 0.46 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 13 | 0.46 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 13 | 0.46 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 13 | 0.46 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 13 | 0.46 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 13 | 0.46 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 13 | 0.46 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 13 | 0.46 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 12 | 0.46 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 12 | 0.46 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 12 | 0.46 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 12 | 0.46 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 2 | 0.46 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 13 | 0.46 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 13 | 0.46 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 4 | 0.46 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 8 | 0.46 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 10 | 0.46 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 9 | 0.46 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 15 | 0.46 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 5 | 0.46 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 5 | 0.46 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 5 | 0.46 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 11 | 0.46 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 11 | 0.46 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 11 | 0.46 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 14 | 0.46 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 15 | 0.46 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 15 | 0.46 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 15 | 0.46 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 15 | 0.46 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 3 | 0.46 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 16 | 0.46 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 16 | 0.46 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 1 | 0.46 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 1 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 4 | 0.46 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 4 | 0.46 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 11 | 0.46 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 11 | 0.46 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 18 | 0.46 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 9 | 0.46 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 11 | 0.46 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 8 | 0.46 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 13 | 0.46 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 15 | 0.46 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 16 | 0.46 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 2 | 0.46 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 5 | 0.46 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 7 | 0.46 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 12 | 0.46 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 14 | 0.46 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 16 | 0.46 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 18 | 0.46 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 8 | 0.46 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 16 | 0.46 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 1 | 0.46 |
| (1,2783) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 14 | 0.46 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 7 | 0.46 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 7 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 2 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 2 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 2 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 2 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 2 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 2 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 9 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 9 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 9 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 9 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 9 | 0.46 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 9 | 0.46 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 1 | 0.46 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 1 | 0.46 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 1 | 0.46 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 16 | 0.46 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 16 | 0.46 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 16 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 19 | 0.46 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 19 | 0.46 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 19 | 0.46 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 9 | 0.46 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 9 | 0.46 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 9 | 0.46 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 5 | 0.46 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 5 | 0.46 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 5 | 0.46 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 10 | 0.46 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 10 | 0.46 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 16 | 0.46 |
| (1,2391) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD3 | 13 | 0.46 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 15 | 0.46 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 2 | 0.46 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 5 | 0.46 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 13 | 0.46 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 19 | 0.46 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 12 | 0.46 |
| (1,2185) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 17 | 0.46 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 17 | 0.46 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 17 | 0.46 |
| (1,2171) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 17 | 0.46 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 17 | 0.46 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 17 | 0.46 |
| (1,2171) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 17 | 0.46 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 17 | 0.46 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 17 | 0.46 |
| (1,2171) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 17 | 0.46 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 8 | 0.46 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 8 | 0.46 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 8 | 0.46 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 12 | 0.46 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 12 | 0.46 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 12 | 0.46 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 15 | 0.46 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 15 | 0.46 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 15 | 0.46 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 15 | 0.46 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 9 | 0.46 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 9 | 0.46 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 9 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 2 | 0.46 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 20 | 0.46 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 3 | 0.46 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 12 | 0.46 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 11 | 0.46 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 14 | 0.46 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD11 | 12 | 0.46 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD12 | 12 | 0.46 |
| (1,1909) | 1:146:A:MET:HE1 | 1:160:A:LEU:HD13 | 12 | 0.46 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD11 | 12 | 0.46 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD12 | 12 | 0.46 |
| (1,1909) | 1:146:A:MET:HE2 | 1:160:A:LEU:HD13 | 12 | 0.46 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD11 | 12 | 0.46 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD12 | 12 | 0.46 |
| (1,1909) | 1:146:A:MET:HE3 | 1:160:A:LEU:HD13 | 12 | 0.46 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 12 | 0.46 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 5 | 0.46 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 5 | 0.46 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 5 | 0.46 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 12 | 0.46 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 14 | 0.46 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 20 | 0.46 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 10 | 0.46 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 5 | 0.46 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 10 | 0.46 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 10 | 0.46 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 10 | 0.46 |
| (1,1749) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 13 | 0.46 |
| (1,1641) | 1:136:A:ASP:H | 1:136:A:ASP:HA | 15 | 0.46 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 17 | 0.46 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 17 | 0.46 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 11 | 0.46 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 1 | 0.46 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 1 | 0.46 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 1 | 0.46 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 15 | 0.46 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 19 | 0.46 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 9 | 0.46 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 3 | 0.46 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 13 | 0.46 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 13 | 0.46 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 13 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 13 | 0.46 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 1 | 0.46 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 1 | 0.46 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 1 | 0.46 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 1 | 0.46 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 1 | 0.46 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 1 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 14 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 14 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 14 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 14 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 14 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 14 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 14 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 14 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 14 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 19 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 19 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 19 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 19 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 19 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 19 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 19 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 19 | 0.46 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 19 | 0.46 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 12 | 0.46 |
| (1,1175) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 12 | 0.46 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 3 | 0.46 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 3 | 0.46 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 16 | 0.46 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 16 | 0.46 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 12 | 0.46 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 20 | 0.46 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 16 | 0.46 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 16 | 0.46 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 16 | 0.46 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 7 | 0.46 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 20 | 0.46 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 3 | 0.46 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 15 | 0.46 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 15 | 0.46 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 15 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 10 | 0.46 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 13 | 0.46 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 13 | 0.46 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 13 | 0.46 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 1 | 0.46 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 14 | 0.46 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 14 | 0.46 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 14 | 0.46 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 14 | 0.46 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 1 | 0.46 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 14 | 0.46 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 8 | 0.46 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 8 | 0.46 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 1 | 0.46 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 1 | 0.46 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 1 | 0.46 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 14 | 0.46 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 3 | 0.46 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 17 | 0.46 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 15 | 0.46 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 2 | 0.46 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 2 | 0.46 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 2 | 0.46 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 14 | 0.46 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 11 | 0.46 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 11 | 0.46 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 11 | 0.46 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 9 | 0.46 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 15 | 0.46 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 4 | 0.46 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 12 | 0.46 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 12 | 0.46 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 12 | 0.46 |
| (1,469) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 15 | 0.46 |
| (1,469) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 15 | 0.46 |
| (1,469) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 15 | 0.46 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 7 | 0.46 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 11 | 0.46 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 11 | 0.46 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 11 | 0.46 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 15 | 0.46 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 18 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,453) | 1:87:A:GLU:H | 1:89:A:ILE:H | 18 | 0.46 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 16 | 0.46 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 19 | 0.46 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 5 | 0.46 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 2 | 0.46 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 2 | 0.46 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 2 | 0.46 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 14 | 0.46 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 14 | 0.46 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 14 | 0.46 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 17 | 0.46 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 12 | 0.46 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD2 | 13 | 0.46 |
| (1,354) | 1:82:A:LYS:HA | 1:82:A:LYS:HD3 | 13 | 0.46 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 11 | 0.46 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 12 | 0.46 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 10 | 0.46 |
| (1,304) | 1:80:A:ARG:HA | 1:81:A:THR:H | 17 | 0.46 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 11 | 0.46 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 20 | 0.46 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 20 | 0.46 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 20 | 0.46 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 8 | 0.46 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 6 | 0.46 |
| (1,250) | 1:74:A:ARG:H | 1:76:A:GLU:H | 18 | 0.46 |
| (1,236) | 1:72:A:SER:H | 1:75:A:GLN:H | 19 | 0.46 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 3 | 0.46 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 3 | 0.46 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 3 | 0.46 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 3 | 0.46 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 11 | 0.46 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 12 | 0.46 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 18 | 0.46 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 12 | 0.46 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 12 | 0.46 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 12 | 0.46 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 6 | 0.46 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 6 | 0.46 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 6 | 0.46 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 6 | 0.46 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 6 | 0.46 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 6 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 18 | 0.46 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 18 | 0.46 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 18 | 0.46 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 18 | 0.46 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 18 | 0.46 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 18 | 0.46 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 2 | 0.46 |
| (1,95) | 1:58:A:SER:H | 1:58:A:SER:HA | 5 | 0.46 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 3 | 0.46 |
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 17 | 0.46 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 17 | 0.46 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 17 | 0.46 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 16 | 0.46 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 16 | 0.46 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 16 | 0.46 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 20 | 0.46 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 20 | 0.46 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 19 | 0.46 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 1 | 0.46 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 14 | 0.46 |
| (1,5) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 19 | 0.46 |
| (1,5) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 19 | 0.46 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 16 | 0.45 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 12 | 0.45 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 12 | 0.45 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 12 | 0.45 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 12 | 0.45 |
| (3,991) | 1:125:A:PHE:HA | 1:129:A:GLN:HG2 | 19 | 0.45 |
| (3,991) | 1:125:A:PHE:HA | 1:129:A:GLN:HG3 | 19 | 0.45 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 7 | 0.45 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 7 | 0.45 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 15 | 0.45 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 15 | 0.45 |
| (3,418) | 1:62:A:VAL:HG21 | 1:156:A:ILE:H | 13 | 0.45 |
| (3,418) | 1:62:A:VAL:HG22 | 1:156:A:ILE:H | 13 | 0.45 |
| (3,418) | 1:62:A:VAL:HG23 | 1:156:A:ILE:H | 13 | 0.45 |
| (3,351) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 16 | 0.45 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 19 | 0.45 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 19 | 0.45 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 15 | 0.45 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 15 | 0.45 |
| (1,9549) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG2 | 3 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9549) | 1:143:A:THR:HG21 | 1:161:A:ARG:HG3 | 3 | 0.45 |
| (1,9549) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG2 | 3 | 0.45 |
| (1,9549) | 1:143:A:THR:HG22 | 1:161:A:ARG:HG3 | 3 | 0.45 |
| (1,9549) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG2 | 3 | 0.45 |
| (1,9549) | 1:143:A:THR:HG23 | 1:161:A:ARG:HG3 | 3 | 0.45 |
| (1,9417) | 1:127:A:ARG:HA | 1:135:A:GLU:HG2 | 19 | 0.45 |
| (1,9417) | 1:127:A:ARG:HA | 1:135:A:GLU:HG3 | 19 | 0.45 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 9 | 0.45 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 9 | 0.45 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 9 | 0.45 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 9 | 0.45 |
| (1,9184) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 4 | 0.45 |
| (1,9184) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 4 | 0.45 |
| (1,9178) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 4 | 0.45 |
| (1,9178) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 4 | 0.45 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 4 | 0.45 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 4 | 0.45 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 15 | 0.45 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 15 | 0.45 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 8 | 0.45 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 8 | 0.45 |
| (1,8863) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 16 | 0.45 |
| (1,8863) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 16 | 0.45 |
| (1,8863) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 16 | 0.45 |
| (1,8863) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 16 | 0.45 |
| (1,8863) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 16 | 0.45 |
| (1,8863) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 16 | 0.45 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 20 | 0.45 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 20 | 0.45 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 20 | 0.45 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 20 | 0.45 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 20 | 0.45 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 20 | 0.45 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 2 | 0.45 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 2 | 0.45 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 18 | 0.45 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 18 | 0.45 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 12 | 0.45 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 12 | 0.45 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 10 | 0.45 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 10 | 0.45 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 16 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 16 | 0.45 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 4 | 0.45 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 4 | 0.45 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 9 | 0.45 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 9 | 0.45 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 9 | 0.45 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 9 | 0.45 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 9 | 0.45 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 9 | 0.45 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 20 | 0.45 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 20 | 0.45 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 10 | 0.45 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 16 | 0.45 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 14 | 0.45 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 7 | 0.45 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 8 | 0.45 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 15 | 0.45 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 13 | 0.45 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 11 | 0.45 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 3 | 0.45 |
| (1,7740) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 8 | 0.45 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 9 | 0.45 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 5 | 0.45 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 4 | 0.45 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 4 | 0.45 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 16 | 0.45 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 14 | 0.45 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 2 | 0.45 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 2 | 0.45 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 18 | 0.45 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 19 | 0.45 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 1 | 0.45 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 18 | 0.45 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 18 | 0.45 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 18 | 0.45 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB2 | 5 | 0.45 |
| (1,7043) | 1:41:A:SER:HA | 1:42:A:SER:HB3 | 5 | 0.45 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 17 | 0.45 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 1 | 0.45 |
| (1,7023) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 13 | 0.45 |
| (1,7023) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 13 | 0.45 |
| (1,7023) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 13 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 5 | 0.45 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 5 | 0.45 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 5 | 0.45 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 20 | 0.45 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 2 | 0.45 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 2 | 0.45 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 2 | 0.45 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 15 | 0.45 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 15 | 0.45 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 15 | 0.45 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 17 | 0.45 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 17 | 0.45 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 17 | 0.45 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 18 | 0.45 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 10 | 0.45 |
| (1,6726) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 9 | 0.45 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 6 | 0.45 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 4 | 0.45 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 16 | 0.45 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 12 | 0.45 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 9 | 0.45 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 9 | 0.45 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 9 | 0.45 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 9 | 0.45 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 9 | 0.45 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 9 | 0.45 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 9 | 0.45 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 9 | 0.45 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 9 | 0.45 |
| (1,6408) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 12 | 0.45 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 14 | 0.45 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 8 | 0.45 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 15 | 0.45 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 15 | 0.45 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 8 | 0.45 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 19 | 0.45 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 12 | 0.45 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 12 | 0.45 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 12 | 0.45 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 18 | 0.45 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 18 | 0.45 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 18 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 4 | 0.45 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 7 | 0.45 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 7 | 0.45 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 7 | 0.45 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 7 | 0.45 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 19 | 0.45 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 19 | 0.45 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 14 | 0.45 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 14 | 0.45 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 1 | 0.45 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 18 | 0.45 |
| (1,5797) | 1:115:A:SER:HB2 | 1:120:A:GLY:H | 19 | 0.45 |
| (1,5797) | 1:115:A:SER:HB3 | 1:120:A:GLY:H | 19 | 0.45 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 15 | 0.45 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 14 | 0.45 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 3 | 0.45 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 13 | 0.45 |
| (1,5548) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 3 | 0.45 |
| (1,5548) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 3 | 0.45 |
| (1,5548) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 3 | 0.45 |
| (1,5548) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 3 | 0.45 |
| (1,5548) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 3 | 0.45 |
| (1,5548) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 3 | 0.45 |
| (1,5548) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 3 | 0.45 |
| (1,5548) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 3 | 0.45 |
| (1,5548) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 3 | 0.45 |
| (1,5516) | 1:96:A:ILE:HA | 1:98:A:SER:H | 4 | 0.45 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 12 | 0.45 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 4 | 0.45 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 4 | 0.45 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 4 | 0.45 |
| (1,5317) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 18 | 0.45 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 19 | 0.45 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 10 | 0.45 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 17 | 0.45 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 17 | 0.45 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 17 | 0.45 |
| (1,5217) | 1:83:A:GLU:H | 1:86:A:LEU:H | 9 | 0.45 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 12 | 0.45 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 16 | 0.45 |
| (1,5157) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 10 | 0.45 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 20 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 1 | 0.45 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 9 | 0.45 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 4 | 0.45 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 12 | 0.45 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 17 | 0.45 |
| (1,4975) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 12 | 0.45 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 18 | 0.45 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 19 | 0.45 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 19 | 0.45 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 19 | 0.45 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 12 | 0.45 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 10 | 0.45 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 10 | 0.45 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 10 | 0.45 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 10 | 0.45 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 10 | 0.45 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 10 | 0.45 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 8 | 0.45 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 8 | 0.45 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 8 | 0.45 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 8 | 0.45 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 8 | 0.45 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 8 | 0.45 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 8 | 0.45 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 8 | 0.45 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 8 | 0.45 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 11 | 0.45 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 11 | 0.45 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 11 | 0.45 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 11 | 0.45 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 17 | 0.45 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 2 | 0.45 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 14 | 0.45 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 14 | 0.45 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 14 | 0.45 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 14 | 0.45 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 14 | 0.45 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 14 | 0.45 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 17 | 0.45 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 17 | 0.45 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 5 | 0.45 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 5 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 5 | 0.45 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 5 | 0.45 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 5 | 0.45 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 5 | 0.45 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 11 | 0.45 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 11 | 0.45 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 14 | 0.45 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 14 | 0.45 |
| (1,4391) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 7 | 0.45 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 18 | 0.45 |
| (1,4355) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 18 | 0.45 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 1 | 0.45 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 1 | 0.45 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA2 | 2 | 0.45 |
| (1,4091) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 2 | 0.45 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA2 | 2 | 0.45 |
| (1,4091) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 2 | 0.45 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA2 | 2 | 0.45 |
| (1,4091) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 2 | 0.45 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 8 | 0.45 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 8 | 0.45 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 8 | 0.45 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 8 | 0.45 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 8 | 0.45 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 8 | 0.45 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 4 | 0.45 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 4 | 0.45 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 12 | 0.45 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 12 | 0.45 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 12 | 0.45 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 12 | 0.45 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 19 | 0.45 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 1 | 0.45 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 1 | 0.45 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 3 | 0.45 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 3 | 0.45 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 17 | 0.45 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 17 | 0.45 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 4 | 0.45 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 4 | 0.45 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 13 | 0.45 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 13 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 12 | 0.45 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 12 | 0.45 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 19 | 0.45 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 19 | 0.45 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 0.45 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 0.45 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 4 | 0.45 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 4 | 0.45 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 20 | 0.45 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 20 | 0.45 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 20 | 0.45 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 20 | 0.45 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 20 | 0.45 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 20 | 0.45 |
| (1,3479) | 1:29:A:THR:HG21 | 1:141:A:LEU:HG | 4 | 0.45 |
| (1,3479) | 1:29:A:THR:HG22 | 1:141:A:LEU:HG | 4 | 0.45 |
| (1,3479) | 1:29:A:THR:HG23 | 1:141:A:LEU:HG | 4 | 0.45 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB1 | 12 | 0.45 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB2 | 12 | 0.45 |
| (1,3475) | 1:28:A:ILE:HB | 1:140:A:ALA:HB3 | 12 | 0.45 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 13 | 0.45 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 15 | 0.45 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 9 | 0.45 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 18 | 0.45 |
| (1,3305) | 1:117:A:LYS:H | 1:117:A:LYS:HB3 | 4 | 0.45 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 17 | 0.45 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 17 | 0.45 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 17 | 0.45 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 10 | 0.45 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 18 | 0.45 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 19 | 0.45 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 19 | 0.45 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 19 | 0.45 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 17 | 0.45 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 8 | 0.45 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 8 | 0.45 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 19 | 0.45 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 20 | 0.45 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 7 | 0.45 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 7 | 0.45 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 7 | 0.45 |
| (1,2961) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 16 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 20 | 0.45 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 14 | 0.45 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 3 | 0.45 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 12 | 0.45 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 12 | 0.45 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 12 | 0.45 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 18 | 0.45 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD11 | 15 | 0.45 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD12 | 15 | 0.45 |
| (1,2865) | 1:28:A:ILE:HA | 1:28:A:ILE:HD13 | 15 | 0.45 |
| (1,2821) | 1:26:A:ASN:HB3 | 1:26:A:ASN:HD21 | 14 | 0.45 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 10 | 0.45 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 12 | 0.45 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 13 | 0.45 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 13 | 0.45 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 4 | 0.45 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 4 | 0.45 |
| (1,2631) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 7 | 0.45 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 13 | 0.45 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 13 | 0.45 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 13 | 0.45 |
| (1,2467) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 17 | 0.45 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 7 | 0.45 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 7 | 0.45 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 7 | 0.45 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 16 | 0.45 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 1 | 0.45 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 20 | 0.45 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 20 | 0.45 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 20 | 0.45 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 9 | 0.45 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 9 | 0.45 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 9 | 0.45 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 12 | 0.45 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 3 | 0.45 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 16 | 0.45 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 14 | 0.45 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 4 | 0.45 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 10 | 0.45 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 8 | 0.45 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 8 | 0.45 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 8 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 13 | 0.45 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 9 | 0.45 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 9 | 0.45 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 9 | 0.45 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 16 | 0.45 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 16 | 0.45 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 16 | 0.45 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 11 | 0.45 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 11 | 0.45 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 11 | 0.45 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 15 | 0.45 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 15 | 0.45 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 15 | 0.45 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 19 | 0.45 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 8 | 0.45 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 19 | 0.45 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 5 | 0.45 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 12 | 0.45 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 1 | 0.45 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 20 | 0.45 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 7 | 0.45 |
| (1,1799) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 19 | 0.45 |
| (1,1799) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 19 | 0.45 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 12 | 0.45 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 12 | 0.45 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 11 | 0.45 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 11 | 0.45 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 11 | 0.45 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 3 | 0.45 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 3 | 0.45 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 3 | 0.45 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 8 | 0.45 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 3 | 0.45 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 3 | 0.45 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 3 | 0.45 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 14 | 0.45 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 18 | 0.45 |
| (1,1481) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 3 | 0.45 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 1 | 0.45 |
| (1,1439) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 9 | 0.45 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 12 | 0.45 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 18 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 11 | 0.45 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 19 | 0.45 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 11 | 0.45 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 20 | 0.45 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 20 | 0.45 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 20 | 0.45 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 20 | 0.45 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 7 | 0.45 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 18 | 0.45 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 10 | 0.45 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 10 | 0.45 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 20 | 0.45 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 20 | 0.45 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 15 | 0.45 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 15 | 0.45 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 15 | 0.45 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 19 | 0.45 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 19 | 0.45 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 19 | 0.45 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 15 | 0.45 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 20 | 0.45 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 7 | 0.45 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 16 | 0.45 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 16 | 0.45 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 16 | 0.45 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 16 | 0.45 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 8 | 0.45 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 8 | 0.45 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 8 | 0.45 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 17 | 0.45 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 9 | 0.45 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 14 | 0.45 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 4 | 0.45 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 13 | 0.45 |
| (1,925) | 1:105:A:SER:HA | 1:105:A:SER:HB2 | 11 | 0.45 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 8 | 0.45 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 8 | 0.45 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 8 | 0.45 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 2 | 0.45 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 2 | 0.45 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 2 | 0.45 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 15 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 3 | 0.45 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 13 | 0.45 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 2 | 0.45 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 2 | 0.45 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 2 | 0.45 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 12 | 0.45 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 12 | 0.45 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 12 | 0.45 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 12 | 0.45 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 12 | 0.45 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 12 | 0.45 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 12 | 0.45 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 12 | 0.45 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 12 | 0.45 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 13 | 0.45 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 13 | 0.45 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 13 | 0.45 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 12 | 0.45 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 7 | 0.45 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 6 | 0.45 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 6 | 0.45 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 6 | 0.45 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 6 | 0.45 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 20 | 0.45 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 20 | 0.45 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 14 | 0.45 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 14 | 0.45 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 14 | 0.45 |
| (1,472) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 10 | 0.45 |
| (1,472) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 10 | 0.45 |
| (1,472) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 10 | 0.45 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 8 | 0.45 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 8 | 0.45 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 8 | 0.45 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 15 | 0.45 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 15 | 0.45 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 15 | 0.45 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 15 | 0.45 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 15 | 0.45 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 15 | 0.45 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 17 | 0.45 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 17 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 20 | 0.45 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 20 | 0.45 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 20 | 0.45 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 15 | 0.45 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 3 | 0.45 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 13 | 0.45 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 12 | 0.45 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 16 | 0.45 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 13 | 0.45 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 13 | 0.45 |
| (1,359) | 1:83:A:GLU:H | 1:83:A:GLU:HA | 18 | 0.45 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 2 | 0.45 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 2 | 0.45 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 2 | 0.45 |
| (1,302) | 1:79:A:THR:HG21 | 1:80:A:ARG:H | 19 | 0.45 |
| (1,302) | 1:79:A:THR:HG22 | 1:80:A:ARG:H | 19 | 0.45 |
| (1,302) | 1:79:A:THR:HG23 | 1:80:A:ARG:H | 19 | 0.45 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 14 | 0.45 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 14 | 0.45 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 14 | 0.45 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 4 | 0.45 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 2 | 0.45 |
| (1,274) | 1:78:A:ILE:H | 1:78:A:ILE:HA | 10 | 0.45 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 10 | 0.45 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 3 | 0.45 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 3 | 0.45 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 8 | 0.45 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 8 | 0.45 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 16 | 0.45 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 16 | 0.45 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 17 | 0.45 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 17 | 0.45 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 7 | 0.45 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 7 | 0.45 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 14 | 0.45 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 14 | 0.45 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 17 | 0.45 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 13 | 0.45 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 13 | 0.45 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 18 | 0.45 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 18 | 0.45 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 18 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 18 | 0.45 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 18 | 0.45 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 18 | 0.45 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 18 | 0.45 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 18 | 0.45 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 18 | 0.45 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 2 | 0.45 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 2 | 0.45 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 2 | 0.45 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 16 | 0.45 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 16 | 0.45 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 16 | 0.45 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 9 | 0.45 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 7 | 0.45 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 12 | 0.45 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 12 | 0.45 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 11 | 0.45 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 14 | 0.45 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 3 | 0.44 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 4 | 0.44 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 20 | 0.44 |
| (4,62) | 1:15:A:MET:CB | 1:120:A:GLY:H | 11 | 0.44 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 3 | 0.44 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 20 | 0.44 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 20 | 0.44 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 3 | 0.44 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 3 | 0.44 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 3 | 0.44 |
| (3,488) | 1:85:A:ALA:H | 1:88:A:LEU:H | 5 | 0.44 |
| (3,102) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 15 | 0.44 |
| (3,102) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 15 | 0.44 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 18 | 0.44 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 18 | 0.44 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 18 | 0.44 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 13 | 0.44 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 13 | 0.44 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 13 | 0.44 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 13 | 0.44 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 13 | 0.44 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 13 | 0.44 |
| (1,9536) | 1:142:A:ARG:HB2 | 1:145:A:GLU:H | 4 | 0.44 |
| (1,9536) | 1:142:A:ARG:HB3 | 1:145:A:GLU:H | 4 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 6 | 0.44 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 6 | 0.44 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 2 | 0.44 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 2 | 0.44 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 9 | 0.44 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 9 | 0.44 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 20 | 0.44 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 20 | 0.44 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD2 | 7 | 0.44 |
| (1,9309) | 1:105:A:SER:H | 1:119:A:ARG:HD3 | 7 | 0.44 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 14 | 0.44 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 14 | 0.44 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 1 | 0.44 |
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 1 | 0.44 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 16 | 0.44 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 16 | 0.44 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 16 | 0.44 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 16 | 0.44 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 17 | 0.44 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 17 | 0.44 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 11 | 0.44 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 11 | 0.44 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 4 | 0.44 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 4 | 0.44 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 18 | 0.44 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 18 | 0.44 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 8 | 0.44 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 8 | 0.44 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 19 | 0.44 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 19 | 0.44 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 1 | 0.44 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 1 | 0.44 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 13 | 0.44 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 13 | 0.44 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 16 | 0.44 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 16 | 0.44 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 17 | 0.44 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 1 | 0.44 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 10 | 0.44 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 7 | 0.44 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 20 | 0.44 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 7 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 8 | 0.44 |
| (1,7705) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 4 | 0.44 |
| (1,7705) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 4 | 0.44 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 14 | 0.44 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 18 | 0.44 |
| (1,7337) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 9 | 0.44 |
| (1,7302) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 6 | 0.44 |
| (1,7284) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 7 | 0.44 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 12 | 0.44 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 16 | 0.44 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 13 | 0.44 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 13 | 0.44 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 13 | 0.44 |
| (1,7180) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 5 | 0.44 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 4 | 0.44 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 12 | 0.44 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 12 | 0.44 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 17 | 0.44 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 15 | 0.44 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 15 | 0.44 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 15 | 0.44 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 8 | 0.44 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 20 | 0.44 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 18 | 0.44 |
| (1,6955) | 1:34:A:TRP:H | 1:34:A:TRP:HD1 | 9 | 0.44 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 14 | 0.44 |
| (1,6935) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 16 | 0.44 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 11 | 0.44 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 11 | 0.44 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 11 | 0.44 |
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 2 | 0.44 |
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 11 | 0.44 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 18 | 0.44 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 12 | 0.44 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 12 | 0.44 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 12 | 0.44 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 12 | 0.44 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 12 | 0.44 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 12 | 0.44 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 12 | 0.44 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 12 | 0.44 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 12 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 2 | 0.44 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 8 | 0.44 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 1 | 0.44 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 4 | 0.44 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 4 | 0.44 |
| (1,6658) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 8 | 0.44 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 8 | 0.44 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 8 | 0.44 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 8 | 0.44 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 8 | 0.44 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 8 | 0.44 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 8 | 0.44 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 2 | 0.44 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 15 | 0.44 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 12 | 0.44 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 12 | 0.44 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 20 | 0.44 |
| (1,6540) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 1 | 0.44 |
| (1,6540) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 13 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 1 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 1 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 1 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 3 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 3 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 3 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 10 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 10 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 10 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 12 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 12 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 12 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 15 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 15 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 15 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 20 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 20 | 0.44 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 20 | 0.44 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 9 | 0.44 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 13 | 0.44 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 13 | 0.44 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 13 | 0.44 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 13 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 13 | 0.44 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 13 | 0.44 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 18 | 0.44 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 18 | 0.44 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 13 | 0.44 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 15 | 0.44 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 8 | 0.44 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 4 | 0.44 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 20 | 0.44 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 5 | 0.44 |
| (1,6151) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 12 | 0.44 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 12 | 0.44 |
| (1,6139) | 1:57:A:CYS:HB3 | 1:139:A:PHE:HZ | 10 | 0.44 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 7 | 0.44 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 7 | 0.44 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 7 | 0.44 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 7 | 0.44 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 7 | 0.44 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 7 | 0.44 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 7 | 0.44 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 7 | 0.44 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 7 | 0.44 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 15 | 0.44 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 10 | 0.44 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 10 | 0.44 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 10 | 0.44 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 12 | 0.44 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 11 | 0.44 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 11 | 0.44 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 11 | 0.44 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 11 | 0.44 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 11 | 0.44 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 11 | 0.44 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 20 | 0.44 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 20 | 0.44 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 20 | 0.44 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 20 | 0.44 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 20 | 0.44 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 20 | 0.44 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 4 | 0.44 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 8 | 0.44 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 8 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 8 | 0.44 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 17 | 0.44 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 1 | 0.44 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 1 | 0.44 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 1 | 0.44 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 10 | 0.44 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 10 | 0.44 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 10 | 0.44 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 13 | 0.44 |
| (1,5347) | 1:87:A:GLU:H | 1:89:A:ILE:H | 8 | 0.44 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 2 | 0.44 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 15 | 0.44 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 15 | 0.44 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 15 | 0.44 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 5 | 0.44 |
| (1,5111) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 13 | 0.44 |
| (1,5111) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 15 | 0.44 |
| (1,5078) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 7 | 0.44 |
| (1,5078) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 7 | 0.44 |
| (1,5078) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 7 | 0.44 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 6 | 0.44 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 6 | 0.44 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 6 | 0.44 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 0.44 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 10 | 0.44 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 7 | 0.44 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 1 | 0.44 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 20 | 0.44 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 2 | 0.44 |
| (1,4933) | 1:65:A:SER:HA | 1:67:A:SER:H | 6 | 0.44 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 16 | 0.44 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 16 | 0.44 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 16 | 0.44 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 4 | 0.44 |
| (1,4717) | 1:55:A:VAL:HG21 | 1:56:A:ARG:H | 8 | 0.44 |
| (1,4717) | 1:55:A:VAL:HG22 | 1:56:A:ARG:H | 8 | 0.44 |
| (1,4717) | 1:55:A:VAL:HG23 | 1:56:A:ARG:H | 8 | 0.44 |
| (1,4664) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 7 | 0.44 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 11 | 0.44 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 11 | 0.44 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 11 | 0.44 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 11 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 11 | 0.44 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 11 | 0.44 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 7 | 0.44 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 7 | 0.44 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 13 | 0.44 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 13 | 0.44 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 14 | 0.44 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 14 | 0.44 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 7 | 0.44 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 7 | 0.44 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 13 | 0.44 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 13 | 0.44 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 20 | 0.44 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 20 | 0.44 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 2 | 0.44 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 2 | 0.44 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 2 | 0.44 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 2 | 0.44 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 2 | 0.44 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 2 | 0.44 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 6 | 0.44 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 6 | 0.44 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 9 | 0.44 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 9 | 0.44 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 9 | 0.44 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 9 | 0.44 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 9 | 0.44 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 9 | 0.44 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 8 | 0.44 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 8 | 0.44 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 8 | 0.44 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 20 | 0.44 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 13 | 0.44 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 5 | 0.44 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 11 | 0.44 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 18 | 0.44 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 5 | 0.44 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 12 | 0.44 |
| (1,3287) | 1:103:A:PHE:H | 1:104:A:GLU:H | 1 | 0.44 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 19 | 0.44 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 19 | 0.44 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 19 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 3 | 0.44 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 9 | 0.44 |
| (1,3255) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 9 | 0.44 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 4 | 0.44 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 4 | 0.44 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 4 | 0.44 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 17 | 0.44 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 17 | 0.44 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 17 | 0.44 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 18 | 0.44 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 18 | 0.44 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 18 | 0.44 |
| (1,3219) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG2 | 2 | 0.44 |
| (1,3219) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG2 | 2 | 0.44 |
| (1,3219) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG2 | 2 | 0.44 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 18 | 0.44 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 1 | 0.44 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 4 | 0.44 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 5 | 0.44 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 5 | 0.44 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 15 | 0.44 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 16 | 0.44 |
| (1,3067) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 9 | 0.44 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 16 | 0.44 |
| (1,2977) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 3 | 0.44 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 14 | 0.44 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 12 | 0.44 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 4 | 0.44 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 4 | 0.44 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 4 | 0.44 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 7 | 0.44 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 7 | 0.44 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 7 | 0.44 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 7 | 0.44 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 7 | 0.44 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 7 | 0.44 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 16 | 0.44 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 16 | 0.44 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 6 | 0.44 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 6 | 0.44 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 6 | 0.44 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 12 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 9 | 0.44 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 7 | 0.44 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 18 | 0.44 |
| (1,2631) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 20 | 0.44 |
| (1,2543) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 8 | 0.44 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 17 | 0.44 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 17 | 0.44 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 8 | 0.44 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 13 | 0.44 |
| (1,2441) | 1:8:A:PRO:HB2 | 1:11:A:TRP:HD1 | 13 | 0.44 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 15 | 0.44 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 12 | 0.44 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 12 | 0.44 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 20 | 0.44 |
| (1,2385) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 1 | 0.44 |
| (1,2385) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 13 | 0.44 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 20 | 0.44 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 1 | 0.44 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 13 | 0.44 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 4 | 0.44 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 4 | 0.44 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 4 | 0.44 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 7 | 0.44 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 10 | 0.44 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 10 | 0.44 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 10 | 0.44 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 1 | 0.44 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 1 | 0.44 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 1 | 0.44 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 12 | 0.44 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 14 | 0.44 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 14 | 0.44 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 14 | 0.44 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 4 | 0.44 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 4 | 0.44 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 4 | 0.44 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 2 | 0.44 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 12 | 0.44 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 8 | 0.44 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 8 | 0.44 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 17 | 0.44 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 17 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 17 | 0.44 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 12 | 0.44 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 12 | 0.44 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 12 | 0.44 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 1 | 0.44 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 1 | 0.44 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 1 | 0.44 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG21 | 3 | 0.44 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG22 | 3 | 0.44 |
| (1,2003) | 1:131:A:GLN:HB2 | 1:152:A:THR:HG23 | 3 | 0.44 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 13 | 0.44 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 15 | 0.44 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 6 | 0.44 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 6 | 0.44 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 6 | 0.44 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 6 | 0.44 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 6 | 0.44 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 6 | 0.44 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 6 | 0.44 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 6 | 0.44 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 6 | 0.44 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 11 | 0.44 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 12 | 0.44 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 10 | 0.44 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 4 | 0.44 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 6 | 0.44 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 6 | 0.44 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 6 | 0.44 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 5 | 0.44 |
| (1,1749) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 12 | 0.44 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 13 | 0.44 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 6 | 0.44 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 13 | 0.44 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 13 | 0.44 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 13 | 0.44 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 20 | 0.44 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 20 | 0.44 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 20 | 0.44 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 20 | 0.44 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 20 | 0.44 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 20 | 0.44 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 20 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 20 | 0.44 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 20 | 0.44 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 20 | 0.44 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 20 | 0.44 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 20 | 0.44 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 15 | 0.44 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 11 | 0.44 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 8 | 0.44 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 16 | 0.44 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 9 | 0.44 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 15 | 0.44 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 3 | 0.44 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 3 | 0.44 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 11 | 0.44 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 11 | 0.44 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 7 | 0.44 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 7 | 0.44 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 7 | 0.44 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 13 | 0.44 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 12 | 0.44 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 2 | 0.44 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 14 | 0.44 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 14 | 0.44 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 18 | 0.44 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 18 | 0.44 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 18 | 0.44 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 18 | 0.44 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 18 | 0.44 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 18 | 0.44 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 2 | 0.44 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 2 | 0.44 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 15 | 0.44 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 18 | 0.44 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 6 | 0.44 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 7 | 0.44 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 4 | 0.44 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 4 | 0.44 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 15 | 0.44 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 12 | 0.44 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 1 | 0.44 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 20 | 0.44 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 20 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 20 | 0.44 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 1 | 0.44 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 6 | 0.44 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 6 | 0.44 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 9 | 0.44 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 20 | 0.44 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 16 | 0.44 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 9 | 0.44 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 14 | 0.44 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 18 | 0.44 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 4 | 0.44 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 8 | 0.44 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 11 | 0.44 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 11 | 0.44 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 11 | 0.44 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 17 | 0.44 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 18 | 0.44 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 8 | 0.44 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 12 | 0.44 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 1 | 0.44 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 1 | 0.44 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 1 | 0.44 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 8 | 0.44 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 8 | 0.44 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 8 | 0.44 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 6 | 0.44 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 8 | 0.44 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 7 | 0.44 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 7 | 0.44 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 7 | 0.44 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 7 | 0.44 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 13 | 0.44 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 12 | 0.44 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 15 | 0.44 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 13 | 0.44 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 6 | 0.44 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 6 | 0.44 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 6 | 0.44 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 6 | 0.44 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 6 | 0.44 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 6 | 0.44 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 6 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 6 | 0.44 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 6 | 0.44 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 16 | 0.44 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 16 | 0.44 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 16 | 0.44 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 13 | 0.44 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 13 | 0.44 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 13 | 0.44 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 7 | 0.44 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 10 | 0.44 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 10 | 0.44 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 10 | 0.44 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD1 | 2 | 0.44 |
| (1,513) | 1:62:A:VAL:HG21 | 1:92:A:TYR:HD2 | 2 | 0.44 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD1 | 2 | 0.44 |
| (1,513) | 1:62:A:VAL:HG22 | 1:92:A:TYR:HD2 | 2 | 0.44 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD1 | 2 | 0.44 |
| (1,513) | 1:62:A:VAL:HG23 | 1:92:A:TYR:HD2 | 2 | 0.44 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD1 | 6 | 0.44 |
| (1,511) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HD2 | 6 | 0.44 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD1 | 6 | 0.44 |
| (1,511) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HD2 | 6 | 0.44 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD1 | 6 | 0.44 |
| (1,511) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HD2 | 6 | 0.44 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 13 | 0.44 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD21 | 19 | 0.44 |
| (1,492) | 1:90:A:ASN:HB3 | 1:90:A:ASN:HD22 | 19 | 0.44 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 4 | 0.44 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 4 | 0.44 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 4 | 0.44 |
| (1,472) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 1 | 0.44 |
| (1,472) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 1 | 0.44 |
| (1,472) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 1 | 0.44 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 7 | 0.44 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 1 | 0.44 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 19 | 0.44 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 19 | 0.44 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 19 | 0.44 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 19 | 0.44 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 19 | 0.44 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 19 | 0.44 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 19 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 11 | 0.44 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 3 | 0.44 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 3 | 0.44 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 3 | 0.44 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 2 | 0.44 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 2 | 0.44 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 2 | 0.44 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 16 | 0.44 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 16 | 0.44 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 16 | 0.44 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 20 | 0.44 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 14 | 0.44 |
| (1,388) | 1:83:A:GLU:H | 1:86:A:LEU:H | 20 | 0.44 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 15 | 0.44 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 3 | 0.44 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 5 | 0.44 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 18 | 0.44 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 18 | 0.44 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 18 | 0.44 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 19 | 0.44 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 19 | 0.44 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 19 | 0.44 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 1 | 0.44 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 19 | 0.44 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 19 | 0.44 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 12 | 0.44 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 12 | 0.44 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 12 | 0.44 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 1 | 0.44 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 2 | 0.44 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 11 | 0.44 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 10 | 0.44 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 10 | 0.44 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 10 | 0.44 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 10 | 0.44 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 10 | 0.44 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 10 | 0.44 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 10 | 0.44 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 10 | 0.44 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 10 | 0.44 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 14 | 0.44 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 14 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 14 | 0.44 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 20 | 0.44 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 20 | 0.44 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 20 | 0.44 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 20 | 0.44 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 20 | 0.44 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 20 | 0.44 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 20 | 0.44 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 20 | 0.44 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 20 | 0.44 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 17 | 0.44 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 17 | 0.44 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 17 | 0.44 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 1 | 0.44 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 5 | 0.44 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 10 | 0.44 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 6 | 0.44 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 6 | 0.44 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 6 | 0.44 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 8 | 0.44 |
| (1,63) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 12 | 0.44 |
| (1,63) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 12 | 0.44 |
| (1,63) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 12 | 0.44 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 6 | 0.44 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 6 | 0.44 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 6 | 0.44 |
| (1,27) | 1:53:A:ALA:HA | 1:54:A:ARG:H | 7 | 0.44 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 17 | 0.44 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 17 | 0.44 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 20 | 0.44 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 20 | 0.44 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 20 | 0.44 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 13 | 0.43 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 1 | 0.43 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 1 | 0.43 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 1 | 0.43 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 1 | 0.43 |
| (3,995) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 19 | 0.43 |
| (3,995) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 19 | 0.43 |
| (3,839) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD2 | 16 | 0.43 |
| (3,839) | 1:62:A:VAL:HG21 | 1:80:A:ARG:HD3 | 16 | 0.43 |
| (3,839) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD2 | 16 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,839) | 1:62:A:VAL:HG22 | 1:80:A:ARG:HD3 | 16 | 0.43 |
| (3,839) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD2 | 16 | 0.43 |
| (3,839) | 1:62:A:VAL:HG23 | 1:80:A:ARG:HD3 | 16 | 0.43 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 6 | 0.43 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 6 | 0.43 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 6 | 0.43 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 1 | 0.43 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 1 | 0.43 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 1 | 0.43 |
| (3,630) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 13 | 0.43 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 9 | 0.43 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 9 | 0.43 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 4 | 0.43 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 4 | 0.43 |
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 4 | 0.43 |
| (3,355) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 4 | 0.43 |
| (3,355) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 9 | 0.43 |
| (3,269) | 1:25:A:PHE:HE1 | 1:27:A:HIS:H | 13 | 0.43 |
| (3,269) | 1:25:A:PHE:HE2 | 1:27:A:HIS:H | 13 | 0.43 |
| (3,210) | 1:11:A:TRP:HD1 | 1:26:A:ASN:HD22 | 5 | 0.43 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 16 | 0.43 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 2 | 0.43 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 2 | 0.43 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 2 | 0.43 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 18 | 0.43 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 18 | 0.43 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 18 | 0.43 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 18 | 0.43 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 18 | 0.43 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 18 | 0.43 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 18 | 0.43 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 18 | 0.43 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 18 | 0.43 |
| (3,10) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 18 | 0.43 |
| (3,10) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 18 | 0.43 |
| (3,10) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 18 | 0.43 |
| (1,9293) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 11 | 0.43 |
| (1,9293) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 11 | 0.43 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 13 | 0.43 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 13 | 0.43 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 3 | 0.43 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 3 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 3 | 0.43 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 3 | 0.43 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 3 | 0.43 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 3 | 0.43 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 13 | 0.43 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 13 | 0.43 |
| (1,8922) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 1 | 0.43 |
| (1,8922) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 1 | 0.43 |
| (1,8863) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG12 | 6 | 0.43 |
| (1,8863) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG13 | 6 | 0.43 |
| (1,8863) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG12 | 6 | 0.43 |
| (1,8863) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG13 | 6 | 0.43 |
| (1,8863) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG12 | 6 | 0.43 |
| (1,8863) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG13 | 6 | 0.43 |
| (1,8756) | 1:55:A:VAL:HA | 1:163:A:GLU:HB2 | 5 | 0.43 |
| (1,8756) | 1:55:A:VAL:HA | 1:163:A:GLU:HB3 | 5 | 0.43 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 18 | 0.43 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 18 | 0.43 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 5 | 0.43 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 5 | 0.43 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 5 | 0.43 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 5 | 0.43 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 6 | 0.43 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 6 | 0.43 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 10 | 0.43 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 10 | 0.43 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 10 | 0.43 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 10 | 0.43 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 10 | 0.43 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 10 | 0.43 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 15 | 0.43 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 15 | 0.43 |
| (1,8541) | 1:5:A:GLU:H | 1:5:A:GLU:HB2 | 15 | 0.43 |
| (1,8541) | 1:5:A:GLU:H | 1:5:A:GLU:HB3 | 15 | 0.43 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 8 | 0.43 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 8 | 0.43 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 8 | 0.43 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 8 | 0.43 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 8 | 0.43 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 8 | 0.43 |
| (1,8479) | 1:153:A:ASP:H | 1:154:A:SER:H | 14 | 0.43 |
| (1,8304) | 1:127:A:ARG:HA | 1:128:A:GLY:HA2 | 10 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8110) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 9 | 0.43 |
| (1,8110) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 9 | 0.43 |
| (1,8110) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 9 | 0.43 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 8 | 0.43 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 8 | 0.43 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 5 | 0.43 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 10 | 0.43 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 10 | 0.43 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 10 | 0.43 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 18 | 0.43 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 18 | 0.43 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 18 | 0.43 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 19 | 0.43 |
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 13 | 0.43 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 13 | 0.43 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 1 | 0.43 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 6 | 0.43 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 4 | 0.43 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 11 | 0.43 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 16 | 0.43 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 14 | 0.43 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 14 | 0.43 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 14 | 0.43 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 12 | 0.43 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 12 | 0.43 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 5 | 0.43 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 13 | 0.43 |
| (1,6931) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 8 | 0.43 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 7 | 0.43 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 7 | 0.43 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 7 | 0.43 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 2 | 0.43 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 11 | 0.43 |
| (1,6805) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 19 | 0.43 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 18 | 0.43 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 11 | 0.43 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 12 | 0.43 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 13 | 0.43 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 20 | 0.43 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 20 | 0.43 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 8 | 0.43 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 8 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 8 | 0.43 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 6 | 0.43 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 5 | 0.43 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 2 | 0.43 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 2 | 0.43 |
| (1,6634) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 16 | 0.43 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 14 | 0.43 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 5 | 0.43 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD11 | 7 | 0.43 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD12 | 7 | 0.43 |
| (1,6516) | 1:7:A:LEU:HB2 | 1:7:A:LEU:HD13 | 7 | 0.43 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 1 | 0.43 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 15 | 0.43 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 9 | 0.43 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 20 | 0.43 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 20 | 0.43 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 7 | 0.43 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 7 | 0.43 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 7 | 0.43 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 7 | 0.43 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG2 | 13 | 0.43 |
| (1,6222) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HG3 | 13 | 0.43 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG2 | 13 | 0.43 |
| (1,6222) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HG3 | 13 | 0.43 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 19 | 0.43 |
| (1,6135) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 2 | 0.43 |
| (1,6135) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 2 | 0.43 |
| (1,6135) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 2 | 0.43 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 12 | 0.43 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 12 | 0.43 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 12 | 0.43 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 12 | 0.43 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 12 | 0.43 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 12 | 0.43 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 16 | 0.43 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 20 | 0.43 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 9 | 0.43 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 9 | 0.43 |
| (1,5686) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 9 | 0.43 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 17 | 0.43 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 7 | 0.43 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 0.43 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 3 | 0.43 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 4 | 0.43 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 4 | 0.43 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 4 | 0.43 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 1 | 0.43 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 1 | 0.43 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 1 | 0.43 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 17 | 0.43 |
| (1,5176) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 5 | 0.43 |
| (1,5176) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 20 | 0.43 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 9 | 0.43 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 12 | 0.43 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 7 | 0.43 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 5 | 0.43 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 12 | 0.43 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 12 | 0.43 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 16 | 0.43 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 16 | 0.43 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 16 | 0.43 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 16 | 0.43 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 16 | 0.43 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 16 | 0.43 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 17 | 0.43 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 3 | 0.43 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 17 | 0.43 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 1 | 0.43 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 5 | 0.43 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 20 | 0.43 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 20 | 0.43 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 6 | 0.43 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 6 | 0.43 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 6 | 0.43 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 6 | 0.43 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 6 | 0.43 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 6 | 0.43 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 12 | 0.43 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 12 | 0.43 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 18 | 0.43 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 18 | 0.43 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 6 | 0.43 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 6 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 8 | 0.43 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 8 | 0.43 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 5 | 0.43 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 5 | 0.43 |
| (1,3887) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 5 | 0.43 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 14 | 0.43 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 14 | 0.43 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 9 | 0.43 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 9 | 0.43 |
| (1,3845) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 12 | 0.43 |
| (1,3845) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 12 | 0.43 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 6 | 0.43 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 6 | 0.43 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 5 | 0.43 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 5 | 0.43 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 5 | 0.43 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 5 | 0.43 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 5 | 0.43 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 5 | 0.43 |
| (1,3359) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 11 | 0.43 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 18 | 0.43 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 18 | 0.43 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 2 | 0.43 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 5 | 0.43 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 2 | 0.43 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 2 | 0.43 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 7 | 0.43 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 8 | 0.43 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 19 | 0.43 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 6 | 0.43 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 13 | 0.43 |
| (1,3073) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 9 | 0.43 |
| (1,3073) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 9 | 0.43 |
| (1,3073) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 9 | 0.43 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 11 | 0.43 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 19 | 0.43 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 5 | 0.43 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 5 | 0.43 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 5 | 0.43 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 10 | 0.43 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 10 | 0.43 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 13 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 13 | 0.43 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 5 | 0.43 |
| (1,2949) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 8 | 0.43 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 19 | 0.43 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 19 | 0.43 |
| (1,2927) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD22 | 15 | 0.43 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 12 | 0.43 |
| (1,2889) | 1:28:A:ILE:HD11 | 1:29:A:THR:H | 8 | 0.43 |
| (1,2889) | 1:28:A:ILE:HD12 | 1:29:A:THR:H | 8 | 0.43 |
| (1,2889) | 1:28:A:ILE:HD13 | 1:29:A:THR:H | 8 | 0.43 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 8 | 0.43 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 8 | 0.43 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 8 | 0.43 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 4 | 0.43 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 10 | 0.43 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 10 | 0.43 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 10 | 0.43 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 3 | 0.43 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 11 | 0.43 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 18 | 0.43 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 18 | 0.43 |
| (1,2711) | 1:23:A:TYR:HD1 | 1:25:A:PHE:HB2 | 19 | 0.43 |
| (1,2711) | 1:23:A:TYR:HD2 | 1:25:A:PHE:HB2 | 19 | 0.43 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 15 | 0.43 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 20 | 0.43 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 14 | 0.43 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 11 | 0.43 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 17 | 0.43 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 17 | 0.43 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 17 | 0.43 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 20 | 0.43 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 0.43 |
| (1,2589) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 20 | 0.43 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 5 | 0.43 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 5 | 0.43 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 5 | 0.43 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 5 | 0.43 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 5 | 0.43 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 5 | 0.43 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 3 | 0.43 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 10 | 0.43 |
| (1,2503) | 1:13:A:LYS:HA | 1:23:A:TYR:H | 12 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2499) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 16 | 0.43 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 5 | 0.43 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 15 | 0.43 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 1 | 0.43 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 7 | 0.43 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 11 | 0.43 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 13 | 0.43 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 16 | 0.43 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 2 | 0.43 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 11 | 0.43 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 1 | 0.43 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 1 | 0.43 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 1 | 0.43 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 20 | 0.43 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 20 | 0.43 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 20 | 0.43 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 9 | 0.43 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 9 | 0.43 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 9 | 0.43 |
| (1,2149) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 19 | 0.43 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 16 | 0.43 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 16 | 0.43 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 16 | 0.43 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 11 | 0.43 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 11 | 0.43 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 11 | 0.43 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 18 | 0.43 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 18 | 0.43 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 18 | 0.43 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 18 | 0.43 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 9 | 0.43 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 19 | 0.43 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 2 | 0.43 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 2 | 0.43 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 2 | 0.43 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 9 | 0.43 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 5 | 0.43 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 8 | 0.43 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 19 | 0.43 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 20 | 0.43 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 20 | 0.43 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 1 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 1 | 0.43 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 1 | 0.43 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 9 | 0.43 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 9 | 0.43 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 9 | 0.43 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 8 | 0.43 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 8 | 0.43 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 8 | 0.43 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 5 | 0.43 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 5 | 0.43 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 5 | 0.43 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 4 | 0.43 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 18 | 0.43 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 2 | 0.43 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 4 | 0.43 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 14 | 0.43 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 14 | 0.43 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 14 | 0.43 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 8 | 0.43 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 15 | 0.43 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 11 | 0.43 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 17 | 0.43 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 17 | 0.43 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 17 | 0.43 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 10 | 0.43 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 10 | 0.43 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 10 | 0.43 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 5 | 0.43 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 1 | 0.43 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 2 | 0.43 |
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 16 | 0.43 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 16 | 0.43 |
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 16 | 0.43 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 4 | 0.43 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 5 | 0.43 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 12 | 0.43 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 20 | 0.43 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 20 | 0.43 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 20 | 0.43 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 16 | 0.43 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 16 | 0.43 |
| (1,1593) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 16 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 7 | 0.43 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 7 | 0.43 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 16 | 0.43 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 8 | 0.43 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 8 | 0.43 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 8 | 0.43 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 20 | 0.43 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 2 | 0.43 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 18 | 0.43 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 14 | 0.43 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 2 | 0.43 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 6 | 0.43 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 6 | 0.43 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 20 | 0.43 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 7 | 0.43 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 2 | 0.43 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 5 | 0.43 |
| (1,1125) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 18 | 0.43 |
| (1,1125) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 18 | 0.43 |
| (1,1125) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 18 | 0.43 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 11 | 0.43 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 11 | 0.43 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 10 | 0.43 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 10 | 0.43 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 10 | 0.43 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 4 | 0.43 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 4 | 0.43 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 4 | 0.43 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 17 | 0.43 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 5 | 0.43 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 5 | 0.43 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 17 | 0.43 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 13 | 0.43 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 17 | 0.43 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 19 | 0.43 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 5 | 0.43 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 5 | 0.43 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 5 | 0.43 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 11 | 0.43 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 11 | 0.43 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 11 | 0.43 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 18 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,631) | 1:95:A:LYS:HB3 | 1:100:A:GLU:H | 5 | 0.43 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 17 | 0.43 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 9 | 0.43 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 10 | 0.43 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 14 | 0.43 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 11 | 0.43 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 11 | 0.43 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 11 | 0.43 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 17 | 0.43 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 20 | 0.43 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 14 | 0.43 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 14 | 0.43 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 14 | 0.43 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 4 | 0.43 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 4 | 0.43 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 6 | 0.43 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 6 | 0.43 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 6 | 0.43 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 9 | 0.43 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 7 | 0.43 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 7 | 0.43 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 1 | 0.43 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 6 | 0.43 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 9 | 0.43 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 15 | 0.43 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 8 | 0.43 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 8 | 0.43 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 8 | 0.43 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 12 | 0.43 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 12 | 0.43 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 12 | 0.43 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 12 | 0.43 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 4 | 0.43 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 4 | 0.43 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 4 | 0.43 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 16 | 0.43 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 16 | 0.43 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 16 | 0.43 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 13 | 0.43 |
| (1,242) | 1:75:A:GLN:HA | 1:75:A:GLN:HB2 | 19 | 0.43 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 13 | 0.43 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 20 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 8 | 0.43 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 11 | 0.43 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 18 | 0.43 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 18 | 0.43 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 13 | 0.43 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 13 | 0.43 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 13 | 0.43 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 4 | 0.43 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 4 | 0.43 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 3 | 0.43 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 14 | 0.43 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 14 | 0.43 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 6 | 0.43 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 6 | 0.43 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 6 | 0.43 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 6 | 0.43 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 6 | 0.43 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 6 | 0.43 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 6 | 0.43 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 6 | 0.43 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 6 | 0.43 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 8 | 0.43 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 8 | 0.43 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 8 | 0.43 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 8 | 0.43 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 8 | 0.43 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 8 | 0.43 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 8 | 0.43 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 8 | 0.43 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 8 | 0.43 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 15 | 0.43 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 15 | 0.43 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 15 | 0.43 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 14 | 0.43 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 17 | 0.43 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 17 | 0.43 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 17 | 0.43 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 1 | 0.43 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 1 | 0.43 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 1 | 0.43 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 7 | 0.43 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 7 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 7 | 0.43 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 7 | 0.43 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 7 | 0.43 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 7 | 0.43 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 7 | 0.43 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 7 | 0.43 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 7 | 0.43 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 11 | 0.43 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 11 | 0.43 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 11 | 0.43 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 11 | 0.43 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 11 | 0.43 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 11 | 0.43 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 14 | 0.43 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 18 | 0.43 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 20 | 0.43 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 5 | 0.43 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 5 | 0.43 |
| (1,104) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 5 | 0.43 |
| (1,101) | 1:59:A:HIS:H | 1:59:A:HIS:HA | 19 | 0.43 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 9 | 0.43 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 3 | 0.43 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 6 | 0.43 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 17 | 0.43 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 1 | 0.43 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 5 | 0.43 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 3 | 0.43 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 3 | 0.43 |
| (4,316) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 3 | 0.42 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 2 | 0.42 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 2 | 0.42 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 19 | 0.42 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 19 | 0.42 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 12 | 0.42 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 12 | 0.42 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 4 | 0.42 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 4 | 0.42 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 4 | 0.42 |
| (3,648) | 1:132:A:LYS:HD2 | 1:136:A:ASP:H | 7 | 0.42 |
| (3,648) | 1:132:A:LYS:HD3 | 1:136:A:ASP:H | 7 | 0.42 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 1 | 0.42 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 6 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD11 | 2 | 0.42 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD12 | 2 | 0.42 |
| (3,572) | 1:101:A:GLU:HA | 1:106:A:LEU:HD13 | 2 | 0.42 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 9 | 0.42 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 9 | 0.42 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 16 | 0.42 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 16 | 0.42 |
| (3,416) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 13 | 0.42 |
| (3,416) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 13 | 0.42 |
| (3,416) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 13 | 0.42 |
| (3,409) | 1:61:A:LEU:H | 1:157:A:HIS:H | 11 | 0.42 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 17 | 0.42 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 16 | 0.42 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 16 | 0.42 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 16 | 0.42 |
| (3,206) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 4 | 0.42 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 8 | 0.42 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 13 | 0.42 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 13 | 0.42 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 17 | 0.42 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 17 | 0.42 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 5 | 0.42 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 5 | 0.42 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 19 | 0.42 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 19 | 0.42 |
| (3,61) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 9 | 0.42 |
| (3,61) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 9 | 0.42 |
| (3,61) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 9 | 0.42 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 4 | 0.42 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 4 | 0.42 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 8 | 0.42 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 8 | 0.42 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 16 | 0.42 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 16 | 0.42 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 16 | 0.42 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 16 | 0.42 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 16 | 0.42 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 16 | 0.42 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 16 | 0.42 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 16 | 0.42 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 16 | 0.42 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 4 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 4 | 0.42 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 4 | 0.42 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 4 | 0.42 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 4 | 0.42 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 4 | 0.42 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 15 | 0.42 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 15 | 0.42 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 16 | 0.42 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 16 | 0.42 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 16 | 0.42 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 16 | 0.42 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 16 | 0.42 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 16 | 0.42 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 16 | 0.42 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 16 | 0.42 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 10 | 0.42 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 10 | 0.42 |
| (1,9208) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 13 | 0.42 |
| (1,9208) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 13 | 0.42 |
| (1,9208) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 13 | 0.42 |
| (1,9208) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 13 | 0.42 |
| (1,9206) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG2 | 13 | 0.42 |
| (1,9206) | 1:95:A:LYS:HG2 | 1:101:A:GLU:HG3 | 13 | 0.42 |
| (1,9206) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG2 | 13 | 0.42 |
| (1,9206) | 1:95:A:LYS:HG3 | 1:101:A:GLU:HG3 | 13 | 0.42 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 4 | 0.42 |
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 4 | 0.42 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 2 | 0.42 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 2 | 0.42 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 2 | 0.42 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 2 | 0.42 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 1 | 0.42 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 1 | 0.42 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 7 | 0.42 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 7 | 0.42 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 20 | 0.42 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 20 | 0.42 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 16 | 0.42 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 16 | 0.42 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 13 | 0.42 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 13 | 0.42 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 18 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 18 | 0.42 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 3 | 0.42 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 3 | 0.42 |
| (1,8699) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 5 | 0.42 |
| (1,8699) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 5 | 0.42 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 12 | 0.42 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 12 | 0.42 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 12 | 0.42 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 12 | 0.42 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 1 | 0.42 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 2 | 0.42 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 4 | 0.42 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 9 | 0.42 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 2 | 0.42 |
| (1,7962) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG21 | 18 | 0.42 |
| (1,7962) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG22 | 18 | 0.42 |
| (1,7962) | 1:77:A:LYS:HG2 | 1:79:A:THR:HG23 | 18 | 0.42 |
| (1,7719) | 1:54:A:ARG:H | 1:55:A:VAL:HA | 12 | 0.42 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 13 | 0.42 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 13 | 0.42 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 19 | 0.42 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 15 | 0.42 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 1 | 0.42 |
| (1,7473) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 19 | 0.42 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 9 | 0.42 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 9 | 0.42 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 9 | 0.42 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 2 | 0.42 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 6 | 0.42 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 6 | 0.42 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 6 | 0.42 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 8 | 0.42 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 15 | 0.42 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 8 | 0.42 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 10 | 0.42 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 17 | 0.42 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 17 | 0.42 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 10 | 0.42 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 11 | 0.42 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 20 | 0.42 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 7 | 0.42 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 6 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 8 | 0.42 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 13 | 0.42 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 10 | 0.42 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 10 | 0.42 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 11 | 0.42 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 9 | 0.42 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 8 | 0.42 |
| (1,6929) | 1:32:A:SER:HA | 1:33:A:GLN:H | 10 | 0.42 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 16 | 0.42 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 13 | 0.42 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 12 | 0.42 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 8 | 0.42 |
| (1,6805) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 10 | 0.42 |
| (1,6805) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 17 | 0.42 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 16 | 0.42 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 3 | 0.42 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 16 | 0.42 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 20 | 0.42 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 11 | 0.42 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 13 | 0.42 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 6 | 0.42 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 6 | 0.42 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 6 | 0.42 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 14 | 0.42 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 1 | 0.42 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 6 | 0.42 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 8 | 0.42 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 20 | 0.42 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 20 | 0.42 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 20 | 0.42 |
| (1,6272) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 20 | 0.42 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 9 | 0.42 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 2 | 0.42 |
| (1,6265) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 2 | 0.42 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 2 | 0.42 |
| (1,6265) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 2 | 0.42 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 2 | 0.42 |
| (1,6265) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 2 | 0.42 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 18 | 0.42 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 18 | 0.42 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 18 | 0.42 |
| (1,6224) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 16 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6224) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 16 | 0.42 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 8 | 0.42 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 13 | 0.42 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 19 | 0.42 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 8 | 0.42 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 2 | 0.42 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 9 | 0.42 |
| (1,6137) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 4 | 0.42 |
| (1,6137) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 4 | 0.42 |
| (1,6137) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 4 | 0.42 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 4 | 0.42 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 15 | 0.42 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 15 | 0.42 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 5 | 0.42 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 12 | 0.42 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 12 | 0.42 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 18 | 0.42 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 18 | 0.42 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 18 | 0.42 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 13 | 0.42 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 13 | 0.42 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 13 | 0.42 |
| (1,5702) | 1:106:A:LEU:HG | 1:107:A:ALA:H | 16 | 0.42 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 7 | 0.42 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 14 | 0.42 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 2 | 0.42 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 5 | 0.42 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 18 | 0.42 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 14 | 0.42 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 15 | 0.42 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 15 | 0.42 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 8 | 0.42 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 8 | 0.42 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 8 | 0.42 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 19 | 0.42 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 3 | 0.42 |
| (1,5295) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 4 | 0.42 |
| (1,5267) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 18 | 0.42 |
| (1,5267) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 18 | 0.42 |
| (1,5267) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 18 | 0.42 |
| (1,5176) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 10 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 2 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 2 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 2 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 6 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 6 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 6 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 9 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 9 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 9 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 12 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 12 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 12 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 14 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 14 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 14 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 19 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 19 | 0.42 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 19 | 0.42 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 20 | 0.42 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 2 | 0.42 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 2 | 0.42 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 3 | 0.42 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 3 | 0.42 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 4 | 0.42 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 4 | 0.42 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 18 | 0.42 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 20 | 0.42 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 2 | 0.42 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 17 | 0.42 |
| (1,4996) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 16 | 0.42 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 8 | 0.42 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 7 | 0.42 |
| (1,4927) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 14 | 0.42 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 13 | 0.42 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 13 | 0.42 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 13 | 0.42 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 19 | 0.42 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 6 | 0.42 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 6 | 0.42 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 6 | 0.42 |
| (1,4850) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 9 | 0.42 |
| (1,4850) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 9 | 0.42 |
| (1,4850) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 9 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 15 | 0.42 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 11 | 0.42 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 11 | 0.42 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 11 | 0.42 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 4 | 0.42 |
| (1,4747) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 3 | 0.42 |
| (1,4626) | 1:50:A:GLY:H | 1:51:A:GLU:H | 7 | 0.42 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 9 | 0.42 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 9 | 0.42 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 7 | 0.42 |
| (1,4389) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 7 | 0.42 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 6 | 0.42 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 6 | 0.42 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 14 | 0.42 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 14 | 0.42 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 8 | 0.42 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 8 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 1 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 1 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 1 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 1 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 1 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 1 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 17 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 17 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 17 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 17 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 17 | 0.42 |
| (1,4011) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 17 | 0.42 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 7 | 0.42 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 7 | 0.42 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 6 | 0.42 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 6 | 0.42 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 2 | 0.42 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 2 | 0.42 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 6 | 0.42 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 6 | 0.42 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 12 | 0.42 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 12 | 0.42 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 10 | 0.42 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 10 | 0.42 |
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 14 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3745) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 14 | 0.42 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 14 | 0.42 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 14 | 0.42 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 14 | 0.42 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 14 | 0.42 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 14 | 0.42 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 14 | 0.42 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 15 | 0.42 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 15 | 0.42 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 15 | 0.42 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 17 | 0.42 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 17 | 0.42 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 6 | 0.42 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 10 | 0.42 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 8 | 0.42 |
| (1,3329) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 18 | 0.42 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 9 | 0.42 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 19 | 0.42 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 1 | 0.42 |
| (1,3227) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 7 | 0.42 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 5 | 0.42 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 7 | 0.42 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 19 | 0.42 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 19 | 0.42 |
| (1,3001) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 18 | 0.42 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 9 | 0.42 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 8 | 0.42 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 7 | 0.42 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 2 | 0.42 |
| (1,2945) | 1:32:A:SER:HA | 1:33:A:GLN:H | 10 | 0.42 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 12 | 0.42 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 12 | 0.42 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 12 | 0.42 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 1 | 0.42 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 1 | 0.42 |
| (1,2893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 1 | 0.42 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 11 | 0.42 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 10 | 0.42 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 18 | 0.42 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 3 | 0.42 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 3 | 0.42 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 3 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 15 | 0.42 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 15 | 0.42 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 15 | 0.42 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 13 | 0.42 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 12 | 0.42 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 8 | 0.42 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 16 | 0.42 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 2 | 0.42 |
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 20 | 0.42 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 20 | 0.42 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 20 | 0.42 |
| (1,2695) | 1:23:A:TYR:H | 1:23:A:TYR:HB2 | 15 | 0.42 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 18 | 0.42 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 18 | 0.42 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 18 | 0.42 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 4 | 0.42 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 18 | 0.42 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 7 | 0.42 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 7 | 0.42 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 7 | 0.42 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 14 | 0.42 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 11 | 0.42 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 11 | 0.42 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 11 | 0.42 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 3 | 0.42 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 20 | 0.42 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 15 | 0.42 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 11 | 0.42 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 11 | 0.42 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 11 | 0.42 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 2 | 0.42 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 4 | 0.42 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 7 | 0.42 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 10 | 0.42 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 1 | 0.42 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 5 | 0.42 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 15 | 0.42 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 8 | 0.42 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 14 | 0.42 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 3 | 0.42 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 3 | 0.42 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 3 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 20 | 0.42 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 20 | 0.42 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 20 | 0.42 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 1 | 0.42 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 6 | 0.42 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 16 | 0.42 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 16 | 0.42 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 16 | 0.42 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 16 | 0.42 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 16 | 0.42 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 16 | 0.42 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 16 | 0.42 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 16 | 0.42 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 16 | 0.42 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 4 | 0.42 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 9 | 0.42 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 15 | 0.42 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 5 | 0.42 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 5 | 0.42 |
| (1,2005) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 5 | 0.42 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 14 | 0.42 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 16 | 0.42 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 8 | 0.42 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 20 | 0.42 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 20 | 0.42 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 20 | 0.42 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 20 | 0.42 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 7 | 0.42 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 7 | 0.42 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 7 | 0.42 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 9 | 0.42 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 7 | 0.42 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 7 | 0.42 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 7 | 0.42 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 7 | 0.42 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 7 | 0.42 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 7 | 0.42 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 7 | 0.42 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 7 | 0.42 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 7 | 0.42 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 10 | 0.42 |
| (1,1889) | 1:146:A:MET:HB2 | 1:146:A:MET:HG2 | 18 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 18 | 0.42 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 11 | 0.42 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 8 | 0.42 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 13 | 0.42 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 19 | 0.42 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 8 | 0.42 |
| (1,1767) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 14 | 0.42 |
| (1,1767) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 14 | 0.42 |
| (1,1767) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 14 | 0.42 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 2 | 0.42 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 9 | 0.42 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 19 | 0.42 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 4 | 0.42 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 4 | 0.42 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 4 | 0.42 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 3 | 0.42 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 3 | 0.42 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 3 | 0.42 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 15 | 0.42 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 1 | 0.42 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 14 | 0.42 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 5 | 0.42 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 10 | 0.42 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 10 | 0.42 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 10 | 0.42 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 10 | 0.42 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 8 | 0.42 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 8 | 0.42 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 8 | 0.42 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 8 | 0.42 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 8 | 0.42 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 8 | 0.42 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 9 | 0.42 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 9 | 0.42 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 9 | 0.42 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 9 | 0.42 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 9 | 0.42 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 9 | 0.42 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 4 | 0.42 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 4 | 0.42 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 2 | 0.42 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 2 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 17 | 0.42 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 17 | 0.42 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 12 | 0.42 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 18 | 0.42 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 3 | 0.42 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 7 | 0.42 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 7 | 0.42 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 7 | 0.42 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 17 | 0.42 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 17 | 0.42 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 17 | 0.42 |
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 5 | 0.42 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 7 | 0.42 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 18 | 0.42 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 14 | 0.42 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 9 | 0.42 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 9 | 0.42 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 9 | 0.42 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 9 | 0.42 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 9 | 0.42 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 9 | 0.42 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 4 | 0.42 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 4 | 0.42 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 4 | 0.42 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 4 | 0.42 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 4 | 0.42 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 4 | 0.42 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 14 | 0.42 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 12 | 0.42 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 16 | 0.42 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 1 | 0.42 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 14 | 0.42 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 15 | 0.42 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 10 | 0.42 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 10 | 0.42 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 10 | 0.42 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 8 | 0.42 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 8 | 0.42 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 8 | 0.42 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 13 | 0.42 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 13 | 0.42 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 13 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 9 | 0.42 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 9 | 0.42 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 9 | 0.42 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 8 | 0.42 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 4 | 0.42 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 4 | 0.42 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 4 | 0.42 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 18 | 0.42 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 18 | 0.42 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 18 | 0.42 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 16 | 0.42 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 19 | 0.42 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 4 | 0.42 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 9 | 0.42 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 9 | 0.42 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 9 | 0.42 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 13 | 0.42 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 13 | 0.42 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 13 | 0.42 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 10 | 0.42 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 10 | 0.42 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 10 | 0.42 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 14 | 0.42 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 14 | 0.42 |
| (1,467) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 14 | 0.42 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 14 | 0.42 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 14 | 0.42 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 14 | 0.42 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 20 | 0.42 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 20 | 0.42 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 20 | 0.42 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 6 | 0.42 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 6 | 0.42 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 6 | 0.42 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 11 | 0.42 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 11 | 0.42 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 11 | 0.42 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 19 | 0.42 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 19 | 0.42 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 19 | 0.42 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 8 | 0.42 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 11 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 6 | 0.42 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 9 | 0.42 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 10 | 0.42 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 6 | 0.42 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 20 | 0.42 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 13 | 0.42 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 13 | 0.42 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 13 | 0.42 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 5 | 0.42 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 5 | 0.42 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 5 | 0.42 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 1 | 0.42 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 1 | 0.42 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 1 | 0.42 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 1 | 0.42 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 1 | 0.42 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 1 | 0.42 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 6 | 0.42 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 6 | 0.42 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 6 | 0.42 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 2 | 0.42 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 13 | 0.42 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 13 | 0.42 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 2 | 0.42 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 8 | 0.42 |
| (1,221) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 8 | 0.42 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 7 | 0.42 |
| (1,200) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 13 | 0.42 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 2 | 0.42 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 2 | 0.42 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 2 | 0.42 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG2 | 8 | 0.42 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG3 | 8 | 0.42 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 2 | 0.42 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 2 | 0.42 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG21 | 2 | 0.42 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG22 | 2 | 0.42 |
| (1,148) | 1:62:A:VAL:HG11 | 1:156:A:ILE:HG23 | 2 | 0.42 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG21 | 2 | 0.42 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG22 | 2 | 0.42 |
| (1,148) | 1:62:A:VAL:HG12 | 1:156:A:ILE:HG23 | 2 | 0.42 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG21 | 2 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG22 | 2 | 0.42 |
| (1,148) | 1:62:A:VAL:HG13 | 1:156:A:ILE:HG23 | 2 | 0.42 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 19 | 0.42 |
| (1,118) | 1:60:A:LEU:HD11 | 1:111:A:SER:H | 16 | 0.42 |
| (1,118) | 1:60:A:LEU:HD12 | 1:111:A:SER:H | 16 | 0.42 |
| (1,118) | 1:60:A:LEU:HD13 | 1:111:A:SER:H | 16 | 0.42 |
| (1,116) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 17 | 0.42 |
| (1,116) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 17 | 0.42 |
| (1,116) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 17 | 0.42 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 6 | 0.42 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 12 | 0.42 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 4 | 0.42 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 4 | 0.42 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 4 | 0.42 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 4 | 0.42 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 4 | 0.42 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 4 | 0.42 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 4 | 0.42 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 5 | 0.42 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 5 | 0.42 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 5 | 0.42 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 8 | 0.42 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 18 | 0.42 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 18 | 0.42 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 18 | 0.42 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 18 | 0.42 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 12 | 0.42 |
| (4,292) | 1:98:A:SER:CB | 1:15:A:MET:H | 8 | 0.41 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 5 | 0.41 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 5 | 0.41 |
| (4,193) | 1:131:A:GLN:CB | 1:22:A:VAL:H | 10 | 0.41 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 14 | 0.41 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 10 | 0.41 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 10 | 0.41 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 10 | 0.41 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 10 | 0.41 |
| (3,995) | 1:126:A:SER:H | 1:129:A:GLN:HG2 | 6 | 0.41 |
| (3,995) | 1:126:A:SER:H | 1:129:A:GLN:HG3 | 6 | 0.41 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 19 | 0.41 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 19 | 0.41 |
| (3,911) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 9 | 0.41 |
| (3,911) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 9 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,876) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 8 | 0.41 |
| (3,876) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 8 | 0.41 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 18 | 0.41 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 18 | 0.41 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 18 | 0.41 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 18 | 0.41 |
| (3,783) | 1:15:A:MET:HG2 | 1:17:A:ARG:HA | 3 | 0.41 |
| (3,783) | 1:15:A:MET:HG3 | 1:17:A:ARG:HA | 3 | 0.41 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 2 | 0.41 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 2 | 0.41 |
| (3,734) | 1:152:A:THR:H | 1:157:A:HIS:H | 8 | 0.41 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 4 | 0.41 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 4 | 0.41 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 4 | 0.41 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 4 | 0.41 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 4 | 0.41 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 4 | 0.41 |
| (3,565) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD11 | 13 | 0.41 |
| (3,565) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD12 | 13 | 0.41 |
| (3,565) | 1:96:A:ILE:HD11 | 1:158:A:ILE:HD13 | 13 | 0.41 |
| (3,565) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD11 | 13 | 0.41 |
| (3,565) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD12 | 13 | 0.41 |
| (3,565) | 1:96:A:ILE:HD12 | 1:158:A:ILE:HD13 | 13 | 0.41 |
| (3,565) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD11 | 13 | 0.41 |
| (3,565) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD12 | 13 | 0.41 |
| (3,565) | 1:96:A:ILE:HD13 | 1:158:A:ILE:HD13 | 13 | 0.41 |
| (3,488) | 1:85:A:ALA:H | 1:88:A:LEU:H | 4 | 0.41 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 6 | 0.41 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 6 | 0.41 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 6 | 0.41 |
| (3,388) | 1:60:A:LEU:HG | 1:111:A:SER:H | 12 | 0.41 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 20 | 0.41 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 20 | 0.41 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 7 | 0.41 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 7 | 0.41 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 16 | 0.41 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 16 | 0.41 |
| (3,45) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 16 | 0.41 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 16 | 0.41 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 16 | 0.41 |
| (3,45) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 16 | 0.41 |
| (3,18) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 19 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 9 | 0.41 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 9 | 0.41 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 9 | 0.41 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 1 | 0.41 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 1 | 0.41 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 3 | 0.41 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 3 | 0.41 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 13 | 0.41 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 13 | 0.41 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 2 | 0.41 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 2 | 0.41 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 4 | 0.41 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 4 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 2 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 2 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 6 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 6 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 8 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 8 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 11 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 11 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 17 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 17 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 19 | 0.41 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 19 | 0.41 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 10 | 0.41 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 10 | 0.41 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 7 | 0.41 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 7 | 0.41 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 7 | 0.41 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 7 | 0.41 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 9 | 0.41 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 9 | 0.41 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 16 | 0.41 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 16 | 0.41 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 7 | 0.41 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 7 | 0.41 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 18 | 0.41 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 18 | 0.41 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 18 | 0.41 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 18 | 0.41 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 19 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 19 | 0.41 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 19 | 0.41 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 19 | 0.41 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 19 | 0.41 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 19 | 0.41 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 16 | 0.41 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 16 | 0.41 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 14 | 0.41 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 14 | 0.41 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 18 | 0.41 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 18 | 0.41 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 11 | 0.41 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 11 | 0.41 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 1 | 0.41 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 1 | 0.41 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 1 | 0.41 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 1 | 0.41 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 1 | 0.41 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 1 | 0.41 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 6 | 0.41 |
| (1,8306) | 1:127:A:ARG:HA | 1:128:A:GLY:HA3 | 20 | 0.41 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 11 | 0.41 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 7 | 0.41 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 11 | 0.41 |
| (1,7573) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 4 | 0.41 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 8 | 0.41 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 12 | 0.41 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 6 | 0.41 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 6 | 0.41 |
| (1,7304) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 4 | 0.41 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 10 | 0.41 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 6 | 0.41 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 13 | 0.41 |
| (1,7221) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 4 | 0.41 |
| (1,7221) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 11 | 0.41 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 16 | 0.41 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 16 | 0.41 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 16 | 0.41 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 20 | 0.41 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 17 | 0.41 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 10 | 0.41 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 17 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 9 | 0.41 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 18 | 0.41 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 13 | 0.41 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 15 | 0.41 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 11 | 0.41 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 12 | 0.41 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 10 | 0.41 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 12 | 0.41 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 1 | 0.41 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 2 | 0.41 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 8 | 0.41 |
| (1,6847) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 1 | 0.41 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 8 | 0.41 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 1 | 0.41 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 16 | 0.41 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 18 | 0.41 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 18 | 0.41 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 18 | 0.41 |
| (1,6679) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 12 | 0.41 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 6 | 0.41 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 11 | 0.41 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 14 | 0.41 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 2 | 0.41 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 17 | 0.41 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 20 | 0.41 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 4 | 0.41 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 4 | 0.41 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 4 | 0.41 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 4 | 0.41 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 4 | 0.41 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 4 | 0.41 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 4 | 0.41 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 4 | 0.41 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 4 | 0.41 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 8 | 0.41 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 8 | 0.41 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 8 | 0.41 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 8 | 0.41 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 8 | 0.41 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 8 | 0.41 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 8 | 0.41 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 8 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 8 | 0.41 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 20 | 0.41 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 20 | 0.41 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 20 | 0.41 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 8 | 0.41 |
| (1,6368) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 7 | 0.41 |
| (1,6368) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 7 | 0.41 |
| (1,6368) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 7 | 0.41 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 4 | 0.41 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 12 | 0.41 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 13 | 0.41 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 15 | 0.41 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 14 | 0.41 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 2 | 0.41 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 2 | 0.41 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 13 | 0.41 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 12 | 0.41 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 8 | 0.41 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 8 | 0.41 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 8 | 0.41 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 6 | 0.41 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 6 | 0.41 |
| (1,6030) | 1:133:A:PRO:HG2 | 1:134:A:PHE:H | 8 | 0.41 |
| (1,6030) | 1:133:A:PRO:HG3 | 1:134:A:PHE:H | 8 | 0.41 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 8 | 0.41 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 13 | 0.41 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 5 | 0.41 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 5 | 0.41 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 19 | 0.41 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 5 | 0.41 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 8 | 0.41 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 4 | 0.41 |
| (1,5777) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 4 | 0.41 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 1 | 0.41 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 19 | 0.41 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 19 | 0.41 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 6 | 0.41 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 8 | 0.41 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 12 | 0.41 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 8 | 0.41 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 9 | 0.41 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 9 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 9 | 0.41 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 9 | 0.41 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 9 | 0.41 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 9 | 0.41 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 9 | 0.41 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 9 | 0.41 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 9 | 0.41 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 16 | 0.41 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 2 | 0.41 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 2 | 0.41 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 2 | 0.41 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 6 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 3 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 3 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 3 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 4 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 4 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 4 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 8 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 8 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 8 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 15 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 15 | 0.41 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 15 | 0.41 |
| (1,5111) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 12 | 0.41 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 2 | 0.41 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 14 | 0.41 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 14 | 0.41 |
| (1,5048) | 1:77:A:LYS:HD2 | 1:79:A:THR:H | 15 | 0.41 |
| (1,5048) | 1:77:A:LYS:HD3 | 1:79:A:THR:H | 15 | 0.41 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 3 | 0.41 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 6 | 0.41 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 8 | 0.41 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 13 | 0.41 |
| (1,4969) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 5 | 0.41 |
| (1,4969) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 5 | 0.41 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 7 | 0.41 |
| (1,4937) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 16 | 0.41 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 16 | 0.41 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 12 | 0.41 |
| (1,4747) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 20 | 0.41 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 6 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4721) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 1 | 0.41 |
| (1,4721) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 1 | 0.41 |
| (1,4721) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 1 | 0.41 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 17 | 0.41 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 17 | 0.41 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 17 | 0.41 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 18 | 0.41 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 17 | 0.41 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 17 | 0.41 |
| (1,4672) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 17 | 0.41 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 6 | 0.41 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 7 | 0.41 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 15 | 0.41 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 15 | 0.41 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 19 | 0.41 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 19 | 0.41 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 19 | 0.41 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 19 | 0.41 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 19 | 0.41 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 19 | 0.41 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 3 | 0.41 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 3 | 0.41 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 16 | 0.41 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 16 | 0.41 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 2 | 0.41 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 2 | 0.41 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 17 | 0.41 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 17 | 0.41 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 17 | 0.41 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 17 | 0.41 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 17 | 0.41 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 17 | 0.41 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 7 | 0.41 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 7 | 0.41 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 7 | 0.41 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 7 | 0.41 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 16 | 0.41 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 16 | 0.41 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 16 | 0.41 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 16 | 0.41 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 4 | 0.41 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 4 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 7 | 0.41 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 7 | 0.41 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 16 | 0.41 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 16 | 0.41 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 1 | 0.41 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 1 | 0.41 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 11 | 0.41 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 11 | 0.41 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 13 | 0.41 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 13 | 0.41 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 13 | 0.41 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 13 | 0.41 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 13 | 0.41 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 13 | 0.41 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 7 | 0.41 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 7 | 0.41 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 9 | 0.41 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 9 | 0.41 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 10 | 0.41 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 10 | 0.41 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 19 | 0.41 |
| (1,3629) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 19 | 0.41 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 15 | 0.41 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 15 | 0.41 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 15 | 0.41 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 15 | 0.41 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 15 | 0.41 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 15 | 0.41 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 6 | 0.41 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 6 | 0.41 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 9 | 0.41 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 17 | 0.41 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 17 | 0.41 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 17 | 0.41 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 20 | 0.41 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 20 | 0.41 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 12 | 0.41 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 6 | 0.41 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 6 | 0.41 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 8 | 0.41 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 16 | 0.41 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 10 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 9 | 0.41 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 9 | 0.41 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 9 | 0.41 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 14 | 0.41 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 15 | 0.41 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 8 | 0.41 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 18 | 0.41 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 1 | 0.41 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 1 | 0.41 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 1 | 0.41 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 14 | 0.41 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 14 | 0.41 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 14 | 0.41 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 18 | 0.41 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 18 | 0.41 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 18 | 0.41 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 17 | 0.41 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 8 | 0.41 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 14 | 0.41 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 14 | 0.41 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 18 | 0.41 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 7 | 0.41 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 7 | 0.41 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 7 | 0.41 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 7 | 0.41 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 7 | 0.41 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 7 | 0.41 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 7 | 0.41 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 7 | 0.41 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 7 | 0.41 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 2 | 0.41 |
| (1,2631) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 1 | 0.41 |
| (1,2631) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 13 | 0.41 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 6 | 0.41 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 12 | 0.41 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 19 | 0.41 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 19 | 0.41 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 19 | 0.41 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 19 | 0.41 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 10 | 0.41 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 10 | 0.41 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 10 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 20 | 0.41 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 4 | 0.41 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 14 | 0.41 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 19 | 0.41 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 20 | 0.41 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 18 | 0.41 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 1 | 0.41 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 14 | 0.41 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 18 | 0.41 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 18 | 0.41 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 18 | 0.41 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 18 | 0.41 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 18 | 0.41 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 18 | 0.41 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 18 | 0.41 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 18 | 0.41 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 18 | 0.41 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 15 | 0.41 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 12 | 0.41 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 12 | 0.41 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 13 | 0.41 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 13 | 0.41 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 4 | 0.41 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 12 | 0.41 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 10 | 0.41 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 10 | 0.41 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 10 | 0.41 |
| (1,1913) | 1:146:A:MET:HE1 | 1:147:A:SER:H | 4 | 0.41 |
| (1,1913) | 1:146:A:MET:HE2 | 1:147:A:SER:H | 4 | 0.41 |
| (1,1913) | 1:146:A:MET:HE3 | 1:147:A:SER:H | 4 | 0.41 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 11 | 0.41 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 5 | 0.41 |
| (1,1831) | 1:145:A:GLU:H | 1:145:A:GLU:HA | 3 | 0.41 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 13 | 0.41 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 12 | 0.41 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 12 | 0.41 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 12 | 0.41 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 12 | 0.41 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 17 | 0.41 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 17 | 0.41 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 17 | 0.41 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 7 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 7 | 0.41 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 7 | 0.41 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 3 | 0.41 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 3 | 0.41 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 3 | 0.41 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 5 | 0.41 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 9 | 0.41 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 18 | 0.41 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 19 | 0.41 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 13 | 0.41 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 11 | 0.41 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 12 | 0.41 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 19 | 0.41 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 14 | 0.41 |
| (1,1249) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 14 | 0.41 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 2 | 0.41 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 4 | 0.41 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 14 | 0.41 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 5 | 0.41 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 8 | 0.41 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 4 | 0.41 |
| (1,1053) | 1:109:A:GLN:HA | 1:109:A:GLN:HG2 | 6 | 0.41 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 11 | 0.41 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 14 | 0.41 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 14 | 0.41 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 14 | 0.41 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 1 | 0.41 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 3 | 0.41 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 13 | 0.41 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 8 | 0.41 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 16 | 0.41 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 16 | 0.41 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 16 | 0.41 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 7 | 0.41 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 12 | 0.41 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 12 | 0.41 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 20 | 0.41 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 20 | 0.41 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 6 | 0.41 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 8 | 0.41 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 1 | 0.41 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 2 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 5 | 0.41 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 9 | 0.41 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 13 | 0.41 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 12 | 0.41 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 20 | 0.41 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 20 | 0.41 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 20 | 0.41 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 20 | 0.41 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 20 | 0.41 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 20 | 0.41 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 20 | 0.41 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 20 | 0.41 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 20 | 0.41 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 6 | 0.41 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 6 | 0.41 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 6 | 0.41 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 16 | 0.41 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 16 | 0.41 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 16 | 0.41 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 16 | 0.41 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 16 | 0.41 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 16 | 0.41 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 10 | 0.41 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 10 | 0.41 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 10 | 0.41 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 10 | 0.41 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 10 | 0.41 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 10 | 0.41 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 10 | 0.41 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 10 | 0.41 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 10 | 0.41 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 3 | 0.41 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 3 | 0.41 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 3 | 0.41 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 8 | 0.41 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 1 | 0.41 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 1 | 0.41 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 1 | 0.41 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 1 | 0.41 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 1 | 0.41 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 1 | 0.41 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 1 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 1 | 0.41 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 1 | 0.41 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 3 | 0.41 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 3 | 0.41 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 3 | 0.41 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 3 | 0.41 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 3 | 0.41 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 3 | 0.41 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 3 | 0.41 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 3 | 0.41 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 3 | 0.41 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 7 | 0.41 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 12 | 0.41 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 17 | 0.41 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 20 | 0.41 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 6 | 0.41 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 12 | 0.41 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 12 | 0.41 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 12 | 0.41 |
| (1,315) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 9 | 0.41 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 7 | 0.41 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 20 | 0.41 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 20 | 0.41 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 20 | 0.41 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 3 | 0.41 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 3 | 0.41 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 3 | 0.41 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 2 | 0.41 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 16 | 0.41 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 1 | 0.41 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 12 | 0.41 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 12 | 0.41 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 10 | 0.41 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 7 | 0.41 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 7 | 0.41 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 7 | 0.41 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 4 | 0.41 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 8 | 0.41 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 16 | 0.41 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 12 | 0.41 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 7 | 0.41 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 7 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 7 | 0.41 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 16 | 0.41 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 8 | 0.41 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 8 | 0.41 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 20 | 0.41 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 20 | 0.41 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 20 | 0.41 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 8 | 0.41 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 11 | 0.41 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 13 | 0.41 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 13 | 0.41 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 13 | 0.41 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 13 | 0.41 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 16 | 0.41 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 7 | 0.4 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 1 | 0.4 |
| (4,64) | 1:15:A:MET:CB | 1:122:A:LEU:H | 11 | 0.4 |
| (3,941) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 14 | 0.4 |
| (3,941) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 14 | 0.4 |
| (3,911) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 13 | 0.4 |
| (3,911) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 13 | 0.4 |
| (3,812) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 20 | 0.4 |
| (3,812) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 20 | 0.4 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 12 | 0.4 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 12 | 0.4 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 4 | 0.4 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 4 | 0.4 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 4 | 0.4 |
| (3,350) | 1:55:A:VAL:HG21 | 1:57:A:CYS:HB2 | 4 | 0.4 |
| (3,350) | 1:55:A:VAL:HG22 | 1:57:A:CYS:HB2 | 4 | 0.4 |
| (3,350) | 1:55:A:VAL:HG23 | 1:57:A:CYS:HB2 | 4 | 0.4 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 15 | 0.4 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 2 | 0.4 |
| (3,155) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 6 | 0.4 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 2 | 0.4 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 1 | 0.4 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 1 | 0.4 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 1 | 0.4 |
| (3,21) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 20 | 0.4 |
| (3,21) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 20 | 0.4 |
| (3,21) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 20 | 0.4 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 11 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 11 | 0.4 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 19 | 0.4 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 19 | 0.4 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 6 | 0.4 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 6 | 0.4 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 7 | 0.4 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 7 | 0.4 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 13 | 0.4 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 13 | 0.4 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 13 | 0.4 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 13 | 0.4 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 13 | 0.4 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 13 | 0.4 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 11 | 0.4 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 11 | 0.4 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 11 | 0.4 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 11 | 0.4 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 11 | 0.4 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 11 | 0.4 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 8 | 0.4 |
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 8 | 0.4 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 3 | 0.4 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 3 | 0.4 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 8 | 0.4 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 8 | 0.4 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 16 | 0.4 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 16 | 0.4 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 17 | 0.4 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 17 | 0.4 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 4 | 0.4 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 4 | 0.4 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 15 | 0.4 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 15 | 0.4 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 2 | 0.4 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 2 | 0.4 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB2 | 6 | 0.4 |
| (1,8805) | 1:57:A:CYS:HB2 | 1:138:A:SER:HB3 | 6 | 0.4 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 13 | 0.4 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 13 | 0.4 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 13 | 0.4 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 13 | 0.4 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 3 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 3 | 0.4 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 7 | 0.4 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 7 | 0.4 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 3 | 0.4 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 3 | 0.4 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 2 | 0.4 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 2 | 0.4 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 20 | 0.4 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 20 | 0.4 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 9 | 0.4 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 9 | 0.4 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 9 | 0.4 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 9 | 0.4 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 6 | 0.4 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 11 | 0.4 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 1 | 0.4 |
| (1,8081) | 1:91:A:GLY:H | 1:94:A:GLN:H | 2 | 0.4 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 18 | 0.4 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 19 | 0.4 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 13 | 0.4 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 20 | 0.4 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 7 | 0.4 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 7 | 0.4 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 7 | 0.4 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 13 | 0.4 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 13 | 0.4 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 18 | 0.4 |
| (1,7221) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 9 | 0.4 |
| (1,7221) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 16 | 0.4 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 14 | 0.4 |
| (1,7208) | 1:155:A:GLY:H | 1:155:A:GLY:HA3 | 15 | 0.4 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 16 | 0.4 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 16 | 0.4 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 16 | 0.4 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 16 | 0.4 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 16 | 0.4 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 16 | 0.4 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 20 | 0.4 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 11 | 0.4 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 8 | 0.4 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 8 | 0.4 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 18 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 18 | 0.4 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 6 | 0.4 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 13 | 0.4 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 17 | 0.4 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 6 | 0.4 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 20 | 0.4 |
| (1,6815) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 4 | 0.4 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 12 | 0.4 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 9 | 0.4 |
| (1,6726) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 14 | 0.4 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 1 | 0.4 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 8 | 0.4 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 11 | 0.4 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 7 | 0.4 |
| (1,6540) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 18 | 0.4 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 15 | 0.4 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 3 | 0.4 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 13 | 0.4 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 8 | 0.4 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 8 | 0.4 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 8 | 0.4 |
| (1,6338) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 18 | 0.4 |
| (1,6338) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 18 | 0.4 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 20 | 0.4 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 20 | 0.4 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 5 | 0.4 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 16 | 0.4 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 5 | 0.4 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 18 | 0.4 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 1 | 0.4 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 1 | 0.4 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 1 | 0.4 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 14 | 0.4 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 14 | 0.4 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 14 | 0.4 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 11 | 0.4 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 13 | 0.4 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 13 | 0.4 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 2 | 0.4 |
| (1,5979) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 2 | 0.4 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 4 | 0.4 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 5 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 15 | 0.4 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 20 | 0.4 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 18 | 0.4 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 18 | 0.4 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 1 | 0.4 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 10 | 0.4 |
| (1,5674) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 11 | 0.4 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 10 | 0.4 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 1 | 0.4 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 1 | 0.4 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 7 | 0.4 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 15 | 0.4 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 15 | 0.4 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 15 | 0.4 |
| (1,5516) | 1:96:A:ILE:HA | 1:98:A:SER:H | 5 | 0.4 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 9 | 0.4 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 13 | 0.4 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 16 | 0.4 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 16 | 0.4 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 16 | 0.4 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 3 | 0.4 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 3 | 0.4 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 3 | 0.4 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 6 | 0.4 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 6 | 0.4 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 6 | 0.4 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 6 | 0.4 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 6 | 0.4 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 6 | 0.4 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 6 | 0.4 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 6 | 0.4 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 6 | 0.4 |
| (1,5317) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 8 | 0.4 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 12 | 0.4 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 12 | 0.4 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 12 | 0.4 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 18 | 0.4 |
| (1,5239) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 16 | 0.4 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 8 | 0.4 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 8 | 0.4 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 8 | 0.4 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 8 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 8 | 0.4 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 8 | 0.4 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 8 | 0.4 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 8 | 0.4 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 8 | 0.4 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 9 | 0.4 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 17 | 0.4 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 2 | 0.4 |
| (1,5178) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 13 | 0.4 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 3 | 0.4 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 3 | 0.4 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 3 | 0.4 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 7 | 0.4 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 13 | 0.4 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 13 | 0.4 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 13 | 0.4 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 1 | 0.4 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 20 | 0.4 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 8 | 0.4 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 18 | 0.4 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 6 | 0.4 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 6 | 0.4 |
| (1,4852) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 14 | 0.4 |
| (1,4852) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 14 | 0.4 |
| (1,4852) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 14 | 0.4 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 3 | 0.4 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 17 | 0.4 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 17 | 0.4 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 17 | 0.4 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 14 | 0.4 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 2 | 0.4 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 3 | 0.4 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 9 | 0.4 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 9 | 0.4 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 9 | 0.4 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 9 | 0.4 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 9 | 0.4 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 9 | 0.4 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 17 | 0.4 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 12 | 0.4 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 2 | 0.4 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 2 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 4 | 0.4 |
| (1,4315) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 4 | 0.4 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 4 | 0.4 |
| (1,4315) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 4 | 0.4 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 4 | 0.4 |
| (1,4315) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 4 | 0.4 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 5 | 0.4 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 5 | 0.4 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG21 | 5 | 0.4 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG22 | 5 | 0.4 |
| (1,4103) | 1:89:A:ILE:HG12 | 1:156:A:ILE:HG23 | 5 | 0.4 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG21 | 5 | 0.4 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG22 | 5 | 0.4 |
| (1,4103) | 1:89:A:ILE:HG13 | 1:156:A:ILE:HG23 | 5 | 0.4 |
| (1,4021) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 15 | 0.4 |
| (1,4021) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 15 | 0.4 |
| (1,4021) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 15 | 0.4 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 1 | 0.4 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 1 | 0.4 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 19 | 0.4 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 19 | 0.4 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 20 | 0.4 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 20 | 0.4 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 8 | 0.4 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 8 | 0.4 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 8 | 0.4 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 8 | 0.4 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 8 | 0.4 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 8 | 0.4 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 8 | 0.4 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 8 | 0.4 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 8 | 0.4 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 8 | 0.4 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 8 | 0.4 |
| (1,3361) | 1:150:A:VAL:HG21 | 1:157:A:HIS:H | 6 | 0.4 |
| (1,3361) | 1:150:A:VAL:HG22 | 1:157:A:HIS:H | 6 | 0.4 |
| (1,3361) | 1:150:A:VAL:HG23 | 1:157:A:HIS:H | 6 | 0.4 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 13 | 0.4 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 8 | 0.4 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 2 | 0.4 |
| (1,3205) | 1:86:A:LEU:HA | 1:89:A:ILE:H | 11 | 0.4 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 3 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 3 | 0.4 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 3 | 0.4 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 20 | 0.4 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 17 | 0.4 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 16 | 0.4 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 8 | 0.4 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 8 | 0.4 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 8 | 0.4 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 1 | 0.4 |
| (1,2891) | 1:29:A:THR:H | 1:29:A:THR:HA | 14 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 2 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 2 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 2 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 4 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 4 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 4 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 5 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 5 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 5 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 7 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 7 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 7 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 10 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 10 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 10 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 12 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 12 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 12 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 16 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 16 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 16 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 19 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 19 | 0.4 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 19 | 0.4 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 8 | 0.4 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 19 | 0.4 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 6 | 0.4 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 19 | 0.4 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 19 | 0.4 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 19 | 0.4 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 4 | 0.4 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 13 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 20 | 0.4 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 5 | 0.4 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 5 | 0.4 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 5 | 0.4 |
| (1,2797) | 1:26:A:ASN:H | 1:26:A:ASN:HA | 4 | 0.4 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 4 | 0.4 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 4 | 0.4 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 12 | 0.4 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 12 | 0.4 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 12 | 0.4 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 12 | 0.4 |
| (1,2631) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 17 | 0.4 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 11 | 0.4 |
| (1,2475) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 16 | 0.4 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 20 | 0.4 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 20 | 0.4 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 20 | 0.4 |
| (1,2385) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 18 | 0.4 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 15 | 0.4 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 2 | 0.4 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 9 | 0.4 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 15 | 0.4 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 3 | 0.4 |
| (1,2173) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 1 | 0.4 |
| (1,2173) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 1 | 0.4 |
| (1,2173) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 1 | 0.4 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 10 | 0.4 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 7 | 0.4 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 7 | 0.4 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 7 | 0.4 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 12 | 0.4 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 12 | 0.4 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 12 | 0.4 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 7 | 0.4 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 7 | 0.4 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 7 | 0.4 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 13 | 0.4 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 10 | 0.4 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 11 | 0.4 |
| (1,1991) | 1:151:A:PHE:HB2 | 1:152:A:THR:H | 9 | 0.4 |
| (1,1991) | 1:151:A:PHE:HB3 | 1:152:A:THR:H | 9 | 0.4 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 12 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 12 | 0.4 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 12 | 0.4 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 20 | 0.4 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 3 | 0.4 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 3 | 0.4 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 3 | 0.4 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 7 | 0.4 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 7 | 0.4 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 7 | 0.4 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 14 | 0.4 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 14 | 0.4 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 14 | 0.4 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 5 | 0.4 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 2 | 0.4 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 2 | 0.4 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 2 | 0.4 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 3 | 0.4 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 20 | 0.4 |
| (1,1883) | 1:146:A:MET:HB3 | 1:146:A:MET:HG3 | 18 | 0.4 |
| (1,1881) | 1:146:A:MET:HA | 1:146:A:MET:HB3 | 7 | 0.4 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 19 | 0.4 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 16 | 0.4 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 9 | 0.4 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 9 | 0.4 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 9 | 0.4 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 19 | 0.4 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 19 | 0.4 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 19 | 0.4 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 18 | 0.4 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 18 | 0.4 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 18 | 0.4 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 18 | 0.4 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 18 | 0.4 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 18 | 0.4 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 18 | 0.4 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 18 | 0.4 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 10 | 0.4 |
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 6 | 0.4 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 6 | 0.4 |
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 6 | 0.4 |
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 20 | 0.4 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 20 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 20 | 0.4 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 11 | 0.4 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 3 | 0.4 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 3 | 0.4 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 3 | 0.4 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 5 | 0.4 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 9 | 0.4 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 2 | 0.4 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 2 | 0.4 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 2 | 0.4 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 10 | 0.4 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 18 | 0.4 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 18 | 0.4 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 18 | 0.4 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 16 | 0.4 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 16 | 0.4 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 3 | 0.4 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 3 | 0.4 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 3 | 0.4 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 3 | 0.4 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 3 | 0.4 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 3 | 0.4 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 12 | 0.4 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 12 | 0.4 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 18 | 0.4 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 18 | 0.4 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 8 | 0.4 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 6 | 0.4 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 10 | 0.4 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 11 | 0.4 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 20 | 0.4 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 9 | 0.4 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 1 | 0.4 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 4 | 0.4 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 4 | 0.4 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 4 | 0.4 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 4 | 0.4 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 14 | 0.4 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 13 | 0.4 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 11 | 0.4 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 15 | 0.4 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 19 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 16 | 0.4 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 7 | 0.4 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 7 | 0.4 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 7 | 0.4 |
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 20 | 0.4 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 9 | 0.4 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 18 | 0.4 |
| (1,937) | 1:105:A:SER:HB3 | 1:106:A:LEU:H | 11 | 0.4 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 15 | 0.4 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 8 | 0.4 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 8 | 0.4 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 8 | 0.4 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 8 | 0.4 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 8 | 0.4 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 8 | 0.4 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 5 | 0.4 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 10 | 0.4 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 10 | 0.4 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 10 | 0.4 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 4 | 0.4 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 4 | 0.4 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 8 | 0.4 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 8 | 0.4 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 13 | 0.4 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 13 | 0.4 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 4 | 0.4 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 11 | 0.4 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 11 | 0.4 |
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 7 | 0.4 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 16 | 0.4 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 16 | 0.4 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 16 | 0.4 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 6 | 0.4 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 6 | 0.4 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 6 | 0.4 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 10 | 0.4 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 10 | 0.4 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 10 | 0.4 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 10 | 0.4 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 12 | 0.4 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 9 | 0.4 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 13 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 15 | 0.4 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 15 | 0.4 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 15 | 0.4 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 9 | 0.4 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 9 | 0.4 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 9 | 0.4 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 4 | 0.4 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 10 | 0.4 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 10 | 0.4 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 10 | 0.4 |
| (1,472) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 6 | 0.4 |
| (1,472) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 6 | 0.4 |
| (1,472) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 6 | 0.4 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 6 | 0.4 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 6 | 0.4 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 6 | 0.4 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 14 | 0.4 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 14 | 0.4 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 14 | 0.4 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 14 | 0.4 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 2 | 0.4 |
| (1,391) | 1:86:A:LEU:H | 1:86:A:LEU:HA | 16 | 0.4 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 2 | 0.4 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 19 | 0.4 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 6 | 0.4 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 14 | 0.4 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 20 | 0.4 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 11 | 0.4 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 11 | 0.4 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 11 | 0.4 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 15 | 0.4 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 1 | 0.4 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 1 | 0.4 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 4 | 0.4 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 4 | 0.4 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 4 | 0.4 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 4 | 0.4 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 19 | 0.4 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 19 | 0.4 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 19 | 0.4 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 6 | 0.4 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 20 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 20 | 0.4 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 20 | 0.4 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 19 | 0.4 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 5 | 0.4 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 5 | 0.4 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 5 | 0.4 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 3 | 0.4 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 3 | 0.4 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 3 | 0.4 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 11 | 0.4 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 11 | 0.4 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 11 | 0.4 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 10 | 0.4 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 10 | 0.4 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 10 | 0.4 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 10 | 0.4 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 10 | 0.4 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 10 | 0.4 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 10 | 0.4 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 10 | 0.4 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 10 | 0.4 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 3 | 0.4 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 15 | 0.4 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 2 | 0.4 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 2 | 0.4 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 2 | 0.4 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 13 | 0.4 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 13 | 0.4 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 13 | 0.4 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 3 | 0.4 |
| (1,16) | 1:52:A:PRO:HB2 | 1:53:A:ALA:H | 3 | 0.4 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 1 | 0.4 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 17 | 0.4 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 4 | 0.39 |
| (4,300) | 1:98:A:SER:CB | 1:28:A:ILE:H | 20 | 0.39 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 12 | 0.39 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 4 | 0.39 |
| (3,883) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 6 | 0.39 |
| (3,883) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 6 | 0.39 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 9 | 0.39 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 9 | 0.39 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 9 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 9 | 0.39 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 16 | 0.39 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 16 | 0.39 |
| (3,773) | 1:12:A:GLU:HB2 | 1:25:A:PHE:H | 1 | 0.39 |
| (3,773) | 1:12:A:GLU:HB3 | 1:25:A:PHE:H | 1 | 0.39 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 13 | 0.39 |
| (3,666) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG21 | 4 | 0.39 |
| (3,666) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG22 | 4 | 0.39 |
| (3,666) | 1:136:A:ASP:HB2 | 1:150:A:VAL:HG23 | 4 | 0.39 |
| (3,666) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG21 | 4 | 0.39 |
| (3,666) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG22 | 4 | 0.39 |
| (3,666) | 1:136:A:ASP:HB3 | 1:150:A:VAL:HG23 | 4 | 0.39 |
| (3,644) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 1 | 0.39 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 5 | 0.39 |
| (3,594) | 1:108:A:SER:HA | 1:119:A:ARG:HG2 | 19 | 0.39 |
| (3,594) | 1:108:A:SER:HA | 1:119:A:ARG:HG3 | 19 | 0.39 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 18 | 0.39 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 3 | 0.39 |
| (3,303) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 11 | 0.39 |
| (3,303) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 11 | 0.39 |
| (3,303) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 11 | 0.39 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 1 | 0.39 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 1 | 0.39 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 1 | 0.39 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 16 | 0.39 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 17 | 0.39 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 17 | 0.39 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 2 | 0.39 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 2 | 0.39 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 2 | 0.39 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 7 | 0.39 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 7 | 0.39 |
| (1,9559) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 18 | 0.39 |
| (1,9559) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 18 | 0.39 |
| (1,9505) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 19 | 0.39 |
| (1,9505) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 19 | 0.39 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 9 | 0.39 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 9 | 0.39 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 18 | 0.39 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 18 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 7 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 7 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 7 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 7 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 7 | 0.39 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 7 | 0.39 |
| (1,9184) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 10 | 0.39 |
| (1,9184) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 10 | 0.39 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 9 | 0.39 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 9 | 0.39 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 9 | 0.39 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 9 | 0.39 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 9 | 0.39 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 9 | 0.39 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 7 | 0.39 |
| (1,9101) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 7 | 0.39 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 7 | 0.39 |
| (1,9101) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 7 | 0.39 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 7 | 0.39 |
| (1,9101) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 7 | 0.39 |
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 1 | 0.39 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 1 | 0.39 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 13 | 0.39 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 13 | 0.39 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 2 | 0.39 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 2 | 0.39 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 17 | 0.39 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 17 | 0.39 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 3 | 0.39 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 3 | 0.39 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 13 | 0.39 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 13 | 0.39 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 15 | 0.39 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 15 | 0.39 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 7 | 0.39 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 7 | 0.39 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 17 | 0.39 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 4 | 0.39 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 16 | 0.39 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 16 | 0.39 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 16 | 0.39 |
| (1,7694) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 3 | 0.39 |
| (1,7694) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 3 | 0.39 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 1 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 6 | 0.39 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 6 | 0.39 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 14 | 0.39 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 19 | 0.39 |
| (1,7344) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 20 | 0.39 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 20 | 0.39 |
| (1,7221) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 5 | 0.39 |
| (1,7221) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 8 | 0.39 |
| (1,7221) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 20 | 0.39 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 11 | 0.39 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 1 | 0.39 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 6 | 0.39 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 11 | 0.39 |
| (1,7101) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 11 | 0.39 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 16 | 0.39 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 5 | 0.39 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 5 | 0.39 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 4 | 0.39 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 14 | 0.39 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 3 | 0.39 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 14 | 0.39 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 12 | 0.39 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 11 | 0.39 |
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 5 | 0.39 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 4 | 0.39 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 9 | 0.39 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 9 | 0.39 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 9 | 0.39 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 7 | 0.39 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 9 | 0.39 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 16 | 0.39 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 5 | 0.39 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 10 | 0.39 |
| (1,6580) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 18 | 0.39 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 8 | 0.39 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 17 | 0.39 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 14 | 0.39 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 4 | 0.39 |
| (1,6392) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 15 | 0.39 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 5 | 0.39 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 3 | 0.39 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 3 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 3 | 0.39 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 3 | 0.39 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 3 | 0.39 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 3 | 0.39 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 3 | 0.39 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 3 | 0.39 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 3 | 0.39 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 3 | 0.39 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 13 | 0.39 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 2 | 0.39 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 2 | 0.39 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 2 | 0.39 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 4 | 0.39 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 10 | 0.39 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 20 | 0.39 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 20 | 0.39 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 20 | 0.39 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 20 | 0.39 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 19 | 0.39 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 19 | 0.39 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 19 | 0.39 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 19 | 0.39 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 19 | 0.39 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 19 | 0.39 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 19 | 0.39 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 19 | 0.39 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 19 | 0.39 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 10 | 0.39 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 6 | 0.39 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 13 | 0.39 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 18 | 0.39 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 0.39 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 9 | 0.39 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 3 | 0.39 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 6 | 0.39 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 16 | 0.39 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 2 | 0.39 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 13 | 0.39 |
| (1,5850) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 7 | 0.39 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 7 | 0.39 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 12 | 0.39 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 20 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 2 | 0.39 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 12 | 0.39 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 10 | 0.39 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 10 | 0.39 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 15 | 0.39 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 6 | 0.39 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 11 | 0.39 |
| (1,5726) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 5 | 0.39 |
| (1,5726) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 5 | 0.39 |
| (1,5726) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 5 | 0.39 |
| (1,5696) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 2 | 0.39 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 17 | 0.39 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 16 | 0.39 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 2 | 0.39 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 2 | 0.39 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 2 | 0.39 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 5 | 0.39 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 6 | 0.39 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 6 | 0.39 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 6 | 0.39 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 8 | 0.39 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 8 | 0.39 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 8 | 0.39 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 10 | 0.39 |
| (1,5182) | 1:83:A:GLU:H | 1:84:A:GLU:H | 3 | 0.39 |
| (1,5078) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 12 | 0.39 |
| (1,5078) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 12 | 0.39 |
| (1,5078) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 12 | 0.39 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 6 | 0.39 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 14 | 0.39 |
| (1,4953) | 1:68:A:ARG:H | 1:68:A:ARG:HA | 20 | 0.39 |
| (1,4933) | 1:65:A:SER:HA | 1:67:A:SER:H | 2 | 0.39 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 20 | 0.39 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 20 | 0.39 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 20 | 0.39 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 12 | 0.39 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 12 | 0.39 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 12 | 0.39 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 15 | 0.39 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 16 | 0.39 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 16 | 0.39 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 16 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 11 | 0.39 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 7 | 0.39 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 7 | 0.39 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 12 | 0.39 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 12 | 0.39 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 18 | 0.39 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 18 | 0.39 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 2 | 0.39 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 2 | 0.39 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 2 | 0.39 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 2 | 0.39 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 2 | 0.39 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 2 | 0.39 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 18 | 0.39 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 18 | 0.39 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 14 | 0.39 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 14 | 0.39 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 9 | 0.39 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 9 | 0.39 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 7 | 0.39 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 7 | 0.39 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 15 | 0.39 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 15 | 0.39 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 15 | 0.39 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 15 | 0.39 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 15 | 0.39 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 15 | 0.39 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 1 | 0.39 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 1 | 0.39 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 20 | 0.39 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 20 | 0.39 |
| (1,3957) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 20 | 0.39 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 20 | 0.39 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 20 | 0.39 |
| (1,3957) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 20 | 0.39 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 19 | 0.39 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 19 | 0.39 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 15 | 0.39 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 15 | 0.39 |
| (1,3837) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 15 | 0.39 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 15 | 0.39 |
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 15 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3837) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 15 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 17 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 17 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 17 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 17 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 17 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 17 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 19 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 19 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 19 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 19 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 19 | 0.39 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 19 | 0.39 |
| (1,3689) | 1:49:A:GLN:HG2 | 1:49:A:GLN:HE22 | 11 | 0.39 |
| (1,3689) | 1:49:A:GLN:HG3 | 1:49:A:GLN:HE22 | 11 | 0.39 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 3 | 0.39 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 3 | 0.39 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 5 | 0.39 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 5 | 0.39 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 13 | 0.39 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 13 | 0.39 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 8 | 0.39 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 8 | 0.39 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 20 | 0.39 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 20 | 0.39 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 20 | 0.39 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 20 | 0.39 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 20 | 0.39 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 20 | 0.39 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 2 | 0.39 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 2 | 0.39 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 14 | 0.39 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 3 | 0.39 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 20 | 0.39 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 6 | 0.39 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 2 | 0.39 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 2 | 0.39 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 2 | 0.39 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 8 | 0.39 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 8 | 0.39 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 8 | 0.39 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 3 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 20 | 0.39 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 19 | 0.39 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 11 | 0.39 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 11 | 0.39 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 7 | 0.39 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 1 | 0.39 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 2 | 0.39 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 7 | 0.39 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 20 | 0.39 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 2 | 0.39 |
| (1,2931) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD22 | 2 | 0.39 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 11 | 0.39 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 11 | 0.39 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 11 | 0.39 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 15 | 0.39 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 20 | 0.39 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 4 | 0.39 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 5 | 0.39 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD1 | 3 | 0.39 |
| (1,2707) | 1:23:A:TYR:H | 1:23:A:TYR:HD2 | 3 | 0.39 |
| (1,2699) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 1 | 0.39 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 11 | 0.39 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 11 | 0.39 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 11 | 0.39 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 5 | 0.39 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 15 | 0.39 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 15 | 0.39 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 15 | 0.39 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 3 | 0.39 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 16 | 0.39 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 15 | 0.39 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 15 | 0.39 |
| (1,2461) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 17 | 0.39 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 8 | 0.39 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 10 | 0.39 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 8 | 0.39 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 2 | 0.39 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 16 | 0.39 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 13 | 0.39 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 13 | 0.39 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 13 | 0.39 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 4 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 4 | 0.39 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 4 | 0.39 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 4 | 0.39 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 14 | 0.39 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 14 | 0.39 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 14 | 0.39 |
| (1,2097) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 15 | 0.39 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 15 | 0.39 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 5 | 0.39 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 19 | 0.39 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 19 | 0.39 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 19 | 0.39 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 5 | 0.39 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 17 | 0.39 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 17 | 0.39 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 17 | 0.39 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 12 | 0.39 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 17 | 0.39 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 11 | 0.39 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 11 | 0.39 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 11 | 0.39 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 3 | 0.39 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 13 | 0.39 |
| (1,1841) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 18 | 0.39 |
| (1,1841) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 18 | 0.39 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 7 | 0.39 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 7 | 0.39 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 14 | 0.39 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 14 | 0.39 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 20 | 0.39 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 14 | 0.39 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 14 | 0.39 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 14 | 0.39 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 15 | 0.39 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 15 | 0.39 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 15 | 0.39 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 2 | 0.39 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 7 | 0.39 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 7 | 0.39 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 7 | 0.39 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 11 | 0.39 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 10 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 15 | 0.39 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 15 | 0.39 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 8 | 0.39 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 8 | 0.39 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 4 | 0.39 |
| (1,1585) | 1:134:A:PHE:H | 1:134:A:PHE:HA | 20 | 0.39 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 15 | 0.39 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 15 | 0.39 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 8 | 0.39 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 18 | 0.39 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 9 | 0.39 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 16 | 0.39 |
| (1,1349) | 1:125:A:PHE:HD1 | 1:126:A:SER:HA | 13 | 0.39 |
| (1,1349) | 1:125:A:PHE:HD2 | 1:126:A:SER:HA | 13 | 0.39 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 14 | 0.39 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 5 | 0.39 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 5 | 0.39 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 5 | 0.39 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 2 | 0.39 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 13 | 0.39 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 20 | 0.39 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 13 | 0.39 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 8 | 0.39 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 8 | 0.39 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 7 | 0.39 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 12 | 0.39 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 20 | 0.39 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 12 | 0.39 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 15 | 0.39 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 6 | 0.39 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 11 | 0.39 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 19 | 0.39 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 2 | 0.39 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 3 | 0.39 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB1 | 12 | 0.39 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB2 | 12 | 0.39 |
| (1,1003) | 1:106:A:LEU:H | 1:107:A:ALA:HB3 | 12 | 0.39 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 19 | 0.39 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 18 | 0.39 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 7 | 0.39 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 7 | 0.39 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 7 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 7 | 0.39 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 7 | 0.39 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 7 | 0.39 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 8 | 0.39 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 17 | 0.39 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 3 | 0.39 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 18 | 0.39 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 19 | 0.39 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 20 | 0.39 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 10 | 0.39 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 10 | 0.39 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 10 | 0.39 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 14 | 0.39 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 14 | 0.39 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 14 | 0.39 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 18 | 0.39 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 18 | 0.39 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 18 | 0.39 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 20 | 0.39 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 20 | 0.39 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 20 | 0.39 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 5 | 0.39 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 17 | 0.39 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 17 | 0.39 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 17 | 0.39 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 17 | 0.39 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 17 | 0.39 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 17 | 0.39 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 17 | 0.39 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 17 | 0.39 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 17 | 0.39 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 14 | 0.39 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 14 | 0.39 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 14 | 0.39 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 2 | 0.39 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 2 | 0.39 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 2 | 0.39 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 20 | 0.39 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 20 | 0.39 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 20 | 0.39 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 13 | 0.39 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 16 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 16 | 0.39 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 16 | 0.39 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 10 | 0.39 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 10 | 0.39 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 10 | 0.39 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 15 | 0.39 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 16 | 0.39 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 6 | 0.39 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 6 | 0.39 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 6 | 0.39 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 16 | 0.39 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 14 | 0.39 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 14 | 0.39 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 14 | 0.39 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 7 | 0.39 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 7 | 0.39 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 7 | 0.39 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 19 | 0.39 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 15 | 0.39 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 1 | 0.39 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 16 | 0.39 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 16 | 0.39 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 16 | 0.39 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 10 | 0.39 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 10 | 0.39 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 10 | 0.39 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 20 | 0.39 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 5 | 0.39 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 5 | 0.39 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 3 | 0.39 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 3 | 0.39 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 3 | 0.39 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 11 | 0.39 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 11 | 0.39 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 11 | 0.39 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 11 | 0.39 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 11 | 0.39 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 11 | 0.39 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 10 | 0.39 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 17 | 0.39 |
| (1,362) | 1:83:A:GLU:H | 1:84:A:GLU:H | 3 | 0.39 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 2 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 4 | 0.39 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 8 | 0.39 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 9 | 0.39 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 19 | 0.39 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 15 | 0.39 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 14 | 0.39 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 9 | 0.39 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 11 | 0.39 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 11 | 0.39 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG2 | 20 | 0.39 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG3 | 20 | 0.39 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 8 | 0.39 |
| (1,144) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 19 | 0.39 |
| (1,144) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 19 | 0.39 |
| (1,144) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 19 | 0.39 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 10 | 0.39 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 10 | 0.39 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 10 | 0.39 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 8 | 0.39 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 8 | 0.39 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 8 | 0.39 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 16 | 0.39 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 16 | 0.39 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 13 | 0.39 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 7 | 0.39 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 7 | 0.39 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 7 | 0.39 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 7 | 0.39 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 7 | 0.39 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 7 | 0.39 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 6 | 0.39 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 6 | 0.39 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 14 | 0.39 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 14 | 0.39 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 11 | 0.39 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 11 | 0.39 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 11 | 0.39 |
| (4,211) | 1:131:A:GLN:CB | 1:38:A:SER:H | 15 | 0.38 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 5 | 0.38 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 1 | 0.38 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 1 | 0.38 |
| (3,1043) | 1:151:A:PHE:HA | 1:156:A:ILE:HG12 | 3 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,1043) | 1:151:A:PHE:HA | 1:156:A:ILE:HG13 | 3 | 0.38 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 18 | 0.38 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 18 | 0.38 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 18 | 0.38 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 18 | 0.38 |
| (3,866) | 1:72:A:SER:H | 1:75:A:GLN:HG2 | 6 | 0.38 |
| (3,866) | 1:72:A:SER:H | 1:75:A:GLN:HG3 | 6 | 0.38 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 12 | 0.38 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 12 | 0.38 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 9 | 0.38 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 9 | 0.38 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 4 | 0.38 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 4 | 0.38 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 4 | 0.38 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 4 | 0.38 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 4 | 0.38 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 4 | 0.38 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 4 | 0.38 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 4 | 0.38 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 4 | 0.38 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 5 | 0.38 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 5 | 0.38 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 5 | 0.38 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 5 | 0.38 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 5 | 0.38 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 5 | 0.38 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 5 | 0.38 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 5 | 0.38 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 5 | 0.38 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 6 | 0.38 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 6 | 0.38 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 6 | 0.38 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 10 | 0.38 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 10 | 0.38 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 10 | 0.38 |
| (3,545) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 20 | 0.38 |
| (3,545) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 20 | 0.38 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 17 | 0.38 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 17 | 0.38 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 15 | 0.38 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 15 | 0.38 |
| (3,388) | 1:60:A:LEU:HG | 1:111:A:SER:H | 15 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,351) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 9 | 0.38 |
| (3,351) | 1:55:A:VAL:HA | 1:124:A:ALA:HA | 13 | 0.38 |
| (3,235) | 1:14:A:ARG:HB3 | 1:24:A:TYR:H | 4 | 0.38 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 17 | 0.38 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 17 | 0.38 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 17 | 0.38 |
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 13 | 0.38 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 6 | 0.38 |
| (3,106) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 5 | 0.38 |
| (3,106) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 5 | 0.38 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 13 | 0.38 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 13 | 0.38 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 13 | 0.38 |
| (1,9561) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD11 | 13 | 0.38 |
| (1,9561) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD12 | 13 | 0.38 |
| (1,9561) | 1:144:A:GLY:HA2 | 1:160:A:LEU:HD13 | 13 | 0.38 |
| (1,9561) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD11 | 13 | 0.38 |
| (1,9561) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD12 | 13 | 0.38 |
| (1,9561) | 1:144:A:GLY:HA3 | 1:160:A:LEU:HD13 | 13 | 0.38 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 15 | 0.38 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 15 | 0.38 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 10 | 0.38 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 10 | 0.38 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 10 | 0.38 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 10 | 0.38 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 10 | 0.38 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 10 | 0.38 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 6 | 0.38 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 6 | 0.38 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 3 | 0.38 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 3 | 0.38 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 8 | 0.38 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 8 | 0.38 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 3 | 0.38 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 3 | 0.38 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 3 | 0.38 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 3 | 0.38 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 3 | 0.38 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 3 | 0.38 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 16 | 0.38 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 16 | 0.38 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 19 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 19 | 0.38 |
| (1,8991) | 1:75:A:GLN:HE21 | 1:79:A:THR:H | 1 | 0.38 |
| (1,8991) | 1:75:A:GLN:HE22 | 1:79:A:THR:H | 1 | 0.38 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 17 | 0.38 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 17 | 0.38 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 12 | 0.38 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 12 | 0.38 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 1 | 0.38 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 1 | 0.38 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 15 | 0.38 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 15 | 0.38 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 12 | 0.38 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 12 | 0.38 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 18 | 0.38 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 18 | 0.38 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 15 | 0.38 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 15 | 0.38 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 4 | 0.38 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 4 | 0.38 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 4 | 0.38 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 4 | 0.38 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 1 | 0.38 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 1 | 0.38 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 14 | 0.38 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 14 | 0.38 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 13 | 0.38 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 13 | 0.38 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 13 | 0.38 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 13 | 0.38 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 20 | 0.38 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 20 | 0.38 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 20 | 0.38 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 20 | 0.38 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 6 | 0.38 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 6 | 0.38 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 10 | 0.38 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 10 | 0.38 |
| (1,8438) | 1:146:A:MET:H | 1:161:A:ARG:H | 10 | 0.38 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB2 | 18 | 0.38 |
| (1,8381) | 1:137:A:ALA:H | 1:153:A:ASP:HB3 | 18 | 0.38 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 9 | 0.38 |
| (1,8225) | 1:108:A:SER:HA | 1:120:A:GLY:H | 5 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 17 | 0.38 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 17 | 0.38 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 15 | 0.38 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 16 | 0.38 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 7 | 0.38 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 12 | 0.38 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 15 | 0.38 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 15 | 0.38 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB1 | 18 | 0.38 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB2 | 18 | 0.38 |
| (1,7253) | 1:28:A:ILE:HG12 | 1:140:A:ALA:HB3 | 18 | 0.38 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 15 | 0.38 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 3 | 0.38 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD11 | 15 | 0.38 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD12 | 15 | 0.38 |
| (1,7143) | 1:92:A:TYR:H | 1:93:A:ILE:HD13 | 15 | 0.38 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 4 | 0.38 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 13 | 0.38 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 13 | 0.38 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 9 | 0.38 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 14 | 0.38 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 17 | 0.38 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 10 | 0.38 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 10 | 0.38 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 12 | 0.38 |
| (1,6929) | 1:32:A:SER:HA | 1:33:A:GLN:H | 5 | 0.38 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 13 | 0.38 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 13 | 0.38 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 13 | 0.38 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 8 | 0.38 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 20 | 0.38 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 19 | 0.38 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 6 | 0.38 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 1 | 0.38 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 3 | 0.38 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 12 | 0.38 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 19 | 0.38 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 20 | 0.38 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 20 | 0.38 |
| (1,6664) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 20 | 0.38 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 7 | 0.38 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 4 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 9 | 0.38 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 16 | 0.38 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 2 | 0.38 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 1 | 0.38 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 1 | 0.38 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 1 | 0.38 |
| (1,6368) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 18 | 0.38 |
| (1,6368) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 18 | 0.38 |
| (1,6368) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 18 | 0.38 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 1 | 0.38 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 7 | 0.38 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 7 | 0.38 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 2 | 0.38 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 16 | 0.38 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 5 | 0.38 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 18 | 0.38 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 8 | 0.38 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 13 | 0.38 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 10 | 0.38 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 10 | 0.38 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 3 | 0.38 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 14 | 0.38 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 0.38 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 19 | 0.38 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 6 | 0.38 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 15 | 0.38 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 16 | 0.38 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 7 | 0.38 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 7 | 0.38 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 7 | 0.38 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 6 | 0.38 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 3 | 0.38 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 3 | 0.38 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 12 | 0.38 |
| (1,5550) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 18 | 0.38 |
| (1,5548) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 13 | 0.38 |
| (1,5548) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 13 | 0.38 |
| (1,5548) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 13 | 0.38 |
| (1,5548) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 13 | 0.38 |
| (1,5548) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 13 | 0.38 |
| (1,5548) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 13 | 0.38 |
| (1,5548) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 13 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5548) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 13 | 0.38 |
| (1,5548) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 13 | 0.38 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 9 | 0.38 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 7 | 0.38 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 7 | 0.38 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 7 | 0.38 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 9 | 0.38 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 11 | 0.38 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 4 | 0.38 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 20 | 0.38 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 6 | 0.38 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 12 | 0.38 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 12 | 0.38 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 12 | 0.38 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 1 | 0.38 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 13 | 0.38 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG21 | 18 | 0.38 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG22 | 18 | 0.38 |
| (1,5072) | 1:65:A:SER:HA | 1:78:A:ILE:HG23 | 18 | 0.38 |
| (1,5018) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE21 | 12 | 0.38 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 16 | 0.38 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 7 | 0.38 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 14 | 0.38 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 5 | 0.38 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 5 | 0.38 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 5 | 0.38 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 20 | 0.38 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 20 | 0.38 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 20 | 0.38 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 3 | 0.38 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 19 | 0.38 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 19 | 0.38 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 19 | 0.38 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 1 | 0.38 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 1 | 0.38 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 1 | 0.38 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 10 | 0.38 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 10 | 0.38 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 8 | 0.38 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 8 | 0.38 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 16 | 0.38 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 16 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 17 | 0.38 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 17 | 0.38 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 17 | 0.38 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 17 | 0.38 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 12 | 0.38 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 12 | 0.38 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 12 | 0.38 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 12 | 0.38 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 12 | 0.38 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 12 | 0.38 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 1 | 0.38 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 1 | 0.38 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 5 | 0.38 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 5 | 0.38 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 13 | 0.38 |
| (1,3977) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 13 | 0.38 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 13 | 0.38 |
| (1,3977) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 13 | 0.38 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 4 | 0.38 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 4 | 0.38 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 5 | 0.38 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 5 | 0.38 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 19 | 0.38 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 19 | 0.38 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 14 | 0.38 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 14 | 0.38 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 10 | 0.38 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 10 | 0.38 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 5 | 0.38 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 5 | 0.38 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 5 | 0.38 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 5 | 0.38 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 5 | 0.38 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 5 | 0.38 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 5 | 0.38 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 5 | 0.38 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 5 | 0.38 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 5 | 0.38 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 11 | 0.38 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 11 | 0.38 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 11 | 0.38 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 3 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 3 | 0.38 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 3 | 0.38 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 10 | 0.38 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 3 | 0.38 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 3 | 0.38 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 17 | 0.38 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 9 | 0.38 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 15 | 0.38 |
| (1,3085) | 1:38:A:SER:H | 1:38:A:SER:HB3 | 12 | 0.38 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 6 | 0.38 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 6 | 0.38 |
| (1,2945) | 1:32:A:SER:HA | 1:33:A:GLN:H | 5 | 0.38 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 6 | 0.38 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 6 | 0.38 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 6 | 0.38 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 16 | 0.38 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 16 | 0.38 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 16 | 0.38 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 3 | 0.38 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 8 | 0.38 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 7 | 0.38 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 19 | 0.38 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 19 | 0.38 |
| (1,2829) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 19 | 0.38 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 9 | 0.38 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 19 | 0.38 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 6 | 0.38 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 18 | 0.38 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 18 | 0.38 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 3 | 0.38 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 3 | 0.38 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD1 | 4 | 0.38 |
| (1,2741) | 1:13:A:LYS:HG2 | 1:24:A:TYR:HD2 | 4 | 0.38 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD1 | 4 | 0.38 |
| (1,2741) | 1:13:A:LYS:HG3 | 1:24:A:TYR:HD2 | 4 | 0.38 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 5 | 0.38 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 4 | 0.38 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 4 | 0.38 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 4 | 0.38 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 14 | 0.38 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 14 | 0.38 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 14 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 1 | 0.38 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 4 | 0.38 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 9 | 0.38 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 6 | 0.38 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 6 | 0.38 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 6 | 0.38 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 12 | 0.38 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 1 | 0.38 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 1 | 0.38 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 1 | 0.38 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 14 | 0.38 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 14 | 0.38 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 14 | 0.38 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 6 | 0.38 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 6 | 0.38 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 6 | 0.38 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 8 | 0.38 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 8 | 0.38 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 8 | 0.38 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 12 | 0.38 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 12 | 0.38 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 12 | 0.38 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 13 | 0.38 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 2 | 0.38 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 2 | 0.38 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 2 | 0.38 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 13 | 0.38 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 13 | 0.38 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 13 | 0.38 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 2 | 0.38 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 17 | 0.38 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 17 | 0.38 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 17 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 10 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 10 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 10 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 10 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 10 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 10 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 10 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 10 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 10 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 14 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 14 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 14 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 14 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 14 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 14 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 14 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 14 | 0.38 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 14 | 0.38 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 5 | 0.38 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 5 | 0.38 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 5 | 0.38 |
| (1,2019) | 1:154:A:SER:H | 1:154:A:SER:HA | 18 | 0.38 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 7 | 0.38 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 7 | 0.38 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 5 | 0.38 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 5 | 0.38 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 1 | 0.38 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 20 | 0.38 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 20 | 0.38 |
| (1,1911) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 18 | 0.38 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 18 | 0.38 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 18 | 0.38 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 18 | 0.38 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 2 | 0.38 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 5 | 0.38 |
| (1,1845) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 4 | 0.38 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 16 | 0.38 |
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 17 | 0.38 |
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 19 | 0.38 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 5 | 0.38 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 18 | 0.38 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB1 | 13 | 0.38 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB2 | 13 | 0.38 |
| (1,1685) | 1:138:A:SER:H | 1:140:A:ALA:HB3 | 13 | 0.38 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 1 | 0.38 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 9 | 0.38 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 9 | 0.38 |
| (1,1615) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 19 | 0.38 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 18 | 0.38 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 18 | 0.38 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 18 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 19 | 0.38 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 19 | 0.38 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 5 | 0.38 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 5 | 0.38 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 3 | 0.38 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 5 | 0.38 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 7 | 0.38 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 10 | 0.38 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 11 | 0.38 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 14 | 0.38 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 20 | 0.38 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 4 | 0.38 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 5 | 0.38 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 1 | 0.38 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 9 | 0.38 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 16 | 0.38 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 5 | 0.38 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 13 | 0.38 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 20 | 0.38 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 5 | 0.38 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 17 | 0.38 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 17 | 0.38 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 17 | 0.38 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 17 | 0.38 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 17 | 0.38 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 17 | 0.38 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 17 | 0.38 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 17 | 0.38 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 17 | 0.38 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 17 | 0.38 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 12 | 0.38 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 12 | 0.38 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 12 | 0.38 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 11 | 0.38 |
| (1,1161) | 1:116:A:ALA:H | 1:118:A:ALA:H | 19 | 0.38 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 16 | 0.38 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 5 | 0.38 |
| (1,1107) | 1:111:A:SER:H | 1:111:A:SER:HB3 | 18 | 0.38 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 6 | 0.38 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 10 | 0.38 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 13 | 0.38 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 14 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 5 | 0.38 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 12 | 0.38 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 12 | 0.38 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 1 | 0.38 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 1 | 0.38 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 1 | 0.38 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 11 | 0.38 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 11 | 0.38 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 6 | 0.38 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 20 | 0.38 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 20 | 0.38 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 10 | 0.38 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 12 | 0.38 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 12 | 0.38 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 13 | 0.38 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 13 | 0.38 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 13 | 0.38 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 1 | 0.38 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 1 | 0.38 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 1 | 0.38 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 17 | 0.38 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 17 | 0.38 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 17 | 0.38 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 5 | 0.38 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 9 | 0.38 |
| (1,621) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 4 | 0.38 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 12 | 0.38 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 19 | 0.38 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 7 | 0.38 |
| (1,573) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 7 | 0.38 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 7 | 0.38 |
| (1,573) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 7 | 0.38 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 7 | 0.38 |
| (1,573) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 7 | 0.38 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 15 | 0.38 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 15 | 0.38 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 15 | 0.38 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 7 | 0.38 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 7 | 0.38 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 7 | 0.38 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 3 | 0.38 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 13 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 9 | 0.38 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 11 | 0.38 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 10 | 0.38 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 10 | 0.38 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 10 | 0.38 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 17 | 0.38 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 17 | 0.38 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 17 | 0.38 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 15 | 0.38 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 15 | 0.38 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 15 | 0.38 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 1 | 0.38 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 7 | 0.38 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 10 | 0.38 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 10 | 0.38 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 10 | 0.38 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 18 | 0.38 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 18 | 0.38 |
| (1,404) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 18 | 0.38 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 3 | 0.38 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 9 | 0.38 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 16 | 0.38 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 6 | 0.38 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 14 | 0.38 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 8 | 0.38 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 1 | 0.38 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 13 | 0.38 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 5 | 0.38 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 5 | 0.38 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 5 | 0.38 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 2 | 0.38 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 6 | 0.38 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 6 | 0.38 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 6 | 0.38 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 10 | 0.38 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 4 | 0.38 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 4 | 0.38 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 4 | 0.38 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 8 | 0.38 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 8 | 0.38 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 8 | 0.38 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 15 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,248) | 1:75:A:GLN:HB3 | 1:75:A:GLN:HE21 | 16 | 0.38 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 5 | 0.38 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 9 | 0.38 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 8 | 0.38 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 8 | 0.38 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 9 | 0.38 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 9 | 0.38 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 13 | 0.38 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 13 | 0.38 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG2 | 2 | 0.38 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG3 | 2 | 0.38 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG2 | 10 | 0.38 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG3 | 10 | 0.38 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG2 | 12 | 0.38 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG3 | 12 | 0.38 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 9 | 0.38 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 9 | 0.38 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 10 | 0.38 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 10 | 0.38 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 10 | 0.38 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 10 | 0.38 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 10 | 0.38 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 10 | 0.38 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 10 | 0.38 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 10 | 0.38 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 10 | 0.38 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 20 | 0.38 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 20 | 0.38 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 20 | 0.38 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 20 | 0.38 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 20 | 0.38 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 20 | 0.38 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 20 | 0.38 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 20 | 0.38 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 20 | 0.38 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 14 | 0.38 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 1 | 0.38 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 3 | 0.38 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 13 | 0.38 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 10 | 0.37 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 10 | 0.37 |
| (4,161) | 1:98:A:SER:CB | 1:25:A:PHE:H | 5 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,13) | 1:15:A:MET:CB | 1:61:A:LEU:H | 1 | 0.37 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 18 | 0.37 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 18 | 0.37 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 18 | 0.37 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 18 | 0.37 |
| (3,867) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 1 | 0.37 |
| (3,867) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 1 | 0.37 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 11 | 0.37 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 11 | 0.37 |
| (3,545) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 14 | 0.37 |
| (3,545) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 14 | 0.37 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 2 | 0.37 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 2 | 0.37 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 2 | 0.37 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD11 | 13 | 0.37 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD12 | 13 | 0.37 |
| (3,427) | 1:63:A:LYS:H | 1:88:A:LEU:HD13 | 13 | 0.37 |
| (3,387) | 1:60:A:LEU:HG | 1:110:A:PHE:H | 15 | 0.37 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG21 | 4 | 0.37 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG22 | 4 | 0.37 |
| (3,359) | 1:57:A:CYS:H | 1:162:A:THR:HG23 | 4 | 0.37 |
| (3,263) | 1:25:A:PHE:H | 1:32:A:SER:H | 15 | 0.37 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 19 | 0.37 |
| (3,221) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 2 | 0.37 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 17 | 0.37 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 17 | 0.37 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 7 | 0.37 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 7 | 0.37 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 7 | 0.37 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 3 | 0.37 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 3 | 0.37 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 3 | 0.37 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 3 | 0.37 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 3 | 0.37 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 3 | 0.37 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 3 | 0.37 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 3 | 0.37 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 3 | 0.37 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 13 | 0.37 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 13 | 0.37 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 9 | 0.37 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 9 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 3 | 0.37 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 3 | 0.37 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 3 | 0.37 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 3 | 0.37 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 3 | 0.37 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 3 | 0.37 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 1 | 0.37 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 1 | 0.37 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 4 | 0.37 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 4 | 0.37 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 5 | 0.37 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 5 | 0.37 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 20 | 0.37 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 0.37 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 9 | 0.37 |
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 9 | 0.37 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 7 | 0.37 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 7 | 0.37 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 10 | 0.37 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 10 | 0.37 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 4 | 0.37 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 4 | 0.37 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 5 | 0.37 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 5 | 0.37 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD11 | 6 | 0.37 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD12 | 6 | 0.37 |
| (1,8880) | 1:63:A:LYS:HD2 | 1:78:A:ILE:HD13 | 6 | 0.37 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD11 | 6 | 0.37 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD12 | 6 | 0.37 |
| (1,8880) | 1:63:A:LYS:HD3 | 1:78:A:ILE:HD13 | 6 | 0.37 |
| (1,8868) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 4 | 0.37 |
| (1,8868) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 4 | 0.37 |
| (1,8837) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 19 | 0.37 |
| (1,8837) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 19 | 0.37 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 9 | 0.37 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 9 | 0.37 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 9 | 0.37 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 9 | 0.37 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 15 | 0.37 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 15 | 0.37 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 5 | 0.37 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 5 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 9 | 0.37 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 9 | 0.37 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 9 | 0.37 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 9 | 0.37 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 7 | 0.37 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 7 | 0.37 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 20 | 0.37 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 20 | 0.37 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 18 | 0.37 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 18 | 0.37 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 18 | 0.37 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 18 | 0.37 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE2 | 8 | 0.37 |
| (1,8593) | 1:12:A:GLU:HB2 | 1:13:A:LYS:HE3 | 8 | 0.37 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE2 | 8 | 0.37 |
| (1,8593) | 1:12:A:GLU:HB3 | 1:13:A:LYS:HE3 | 8 | 0.37 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 20 | 0.37 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 20 | 0.37 |
| (1,8543) | 1:5:A:GLU:H | 1:6:A:LYS:HB2 | 8 | 0.37 |
| (1,8543) | 1:5:A:GLU:H | 1:6:A:LYS:HB3 | 8 | 0.37 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 3 | 0.37 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 16 | 0.37 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 1 | 0.37 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 7 | 0.37 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 10 | 0.37 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 11 | 0.37 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 10 | 0.37 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 15 | 0.37 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 10 | 0.37 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 17 | 0.37 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 18 | 0.37 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 12 | 0.37 |
| (1,7302) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 12 | 0.37 |
| (1,7288) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 4 | 0.37 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 9 | 0.37 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 4 | 0.37 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 5 | 0.37 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 2 | 0.37 |
| (1,7117) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 8 | 0.37 |
| (1,7073) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 3 | 0.37 |
| (1,7073) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 3 | 0.37 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 9 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 19 | 0.37 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 3 | 0.37 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 3 | 0.37 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 3 | 0.37 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 2 | 0.37 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 10 | 0.37 |
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 10 | 0.37 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 15 | 0.37 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 15 | 0.37 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 15 | 0.37 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 13 | 0.37 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 12 | 0.37 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 2 | 0.37 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 7 | 0.37 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 20 | 0.37 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 13 | 0.37 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 4 | 0.37 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 5 | 0.37 |
| (1,6608) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 4 | 0.37 |
| (1,6608) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 4 | 0.37 |
| (1,6608) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 4 | 0.37 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 11 | 0.37 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 15 | 0.37 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 9 | 0.37 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 17 | 0.37 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 14 | 0.37 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 9 | 0.37 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 17 | 0.37 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 18 | 0.37 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 11 | 0.37 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 12 | 0.37 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 3 | 0.37 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 3 | 0.37 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 3 | 0.37 |
| (1,6224) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 1 | 0.37 |
| (1,6224) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 1 | 0.37 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 9 | 0.37 |
| (1,6188) | 1:142:A:ARG:HG2 | 1:143:A:THR:H | 18 | 0.37 |
| (1,6188) | 1:142:A:ARG:HG3 | 1:143:A:THR:H | 18 | 0.37 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 1 | 0.37 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 1 | 0.37 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 1 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 10 | 0.37 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 10 | 0.37 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 10 | 0.37 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 3 | 0.37 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 8 | 0.37 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 8 | 0.37 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 8 | 0.37 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 19 | 0.37 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 19 | 0.37 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 19 | 0.37 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 8 | 0.37 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 2 | 0.37 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 13 | 0.37 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 8 | 0.37 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 3 | 0.37 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 9 | 0.37 |
| (1,5863) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 9 | 0.37 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 9 | 0.37 |
| (1,5863) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 9 | 0.37 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 9 | 0.37 |
| (1,5863) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 9 | 0.37 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 13 | 0.37 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 9 | 0.37 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 2 | 0.37 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 2 | 0.37 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 16 | 0.37 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 16 | 0.37 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 4 | 0.37 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 7 | 0.37 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 2 | 0.37 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 17 | 0.37 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 2 | 0.37 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 2 | 0.37 |
| (1,5613) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 2 | 0.37 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 3 | 0.37 |
| (1,5516) | 1:96:A:ILE:HA | 1:98:A:SER:H | 7 | 0.37 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 7 | 0.37 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 15 | 0.37 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 15 | 0.37 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 15 | 0.37 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 5 | 0.37 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 4 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD11 | 18 | 0.37 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD12 | 18 | 0.37 |
| (1,5400) | 1:90:A:ASN:HA | 1:93:A:ILE:HD13 | 18 | 0.37 |
| (1,5382) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HG3 | 15 | 0.37 |
| (1,5382) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HG3 | 15 | 0.37 |
| (1,5382) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HG3 | 15 | 0.37 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 7 | 0.37 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 13 | 0.37 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 15 | 0.37 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 16 | 0.37 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 16 | 0.37 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 16 | 0.37 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 13 | 0.37 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 13 | 0.37 |
| (1,5031) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 10 | 0.37 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 6 | 0.37 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 18 | 0.37 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 4 | 0.37 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 14 | 0.37 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 17 | 0.37 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 8 | 0.37 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 20 | 0.37 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 20 | 0.37 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 13 | 0.37 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 10 | 0.37 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 10 | 0.37 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 10 | 0.37 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 3 | 0.37 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 3 | 0.37 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 3 | 0.37 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 3 | 0.37 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 3 | 0.37 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 3 | 0.37 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 3 | 0.37 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 3 | 0.37 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 3 | 0.37 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 6 | 0.37 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 6 | 0.37 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 6 | 0.37 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 6 | 0.37 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 6 | 0.37 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 6 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 6 | 0.37 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 6 | 0.37 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 6 | 0.37 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 20 | 0.37 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 20 | 0.37 |
| (1,4680) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 16 | 0.37 |
| (1,4680) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 16 | 0.37 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 8 | 0.37 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 4 | 0.37 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 4 | 0.37 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 8 | 0.37 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 8 | 0.37 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 15 | 0.37 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 15 | 0.37 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 5 | 0.37 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 5 | 0.37 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 19 | 0.37 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 19 | 0.37 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 20 | 0.37 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 20 | 0.37 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 13 | 0.37 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 13 | 0.37 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 13 | 0.37 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 13 | 0.37 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 13 | 0.37 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 13 | 0.37 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 13 | 0.37 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 13 | 0.37 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 12 | 0.37 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 12 | 0.37 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 19 | 0.37 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 19 | 0.37 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 3 | 0.37 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 3 | 0.37 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 5 | 0.37 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 5 | 0.37 |
| (1,3885) | 1:68:A:ARG:HB2 | 1:68:A:ARG:HD3 | 5 | 0.37 |
| (1,3885) | 1:68:A:ARG:HB3 | 1:68:A:ARG:HD3 | 5 | 0.37 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 12 | 0.37 |
| (1,3881) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 12 | 0.37 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 12 | 0.37 |
| (1,3881) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 12 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 13 | 0.37 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 13 | 0.37 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 7 | 0.37 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 7 | 0.37 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 11 | 0.37 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 11 | 0.37 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 11 | 0.37 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 8 | 0.37 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 8 | 0.37 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 17 | 0.37 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 17 | 0.37 |
| (1,3635) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 1 | 0.37 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 20 | 0.37 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 20 | 0.37 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 10 | 0.37 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 10 | 0.37 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 9 | 0.37 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 9 | 0.37 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 6 | 0.37 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 12 | 0.37 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 13 | 0.37 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 6 | 0.37 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 14 | 0.37 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 4 | 0.37 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 10 | 0.37 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 13 | 0.37 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 13 | 0.37 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 13 | 0.37 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 18 | 0.37 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 10 | 0.37 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 4 | 0.37 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 7 | 0.37 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 1 | 0.37 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 1 | 0.37 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 17 | 0.37 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 9 | 0.37 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 6 | 0.37 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 12 | 0.37 |
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 20 | 0.37 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 2 | 0.37 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 2 | 0.37 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 13 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 12 | 0.37 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 12 | 0.37 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 12 | 0.37 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 14 | 0.37 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 14 | 0.37 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 14 | 0.37 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 11 | 0.37 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 3 | 0.37 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 7 | 0.37 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 13 | 0.37 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 20 | 0.37 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 1 | 0.37 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 1 | 0.37 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 1 | 0.37 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 13 | 0.37 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 5 | 0.37 |
| (1,2843) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 7 | 0.37 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 6 | 0.37 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 6 | 0.37 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 6 | 0.37 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 10 | 0.37 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 6 | 0.37 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 6 | 0.37 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 6 | 0.37 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 6 | 0.37 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 6 | 0.37 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 6 | 0.37 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 18 | 0.37 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 18 | 0.37 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 18 | 0.37 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 18 | 0.37 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 18 | 0.37 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 18 | 0.37 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 17 | 0.37 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 17 | 0.37 |
| (1,2693) | 1:22:A:VAL:HG21 | 1:23:A:TYR:HA | 4 | 0.37 |
| (1,2693) | 1:22:A:VAL:HG22 | 1:23:A:TYR:HA | 4 | 0.37 |
| (1,2693) | 1:22:A:VAL:HG23 | 1:23:A:TYR:HA | 4 | 0.37 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 16 | 0.37 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 10 | 0.37 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 10 | 0.37 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 10 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 20 | 0.37 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 20 | 0.37 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 20 | 0.37 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 7 | 0.37 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 7 | 0.37 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 7 | 0.37 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 4 | 0.37 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 5 | 0.37 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 5 | 0.37 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 5 | 0.37 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 9 | 0.37 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 9 | 0.37 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 15 | 0.37 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 15 | 0.37 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 11 | 0.37 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 9 | 0.37 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 4 | 0.37 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 4 | 0.37 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 4 | 0.37 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 12 | 0.37 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 12 | 0.37 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 12 | 0.37 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 17 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 3 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 3 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 3 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 7 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 7 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 7 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 12 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 12 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 12 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 20 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 20 | 0.37 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 20 | 0.37 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 8 | 0.37 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 3 | 0.37 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 11 | 0.37 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 18 | 0.37 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 11 | 0.37 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 15 | 0.37 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 1 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 1 | 0.37 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 1 | 0.37 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 2 | 0.37 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 1 | 0.37 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 1 | 0.37 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 1 | 0.37 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 15 | 0.37 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 8 | 0.37 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 8 | 0.37 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 8 | 0.37 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 1 | 0.37 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 9 | 0.37 |
| (1,2025) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 9 | 0.37 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 9 | 0.37 |
| (1,2025) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 9 | 0.37 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 9 | 0.37 |
| (1,2025) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 9 | 0.37 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 2 | 0.37 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 2 | 0.37 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 2 | 0.37 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 9 | 0.37 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 17 | 0.37 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 18 | 0.37 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 16 | 0.37 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 16 | 0.37 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 16 | 0.37 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 16 | 0.37 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 16 | 0.37 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 16 | 0.37 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 3 | 0.37 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 3 | 0.37 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 3 | 0.37 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 18 | 0.37 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 18 | 0.37 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 18 | 0.37 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 12 | 0.37 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 1 | 0.37 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 10 | 0.37 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 10 | 0.37 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 10 | 0.37 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 18 | 0.37 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 4 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 3 | 0.37 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 1 | 0.37 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 6 | 0.37 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 14 | 0.37 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 3 | 0.37 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 4 | 0.37 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 4 | 0.37 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 4 | 0.37 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 4 | 0.37 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 4 | 0.37 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 4 | 0.37 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 9 | 0.37 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 9 | 0.37 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 9 | 0.37 |
| (1,1617) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 20 | 0.37 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 3 | 0.37 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 3 | 0.37 |
| (1,1601) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 3 | 0.37 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 17 | 0.37 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 15 | 0.37 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 15 | 0.37 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 4 | 0.37 |
| (1,1485) | 1:130:A:MET:H | 1:130:A:MET:HB3 | 15 | 0.37 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 13 | 0.37 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 19 | 0.37 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 3 | 0.37 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 3 | 0.37 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 6 | 0.37 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 6 | 0.37 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 6 | 0.37 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 3 | 0.37 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 7 | 0.37 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 2 | 0.37 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 2 | 0.37 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 2 | 0.37 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 13 | 0.37 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 16 | 0.37 |
| (1,1165) | 1:111:A:SER:H | 1:116:A:ALA:HA | 15 | 0.37 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 9 | 0.37 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 6 | 0.37 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 6 | 0.37 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 6 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 1 | 0.37 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 9 | 0.37 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 9 | 0.37 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 4 | 0.37 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 4 | 0.37 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 15 | 0.37 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 14 | 0.37 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 14 | 0.37 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 14 | 0.37 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 17 | 0.37 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 8 | 0.37 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 2 | 0.37 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 7 | 0.37 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 16 | 0.37 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 1 | 0.37 |
| (1,895) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 13 | 0.37 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 2 | 0.37 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 17 | 0.37 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 10 | 0.37 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 15 | 0.37 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 15 | 0.37 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 15 | 0.37 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 16 | 0.37 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 16 | 0.37 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 3 | 0.37 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 18 | 0.37 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 7 | 0.37 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 7 | 0.37 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 7 | 0.37 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 7 | 0.37 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 7 | 0.37 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 7 | 0.37 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 7 | 0.37 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 7 | 0.37 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 7 | 0.37 |
| (1,707) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 8 | 0.37 |
| (1,707) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 8 | 0.37 |
| (1,707) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 8 | 0.37 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 3 | 0.37 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 3 | 0.37 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 3 | 0.37 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 18 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 18 | 0.37 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 18 | 0.37 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 6 | 0.37 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 18 | 0.37 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 10 | 0.37 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 10 | 0.37 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 10 | 0.37 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 10 | 0.37 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 3 | 0.37 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 18 | 0.37 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD1 | 1 | 0.37 |
| (1,515) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HD2 | 1 | 0.37 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD1 | 1 | 0.37 |
| (1,515) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HD2 | 1 | 0.37 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD1 | 1 | 0.37 |
| (1,515) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HD2 | 1 | 0.37 |
| (1,497) | 1:92:A:TYR:H | 1:92:A:TYR:HB3 | 13 | 0.37 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 5 | 0.37 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 19 | 0.37 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 19 | 0.37 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 19 | 0.37 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 19 | 0.37 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 19 | 0.37 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 19 | 0.37 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 19 | 0.37 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 19 | 0.37 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 19 | 0.37 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 1 | 0.37 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 5 | 0.37 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 5 | 0.37 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 5 | 0.37 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 15 | 0.37 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 11 | 0.37 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 14 | 0.37 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 10 | 0.37 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 10 | 0.37 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 10 | 0.37 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 10 | 0.37 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 10 | 0.37 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 10 | 0.37 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 10 | 0.37 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 10 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 10 | 0.37 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 11 | 0.37 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 11 | 0.37 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 11 | 0.37 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 20 | 0.37 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 20 | 0.37 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 20 | 0.37 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 14 | 0.37 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 7 | 0.37 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 16 | 0.37 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 15 | 0.37 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 4 | 0.37 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 1 | 0.37 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 10 | 0.37 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 10 | 0.37 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 10 | 0.37 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 1 | 0.37 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 1 | 0.37 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 1 | 0.37 |
| (1,262) | 1:77:A:LYS:HA | 1:78:A:ILE:H | 17 | 0.37 |
| (1,259) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 8 | 0.37 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 12 | 0.37 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 4 | 0.37 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 14 | 0.37 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 19 | 0.37 |
| (1,179) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 18 | 0.37 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 18 | 0.37 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 18 | 0.37 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 18 | 0.37 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 9 | 0.37 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 9 | 0.37 |
| (1,165) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 9 | 0.37 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 5 | 0.37 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 7 | 0.37 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 18 | 0.37 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 16 | 0.37 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 16 | 0.37 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 16 | 0.37 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 19 | 0.37 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 19 | 0.37 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 19 | 0.37 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 13 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 13 | 0.37 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 13 | 0.37 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 19 | 0.37 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 19 | 0.37 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 19 | 0.37 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 13 | 0.37 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 20 | 0.37 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 20 | 0.37 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 6 | 0.37 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 14 | 0.37 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 8 | 0.37 |
| (4,247) | 1:15:A:MET:CB | 1:137:A:ALA:H | 19 | 0.36 |
| (4,184) | 1:131:A:GLN:CB | 1:11:A:TRP:H | 17 | 0.36 |
| (3,1030) | 1:141:A:LEU:HB2 | 1:144:A:GLY:H | 12 | 0.36 |
| (3,1030) | 1:141:A:LEU:HB3 | 1:144:A:GLY:H | 12 | 0.36 |
| (3,939) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 16 | 0.36 |
| (3,939) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 16 | 0.36 |
| (3,931) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 14 | 0.36 |
| (3,931) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 14 | 0.36 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 14 | 0.36 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 14 | 0.36 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 9 | 0.36 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 9 | 0.36 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 8 | 0.36 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 8 | 0.36 |
| (3,742) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 17 | 0.36 |
| (3,742) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 17 | 0.36 |
| (3,742) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 17 | 0.36 |
| (3,742) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 17 | 0.36 |
| (3,742) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 17 | 0.36 |
| (3,742) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 17 | 0.36 |
| (3,742) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 17 | 0.36 |
| (3,742) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 17 | 0.36 |
| (3,742) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 17 | 0.36 |
| (3,734) | 1:152:A:THR:H | 1:157:A:HIS:H | 4 | 0.36 |
| (3,728) | 1:150:A:VAL:HG21 | 1:152:A:THR:HA | 13 | 0.36 |
| (3,728) | 1:150:A:VAL:HG22 | 1:152:A:THR:HA | 13 | 0.36 |
| (3,728) | 1:150:A:VAL:HG23 | 1:152:A:THR:HA | 13 | 0.36 |
| (3,640) | 1:131:A:GLN:H | 1:134:A:PHE:HE1 | 10 | 0.36 |
| (3,640) | 1:131:A:GLN:H | 1:134:A:PHE:HE2 | 10 | 0.36 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 5 | 0.36 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 5 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 5 | 0.36 |
| (3,155) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 3 | 0.36 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 17 | 0.36 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 17 | 0.36 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 17 | 0.36 |
| (3,77) | 1:134:A:PHE:HA | 1:159:A:ILE:HG21 | 19 | 0.36 |
| (3,77) | 1:134:A:PHE:HA | 1:159:A:ILE:HG22 | 19 | 0.36 |
| (3,77) | 1:134:A:PHE:HA | 1:159:A:ILE:HG23 | 19 | 0.36 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 9 | 0.36 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 9 | 0.36 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 19 | 0.36 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 19 | 0.36 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 6 | 0.36 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 6 | 0.36 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 14 | 0.36 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 14 | 0.36 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 14 | 0.36 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 14 | 0.36 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 14 | 0.36 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 14 | 0.36 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 3 | 0.36 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 3 | 0.36 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 3 | 0.36 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 3 | 0.36 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 7 | 0.36 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 7 | 0.36 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE21 | 17 | 0.36 |
| (1,9433) | 1:129:A:GLN:H | 1:129:A:GLN:HE22 | 17 | 0.36 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 2 | 0.36 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 2 | 0.36 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 7 | 0.36 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 7 | 0.36 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 16 | 0.36 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 16 | 0.36 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 18 | 0.36 |
| (1,9290) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 18 | 0.36 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 1 | 0.36 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 1 | 0.36 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 1 | 0.36 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 1 | 0.36 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 5 | 0.36 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 5 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 5 | 0.36 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 5 | 0.36 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 5 | 0.36 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 5 | 0.36 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 11 | 0.36 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 11 | 0.36 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 3 | 0.36 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 3 | 0.36 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 10 | 0.36 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 10 | 0.36 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 4 | 0.36 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 4 | 0.36 |
| (1,8829) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 4 | 0.36 |
| (1,8829) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 4 | 0.36 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 19 | 0.36 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 19 | 0.36 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 3 | 0.36 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 3 | 0.36 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 19 | 0.36 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 19 | 0.36 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 4 | 0.36 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 4 | 0.36 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 4 | 0.36 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 4 | 0.36 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 4 | 0.36 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 4 | 0.36 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 20 | 0.36 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 20 | 0.36 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 10 | 0.36 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 10 | 0.36 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 4 | 0.36 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 4 | 0.36 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 4 | 0.36 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 4 | 0.36 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 4 | 0.36 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 4 | 0.36 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 3 | 0.36 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 3 | 0.36 |
| (1,8371) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 9 | 0.36 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 13 | 0.36 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 7 | 0.36 |
| (1,8008) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 1 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 4 | 0.36 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 18 | 0.36 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 18 | 0.36 |
| (1,7694) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 14 | 0.36 |
| (1,7694) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 14 | 0.36 |
| (1,7583) | 1:25:A:PHE:HB2 | 1:33:A:GLN:H | 9 | 0.36 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 1 | 0.36 |
| (1,7573) | 1:24:A:TYR:H | 1:34:A:TRP:HA | 7 | 0.36 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 19 | 0.36 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 19 | 0.36 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 12 | 0.36 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 16 | 0.36 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 16 | 0.36 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 16 | 0.36 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 7 | 0.36 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 7 | 0.36 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 7 | 0.36 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 9 | 0.36 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 16 | 0.36 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 19 | 0.36 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 2 | 0.36 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 3 | 0.36 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 13 | 0.36 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 12 | 0.36 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 12 | 0.36 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 12 | 0.36 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 1 | 0.36 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 1 | 0.36 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 6 | 0.36 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 6 | 0.36 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 20 | 0.36 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 3 | 0.36 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 15 | 0.36 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 11 | 0.36 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 2 | 0.36 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 3 | 0.36 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 18 | 0.36 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 9 | 0.36 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 20 | 0.36 |
| (1,6674) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 1 | 0.36 |
| (1,6674) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 19 | 0.36 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 14 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 5 | 0.36 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 5 | 0.36 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 5 | 0.36 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 5 | 0.36 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 5 | 0.36 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 5 | 0.36 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 10 | 0.36 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 12 | 0.36 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 9 | 0.36 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 19 | 0.36 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 20 | 0.36 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 20 | 0.36 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 20 | 0.36 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 10 | 0.36 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 18 | 0.36 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 18 | 0.36 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 18 | 0.36 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 18 | 0.36 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 18 | 0.36 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 18 | 0.36 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 18 | 0.36 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 18 | 0.36 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 18 | 0.36 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 3 | 0.36 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 13 | 0.36 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 16 | 0.36 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 16 | 0.36 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 16 | 0.36 |
| (1,6240) | 1:146:A:MET:HA | 1:161:A:ARG:H | 2 | 0.36 |
| (1,6224) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 6 | 0.36 |
| (1,6224) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 6 | 0.36 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 3 | 0.36 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 19 | 0.36 |
| (1,6200) | 1:143:A:THR:H | 1:144:A:GLY:H | 5 | 0.36 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 13 | 0.36 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 13 | 0.36 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 8 | 0.36 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 8 | 0.36 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 9 | 0.36 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 9 | 0.36 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 3 | 0.36 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 3 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 3 | 0.36 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 20 | 0.36 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 2 | 0.36 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 11 | 0.36 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 20 | 0.36 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 1 | 0.36 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 1 | 0.36 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 1 | 0.36 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 16 | 0.36 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 16 | 0.36 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 16 | 0.36 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 3 | 0.36 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 3 | 0.36 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 3 | 0.36 |
| (1,6020) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 13 | 0.36 |
| (1,6020) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 13 | 0.36 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 18 | 0.36 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 18 | 0.36 |
| (1,5979) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 5 | 0.36 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 3 | 0.36 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 6 | 0.36 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 19 | 0.36 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 8 | 0.36 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 2 | 0.36 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 7 | 0.36 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 7 | 0.36 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 20 | 0.36 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 14 | 0.36 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 14 | 0.36 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 14 | 0.36 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 11 | 0.36 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 9 | 0.36 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 9 | 0.36 |
| (1,5764) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 9 | 0.36 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 17 | 0.36 |
| (1,5655) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 11 | 0.36 |
| (1,5655) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 11 | 0.36 |
| (1,5655) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 11 | 0.36 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 14 | 0.36 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 4 | 0.36 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 4 | 0.36 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 5 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 5 | 0.36 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 5 | 0.36 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 5 | 0.36 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 5 | 0.36 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 5 | 0.36 |
| (1,5442) | 1:93:A:ILE:H | 1:94:A:GLN:H | 17 | 0.36 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 3 | 0.36 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 20 | 0.36 |
| (1,5390) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 19 | 0.36 |
| (1,5390) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 19 | 0.36 |
| (1,5390) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 19 | 0.36 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 11 | 0.36 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 16 | 0.36 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 16 | 0.36 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 16 | 0.36 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 17 | 0.36 |
| (1,5182) | 1:83:A:GLU:H | 1:84:A:GLU:H | 14 | 0.36 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 3 | 0.36 |
| (1,5157) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 5 | 0.36 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 15 | 0.36 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 17 | 0.36 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 16 | 0.36 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 18 | 0.36 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 12 | 0.36 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 12 | 0.36 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 5 | 0.36 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 8 | 0.36 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 8 | 0.36 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 6 | 0.36 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 4 | 0.36 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 7 | 0.36 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 7 | 0.36 |
| (1,4917) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 7 | 0.36 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 8 | 0.36 |
| (1,4893) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 19 | 0.36 |
| (1,4893) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 19 | 0.36 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 17 | 0.36 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 17 | 0.36 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 17 | 0.36 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 14 | 0.36 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 14 | 0.36 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 14 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4852) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 10 | 0.36 |
| (1,4852) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 10 | 0.36 |
| (1,4852) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 10 | 0.36 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 4 | 0.36 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 4 | 0.36 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 4 | 0.36 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 20 | 0.36 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 20 | 0.36 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 20 | 0.36 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 7 | 0.36 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 6 | 0.36 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 6 | 0.36 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 6 | 0.36 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 12 | 0.36 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 12 | 0.36 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 12 | 0.36 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 12 | 0.36 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 12 | 0.36 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 12 | 0.36 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 12 | 0.36 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 12 | 0.36 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 12 | 0.36 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 6 | 0.36 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 15 | 0.36 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 19 | 0.36 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 20 | 0.36 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 13 | 0.36 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 9 | 0.36 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 15 | 0.36 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 10 | 0.36 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 10 | 0.36 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 10 | 0.36 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 18 | 0.36 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 18 | 0.36 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 3 | 0.36 |
| (1,4603) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 3 | 0.36 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 3 | 0.36 |
| (1,4603) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 3 | 0.36 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 3 | 0.36 |
| (1,4603) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 3 | 0.36 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 5 | 0.36 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 5 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4553) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 14 | 0.36 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 14 | 0.36 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 14 | 0.36 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 4 | 0.36 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 4 | 0.36 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 4 | 0.36 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 4 | 0.36 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 15 | 0.36 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 15 | 0.36 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 2 | 0.36 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 2 | 0.36 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 12 | 0.36 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 12 | 0.36 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 13 | 0.36 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 13 | 0.36 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 8 | 0.36 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 8 | 0.36 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 20 | 0.36 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 20 | 0.36 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 2 | 0.36 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 2 | 0.36 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 7 | 0.36 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 7 | 0.36 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 5 | 0.36 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 5 | 0.36 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 8 | 0.36 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 8 | 0.36 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 8 | 0.36 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 8 | 0.36 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 3 | 0.36 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 3 | 0.36 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 11 | 0.36 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 11 | 0.36 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 11 | 0.36 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 11 | 0.36 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 11 | 0.36 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 11 | 0.36 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 10 | 0.36 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 10 | 0.36 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 19 | 0.36 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 19 | 0.36 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 20 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 20 | 0.36 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 1 | 0.36 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 1 | 0.36 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 1 | 0.36 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 1 | 0.36 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 7 | 0.36 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 7 | 0.36 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 10 | 0.36 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 10 | 0.36 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 13 | 0.36 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 13 | 0.36 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 3 | 0.36 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 3 | 0.36 |
| (1,3453) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 18 | 0.36 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 18 | 0.36 |
| (1,3409) | 1:15:A:MET:H | 1:16:A:SER:H | 7 | 0.36 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 3 | 0.36 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 14 | 0.36 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 2 | 0.36 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 14 | 0.36 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 19 | 0.36 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 13 | 0.36 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 13 | 0.36 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 12 | 0.36 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 12 | 0.36 |
| (1,3175) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 13 | 0.36 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 5 | 0.36 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 3 | 0.36 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 1 | 0.36 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 1 | 0.36 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 14 | 0.36 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 14 | 0.36 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB2 | 20 | 0.36 |
| (1,3017) | 1:34:A:TRP:H | 1:35:A:GLU:HB3 | 20 | 0.36 |
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 14 | 0.36 |
| (1,3007) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 0.36 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 11 | 0.36 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 2 | 0.36 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 7 | 0.36 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 5 | 0.36 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 10 | 0.36 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 17 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 16 | 0.36 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 13 | 0.36 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 3 | 0.36 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 1 | 0.36 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 1 | 0.36 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 1 | 0.36 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 4 | 0.36 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 4 | 0.36 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 4 | 0.36 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 8 | 0.36 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 8 | 0.36 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 8 | 0.36 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 18 | 0.36 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 19 | 0.36 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 9 | 0.36 |
| (1,2771) | 1:14:A:ARG:H | 1:25:A:PHE:H | 14 | 0.36 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 20 | 0.36 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 20 | 0.36 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 20 | 0.36 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 7 | 0.36 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 7 | 0.36 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 7 | 0.36 |
| (1,2661) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 15 | 0.36 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 10 | 0.36 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 19 | 0.36 |
| (1,2631) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 6 | 0.36 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 20 | 0.36 |
| (1,2561) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 1 | 0.36 |
| (1,2561) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 19 | 0.36 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 14 | 0.36 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 19 | 0.36 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 19 | 0.36 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 19 | 0.36 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 9 | 0.36 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 9 | 0.36 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 9 | 0.36 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 16 | 0.36 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 4 | 0.36 |
| (1,2423) | 1:11:A:TRP:H | 1:12:A:GLU:H | 10 | 0.36 |
| (1,2339) | 1:6:A:LYS:H | 1:7:A:LEU:H | 9 | 0.36 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 19 | 0.36 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 8 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 9 | 0.36 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 7 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 4 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 4 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 4 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 5 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 5 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 5 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 15 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 15 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 15 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 17 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 17 | 0.36 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 17 | 0.36 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 7 | 0.36 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 3 | 0.36 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 6 | 0.36 |
| (1,2225) | 1:143:A:THR:HG21 | 1:163:A:GLU:H | 19 | 0.36 |
| (1,2225) | 1:143:A:THR:HG22 | 1:163:A:GLU:H | 19 | 0.36 |
| (1,2225) | 1:143:A:THR:HG23 | 1:163:A:GLU:H | 19 | 0.36 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 19 | 0.36 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 19 | 0.36 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 19 | 0.36 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 13 | 0.36 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 20 | 0.36 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 8 | 0.36 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 8 | 0.36 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 8 | 0.36 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 12 | 0.36 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 10 | 0.36 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 5 | 0.36 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 5 | 0.36 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 5 | 0.36 |
| (1,1955) | 1:89:A:ILE:HG21 | 1:150:A:VAL:H | 4 | 0.36 |
| (1,1955) | 1:89:A:ILE:HG22 | 1:150:A:VAL:H | 4 | 0.36 |
| (1,1955) | 1:89:A:ILE:HG23 | 1:150:A:VAL:H | 4 | 0.36 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 4 | 0.36 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 4 | 0.36 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 4 | 0.36 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 2 | 0.36 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 19 | 0.36 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 20 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 14 | 0.36 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 14 | 0.36 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 14 | 0.36 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 16 | 0.36 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 16 | 0.36 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 16 | 0.36 |
| (1,1679) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 12 | 0.36 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 6 | 0.36 |
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 13 | 0.36 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 13 | 0.36 |
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 13 | 0.36 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 8 | 0.36 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 8 | 0.36 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 8 | 0.36 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 2 | 0.36 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 2 | 0.36 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 5 | 0.36 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 5 | 0.36 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 7 | 0.36 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 7 | 0.36 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 7 | 0.36 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 0.36 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 2 | 0.36 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 16 | 0.36 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 17 | 0.36 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 17 | 0.36 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 16 | 0.36 |
| (1,1357) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 11 | 0.36 |
| (1,1357) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 11 | 0.36 |
| (1,1357) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 11 | 0.36 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 10 | 0.36 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 10 | 0.36 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 10 | 0.36 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 10 | 0.36 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 10 | 0.36 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 10 | 0.36 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 13 | 0.36 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 13 | 0.36 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 2 | 0.36 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 6 | 0.36 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 6 | 0.36 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 6 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 6 | 0.36 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 6 | 0.36 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 6 | 0.36 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 6 | 0.36 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 6 | 0.36 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 6 | 0.36 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 8 | 0.36 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 14 | 0.36 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 16 | 0.36 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 2 | 0.36 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 19 | 0.36 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 19 | 0.36 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 19 | 0.36 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 20 | 0.36 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 1 | 0.36 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 1 | 0.36 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 11 | 0.36 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 10 | 0.36 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 12 | 0.36 |
| (1,1085) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 7 | 0.36 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 12 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 2 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 3 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 6 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 7 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 9 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 11 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 14 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 15 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 18 | 0.36 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 19 | 0.36 |
| (1,1023) | 1:108:A:SER:H | 1:108:A:SER:HA | 8 | 0.36 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 9 | 0.36 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 9 | 0.36 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 9 | 0.36 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 1 | 0.36 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 1 | 0.36 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 1 | 0.36 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD1 | 1 | 0.36 |
| (1,865) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HD2 | 1 | 0.36 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD1 | 1 | 0.36 |
| (1,865) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HD2 | 1 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD1 | 1 | 0.36 |
| (1,865) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HD2 | 1 | 0.36 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 7 | 0.36 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 7 | 0.36 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 7 | 0.36 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 7 | 0.36 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 6 | 0.36 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 9 | 0.36 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 9 | 0.36 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 9 | 0.36 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 2 | 0.36 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 2 | 0.36 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 1 | 0.36 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 1 | 0.36 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 7 | 0.36 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 7 | 0.36 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 10 | 0.36 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 10 | 0.36 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 13 | 0.36 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 13 | 0.36 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 6 | 0.36 |
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 9 | 0.36 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 19 | 0.36 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 19 | 0.36 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 19 | 0.36 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 14 | 0.36 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 6 | 0.36 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 16 | 0.36 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 10 | 0.36 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 10 | 0.36 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 10 | 0.36 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 13 | 0.36 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 13 | 0.36 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 13 | 0.36 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 4 | 0.36 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 4 | 0.36 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 4 | 0.36 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 8 | 0.36 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 8 | 0.36 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 8 | 0.36 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 9 | 0.36 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 1 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 8 | 0.36 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE1 | 11 | 0.36 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE2 | 11 | 0.36 |
| (1,575) | 1:93:A:ILE:HG21 | 1:146:A:MET:HE3 | 11 | 0.36 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE1 | 11 | 0.36 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE2 | 11 | 0.36 |
| (1,575) | 1:93:A:ILE:HG22 | 1:146:A:MET:HE3 | 11 | 0.36 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE1 | 11 | 0.36 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE2 | 11 | 0.36 |
| (1,575) | 1:93:A:ILE:HG23 | 1:146:A:MET:HE3 | 11 | 0.36 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 1 | 0.36 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 1 | 0.36 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 1 | 0.36 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 10 | 0.36 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 10 | 0.36 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 10 | 0.36 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 4 | 0.36 |
| (1,535) | 1:93:A:ILE:H | 1:94:A:GLN:H | 17 | 0.36 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 3 | 0.36 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE1 | 10 | 0.36 |
| (1,521) | 1:60:A:LEU:HD21 | 1:92:A:TYR:HE2 | 10 | 0.36 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE1 | 10 | 0.36 |
| (1,521) | 1:60:A:LEU:HD22 | 1:92:A:TYR:HE2 | 10 | 0.36 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE1 | 10 | 0.36 |
| (1,521) | 1:60:A:LEU:HD23 | 1:92:A:TYR:HE2 | 10 | 0.36 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 1 | 0.36 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 1 | 0.36 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 1 | 0.36 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 1 | 0.36 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 1 | 0.36 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 1 | 0.36 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 1 | 0.36 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 6 | 0.36 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 20 | 0.36 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 2 | 0.36 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 2 | 0.36 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 2 | 0.36 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 6 | 0.36 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 6 | 0.36 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 6 | 0.36 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 5 | 0.36 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 5 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 5 | 0.36 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 1 | 0.36 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 7 | 0.36 |
| (1,435) | 1:88:A:LEU:H | 1:89:A:ILE:H | 17 | 0.36 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 6 | 0.36 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 18 | 0.36 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 18 | 0.36 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 18 | 0.36 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 7 | 0.36 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 0.36 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 12 | 0.36 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 17 | 0.36 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 19 | 0.36 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 3 | 0.36 |
| (1,362) | 1:83:A:GLU:H | 1:84:A:GLU:H | 14 | 0.36 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 13 | 0.36 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 13 | 0.36 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 4 | 0.36 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 15 | 0.36 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 17 | 0.36 |
| (1,333) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 16 | 0.36 |
| (1,333) | 1:82:A:LYS:H | 1:82:A:LYS:HB3 | 16 | 0.36 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 17 | 0.36 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 17 | 0.36 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 17 | 0.36 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 18 | 0.36 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 11 | 0.36 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 11 | 0.36 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 11 | 0.36 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 8 | 0.36 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 10 | 0.36 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 3 | 0.36 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 3 | 0.36 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 3 | 0.36 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 12 | 0.36 |
| (1,262) | 1:77:A:LYS:HA | 1:78:A:ILE:H | 19 | 0.36 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 10 | 0.36 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 10 | 0.36 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 17 | 0.36 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 17 | 0.36 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 7 | 0.36 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 16 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 16 | 0.36 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 16 | 0.36 |
| (1,220) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 16 | 0.36 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 5 | 0.36 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 18 | 0.36 |
| (1,188) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 9 | 0.36 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG2 | 14 | 0.36 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG3 | 14 | 0.36 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 5 | 0.36 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 3 | 0.36 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 3 | 0.36 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 3 | 0.36 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 15 | 0.36 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 19 | 0.36 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 13 | 0.36 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 15 | 0.36 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 8 | 0.36 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 8 | 0.36 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 8 | 0.36 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 8 | 0.36 |
| (4,314) | 1:131:A:GLN:CB | 1:3:A:ASP:H | 19 | 0.35 |
| (4,202) | 1:131:A:GLN:CB | 1:30:A:ASN:HD22 | 4 | 0.35 |
| (4,167) | 1:98:A:SER:CB | 1:31:A:ALA:H | 8 | 0.35 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 5 | 0.35 |
| (4,118) | 1:90:A:ASN:CB | 1:21:A:ARG:H | 20 | 0.35 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 13 | 0.35 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 13 | 0.35 |
| (3,1050) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG12 | 6 | 0.35 |
| (3,1050) | 1:156:A:ILE:HD11 | 1:158:A:ILE:HG13 | 6 | 0.35 |
| (3,1050) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG12 | 6 | 0.35 |
| (3,1050) | 1:156:A:ILE:HD12 | 1:158:A:ILE:HG13 | 6 | 0.35 |
| (3,1050) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG12 | 6 | 0.35 |
| (3,1050) | 1:156:A:ILE:HD13 | 1:158:A:ILE:HG13 | 6 | 0.35 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 11 | 0.35 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 11 | 0.35 |
| (3,876) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 16 | 0.35 |
| (3,876) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 16 | 0.35 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 19 | 0.35 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 19 | 0.35 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 19 | 0.35 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 20 | 0.35 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 20 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 20 | 0.35 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 14 | 0.35 |
| (3,474) | 1:80:A:ARG:HA | 1:85:A:ALA:HB1 | 15 | 0.35 |
| (3,474) | 1:80:A:ARG:HA | 1:85:A:ALA:HB2 | 15 | 0.35 |
| (3,474) | 1:80:A:ARG:HA | 1:85:A:ALA:HB3 | 15 | 0.35 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 1 | 0.35 |
| (3,393) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 1 | 0.35 |
| (3,393) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 1 | 0.35 |
| (3,393) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 1 | 0.35 |
| (3,369) | 1:59:A:HIS:H | 1:120:A:GLY:H | 10 | 0.35 |
| (3,355) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 8 | 0.35 |
| (3,143) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 14 | 0.35 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD1 | 1 | 0.35 |
| (3,59) | 1:106:A:LEU:H | 1:110:A:PHE:HD2 | 1 | 0.35 |
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 13 | 0.35 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 13 | 0.35 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 13 | 0.35 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 1 | 0.35 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 1 | 0.35 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 12 | 0.35 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 12 | 0.35 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 11 | 0.35 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 11 | 0.35 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 11 | 0.35 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 11 | 0.35 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 11 | 0.35 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 11 | 0.35 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 17 | 0.35 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 17 | 0.35 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 17 | 0.35 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 17 | 0.35 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 17 | 0.35 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 17 | 0.35 |
| (1,9454) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 19 | 0.35 |
| (1,9454) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 19 | 0.35 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 5 | 0.35 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 5 | 0.35 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 18 | 0.35 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 18 | 0.35 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 5 | 0.35 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 5 | 0.35 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 5 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 5 | 0.35 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 5 | 0.35 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 5 | 0.35 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 5 | 0.35 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 5 | 0.35 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 8 | 0.35 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 8 | 0.35 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 2 | 0.35 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 2 | 0.35 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 16 | 0.35 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 16 | 0.35 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 20 | 0.35 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 20 | 0.35 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 20 | 0.35 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 20 | 0.35 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 20 | 0.35 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 20 | 0.35 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 12 | 0.35 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 12 | 0.35 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 2 | 0.35 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 2 | 0.35 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 3 | 0.35 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 3 | 0.35 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 3 | 0.35 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 3 | 0.35 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 3 | 0.35 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 3 | 0.35 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 4 | 0.35 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 4 | 0.35 |
| (1,8467) | 1:150:A:VAL:H | 1:152:A:THR:H | 7 | 0.35 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 15 | 0.35 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 9 | 0.35 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 9 | 0.35 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 1 | 0.35 |
| (1,8008) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 15 | 0.35 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 5 | 0.35 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 2 | 0.35 |
| (1,7740) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 9 | 0.35 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 12 | 0.35 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 12 | 0.35 |
| (1,7705) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 10 | 0.35 |
| (1,7705) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 10 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 10 | 0.35 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 10 | 0.35 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 10 | 0.35 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 17 | 0.35 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 17 | 0.35 |
| (1,7286) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 20 | 0.35 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 20 | 0.35 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 20 | 0.35 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 20 | 0.35 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 3 | 0.35 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 3 | 0.35 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 3 | 0.35 |
| (1,7151) | 1:96:A:ILE:HB | 1:103:A:PHE:HA | 1 | 0.35 |
| (1,7139) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 14 | 0.35 |
| (1,7139) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 14 | 0.35 |
| (1,7139) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 14 | 0.35 |
| (1,7134) | 1:92:A:TYR:HA | 1:92:A:TYR:HB2 | 15 | 0.35 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 15 | 0.35 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 17 | 0.35 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 17 | 0.35 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 17 | 0.35 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 7 | 0.35 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 7 | 0.35 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 7 | 0.35 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 15 | 0.35 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 15 | 0.35 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 3 | 0.35 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 2 | 0.35 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 4 | 0.35 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 8 | 0.35 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 5 | 0.35 |
| (1,6935) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 2 | 0.35 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 20 | 0.35 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 13 | 0.35 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 8 | 0.35 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 6 | 0.35 |
| (1,6674) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 3 | 0.35 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 17 | 0.35 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 17 | 0.35 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 17 | 0.35 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 17 | 0.35 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 17 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 17 | 0.35 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 17 | 0.35 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 10 | 0.35 |
| (1,6560) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 14 | 0.35 |
| (1,6560) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 14 | 0.35 |
| (1,6560) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 14 | 0.35 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 12 | 0.35 |
| (1,6538) | 1:8:A:PRO:HG2 | 1:37:A:PRO:HB2 | 14 | 0.35 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 3 | 0.35 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 7 | 0.35 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 19 | 0.35 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 19 | 0.35 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 19 | 0.35 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 16 | 0.35 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 12 | 0.35 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 12 | 0.35 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 12 | 0.35 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 13 | 0.35 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 13 | 0.35 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 13 | 0.35 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 6 | 0.35 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 6 | 0.35 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 6 | 0.35 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 5 | 0.35 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 6 | 0.35 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 16 | 0.35 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 1 | 0.35 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 11 | 0.35 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 17 | 0.35 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 5 | 0.35 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 5 | 0.35 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 8 | 0.35 |
| (1,6151) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 18 | 0.35 |
| (1,6116) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 8 | 0.35 |
| (1,6116) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 8 | 0.35 |
| (1,6116) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 8 | 0.35 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 3 | 0.35 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 2 | 0.35 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 18 | 0.35 |
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 9 | 0.35 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 15 | 0.35 |
| (1,6026) | 1:132:A:LYS:HA | 1:136:A:ASP:H | 12 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 16 | 0.35 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 0.35 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 8 | 0.35 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 10 | 0.35 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 11 | 0.35 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 13 | 0.35 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 15 | 0.35 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 4 | 0.35 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 3 | 0.35 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 3 | 0.35 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 3 | 0.35 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 3 | 0.35 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 1 | 0.35 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 11 | 0.35 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 16 | 0.35 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 7 | 0.35 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 3 | 0.35 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 13 | 0.35 |
| (1,5728) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 14 | 0.35 |
| (1,5728) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 14 | 0.35 |
| (1,5728) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 14 | 0.35 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 15 | 0.35 |
| (1,5688) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 12 | 0.35 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 4 | 0.35 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 8 | 0.35 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 18 | 0.35 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 10 | 0.35 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 18 | 0.35 |
| (1,5524) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 15 | 0.35 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 3 | 0.35 |
| (1,5486) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 10 | 0.35 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 18 | 0.35 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 7 | 0.35 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 2 | 0.35 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 2 | 0.35 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 2 | 0.35 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 2 | 0.35 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 2 | 0.35 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 2 | 0.35 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 2 | 0.35 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 2 | 0.35 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 2 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 8 | 0.35 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 8 | 0.35 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 8 | 0.35 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 8 | 0.35 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 8 | 0.35 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 8 | 0.35 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 8 | 0.35 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 8 | 0.35 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 8 | 0.35 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 5 | 0.35 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 3 | 0.35 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 14 | 0.35 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 15 | 0.35 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 19 | 0.35 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 11 | 0.35 |
| (1,4996) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 3 | 0.35 |
| (1,4996) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 8 | 0.35 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 15 | 0.35 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 20 | 0.35 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 1 | 0.35 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 11 | 0.35 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 2 | 0.35 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 3 | 0.35 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 20 | 0.35 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 1 | 0.35 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 1 | 0.35 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 1 | 0.35 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 13 | 0.35 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 5 | 0.35 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 11 | 0.35 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 13 | 0.35 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 18 | 0.35 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 18 | 0.35 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 18 | 0.35 |
| (1,4680) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 20 | 0.35 |
| (1,4680) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 20 | 0.35 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 4 | 0.35 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 4 | 0.35 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 19 | 0.35 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 19 | 0.35 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 20 | 0.35 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 20 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 5 | 0.35 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 5 | 0.35 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 18 | 0.35 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 18 | 0.35 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 4 | 0.35 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 4 | 0.35 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 9 | 0.35 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 9 | 0.35 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 18 | 0.35 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 18 | 0.35 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 15 | 0.35 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 15 | 0.35 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 16 | 0.35 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 16 | 0.35 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 16 | 0.35 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 16 | 0.35 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 7 | 0.35 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 7 | 0.35 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG2 | 13 | 0.35 |
| (1,4177) | 1:94:A:GLN:HE21 | 1:95:A:LYS:HG3 | 13 | 0.35 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG2 | 13 | 0.35 |
| (1,4177) | 1:94:A:GLN:HE22 | 1:95:A:LYS:HG3 | 13 | 0.35 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 10 | 0.35 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 10 | 0.35 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 10 | 0.35 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 10 | 0.35 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 10 | 0.35 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 10 | 0.35 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 10 | 0.35 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 1 | 0.35 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 1 | 0.35 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 11 | 0.35 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 11 | 0.35 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 9 | 0.35 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 9 | 0.35 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 13 | 0.35 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 13 | 0.35 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 13 | 0.35 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 13 | 0.35 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 13 | 0.35 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 13 | 0.35 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 5 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 5 | 0.35 |
| (1,3791) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 5 | 0.35 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 18 | 0.35 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 18 | 0.35 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 17 | 0.35 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 17 | 0.35 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 7 | 0.35 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 7 | 0.35 |
| (1,3399) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 17 | 0.35 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 15 | 0.35 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 14 | 0.35 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 6 | 0.35 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 2 | 0.35 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 18 | 0.35 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 18 | 0.35 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 13 | 0.35 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 5 | 0.35 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 8 | 0.35 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 13 | 0.35 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 15 | 0.35 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 15 | 0.35 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 19 | 0.35 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 19 | 0.35 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 9 | 0.35 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 9 | 0.35 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 18 | 0.35 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 17 | 0.35 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 17 | 0.35 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 17 | 0.35 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 1 | 0.35 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 11 | 0.35 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 8 | 0.35 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 20 | 0.35 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 12 | 0.35 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 12 | 0.35 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 12 | 0.35 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 15 | 0.35 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 13 | 0.35 |
| (1,2775) | 1:25:A:PHE:H | 1:26:A:ASN:H | 10 | 0.35 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 8 | 0.35 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 8 | 0.35 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 8 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2719) | 1:23:A:TYR:HD1 | 1:33:A:GLN:H | 2 | 0.35 |
| (1,2719) | 1:23:A:TYR:HD2 | 1:33:A:GLN:H | 2 | 0.35 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 13 | 0.35 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 19 | 0.35 |
| (1,2561) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 3 | 0.35 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 3 | 0.35 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 4 | 0.35 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 4 | 0.35 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 3 | 0.35 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 3 | 0.35 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 3 | 0.35 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 3 | 0.35 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 1 | 0.35 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 7 | 0.35 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 7 | 0.35 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 7 | 0.35 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 11 | 0.35 |
| (1,2451) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 12 | 0.35 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 4 | 0.35 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 4 | 0.35 |
| (1,2417) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 4 | 0.35 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 12 | 0.35 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 12 | 0.35 |
| (1,2381) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 12 | 0.35 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 12 | 0.35 |
| (1,2381) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 12 | 0.35 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 12 | 0.35 |
| (1,2381) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 12 | 0.35 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 6 | 0.35 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 6 | 0.35 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 6 | 0.35 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 3 | 0.35 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 18 | 0.35 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 6 | 0.35 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 2 | 0.35 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 15 | 0.35 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 6 | 0.35 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 15 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 2 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 2 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 2 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 6 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 6 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 6 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 9 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 9 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 9 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 13 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 13 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 13 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 18 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 18 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 18 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 19 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 19 | 0.35 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 19 | 0.35 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 1 | 0.35 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 3 | 0.35 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 3 | 0.35 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 3 | 0.35 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 14 | 0.35 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 3 | 0.35 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 3 | 0.35 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 3 | 0.35 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 13 | 0.35 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 2 | 0.35 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 11 | 0.35 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 11 | 0.35 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 11 | 0.35 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 16 | 0.35 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 15 | 0.35 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 15 | 0.35 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 15 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 2 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 2 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 2 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 2 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 2 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 2 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 2 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 2 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 2 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 3 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 3 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 3 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 3 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 3 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 3 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 3 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 3 | 0.35 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 3 | 0.35 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 7 | 0.35 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 8 | 0.35 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 9 | 0.35 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 9 | 0.35 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 7 | 0.35 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 7 | 0.35 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 7 | 0.35 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG21 | 10 | 0.35 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG22 | 10 | 0.35 |
| (1,2007) | 1:134:A:PHE:HA | 1:152:A:THR:HG23 | 10 | 0.35 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 7 | 0.35 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 5 | 0.35 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 6 | 0.35 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 16 | 0.35 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 9 | 0.35 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 9 | 0.35 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 9 | 0.35 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 5 | 0.35 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 9 | 0.35 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 16 | 0.35 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 9 | 0.35 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 9 | 0.35 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 1 | 0.35 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 11 | 0.35 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 17 | 0.35 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 10 | 0.35 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 10 | 0.35 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 10 | 0.35 |
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 1 | 0.35 |
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 6 | 0.35 |
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 14 | 0.35 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 3 | 0.35 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 18 | 0.35 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 18 | 0.35 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 18 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 17 | 0.35 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 17 | 0.35 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 17 | 0.35 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 8 | 0.35 |
| (1,1749) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 18 | 0.35 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 15 | 0.35 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 15 | 0.35 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 15 | 0.35 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 3 | 0.35 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 6 | 0.35 |
| (1,1703) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 19 | 0.35 |
| (1,1703) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 19 | 0.35 |
| (1,1703) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 19 | 0.35 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 3 | 0.35 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 7 | 0.35 |
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 9 | 0.35 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 9 | 0.35 |
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 9 | 0.35 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 16 | 0.35 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 16 | 0.35 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 16 | 0.35 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 2 | 0.35 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 18 | 0.35 |
| (1,1635) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 5 | 0.35 |
| (1,1635) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 5 | 0.35 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 20 | 0.35 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 9 | 0.35 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 15 | 0.35 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 11 | 0.35 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 11 | 0.35 |
| (1,1523) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 11 | 0.35 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 3 | 0.35 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 5 | 0.35 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 6 | 0.35 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 12 | 0.35 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 5 | 0.35 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 8 | 0.35 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 19 | 0.35 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 15 | 0.35 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 4 | 0.35 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 11 | 0.35 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 11 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 15 | 0.35 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 15 | 0.35 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 15 | 0.35 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 3 | 0.35 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 1 | 0.35 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 11 | 0.35 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 16 | 0.35 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 14 | 0.35 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 7 | 0.35 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 18 | 0.35 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 18 | 0.35 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 7 | 0.35 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 3 | 0.35 |
| (1,1085) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 2 | 0.35 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 2 | 0.35 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 5 | 0.35 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 2 | 0.35 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 6 | 0.35 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 17 | 0.35 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 15 | 0.35 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 9 | 0.35 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 17 | 0.35 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 19 | 0.35 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 19 | 0.35 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 19 | 0.35 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 4 | 0.35 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 5 | 0.35 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 13 | 0.35 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 8 | 0.35 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 8 | 0.35 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 8 | 0.35 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 8 | 0.35 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 8 | 0.35 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 8 | 0.35 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 8 | 0.35 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 10 | 0.35 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 10 | 0.35 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 10 | 0.35 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 9 | 0.35 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 9 | 0.35 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 18 | 0.35 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 6 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,731) | 1:97:A:LYS:HG2 | 1:98:A:SER:H | 16 | 0.35 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 10 | 0.35 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 18 | 0.35 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 9 | 0.35 |
| (1,679) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 15 | 0.35 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 14 | 0.35 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 14 | 0.35 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 14 | 0.35 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 5 | 0.35 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 19 | 0.35 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 13 | 0.35 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 18 | 0.35 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 2 | 0.35 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 20 | 0.35 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 7 | 0.35 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 3 | 0.35 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 3 | 0.35 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 3 | 0.35 |
| (1,472) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 7 | 0.35 |
| (1,472) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 7 | 0.35 |
| (1,472) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 7 | 0.35 |
| (1,469) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 20 | 0.35 |
| (1,469) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 20 | 0.35 |
| (1,469) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 20 | 0.35 |
| (1,458) | 1:89:A:ILE:H | 1:90:A:ASN:H | 14 | 0.35 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 1 | 0.35 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 1 | 0.35 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 1 | 0.35 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 12 | 0.35 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 12 | 0.35 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 12 | 0.35 |
| (1,413) | 1:86:A:LEU:HD11 | 1:89:A:ILE:HB | 16 | 0.35 |
| (1,413) | 1:86:A:LEU:HD12 | 1:89:A:ILE:HB | 16 | 0.35 |
| (1,413) | 1:86:A:LEU:HD13 | 1:89:A:ILE:HB | 16 | 0.35 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 3 | 0.35 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 14 | 0.35 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 7 | 0.35 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 7 | 0.35 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 19 | 0.35 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 19 | 0.35 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 1 | 0.35 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 1 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 1 | 0.35 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 4 | 0.35 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 13 | 0.35 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 7 | 0.35 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 7 | 0.35 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 7 | 0.35 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 5 | 0.35 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 6 | 0.35 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 9 | 0.35 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 9 | 0.35 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 9 | 0.35 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG21 | 19 | 0.35 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG22 | 19 | 0.35 |
| (1,269) | 1:77:A:LYS:HE2 | 1:79:A:THR:HG23 | 19 | 0.35 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG21 | 19 | 0.35 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG22 | 19 | 0.35 |
| (1,269) | 1:77:A:LYS:HE3 | 1:79:A:THR:HG23 | 19 | 0.35 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 7 | 0.35 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 7 | 0.35 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 15 | 0.35 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 15 | 0.35 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 5 | 0.35 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 14 | 0.35 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 15 | 0.35 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 20 | 0.35 |
| (1,201) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 14 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 3 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 3 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 5 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 5 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 7 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 7 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 16 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 16 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 19 | 0.35 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 19 | 0.35 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 6 | 0.35 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 6 | 0.35 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 6 | 0.35 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 3 | 0.35 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 2 | 0.35 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 3 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 16 | 0.35 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 13 | 0.35 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 13 | 0.35 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 13 | 0.35 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 13 | 0.35 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 13 | 0.35 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 13 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 13 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 13 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 13 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 13 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 13 | 0.35 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 13 | 0.35 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 5 | 0.35 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 7 | 0.35 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 13 | 0.35 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 5 | 0.35 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 11 | 0.35 |
| (1,59) | 1:55:A:VAL:HG11 | 1:56:A:ARG:H | 1 | 0.35 |
| (1,59) | 1:55:A:VAL:HG12 | 1:56:A:ARG:H | 1 | 0.35 |
| (1,59) | 1:55:A:VAL:HG13 | 1:56:A:ARG:H | 1 | 0.35 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 19 | 0.35 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 19 | 0.35 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 19 | 0.35 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 19 | 0.35 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 16 | 0.35 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 16 | 0.35 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 10 | 0.34 |
| (4,234) | 1:15:A:MET:CB | 1:97:A:LYS:H | 18 | 0.34 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 9 | 0.34 |
| (4,38) | 1:15:A:MET:CB | 1:90:A:ASN:H | 13 | 0.34 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 8 | 0.34 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 8 | 0.34 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 8 | 0.34 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 8 | 0.34 |
| (3,884) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 17 | 0.34 |
| (3,884) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 17 | 0.34 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 8 | 0.34 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 8 | 0.34 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 15 | 0.34 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 15 | 0.34 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 16 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 2 | 0.34 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 2 | 0.34 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 2 | 0.34 |
| (3,440) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HG2 | 3 | 0.34 |
| (3,440) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HG2 | 3 | 0.34 |
| (3,400) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HA | 19 | 0.34 |
| (3,400) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HA | 19 | 0.34 |
| (3,400) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HA | 19 | 0.34 |
| (3,355) | 1:56:A:ARG:HB3 | 1:124:A:ALA:H | 17 | 0.34 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 17 | 0.34 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 17 | 0.34 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 17 | 0.34 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 17 | 0.34 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 17 | 0.34 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 17 | 0.34 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 7 | 0.34 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 7 | 0.34 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 15 | 0.34 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 15 | 0.34 |
| (3,258) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB2 | 12 | 0.34 |
| (3,258) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB2 | 12 | 0.34 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 15 | 0.34 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 15 | 0.34 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 3 | 0.34 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 5 | 0.34 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 5 | 0.34 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 18 | 0.34 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 18 | 0.34 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 18 | 0.34 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 18 | 0.34 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 18 | 0.34 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 18 | 0.34 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 18 | 0.34 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 18 | 0.34 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 18 | 0.34 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 2 | 0.34 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 2 | 0.34 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 17 | 0.34 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 17 | 0.34 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 2 | 0.34 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 2 | 0.34 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 2 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 2 | 0.34 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 2 | 0.34 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 2 | 0.34 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 17 | 0.34 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 17 | 0.34 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 12 | 0.34 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 12 | 0.34 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 19 | 0.34 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 19 | 0.34 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 17 | 0.34 |
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 17 | 0.34 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 19 | 0.34 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 19 | 0.34 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 19 | 0.34 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 19 | 0.34 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 19 | 0.34 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 19 | 0.34 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 20 | 0.34 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 0.34 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 9 | 0.34 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 9 | 0.34 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 14 | 0.34 |
| (1,8920) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 14 | 0.34 |
| (1,8824) | 1:59:A:HIS:HB2 | 1:60:A:LEU:H | 13 | 0.34 |
| (1,8824) | 1:59:A:HIS:HB3 | 1:60:A:LEU:H | 13 | 0.34 |
| (1,8783) | 1:56:A:ARG:HG2 | 1:124:A:ALA:H | 7 | 0.34 |
| (1,8783) | 1:56:A:ARG:HG3 | 1:124:A:ALA:H | 7 | 0.34 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 2 | 0.34 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 2 | 0.34 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 9 | 0.34 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 9 | 0.34 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 16 | 0.34 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 16 | 0.34 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 14 | 0.34 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 14 | 0.34 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 14 | 0.34 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 14 | 0.34 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 14 | 0.34 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 14 | 0.34 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG2 | 11 | 0.34 |
| (1,8632) | 1:21:A:ARG:H | 1:21:A:ARG:HG3 | 11 | 0.34 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 18 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 18 | 0.34 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 19 | 0.34 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 19 | 0.34 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 20 | 0.34 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 20 | 0.34 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 20 | 0.34 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 20 | 0.34 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 20 | 0.34 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 20 | 0.34 |
| (1,8425) | 1:143:A:THR:H | 1:145:A:GLU:H | 20 | 0.34 |
| (1,8171) | 1:100:A:GLU:H | 1:102:A:ASP:H | 3 | 0.34 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 1 | 0.34 |
| (1,7992) | 1:81:A:THR:H | 1:82:A:LYS:H | 7 | 0.34 |
| (1,7471) | 1:12:A:GLU:H | 1:27:A:HIS:H | 4 | 0.34 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 18 | 0.34 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA2 | 9 | 0.34 |
| (1,7339) | 1:89:A:ILE:H | 1:91:A:GLY:HA3 | 9 | 0.34 |
| (1,7284) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 19 | 0.34 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 15 | 0.34 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 1 | 0.34 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 1 | 0.34 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 14 | 0.34 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 14 | 0.34 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 14 | 0.34 |
| (1,7073) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 16 | 0.34 |
| (1,7073) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 16 | 0.34 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 11 | 0.34 |
| (1,7016) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HB2 | 5 | 0.34 |
| (1,7008) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 1 | 0.34 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 5 | 0.34 |
| (1,6923) | 1:31:A:ALA:HA | 1:32:A:SER:H | 8 | 0.34 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 17 | 0.34 |
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 14 | 0.34 |
| (1,6819) | 1:26:A:ASN:H | 1:26:A:ASN:HD22 | 12 | 0.34 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 6 | 0.34 |
| (1,6674) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 12 | 0.34 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 6 | 0.34 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 3 | 0.34 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 1 | 0.34 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 10 | 0.34 |
| (1,6451) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 4 | 0.34 |
| (1,6451) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 4 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6451) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 4 | 0.34 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 14 | 0.34 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 10 | 0.34 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 12 | 0.34 |
| (1,6368) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 11 | 0.34 |
| (1,6368) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 11 | 0.34 |
| (1,6368) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 11 | 0.34 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 8 | 0.34 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 8 | 0.34 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 8 | 0.34 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 6 | 0.34 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 16 | 0.34 |
| (1,6252) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 20 | 0.34 |
| (1,6252) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 20 | 0.34 |
| (1,6252) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 20 | 0.34 |
| (1,6252) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 20 | 0.34 |
| (1,6252) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 20 | 0.34 |
| (1,6252) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 20 | 0.34 |
| (1,6252) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 20 | 0.34 |
| (1,6252) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 20 | 0.34 |
| (1,6252) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 20 | 0.34 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 3 | 0.34 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 20 | 0.34 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 6 | 0.34 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 9 | 0.34 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 7 | 0.34 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 7 | 0.34 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 11 | 0.34 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 15 | 0.34 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 16 | 0.34 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 16 | 0.34 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 16 | 0.34 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 15 | 0.34 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 20 | 0.34 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 20 | 0.34 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 20 | 0.34 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 12 | 0.34 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 18 | 0.34 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 20 | 0.34 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 16 | 0.34 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 18 | 0.34 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 7 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 2 | 0.34 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 14 | 0.34 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 5 | 0.34 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 5 | 0.34 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 20 | 0.34 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 20 | 0.34 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 10 | 0.34 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 19 | 0.34 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 18 | 0.34 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 20 | 0.34 |
| (1,5726) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 14 | 0.34 |
| (1,5726) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 14 | 0.34 |
| (1,5726) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 14 | 0.34 |
| (1,5669) | 1:105:A:SER:HA | 1:108:A:SER:H | 9 | 0.34 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 18 | 0.34 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 18 | 0.34 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 18 | 0.34 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 8 | 0.34 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 16 | 0.34 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 20 | 0.34 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 12 | 0.34 |
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 7 | 0.34 |
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 7 | 0.34 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 7 | 0.34 |
| (1,5317) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 3 | 0.34 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 17 | 0.34 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 13 | 0.34 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 13 | 0.34 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 13 | 0.34 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 1 | 0.34 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 7 | 0.34 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 7 | 0.34 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 3 | 0.34 |
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 3 | 0.34 |
| (1,5163) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 20 | 0.34 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 4 | 0.34 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 11 | 0.34 |
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 10 | 0.34 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 13 | 0.34 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 13 | 0.34 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 13 | 0.34 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 10 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 18 | 0.34 |
| (1,4998) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 16 | 0.34 |
| (1,4996) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 17 | 0.34 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 6 | 0.34 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 6 | 0.34 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 6 | 0.34 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 11 | 0.34 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 19 | 0.34 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 19 | 0.34 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 11 | 0.34 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 5 | 0.34 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 7 | 0.34 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 9 | 0.34 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 10 | 0.34 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 11 | 0.34 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 14 | 0.34 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 15 | 0.34 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 3 | 0.34 |
| (1,4893) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 4 | 0.34 |
| (1,4893) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 4 | 0.34 |
| (1,4869) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 8 | 0.34 |
| (1,4869) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 8 | 0.34 |
| (1,4869) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 8 | 0.34 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 18 | 0.34 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 18 | 0.34 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 18 | 0.34 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 19 | 0.34 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 18 | 0.34 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 1 | 0.34 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 13 | 0.34 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 1 | 0.34 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 14 | 0.34 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 2 | 0.34 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 4 | 0.34 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 4 | 0.34 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 4 | 0.34 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 9 | 0.34 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 9 | 0.34 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 9 | 0.34 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB2 | 19 | 0.34 |
| (1,4547) | 1:144:A:GLY:H | 1:161:A:ARG:HB3 | 19 | 0.34 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 2 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 2 | 0.34 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 17 | 0.34 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 17 | 0.34 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 20 | 0.34 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 20 | 0.34 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 20 | 0.34 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 20 | 0.34 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 20 | 0.34 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 20 | 0.34 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 14 | 0.34 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 14 | 0.34 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 9 | 0.34 |
| (1,4417) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 9 | 0.34 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 18 | 0.34 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 18 | 0.34 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 12 | 0.34 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 12 | 0.34 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 18 | 0.34 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 18 | 0.34 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 5 | 0.34 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 5 | 0.34 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 5 | 0.34 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 5 | 0.34 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 8 | 0.34 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 8 | 0.34 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 9 | 0.34 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 9 | 0.34 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 8 | 0.34 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 8 | 0.34 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 3 | 0.34 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 3 | 0.34 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 9 | 0.34 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 9 | 0.34 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 9 | 0.34 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 9 | 0.34 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 19 | 0.34 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 19 | 0.34 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 15 | 0.34 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 15 | 0.34 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 20 | 0.34 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 20 | 0.34 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 9 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 9 | 0.34 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 5 | 0.34 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 5 | 0.34 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 7 | 0.34 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 7 | 0.34 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 8 | 0.34 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 8 | 0.34 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 12 | 0.34 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 12 | 0.34 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 14 | 0.34 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 14 | 0.34 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 1 | 0.34 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 1 | 0.34 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 18 | 0.34 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 18 | 0.34 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 15 | 0.34 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 15 | 0.34 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 20 | 0.34 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 20 | 0.34 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 20 | 0.34 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 20 | 0.34 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 20 | 0.34 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 20 | 0.34 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 15 | 0.34 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 15 | 0.34 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 17 | 0.34 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 18 | 0.34 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 18 | 0.34 |
| (1,3355) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 18 | 0.34 |
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 19 | 0.34 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 19 | 0.34 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 19 | 0.34 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 18 | 0.34 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 8 | 0.34 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 9 | 0.34 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 9 | 0.34 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 9 | 0.34 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 12 | 0.34 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 19 | 0.34 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 7 | 0.34 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 7 | 0.34 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 14 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 18 | 0.34 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 7 | 0.34 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 7 | 0.34 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 16 | 0.34 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 16 | 0.34 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 8 | 0.34 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 7 | 0.34 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 12 | 0.34 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 14 | 0.34 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 18 | 0.34 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 4 | 0.34 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 4 | 0.34 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 5 | 0.34 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 4 | 0.34 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 4 | 0.34 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 4 | 0.34 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 19 | 0.34 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 12 | 0.34 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 14 | 0.34 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 9 | 0.34 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 9 | 0.34 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 9 | 0.34 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 15 | 0.34 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 15 | 0.34 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 15 | 0.34 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 10 | 0.34 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 10 | 0.34 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 10 | 0.34 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 8 | 0.34 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 8 | 0.34 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 8 | 0.34 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 8 | 0.34 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 8 | 0.34 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 8 | 0.34 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 8 | 0.34 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 8 | 0.34 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 8 | 0.34 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 3 | 0.34 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 20 | 0.34 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 14 | 0.34 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 14 | 0.34 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 14 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 11 | 0.34 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 16 | 0.34 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 16 | 0.34 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 16 | 0.34 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 19 | 0.34 |
| (1,2561) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD3 | 12 | 0.34 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 11 | 0.34 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 11 | 0.34 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 11 | 0.34 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 11 | 0.34 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 2 | 0.34 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 2 | 0.34 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 2 | 0.34 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 1 | 0.34 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 15 | 0.34 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 10 | 0.34 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 17 | 0.34 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 3 | 0.34 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 8 | 0.34 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 8 | 0.34 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 8 | 0.34 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 10 | 0.34 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 10 | 0.34 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 10 | 0.34 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 11 | 0.34 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 11 | 0.34 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 11 | 0.34 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 8 | 0.34 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 14 | 0.34 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 11 | 0.34 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 5 | 0.34 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 17 | 0.34 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 16 | 0.34 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 19 | 0.34 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 19 | 0.34 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 19 | 0.34 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 14 | 0.34 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 14 | 0.34 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 6 | 0.34 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 10 | 0.34 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 10 | 0.34 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 10 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 3 | 0.34 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 15 | 0.34 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 15 | 0.34 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 15 | 0.34 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 7 | 0.34 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 7 | 0.34 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 7 | 0.34 |
| (1,2141) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 6 | 0.34 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 7 | 0.34 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 19 | 0.34 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 19 | 0.34 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 19 | 0.34 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 17 | 0.34 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 10 | 0.34 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 12 | 0.34 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 15 | 0.34 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 17 | 0.34 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 17 | 0.34 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 17 | 0.34 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 17 | 0.34 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 17 | 0.34 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 6 | 0.34 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 2 | 0.34 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 2 | 0.34 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 2 | 0.34 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 9 | 0.34 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 9 | 0.34 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 9 | 0.34 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 18 | 0.34 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 18 | 0.34 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 18 | 0.34 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 11 | 0.34 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 11 | 0.34 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 11 | 0.34 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 18 | 0.34 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 6 | 0.34 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 3 | 0.34 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 6 | 0.34 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 9 | 0.34 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 17 | 0.34 |
| (1,1789) | 1:142:A:ARG:HA | 1:142:A:ARG:HB2 | 19 | 0.34 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 13 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 13 | 0.34 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 13 | 0.34 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 11 | 0.34 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 15 | 0.34 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD1 | 8 | 0.34 |
| (1,1723) | 1:139:A:PHE:H | 1:139:A:PHE:HD2 | 8 | 0.34 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 20 | 0.34 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 15 | 0.34 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 12 | 0.34 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 12 | 0.34 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 12 | 0.34 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 12 | 0.34 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 12 | 0.34 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 12 | 0.34 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 12 | 0.34 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 12 | 0.34 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 12 | 0.34 |
| (1,1583) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 19 | 0.34 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 3 | 0.34 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 3 | 0.34 |
| (1,1471) | 1:129:A:GLN:H | 1:130:A:MET:HB2 | 3 | 0.34 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 18 | 0.34 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 6 | 0.34 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 6 | 0.34 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 6 | 0.34 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 15 | 0.34 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 8 | 0.34 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 17 | 0.34 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 17 | 0.34 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 17 | 0.34 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 17 | 0.34 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 17 | 0.34 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 17 | 0.34 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 8 | 0.34 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 18 | 0.34 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 18 | 0.34 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 18 | 0.34 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 18 | 0.34 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 18 | 0.34 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 18 | 0.34 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 18 | 0.34 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 18 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 18 | 0.34 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 8 | 0.34 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 8 | 0.34 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 8 | 0.34 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 19 | 0.34 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 19 | 0.34 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 4 | 0.34 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 4 | 0.34 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 5 | 0.34 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 5 | 0.34 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 5 | 0.34 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 2 | 0.34 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 6 | 0.34 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 14 | 0.34 |
| (1,1141) | 1:115:A:SER:HA | 1:116:A:ALA:H | 6 | 0.34 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 14 | 0.34 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 9 | 0.34 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 19 | 0.34 |
| (1,1111) | 1:60:A:LEU:HD21 | 1:112:A:ASP:H | 5 | 0.34 |
| (1,1111) | 1:60:A:LEU:HD22 | 1:112:A:ASP:H | 5 | 0.34 |
| (1,1111) | 1:60:A:LEU:HD23 | 1:112:A:ASP:H | 5 | 0.34 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 19 | 0.34 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 2 | 0.34 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 18 | 0.34 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 20 | 0.34 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 13 | 0.34 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 8 | 0.34 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 8 | 0.34 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 8 | 0.34 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 2 | 0.34 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 10 | 0.34 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 3 | 0.34 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 3 | 0.34 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 3 | 0.34 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 12 | 0.34 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 14 | 0.34 |
| (1,895) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 11 | 0.34 |
| (1,881) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 10 | 0.34 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 19 | 0.34 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 2 | 0.34 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 2 | 0.34 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 2 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 2 | 0.34 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 2 | 0.34 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 2 | 0.34 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 15 | 0.34 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 15 | 0.34 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 19 | 0.34 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 19 | 0.34 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 4 | 0.34 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 6 | 0.34 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 6 | 0.34 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 6 | 0.34 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 6 | 0.34 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 6 | 0.34 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 6 | 0.34 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 17 | 0.34 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 17 | 0.34 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 17 | 0.34 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 19 | 0.34 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 19 | 0.34 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 19 | 0.34 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 6 | 0.34 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 1 | 0.34 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 19 | 0.34 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 19 | 0.34 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 19 | 0.34 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 16 | 0.34 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 11 | 0.34 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 11 | 0.34 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 11 | 0.34 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 17 | 0.34 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 19 | 0.34 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 14 | 0.34 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 14 | 0.34 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 14 | 0.34 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 20 | 0.34 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 4 | 0.34 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 4 | 0.34 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 4 | 0.34 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 9 | 0.34 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 18 | 0.34 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 12 | 0.34 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 5 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 5 | 0.34 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 5 | 0.34 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 3 | 0.34 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 3 | 0.34 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 3 | 0.34 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 18 | 0.34 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 18 | 0.34 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 18 | 0.34 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 13 | 0.34 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 12 | 0.34 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 12 | 0.34 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 12 | 0.34 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 12 | 0.34 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 12 | 0.34 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 12 | 0.34 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 17 | 0.34 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 17 | 0.34 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 17 | 0.34 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 17 | 0.34 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 17 | 0.34 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 17 | 0.34 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 17 | 0.34 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 3 | 0.34 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 14 | 0.34 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 19 | 0.34 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 7 | 0.34 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 16 | 0.34 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 16 | 0.34 |
| (1,340) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 16 | 0.34 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 4 | 0.34 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 11 | 0.34 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 14 | 0.34 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 20 | 0.34 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 13 | 0.34 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 13 | 0.34 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 13 | 0.34 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 15 | 0.34 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 13 | 0.34 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 9 | 0.34 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 20 | 0.34 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 20 | 0.34 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 20 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG21 | 6 | 0.34 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG22 | 6 | 0.34 |
| (1,261) | 1:77:A:LYS:H | 1:79:A:THR:HG23 | 6 | 0.34 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 12 | 0.34 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 1 | 0.34 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 1 | 0.34 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 12 | 0.34 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 12 | 0.34 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 14 | 0.34 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 16 | 0.34 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG2 | 17 | 0.34 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG3 | 17 | 0.34 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 19 | 0.34 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 5 | 0.34 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 7 | 0.34 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 9 | 0.34 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 10 | 0.34 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 11 | 0.34 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 14 | 0.34 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 15 | 0.34 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 3 | 0.34 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 3 | 0.34 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 1 | 0.34 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 1 | 0.34 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 1 | 0.34 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 1 | 0.34 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 1 | 0.34 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 1 | 0.34 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 1 | 0.34 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 1 | 0.34 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 1 | 0.34 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 7 | 0.34 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 12 | 0.34 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 12 | 0.34 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 12 | 0.34 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 11 | 0.34 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 11 | 0.34 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 11 | 0.34 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 11 | 0.34 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 11 | 0.34 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 11 | 0.34 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 11 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 11 | 0.34 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 11 | 0.34 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 19 | 0.34 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 11 | 0.34 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 18 | 0.34 |
| (1,90) | 1:57:A:CYS:H | 1:57:A:CYS:HB3 | 12 | 0.34 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 12 | 0.34 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 9 | 0.34 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 9 | 0.34 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 9 | 0.34 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 9 | 0.34 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 2 | 0.34 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 9 | 0.34 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 9 | 0.34 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 16 | 0.33 |
| (4,125) | 1:90:A:ASN:CB | 1:28:A:ILE:H | 18 | 0.33 |
| (4,116) | 1:90:A:ASN:CB | 1:16:A:SER:H | 18 | 0.33 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 14 | 0.33 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 14 | 0.33 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 14 | 0.33 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 14 | 0.33 |
| (3,977) | 1:108:A:SER:HB2 | 1:117:A:LYS:H | 6 | 0.33 |
| (3,977) | 1:108:A:SER:HB3 | 1:117:A:LYS:H | 6 | 0.33 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 1 | 0.33 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 1 | 0.33 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 1 | 0.33 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 1 | 0.33 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 4 | 0.33 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 4 | 0.33 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 4 | 0.33 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 4 | 0.33 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD2 | 3 | 0.33 |
| (3,870) | 1:73:A:TRP:HE1 | 1:74:A:ARG:HD3 | 3 | 0.33 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 10 | 0.33 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 10 | 0.33 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG21 | 4 | 0.33 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG22 | 4 | 0.33 |
| (3,748) | 1:160:A:LEU:H | 1:162:A:THR:HG23 | 4 | 0.33 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 18 | 0.33 |
| (3,490) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 5 | 0.33 |
| (3,484) | 1:82:A:LYS:HB3 | 1:85:A:ALA:H | 13 | 0.33 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 6 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,393) | 1:60:A:LEU:HD21 | 1:108:A:SER:H | 9 | 0.33 |
| (3,393) | 1:60:A:LEU:HD22 | 1:108:A:SER:H | 9 | 0.33 |
| (3,393) | 1:60:A:LEU:HD23 | 1:108:A:SER:H | 9 | 0.33 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 2 | 0.33 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 2 | 0.33 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 2 | 0.33 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 7 | 0.33 |
| (3,104) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 17 | 0.33 |
| (3,104) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 17 | 0.33 |
| (3,92) | 1:14:A:ARG:H | 1:22:A:VAL:HG21 | 11 | 0.33 |
| (3,92) | 1:14:A:ARG:H | 1:22:A:VAL:HG22 | 11 | 0.33 |
| (3,92) | 1:14:A:ARG:H | 1:22:A:VAL:HG23 | 11 | 0.33 |
| (3,75) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 19 | 0.33 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 8 | 0.33 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 9 | 0.33 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 3 | 0.33 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 3 | 0.33 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 3 | 0.33 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 5 | 0.33 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 5 | 0.33 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 5 | 0.33 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 5 | 0.33 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 5 | 0.33 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 5 | 0.33 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD11 | 5 | 0.33 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD12 | 5 | 0.33 |
| (3,16) | 1:78:A:ILE:HG21 | 1:88:A:LEU:HD13 | 5 | 0.33 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD11 | 5 | 0.33 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD12 | 5 | 0.33 |
| (3,16) | 1:78:A:ILE:HG22 | 1:88:A:LEU:HD13 | 5 | 0.33 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD11 | 5 | 0.33 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD12 | 5 | 0.33 |
| (3,16) | 1:78:A:ILE:HG23 | 1:88:A:LEU:HD13 | 5 | 0.33 |
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 18 | 0.33 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 18 | 0.33 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 18 | 0.33 |
| (1,9511) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 4 | 0.33 |
| (1,9511) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 4 | 0.33 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 5 | 0.33 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 5 | 0.33 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 1 | 0.33 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 1 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 1 | 0.33 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 1 | 0.33 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 1 | 0.33 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 1 | 0.33 |
| (1,9180) | 1:94:A:GLN:H | 1:95:A:LYS:HD2 | 4 | 0.33 |
| (1,9180) | 1:94:A:GLN:H | 1:95:A:LYS:HD3 | 4 | 0.33 |
| (1,9178) | 1:94:A:GLN:H | 1:95:A:LYS:HG2 | 14 | 0.33 |
| (1,9178) | 1:94:A:GLN:H | 1:95:A:LYS:HG3 | 14 | 0.33 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 1 | 0.33 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 1 | 0.33 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 1 | 0.33 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 1 | 0.33 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 1 | 0.33 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 1 | 0.33 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 8 | 0.33 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 8 | 0.33 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 6 | 0.33 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 6 | 0.33 |
| (1,8924) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 18 | 0.33 |
| (1,8924) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 18 | 0.33 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 8 | 0.33 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 8 | 0.33 |
| (1,8699) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 17 | 0.33 |
| (1,8699) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 17 | 0.33 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 12 | 0.33 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 12 | 0.33 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 12 | 0.33 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 12 | 0.33 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 7 | 0.33 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 7 | 0.33 |
| (1,8648) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 13 | 0.33 |
| (1,8648) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 13 | 0.33 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 1 | 0.33 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 1 | 0.33 |
| (1,8462) | 1:150:A:VAL:HA | 1:151:A:PHE:H | 2 | 0.33 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 14 | 0.33 |
| (1,8040) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 3 | 0.33 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 3 | 0.33 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 6 | 0.33 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 9 | 0.33 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 5 | 0.33 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 4 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 20 | 0.33 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 10 | 0.33 |
| (1,7332) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 8 | 0.33 |
| (1,7141) | 1:92:A:TYR:H | 1:93:A:ILE:HG12 | 16 | 0.33 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 8 | 0.33 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 9 | 0.33 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 11 | 0.33 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 11 | 0.33 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 7 | 0.33 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 10 | 0.33 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 20 | 0.33 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 4 | 0.33 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 4 | 0.33 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 6 | 0.33 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 11 | 0.33 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 11 | 0.33 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 13 | 0.33 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 9 | 0.33 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 19 | 0.33 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 15 | 0.33 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 12 | 0.33 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 7 | 0.33 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 4 | 0.33 |
| (1,6606) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 8 | 0.33 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 8 | 0.33 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 2 | 0.33 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 19 | 0.33 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 20 | 0.33 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 20 | 0.33 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 20 | 0.33 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 15 | 0.33 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 15 | 0.33 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 15 | 0.33 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 7 | 0.33 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 7 | 0.33 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 7 | 0.33 |
| (1,6354) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 18 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 7 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 7 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 7 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 7 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 7 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 7 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB2 | 15 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD11 | 1:154:A:SER:HB3 | 15 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB2 | 15 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD12 | 1:154:A:SER:HB3 | 15 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB2 | 15 | 0.33 |
| (1,6346) | 1:61:A:LEU:HD13 | 1:154:A:SER:HB3 | 15 | 0.33 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 3 | 0.33 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 3 | 0.33 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 16 | 0.33 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 12 | 0.33 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 9 | 0.33 |
| (1,6145) | 1:140:A:ALA:H | 1:141:A:LEU:H | 3 | 0.33 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 5 | 0.33 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 8 | 0.33 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 12 | 0.33 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 14 | 0.33 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 14 | 0.33 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 10 | 0.33 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 6 | 0.33 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 5 | 0.33 |
| (1,5902) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 15 | 0.33 |
| (1,5902) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 15 | 0.33 |
| (1,5902) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 15 | 0.33 |
| (1,5902) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 15 | 0.33 |
| (1,5902) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 15 | 0.33 |
| (1,5902) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 15 | 0.33 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 5 | 0.33 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 17 | 0.33 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 6 | 0.33 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 3 | 0.33 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 16 | 0.33 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 14 | 0.33 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 14 | 0.33 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 1 | 0.33 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD2 | 8 | 0.33 |
| (1,5812) | 1:117:A:LYS:H | 1:117:A:LYS:HD3 | 8 | 0.33 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 14 | 0.33 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 14 | 0.33 |
| (1,5619) | 1:101:A:GLU:H | 1:102:A:ASP:H | 7 | 0.33 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 9 | 0.33 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 12 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 12 | 0.33 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 4 | 0.33 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 15 | 0.33 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 8 | 0.33 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 8 | 0.33 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 8 | 0.33 |
| (1,5273) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 5 | 0.33 |
| (1,5273) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 5 | 0.33 |
| (1,5273) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 5 | 0.33 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 20 | 0.33 |
| (1,5194) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 1 | 0.33 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 5 | 0.33 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 1 | 0.33 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 6 | 0.33 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 6 | 0.33 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 6 | 0.33 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 7 | 0.33 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 8 | 0.33 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 9 | 0.33 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 10 | 0.33 |
| (1,4992) | 1:73:A:TRP:H | 1:74:A:ARG:H | 3 | 0.33 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 18 | 0.33 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 12 | 0.33 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 12 | 0.33 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 12 | 0.33 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 8 | 0.33 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 8 | 0.33 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 8 | 0.33 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 17 | 0.33 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 1 | 0.33 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 17 | 0.33 |
| (1,4893) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 5 | 0.33 |
| (1,4893) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 5 | 0.33 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 17 | 0.33 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 17 | 0.33 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 17 | 0.33 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 17 | 0.33 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 17 | 0.33 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 17 | 0.33 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 17 | 0.33 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 17 | 0.33 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 17 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 1 | 0.33 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 10 | 0.33 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 8 | 0.33 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 9 | 0.33 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 7 | 0.33 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 3 | 0.33 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 3 | 0.33 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 3 | 0.33 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 14 | 0.33 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 19 | 0.33 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 1 | 0.33 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 1 | 0.33 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 14 | 0.33 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 14 | 0.33 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 15 | 0.33 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 15 | 0.33 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 17 | 0.33 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 17 | 0.33 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 4 | 0.33 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 4 | 0.33 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 12 | 0.33 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 12 | 0.33 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 17 | 0.33 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 17 | 0.33 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 17 | 0.33 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 14 | 0.33 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 14 | 0.33 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 2 | 0.33 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 2 | 0.33 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 6 | 0.33 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 6 | 0.33 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 16 | 0.33 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 16 | 0.33 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 14 | 0.33 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 14 | 0.33 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 11 | 0.33 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 11 | 0.33 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 19 | 0.33 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 19 | 0.33 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 8 | 0.33 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 8 | 0.33 |
| (1,3879) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 10 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE21 | 18 | 0.33 |
| (1,3869) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HE22 | 18 | 0.33 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE21 | 18 | 0.33 |
| (1,3869) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HE22 | 18 | 0.33 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 19 | 0.33 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 19 | 0.33 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 19 | 0.33 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 19 | 0.33 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 19 | 0.33 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 19 | 0.33 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 15 | 0.33 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 15 | 0.33 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 11 | 0.33 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 11 | 0.33 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 1 | 0.33 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 1 | 0.33 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 3 | 0.33 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 3 | 0.33 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 5 | 0.33 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 5 | 0.33 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 14 | 0.33 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 0.33 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 14 | 0.33 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 17 | 0.33 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 17 | 0.33 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 18 | 0.33 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 18 | 0.33 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 20 | 0.33 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 0.33 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 7 | 0.33 |
| (1,3341) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 15 | 0.33 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 17 | 0.33 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 14 | 0.33 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 14 | 0.33 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 14 | 0.33 |
| (1,3207) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 20 | 0.33 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 14 | 0.33 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 4 | 0.33 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 12 | 0.33 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 12 | 0.33 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 8 | 0.33 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 17 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3053) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 18 | 0.33 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 12 | 0.33 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 12 | 0.33 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 1 | 0.33 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 1 | 0.33 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 5 | 0.33 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 5 | 0.33 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 7 | 0.33 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 7 | 0.33 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 2 | 0.33 |
| (1,3015) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 2 | 0.33 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 6 | 0.33 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 18 | 0.33 |
| (1,2915) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 13 | 0.33 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 11 | 0.33 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 11 | 0.33 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 11 | 0.33 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 6 | 0.33 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 6 | 0.33 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 6 | 0.33 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 11 | 0.33 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 20 | 0.33 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 4 | 0.33 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 8 | 0.33 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 5 | 0.33 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 14 | 0.33 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 18 | 0.33 |
| (1,2573) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD3 | 15 | 0.33 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 7 | 0.33 |
| (1,2557) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 6 | 0.33 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 18 | 0.33 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 18 | 0.33 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 18 | 0.33 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 18 | 0.33 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 5 | 0.33 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 5 | 0.33 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 4 | 0.33 |
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 10 | 0.33 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 2 | 0.33 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 16 | 0.33 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 16 | 0.33 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 16 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 5 | 0.33 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 16 | 0.33 |
| (1,2321) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 5 | 0.33 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 19 | 0.33 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 10 | 0.33 |
| (1,2271) | 1:2:A:ALA:HB1 | 1:3:A:ASP:H | 16 | 0.33 |
| (1,2271) | 1:2:A:ALA:HB2 | 1:3:A:ASP:H | 16 | 0.33 |
| (1,2271) | 1:2:A:ALA:HB3 | 1:3:A:ASP:H | 16 | 0.33 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 6 | 0.33 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 12 | 0.33 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 2 | 0.33 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 15 | 0.33 |
| (1,2229) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 14 | 0.33 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 8 | 0.33 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 8 | 0.33 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 8 | 0.33 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 16 | 0.33 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 3 | 0.33 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 3 | 0.33 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 3 | 0.33 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 11 | 0.33 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 11 | 0.33 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 11 | 0.33 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 9 | 0.33 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 9 | 0.33 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 9 | 0.33 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 18 | 0.33 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 18 | 0.33 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 18 | 0.33 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 19 | 0.33 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 19 | 0.33 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 19 | 0.33 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 5 | 0.33 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 5 | 0.33 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 5 | 0.33 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 3 | 0.33 |
| (1,2071) | 1:156:A:ILE:H | 1:157:A:HIS:H | 8 | 0.33 |
| (1,2035) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 18 | 0.33 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 16 | 0.33 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 16 | 0.33 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 1 | 0.33 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 3 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 11 | 0.33 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 11 | 0.33 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 3 | 0.33 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 3 | 0.33 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 16 | 0.33 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 14 | 0.33 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 14 | 0.33 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 14 | 0.33 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 14 | 0.33 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 14 | 0.33 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 14 | 0.33 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 14 | 0.33 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 14 | 0.33 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 14 | 0.33 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 20 | 0.33 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 12 | 0.33 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 2 | 0.33 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 2 | 0.33 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 10 | 0.33 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 10 | 0.33 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 19 | 0.33 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 19 | 0.33 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 19 | 0.33 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 20 | 0.33 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 20 | 0.33 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 17 | 0.33 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 17 | 0.33 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 17 | 0.33 |
| (1,1727) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 12 | 0.33 |
| (1,1727) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 12 | 0.33 |
| (1,1727) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 12 | 0.33 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 13 | 0.33 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 13 | 0.33 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 13 | 0.33 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 13 | 0.33 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 13 | 0.33 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 13 | 0.33 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 13 | 0.33 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 13 | 0.33 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 13 | 0.33 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 8 | 0.33 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 12 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 10 | 0.33 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 1 | 0.33 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 1 | 0.33 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 1 | 0.33 |
| (1,1583) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 14 | 0.33 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 9 | 0.33 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 9 | 0.33 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 1 | 0.33 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 13 | 0.33 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 8 | 0.33 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 2 | 0.33 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 6 | 0.33 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 4 | 0.33 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 20 | 0.33 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 20 | 0.33 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 6 | 0.33 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 3 | 0.33 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 3 | 0.33 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 3 | 0.33 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 1 | 0.33 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 11 | 0.33 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 11 | 0.33 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 11 | 0.33 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 6 | 0.33 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 1 | 0.33 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 1 | 0.33 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 15 | 0.33 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 15 | 0.33 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 16 | 0.33 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 16 | 0.33 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 16 | 0.33 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 1 | 0.33 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 1 | 0.33 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 19 | 0.33 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 4 | 0.33 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 11 | 0.33 |
| (1,1085) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 19 | 0.33 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 15 | 0.33 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 3 | 0.33 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 10 | 0.33 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 11 | 0.33 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 19 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 5 | 0.33 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 5 | 0.33 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 5 | 0.33 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 6 | 0.33 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 6 | 0.33 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 6 | 0.33 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 10 | 0.33 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 10 | 0.33 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 10 | 0.33 |
| (1,895) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 14 | 0.33 |
| (1,881) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 1 | 0.33 |
| (1,881) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 6 | 0.33 |
| (1,881) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 8 | 0.33 |
| (1,881) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 15 | 0.33 |
| (1,881) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 17 | 0.33 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 17 | 0.33 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 11 | 0.33 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 11 | 0.33 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 9 | 0.33 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 19 | 0.33 |
| (1,789) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 19 | 0.33 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 16 | 0.33 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 16 | 0.33 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 16 | 0.33 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 4 | 0.33 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 4 | 0.33 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 4 | 0.33 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 15 | 0.33 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 15 | 0.33 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 15 | 0.33 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 15 | 0.33 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 15 | 0.33 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 15 | 0.33 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 15 | 0.33 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 15 | 0.33 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 15 | 0.33 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 3 | 0.33 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 9 | 0.33 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 9 | 0.33 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 9 | 0.33 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 16 | 0.33 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 16 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 16 | 0.33 |
| (1,599) | 1:94:A:GLN:H | 1:95:A:LYS:H | 5 | 0.33 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 11 | 0.33 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 15 | 0.33 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 15 | 0.33 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 15 | 0.33 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 17 | 0.33 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 17 | 0.33 |
| (1,553) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 17 | 0.33 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 6 | 0.33 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 6 | 0.33 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 6 | 0.33 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 8 | 0.33 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD11 | 1 | 0.33 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD12 | 1 | 0.33 |
| (1,533) | 1:93:A:ILE:H | 1:93:A:ILE:HD13 | 1 | 0.33 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 4 | 0.33 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 20 | 0.33 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 8 | 0.33 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 10 | 0.33 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 15 | 0.33 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 6 | 0.33 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 6 | 0.33 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 6 | 0.33 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 10 | 0.33 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 10 | 0.33 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 10 | 0.33 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 14 | 0.33 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 14 | 0.33 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 14 | 0.33 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 17 | 0.33 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 17 | 0.33 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 17 | 0.33 |
| (1,469) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 1 | 0.33 |
| (1,469) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 1 | 0.33 |
| (1,469) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 1 | 0.33 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 13 | 0.33 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 2 | 0.33 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 20 | 0.33 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 6 | 0.33 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 18 | 0.33 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 19 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 12 | 0.33 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 12 | 0.33 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 12 | 0.33 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 5 | 0.33 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 7 | 0.33 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 18 | 0.33 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 2 | 0.33 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 2 | 0.33 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 2 | 0.33 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 17 | 0.33 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 17 | 0.33 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 17 | 0.33 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 6 | 0.33 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 6 | 0.33 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 6 | 0.33 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 5 | 0.33 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 5 | 0.33 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 5 | 0.33 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 7 | 0.33 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 8 | 0.33 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 9 | 0.33 |
| (1,262) | 1:77:A:LYS:HA | 1:78:A:ILE:H | 10 | 0.33 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 11 | 0.33 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 0.33 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 20 | 0.33 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 8 | 0.33 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 9 | 0.33 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 6 | 0.33 |
| (1,213) | 1:73:A:TRP:H | 1:74:A:ARG:H | 3 | 0.33 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 18 | 0.33 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 17 | 0.33 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 1 | 0.33 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 17 | 0.33 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 9 | 0.33 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 19 | 0.33 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 11 | 0.33 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 11 | 0.33 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 20 | 0.33 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 6 | 0.33 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 6 | 0.33 |
| (1,147) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 6 | 0.33 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 6 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 6 | 0.33 |
| (1,147) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 6 | 0.33 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 6 | 0.33 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 6 | 0.33 |
| (1,147) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 6 | 0.33 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD11 | 17 | 0.33 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD12 | 17 | 0.33 |
| (1,114) | 1:60:A:LEU:HD11 | 1:96:A:ILE:HD13 | 17 | 0.33 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD11 | 17 | 0.33 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD12 | 17 | 0.33 |
| (1,114) | 1:60:A:LEU:HD12 | 1:96:A:ILE:HD13 | 17 | 0.33 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD11 | 17 | 0.33 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD12 | 17 | 0.33 |
| (1,114) | 1:60:A:LEU:HD13 | 1:96:A:ILE:HD13 | 17 | 0.33 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 3 | 0.33 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 3 | 0.33 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 3 | 0.33 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 3 | 0.33 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 3 | 0.33 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 3 | 0.33 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 1 | 0.33 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 10 | 0.33 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 8 | 0.33 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 8 | 0.33 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 8 | 0.33 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 8 | 0.33 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 9 | 0.33 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 13 | 0.33 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 20 | 0.33 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD2 | 13 | 0.33 |
| (1,42) | 1:54:A:ARG:H | 1:54:A:ARG:HD3 | 13 | 0.33 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 9 | 0.33 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 9 | 0.33 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 9 | 0.33 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 9 | 0.33 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 9 | 0.33 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 10 | 0.33 |
| (4,93) | 1:15:A:MET:CB | 1:154:A:SER:H | 17 | 0.32 |
| (4,39) | 1:15:A:MET:CB | 1:91:A:GLY:H | 13 | 0.32 |
| (4,9) | 1:15:A:MET:CB | 1:55:A:VAL:H | 3 | 0.32 |
| (3,878) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 6 | 0.32 |
| (3,878) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 6 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,878) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 6 | 0.32 |
| (3,878) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 6 | 0.32 |
| (3,878) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 6 | 0.32 |
| (3,878) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 6 | 0.32 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 9 | 0.32 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 9 | 0.32 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 19 | 0.32 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 19 | 0.32 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 19 | 0.32 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 19 | 0.32 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 2 | 0.32 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 2 | 0.32 |
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 2 | 0.32 |
| (3,407) | 1:61:A:LEU:HD21 | 1:155:A:GLY:HA2 | 3 | 0.32 |
| (3,407) | 1:61:A:LEU:HD22 | 1:155:A:GLY:HA2 | 3 | 0.32 |
| (3,407) | 1:61:A:LEU:HD23 | 1:155:A:GLY:HA2 | 3 | 0.32 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 9 | 0.32 |
| (3,335) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 4 | 0.32 |
| (3,335) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 4 | 0.32 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 6 | 0.32 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 12 | 0.32 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 2 | 0.32 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 2 | 0.32 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 4 | 0.32 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 4 | 0.32 |
| (3,135) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 11 | 0.32 |
| (3,135) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 11 | 0.32 |
| (3,129) | 1:83:A:GLU:HA | 1:87:A:GLU:H | 9 | 0.32 |
| (3,104) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 13 | 0.32 |
| (3,104) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 13 | 0.32 |
| (3,91) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 6 | 0.32 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 9 | 0.32 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 9 | 0.32 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 9 | 0.32 |
| (3,62) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 18 | 0.32 |
| (3,62) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 18 | 0.32 |
| (3,62) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 18 | 0.32 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE1 | 12 | 0.32 |
| (3,36) | 1:89:A:ILE:HD11 | 1:92:A:TYR:HE2 | 12 | 0.32 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE1 | 12 | 0.32 |
| (3,36) | 1:89:A:ILE:HD12 | 1:92:A:TYR:HE2 | 12 | 0.32 |
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE1 | 12 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,36) | 1:89:A:ILE:HD13 | 1:92:A:TYR:HE2 | 12 | 0.32 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 9 | 0.32 |
| (1,9610) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 9 | 0.32 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 16 | 0.32 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 16 | 0.32 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 5 | 0.32 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 5 | 0.32 |
| (1,9505) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 20 | 0.32 |
| (1,9505) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 20 | 0.32 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 13 | 0.32 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 13 | 0.32 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 11 | 0.32 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 11 | 0.32 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 11 | 0.32 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 11 | 0.32 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 11 | 0.32 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 11 | 0.32 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 18 | 0.32 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 18 | 0.32 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 18 | 0.32 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 18 | 0.32 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 18 | 0.32 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 18 | 0.32 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 20 | 0.32 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 20 | 0.32 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 20 | 0.32 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 20 | 0.32 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 17 | 0.32 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 17 | 0.32 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 17 | 0.32 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 17 | 0.32 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 17 | 0.32 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 17 | 0.32 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 11 | 0.32 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 11 | 0.32 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 4 | 0.32 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 4 | 0.32 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 19 | 0.32 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 19 | 0.32 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 20 | 0.32 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 20 | 0.32 |
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 12 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9364) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 12 | 0.32 |
| (1,9336) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 16 | 0.32 |
| (1,9336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 16 | 0.32 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 9 | 0.32 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 9 | 0.32 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 16 | 0.32 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 16 | 0.32 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 2 | 0.32 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 2 | 0.32 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 4 | 0.32 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 4 | 0.32 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 20 | 0.32 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 20 | 0.32 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 13 | 0.32 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 13 | 0.32 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 20 | 0.32 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 20 | 0.32 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 20 | 0.32 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 20 | 0.32 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 20 | 0.32 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 20 | 0.32 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB2 | 8 | 0.32 |
| (1,8940) | 1:72:A:SER:H | 1:75:A:GLN:HB3 | 8 | 0.32 |
| (1,8922) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 11 | 0.32 |
| (1,8922) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 11 | 0.32 |
| (1,8922) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 13 | 0.32 |
| (1,8922) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 13 | 0.32 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 20 | 0.32 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 20 | 0.32 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 7 | 0.32 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 7 | 0.32 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 7 | 0.32 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 7 | 0.32 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 2 | 0.32 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 2 | 0.32 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 2 | 0.32 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 2 | 0.32 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 2 | 0.32 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 2 | 0.32 |
| (1,8699) | 1:46:A:LYS:HB2 | 1:47:A:ASN:HA | 13 | 0.32 |
| (1,8699) | 1:46:A:LYS:HB3 | 1:47:A:ASN:HA | 13 | 0.32 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 17 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 17 | 0.32 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 17 | 0.32 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 17 | 0.32 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 10 | 0.32 |
| (1,8669) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 10 | 0.32 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 1 | 0.32 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 1 | 0.32 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 14 | 0.32 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 14 | 0.32 |
| (1,8469) | 1:150:A:VAL:HG21 | 1:152:A:THR:H | 15 | 0.32 |
| (1,8469) | 1:150:A:VAL:HG22 | 1:152:A:THR:H | 15 | 0.32 |
| (1,8469) | 1:150:A:VAL:HG23 | 1:152:A:THR:H | 15 | 0.32 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 19 | 0.32 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 3 | 0.32 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 3 | 0.32 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 7 | 0.32 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 7 | 0.32 |
| (1,8150) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 16 | 0.32 |
| (1,8150) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 16 | 0.32 |
| (1,8150) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 16 | 0.32 |
| (1,8150) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 16 | 0.32 |
| (1,8150) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 16 | 0.32 |
| (1,8150) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 16 | 0.32 |
| (1,8150) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 16 | 0.32 |
| (1,8150) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 16 | 0.32 |
| (1,8150) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 16 | 0.32 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 14 | 0.32 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 19 | 0.32 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 11 | 0.32 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 16 | 0.32 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 4 | 0.32 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 4 | 0.32 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 18 | 0.32 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 18 | 0.32 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 15 | 0.32 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 13 | 0.32 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 20 | 0.32 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 13 | 0.32 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 15 | 0.32 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 15 | 0.32 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 20 | 0.32 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 20 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 17 | 0.32 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 11 | 0.32 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 14 | 0.32 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 19 | 0.32 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 19 | 0.32 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 17 | 0.32 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 20 | 0.32 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 6 | 0.32 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 5 | 0.32 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 5 | 0.32 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 5 | 0.32 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 18 | 0.32 |
| (1,6805) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 1 | 0.32 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 5 | 0.32 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 1 | 0.32 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 11 | 0.32 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 9 | 0.32 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 4 | 0.32 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 8 | 0.32 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 19 | 0.32 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 10 | 0.32 |
| (1,6658) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 15 | 0.32 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 10 | 0.32 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 11 | 0.32 |
| (1,6558) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 1 | 0.32 |
| (1,6558) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 1 | 0.32 |
| (1,6558) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 1 | 0.32 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 2 | 0.32 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 2 | 0.32 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 2 | 0.32 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 12 | 0.32 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 12 | 0.32 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 12 | 0.32 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 11 | 0.32 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 18 | 0.32 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 18 | 0.32 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 18 | 0.32 |
| (1,6338) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 5 | 0.32 |
| (1,6338) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 5 | 0.32 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 4 | 0.32 |
| (1,6240) | 1:146:A:MET:HA | 1:161:A:ARG:H | 15 | 0.32 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 2 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 17 | 0.32 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 15 | 0.32 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 5 | 0.32 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 11 | 0.32 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 11 | 0.32 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 11 | 0.32 |
| (1,6122) | 1:139:A:PHE:H | 1:140:A:ALA:H | 13 | 0.32 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 7 | 0.32 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 7 | 0.32 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 17 | 0.32 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 12 | 0.32 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 12 | 0.32 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 12 | 0.32 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 1 | 0.32 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 1 | 0.32 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 16 | 0.32 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 18 | 0.32 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 14 | 0.32 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 5 | 0.32 |
| (1,5690) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 12 | 0.32 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 7 | 0.32 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 15 | 0.32 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 13 | 0.32 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 13 | 0.32 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 13 | 0.32 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 13 | 0.32 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 13 | 0.32 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 13 | 0.32 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 13 | 0.32 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 13 | 0.32 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 13 | 0.32 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 13 | 0.32 |
| (1,5535) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 4 | 0.32 |
| (1,5535) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 4 | 0.32 |
| (1,5535) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 4 | 0.32 |
| (1,5516) | 1:96:A:ILE:HA | 1:98:A:SER:H | 18 | 0.32 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 2 | 0.32 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 2 | 0.32 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 2 | 0.32 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 8 | 0.32 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 8 | 0.32 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 8 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 6 | 0.32 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 10 | 0.32 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 10 | 0.32 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 10 | 0.32 |
| (1,5473) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 10 | 0.32 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 4 | 0.32 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 2 | 0.32 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 12 | 0.32 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 12 | 0.32 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 12 | 0.32 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 13 | 0.32 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 1 | 0.32 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 1 | 0.32 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 1 | 0.32 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 15 | 0.32 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 7 | 0.32 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 12 | 0.32 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 14 | 0.32 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 18 | 0.32 |
| (1,5101) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 19 | 0.32 |
| (1,5101) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 19 | 0.32 |
| (1,5101) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 19 | 0.32 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 18 | 0.32 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 2 | 0.32 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 2 | 0.32 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 2 | 0.32 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 9 | 0.32 |
| (1,5066) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 16 | 0.32 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 5 | 0.32 |
| (1,5037) | 1:76:A:GLU:H | 1:77:A:LYS:H | 6 | 0.32 |
| (1,5008) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 3 | 0.32 |
| (1,4992) | 1:73:A:TRP:H | 1:74:A:ARG:H | 8 | 0.32 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 4 | 0.32 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 4 | 0.32 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 19 | 0.32 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 10 | 0.32 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 10 | 0.32 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 10 | 0.32 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 13 | 0.32 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 13 | 0.32 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 13 | 0.32 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 13 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 13 | 0.32 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 13 | 0.32 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 13 | 0.32 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 13 | 0.32 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 13 | 0.32 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 11 | 0.32 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 7 | 0.32 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 16 | 0.32 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 13 | 0.32 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 6 | 0.32 |
| (1,4751) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 18 | 0.32 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 15 | 0.32 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 19 | 0.32 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 17 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 5 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 5 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 6 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 6 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 10 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 10 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 11 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 11 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 19 | 0.32 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 19 | 0.32 |
| (1,4441) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 12 | 0.32 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 2 | 0.32 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 2 | 0.32 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 8 | 0.32 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 8 | 0.32 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 15 | 0.32 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 15 | 0.32 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 2 | 0.32 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 2 | 0.32 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 14 | 0.32 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 14 | 0.32 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 0.32 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 20 | 0.32 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 8 | 0.32 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 8 | 0.32 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 14 | 0.32 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 14 | 0.32 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 15 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 15 | 0.32 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 19 | 0.32 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 19 | 0.32 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 2 | 0.32 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 2 | 0.32 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 16 | 0.32 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 16 | 0.32 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 5 | 0.32 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 5 | 0.32 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 5 | 0.32 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 10 | 0.32 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 10 | 0.32 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 18 | 0.32 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 18 | 0.32 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 10 | 0.32 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 10 | 0.32 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 7 | 0.32 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 7 | 0.32 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 5 | 0.32 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 9 | 0.32 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 9 | 0.32 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 14 | 0.32 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 14 | 0.32 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 2 | 0.32 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 2 | 0.32 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 2 | 0.32 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 2 | 0.32 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 2 | 0.32 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 2 | 0.32 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 14 | 0.32 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 14 | 0.32 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 9 | 0.32 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 9 | 0.32 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 9 | 0.32 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 9 | 0.32 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 9 | 0.32 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 9 | 0.32 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 9 | 0.32 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 9 | 0.32 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 9 | 0.32 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 10 | 0.32 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 10 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 10 | 0.32 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 4 | 0.32 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 7 | 0.32 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 7 | 0.32 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 7 | 0.32 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 17 | 0.32 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 3 | 0.32 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 16 | 0.32 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 14 | 0.32 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 7 | 0.32 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 7 | 0.32 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 16 | 0.32 |
| (1,3183) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 16 | 0.32 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 8 | 0.32 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 14 | 0.32 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 3 | 0.32 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 3 | 0.32 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 6 | 0.32 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 6 | 0.32 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 15 | 0.32 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 15 | 0.32 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 10 | 0.32 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 2 | 0.32 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 2 | 0.32 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 2 | 0.32 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 4 | 0.32 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 4 | 0.32 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 6 | 0.32 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 6 | 0.32 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 6 | 0.32 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 5 | 0.32 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 5 | 0.32 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 17 | 0.32 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 2 | 0.32 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 20 | 0.32 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 6 | 0.32 |
| (1,2957) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 9 | 0.32 |
| (1,2851) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 14 | 0.32 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 9 | 0.32 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 9 | 0.32 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 9 | 0.32 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 17 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 4 | 0.32 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 18 | 0.32 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 10 | 0.32 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 10 | 0.32 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 10 | 0.32 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 10 | 0.32 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 10 | 0.32 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 10 | 0.32 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 5 | 0.32 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 5 | 0.32 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 5 | 0.32 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 4 | 0.32 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 8 | 0.32 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 5 | 0.32 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 1 | 0.32 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 7 | 0.32 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 10 | 0.32 |
| (1,2543) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 15 | 0.32 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 8 | 0.32 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 8 | 0.32 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 8 | 0.32 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 17 | 0.32 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 17 | 0.32 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 17 | 0.32 |
| (1,2449) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 3 | 0.32 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 8 | 0.32 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 8 | 0.32 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 8 | 0.32 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 12 | 0.32 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 12 | 0.32 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 12 | 0.32 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 13 | 0.32 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 13 | 0.32 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 13 | 0.32 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 18 | 0.32 |
| (1,2387) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 20 | 0.32 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 11 | 0.32 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 11 | 0.32 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 11 | 0.32 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 15 | 0.32 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 15 | 0.32 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 15 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 10 | 0.32 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 11 | 0.32 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 13 | 0.32 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 18 | 0.32 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 20 | 0.32 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 5 | 0.32 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 6 | 0.32 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 10 | 0.32 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 18 | 0.32 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 1 | 0.32 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 5 | 0.32 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 15 | 0.32 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 15 | 0.32 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 15 | 0.32 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 1 | 0.32 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 1 | 0.32 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 1 | 0.32 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 1 | 0.32 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 16 | 0.32 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 19 | 0.32 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 1 | 0.32 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 1 | 0.32 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 4 | 0.32 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 9 | 0.32 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 9 | 0.32 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 9 | 0.32 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 4 | 0.32 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 4 | 0.32 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 4 | 0.32 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 4 | 0.32 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 4 | 0.32 |
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 14 | 0.32 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 2 | 0.32 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 3 | 0.32 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 14 | 0.32 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 14 | 0.32 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 14 | 0.32 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 3 | 0.32 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 3 | 0.32 |
| (1,1755) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 3 | 0.32 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 6 | 0.32 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 6 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 6 | 0.32 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 17 | 0.32 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 17 | 0.32 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 17 | 0.32 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 19 | 0.32 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 19 | 0.32 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 19 | 0.32 |
| (1,1725) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 4 | 0.32 |
| (1,1709) | 1:139:A:PHE:H | 1:140:A:ALA:H | 13 | 0.32 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 13 | 0.32 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 6 | 0.32 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 6 | 0.32 |
| (1,1657) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 6 | 0.32 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 17 | 0.32 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 12 | 0.32 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 19 | 0.32 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 6 | 0.32 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 12 | 0.32 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 19 | 0.32 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 17 | 0.32 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 10 | 0.32 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 7 | 0.32 |
| (1,1375) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 19 | 0.32 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 3 | 0.32 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 20 | 0.32 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 7 | 0.32 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 13 | 0.32 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 13 | 0.32 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 4 | 0.32 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 4 | 0.32 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 4 | 0.32 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 8 | 0.32 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 8 | 0.32 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 8 | 0.32 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 7 | 0.32 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 11 | 0.32 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 11 | 0.32 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 11 | 0.32 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 4 | 0.32 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 4 | 0.32 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 9 | 0.32 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 9 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 20 | 0.32 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 20 | 0.32 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 20 | 0.32 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 18 | 0.32 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 9 | 0.32 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 13 | 0.32 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 10 | 0.32 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 6 | 0.32 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 5 | 0.32 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 2 | 0.32 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 15 | 0.32 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 3 | 0.32 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 3 | 0.32 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 3 | 0.32 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 13 | 0.32 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 14 | 0.32 |
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 18 | 0.32 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 9 | 0.32 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 16 | 0.32 |
| (1,927) | 1:105:A:SER:HB2 | 1:107:A:ALA:H | 20 | 0.32 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 16 | 0.32 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 16 | 0.32 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 16 | 0.32 |
| (1,881) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 3 | 0.32 |
| (1,881) | 1:104:A:GLU:HA | 1:104:A:GLU:HB3 | 12 | 0.32 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 7 | 0.32 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 5 | 0.32 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 5 | 0.32 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 17 | 0.32 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 17 | 0.32 |
| (1,779) | 1:100:A:GLU:HA | 1:101:A:GLU:H | 8 | 0.32 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 7 | 0.32 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 7 | 0.32 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 15 | 0.32 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 15 | 0.32 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 17 | 0.32 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 17 | 0.32 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 8 | 0.32 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 15 | 0.32 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 20 | 0.32 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 13 | 0.32 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 3 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 3 | 0.32 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 3 | 0.32 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 3 | 0.32 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 3 | 0.32 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 3 | 0.32 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 10 | 0.32 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 16 | 0.32 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 14 | 0.32 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 3 | 0.32 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 3 | 0.32 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 3 | 0.32 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 4 | 0.32 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 19 | 0.32 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 19 | 0.32 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 19 | 0.32 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 10 | 0.32 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 6 | 0.32 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 6 | 0.32 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 6 | 0.32 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 5 | 0.32 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 10 | 0.32 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 9 | 0.32 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 14 | 0.32 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 11 | 0.32 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 17 | 0.32 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 2 | 0.32 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 9 | 0.32 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 4 | 0.32 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 4 | 0.32 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 4 | 0.32 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 7 | 0.32 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 7 | 0.32 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 7 | 0.32 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 8 | 0.32 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 8 | 0.32 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 8 | 0.32 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 11 | 0.32 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 11 | 0.32 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 11 | 0.32 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 12 | 0.32 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 12 | 0.32 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 12 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 20 | 0.32 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 20 | 0.32 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 20 | 0.32 |
| (1,472) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 14 | 0.32 |
| (1,472) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 14 | 0.32 |
| (1,472) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 14 | 0.32 |
| (1,468) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 19 | 0.32 |
| (1,468) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 19 | 0.32 |
| (1,468) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 19 | 0.32 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 2 | 0.32 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 6 | 0.32 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 6 | 0.32 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 6 | 0.32 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 8 | 0.32 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 8 | 0.32 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 8 | 0.32 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 1 | 0.32 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 1 | 0.32 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 1 | 0.32 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 4 | 0.32 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 13 | 0.32 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 12 | 0.32 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 6 | 0.32 |
| (1,428) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 6 | 0.32 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 15 | 0.32 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 15 | 0.32 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 15 | 0.32 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 15 | 0.32 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 15 | 0.32 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 15 | 0.32 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 15 | 0.32 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 15 | 0.32 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 15 | 0.32 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 10 | 0.32 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 12 | 0.32 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 8 | 0.32 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 4 | 0.32 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 4 | 0.32 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 4 | 0.32 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 11 | 0.32 |
| (1,348) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HG3 | 12 | 0.32 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 10 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 10 | 0.32 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 14 | 0.32 |
| (1,332) | 1:82:A:LYS:H | 1:82:A:LYS:HA | 2 | 0.32 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 6 | 0.32 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 6 | 0.32 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 6 | 0.32 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 9 | 0.32 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 18 | 0.32 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 17 | 0.32 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 17 | 0.32 |
| (1,319) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 17 | 0.32 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 18 | 0.32 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 17 | 0.32 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 17 | 0.32 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 17 | 0.32 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 3 | 0.32 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 3 | 0.32 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 3 | 0.32 |
| (1,280) | 1:78:A:ILE:HA | 1:80:A:ARG:H | 20 | 0.32 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 9 | 0.32 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 9 | 0.32 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 9 | 0.32 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 5 | 0.32 |
| (1,262) | 1:77:A:LYS:HA | 1:78:A:ILE:H | 16 | 0.32 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 9 | 0.32 |
| (1,213) | 1:73:A:TRP:H | 1:74:A:ARG:H | 8 | 0.32 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 18 | 0.32 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 8 | 0.32 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 8 | 0.32 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 17 | 0.32 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 17 | 0.32 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 1 | 0.32 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 1 | 0.32 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 13 | 0.32 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 13 | 0.32 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 19 | 0.32 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 12 | 0.32 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 1 | 0.32 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 1 | 0.32 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 1 | 0.32 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 11 | 0.32 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 11 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 11 | 0.32 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 15 | 0.32 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 15 | 0.32 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 15 | 0.32 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 11 | 0.32 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 9 | 0.32 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 9 | 0.32 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 9 | 0.32 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 9 | 0.32 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 9 | 0.32 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 9 | 0.32 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 2 | 0.32 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 19 | 0.32 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 7 | 0.32 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 16 | 0.32 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 13 | 0.32 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 6 | 0.32 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 3 | 0.32 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 8 | 0.32 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 20 | 0.32 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 16 | 0.32 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 16 | 0.32 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 17 | 0.32 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 8 | 0.32 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 8 | 0.32 |
| (4,302) | 1:98:A:SER:CB | 1:30:A:ASN:H | 5 | 0.31 |
| (4,242) | 1:15:A:MET:CB | 1:124:A:ALA:H | 10 | 0.31 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 7 | 0.31 |
| (3,939) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG12 | 6 | 0.31 |
| (3,939) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HG13 | 6 | 0.31 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 7 | 0.31 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 7 | 0.31 |
| (3,819) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 18 | 0.31 |
| (3,819) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 18 | 0.31 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 15 | 0.31 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 15 | 0.31 |
| (3,644) | 1:132:A:LYS:HD3 | 1:137:A:ALA:H | 7 | 0.31 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 15 | 0.31 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 15 | 0.31 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 15 | 0.31 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 15 | 0.31 |
| (3,495) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 13 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,495) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 13 | 0.31 |
| (3,495) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 13 | 0.31 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 5 | 0.31 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 5 | 0.31 |
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 5 | 0.31 |
| (3,471) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 12 | 0.31 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB1 | 15 | 0.31 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB2 | 15 | 0.31 |
| (3,456) | 1:73:A:TRP:HH2 | 1:116:A:ALA:HB3 | 15 | 0.31 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 18 | 0.31 |
| (3,369) | 1:59:A:HIS:H | 1:120:A:GLY:H | 4 | 0.31 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 14 | 0.31 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 14 | 0.31 |
| (3,335) | 1:54:A:ARG:HD2 | 1:126:A:SER:H | 14 | 0.31 |
| (3,335) | 1:54:A:ARG:HD3 | 1:126:A:SER:H | 14 | 0.31 |
| (3,206) | 1:8:A:PRO:HB3 | 1:11:A:TRP:HD1 | 10 | 0.31 |
| (3,104) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 18 | 0.31 |
| (3,104) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 18 | 0.31 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 12 | 0.31 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 12 | 0.31 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 12 | 0.31 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 12 | 0.31 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 12 | 0.31 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 12 | 0.31 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 12 | 0.31 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 12 | 0.31 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 12 | 0.31 |
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 12 | 0.31 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 12 | 0.31 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 12 | 0.31 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 1 | 0.31 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 1 | 0.31 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 14 | 0.31 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 14 | 0.31 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 5 | 0.31 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 5 | 0.31 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 5 | 0.31 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 5 | 0.31 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 5 | 0.31 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 5 | 0.31 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE21 | 16 | 0.31 |
| (1,9402) | 1:125:A:PHE:HB2 | 1:129:A:GLN:HE22 | 16 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE21 | 16 | 0.31 |
| (1,9402) | 1:125:A:PHE:HB3 | 1:129:A:GLN:HE22 | 16 | 0.31 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE21 | 18 | 0.31 |
| (1,9313) | 1:105:A:SER:HB2 | 1:109:A:GLN:HE22 | 18 | 0.31 |
| (1,9242) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 12 | 0.31 |
| (1,9242) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 12 | 0.31 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 1 | 0.31 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 1 | 0.31 |
| (1,9033) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HA | 19 | 0.31 |
| (1,9033) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HA | 19 | 0.31 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 13 | 0.31 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 13 | 0.31 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 20 | 0.31 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 20 | 0.31 |
| (1,8829) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 14 | 0.31 |
| (1,8829) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 14 | 0.31 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 1 | 0.31 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 1 | 0.31 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 11 | 0.31 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 11 | 0.31 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 13 | 0.31 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 13 | 0.31 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 13 | 0.31 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 13 | 0.31 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 15 | 0.31 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 15 | 0.31 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 14 | 0.31 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 14 | 0.31 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 6 | 0.31 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 6 | 0.31 |
| (1,8371) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 2 | 0.31 |
| (1,8351) | 1:134:A:PHE:HA | 1:150:A:VAL:HG21 | 4 | 0.31 |
| (1,8351) | 1:134:A:PHE:HA | 1:150:A:VAL:HG22 | 4 | 0.31 |
| (1,8351) | 1:134:A:PHE:HA | 1:150:A:VAL:HG23 | 4 | 0.31 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 15 | 0.31 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 15 | 0.31 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 15 | 0.31 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 19 | 0.31 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 19 | 0.31 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 19 | 0.31 |
| (1,8248) | 1:116:A:ALA:H | 1:119:A:ARG:H | 10 | 0.31 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 2 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 17 | 0.31 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 12 | 0.31 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 7 | 0.31 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 15 | 0.31 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 13 | 0.31 |
| (1,7549) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 13 | 0.31 |
| (1,7450) | 1:11:A:TRP:H | 1:11:A:TRP:HB2 | 14 | 0.31 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 20 | 0.31 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 20 | 0.31 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 20 | 0.31 |
| (1,7314) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 16 | 0.31 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 18 | 0.31 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 18 | 0.31 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 13 | 0.31 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 13 | 0.31 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 13 | 0.31 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 13 | 0.31 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 13 | 0.31 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 13 | 0.31 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 13 | 0.31 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 13 | 0.31 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 13 | 0.31 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 18 | 0.31 |
| (1,7221) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG3 | 2 | 0.31 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 19 | 0.31 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 1 | 0.31 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 1 | 0.31 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 1 | 0.31 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 1 | 0.31 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 7 | 0.31 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 7 | 0.31 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 9 | 0.31 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 9 | 0.31 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 19 | 0.31 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 4 | 0.31 |
| (1,6927) | 1:26:A:ASN:H | 1:32:A:SER:HA | 6 | 0.31 |
| (1,6897) | 1:29:A:THR:H | 1:31:A:ALA:H | 18 | 0.31 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 8 | 0.31 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 2 | 0.31 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 20 | 0.31 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 15 | 0.31 |
| (1,6756) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 4 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 15 | 0.31 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 16 | 0.31 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 18 | 0.31 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 18 | 0.31 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 18 | 0.31 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 14 | 0.31 |
| (1,6728) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 2 | 0.31 |
| (1,6724) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 4 | 0.31 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 1 | 0.31 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 15 | 0.31 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 14 | 0.31 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 3 | 0.31 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 17 | 0.31 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 13 | 0.31 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 18 | 0.31 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 17 | 0.31 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 16 | 0.31 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 2 | 0.31 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 17 | 0.31 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 19 | 0.31 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 10 | 0.31 |
| (1,6532) | 1:7:A:LEU:HD11 | 1:12:A:GLU:H | 1 | 0.31 |
| (1,6532) | 1:7:A:LEU:HD12 | 1:12:A:GLU:H | 1 | 0.31 |
| (1,6532) | 1:7:A:LEU:HD13 | 1:12:A:GLU:H | 1 | 0.31 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 20 | 0.31 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 19 | 0.31 |
| (1,6368) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 1 | 0.31 |
| (1,6368) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 1 | 0.31 |
| (1,6368) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 1 | 0.31 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 19 | 0.31 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 19 | 0.31 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 11 | 0.31 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 13 | 0.31 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 13 | 0.31 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 13 | 0.31 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 19 | 0.31 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 19 | 0.31 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 19 | 0.31 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 4 | 0.31 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 2 | 0.31 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 2 | 0.31 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 2 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6151) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 20 | 0.31 |
| (1,6145) | 1:140:A:ALA:H | 1:141:A:LEU:H | 6 | 0.31 |
| (1,6135) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 16 | 0.31 |
| (1,6135) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 16 | 0.31 |
| (1,6135) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 16 | 0.31 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 18 | 0.31 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 1 | 0.31 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 1 | 0.31 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 3 | 0.31 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 3 | 0.31 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 3 | 0.31 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 3 | 0.31 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 11 | 0.31 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 10 | 0.31 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 10 | 0.31 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 20 | 0.31 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 9 | 0.31 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 5 | 0.31 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 9 | 0.31 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 19 | 0.31 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 3 | 0.31 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 20 | 0.31 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 4 | 0.31 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 0.31 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 8 | 0.31 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 8 | 0.31 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 8 | 0.31 |
| (1,5724) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 4 | 0.31 |
| (1,5724) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 4 | 0.31 |
| (1,5724) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 4 | 0.31 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 10 | 0.31 |
| (1,5694) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 18 | 0.31 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 12 | 0.31 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 10 | 0.31 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 10 | 0.31 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 11 | 0.31 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 11 | 0.31 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 12 | 0.31 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 8 | 0.31 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 4 | 0.31 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 18 | 0.31 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 19 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 14 | 0.31 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 14 | 0.31 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 14 | 0.31 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 14 | 0.31 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 14 | 0.31 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 14 | 0.31 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 14 | 0.31 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 14 | 0.31 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 14 | 0.31 |
| (1,5535) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 9 | 0.31 |
| (1,5535) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 9 | 0.31 |
| (1,5535) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 9 | 0.31 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 4 | 0.31 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 4 | 0.31 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 4 | 0.31 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 20 | 0.31 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 20 | 0.31 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 20 | 0.31 |
| (1,5442) | 1:93:A:ILE:H | 1:94:A:GLN:H | 4 | 0.31 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 15 | 0.31 |
| (1,5364) | 1:89:A:ILE:HA | 1:158:A:ILE:HD11 | 13 | 0.31 |
| (1,5364) | 1:89:A:ILE:HA | 1:158:A:ILE:HD12 | 13 | 0.31 |
| (1,5364) | 1:89:A:ILE:HA | 1:158:A:ILE:HD13 | 13 | 0.31 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 17 | 0.31 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 17 | 0.31 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 17 | 0.31 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 2 | 0.31 |
| (1,5317) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 6 | 0.31 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 1 | 0.31 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 20 | 0.31 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 20 | 0.31 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 20 | 0.31 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 20 | 0.31 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 20 | 0.31 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 20 | 0.31 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 20 | 0.31 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 20 | 0.31 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 20 | 0.31 |
| (1,5235) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 5 | 0.31 |
| (1,5235) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 5 | 0.31 |
| (1,5235) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 5 | 0.31 |
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 9 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5225) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 11 | 0.31 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 17 | 0.31 |
| (1,5176) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 7 | 0.31 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 11 | 0.31 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 4 | 0.31 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 4 | 0.31 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 4 | 0.31 |
| (1,5129) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 16 | 0.31 |
| (1,5129) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 16 | 0.31 |
| (1,5129) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 16 | 0.31 |
| (1,5101) | 1:79:A:THR:HA | 1:79:A:THR:HG21 | 6 | 0.31 |
| (1,5101) | 1:79:A:THR:HA | 1:79:A:THR:HG22 | 6 | 0.31 |
| (1,5101) | 1:79:A:THR:HA | 1:79:A:THR:HG23 | 6 | 0.31 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 11 | 0.31 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 16 | 0.31 |
| (1,5037) | 1:76:A:GLU:H | 1:77:A:LYS:H | 7 | 0.31 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 10 | 0.31 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 10 | 0.31 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 10 | 0.31 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 1 | 0.31 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 10 | 0.31 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 12 | 0.31 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 15 | 0.31 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 13 | 0.31 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 13 | 0.31 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 18 | 0.31 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 18 | 0.31 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 7 | 0.31 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 7 | 0.31 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 7 | 0.31 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 20 | 0.31 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 20 | 0.31 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 20 | 0.31 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 4 | 0.31 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 4 | 0.31 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 4 | 0.31 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 15 | 0.31 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 15 | 0.31 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 15 | 0.31 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 20 | 0.31 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 20 | 0.31 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 20 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 1 | 0.31 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 1 | 0.31 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 1 | 0.31 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 1 | 0.31 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 1 | 0.31 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 1 | 0.31 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 1 | 0.31 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 1 | 0.31 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 1 | 0.31 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 14 | 0.31 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 5 | 0.31 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 5 | 0.31 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 5 | 0.31 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 14 | 0.31 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 1 | 0.31 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 10 | 0.31 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 1 | 0.31 |
| (1,4747) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 10 | 0.31 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 14 | 0.31 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 6 | 0.31 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 16 | 0.31 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 6 | 0.31 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 6 | 0.31 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 6 | 0.31 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 6 | 0.31 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 6 | 0.31 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 11 | 0.31 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 12 | 0.31 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 12 | 0.31 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 13 | 0.31 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 13 | 0.31 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 19 | 0.31 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 19 | 0.31 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 19 | 0.31 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 19 | 0.31 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 19 | 0.31 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 19 | 0.31 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 5 | 0.31 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 5 | 0.31 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 4 | 0.31 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 4 | 0.31 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 9 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 9 | 0.31 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 3 | 0.31 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 3 | 0.31 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 6 | 0.31 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 6 | 0.31 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 12 | 0.31 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 12 | 0.31 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 12 | 0.31 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 12 | 0.31 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 8 | 0.31 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 8 | 0.31 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 8 | 0.31 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 7 | 0.31 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 7 | 0.31 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 16 | 0.31 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 16 | 0.31 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 5 | 0.31 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 5 | 0.31 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 9 | 0.31 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 9 | 0.31 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 13 | 0.31 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 13 | 0.31 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 4 | 0.31 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 4 | 0.31 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 12 | 0.31 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 12 | 0.31 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 3 | 0.31 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 3 | 0.31 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 9 | 0.31 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 9 | 0.31 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 14 | 0.31 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 14 | 0.31 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 14 | 0.31 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 14 | 0.31 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 14 | 0.31 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 14 | 0.31 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 10 | 0.31 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 10 | 0.31 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 14 | 0.31 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 14 | 0.31 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 14 | 0.31 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 6 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3299) | 1:107:A:ALA:HB1 | 1:109:A:GLN:H | 15 | 0.31 |
| (1,3299) | 1:107:A:ALA:HB2 | 1:109:A:GLN:H | 15 | 0.31 |
| (1,3299) | 1:107:A:ALA:HB3 | 1:109:A:GLN:H | 15 | 0.31 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 12 | 0.31 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 2 | 0.31 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 2 | 0.31 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 2 | 0.31 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 2 | 0.31 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 10 | 0.31 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 7 | 0.31 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 11 | 0.31 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 11 | 0.31 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 2 | 0.31 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 18 | 0.31 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 9 | 0.31 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 9 | 0.31 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 14 | 0.31 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 14 | 0.31 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 12 | 0.31 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 19 | 0.31 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 7 | 0.31 |
| (1,3115) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 14 | 0.31 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 11 | 0.31 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 11 | 0.31 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 3 | 0.31 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 3 | 0.31 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 16 | 0.31 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 16 | 0.31 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 7 | 0.31 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 19 | 0.31 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 8 | 0.31 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 4 | 0.31 |
| (1,2925) | 1:30:A:ASN:H | 1:30:A:ASN:HB2 | 14 | 0.31 |
| (1,2897) | 1:29:A:THR:H | 1:31:A:ALA:H | 15 | 0.31 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 14 | 0.31 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 14 | 0.31 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 14 | 0.31 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 6 | 0.31 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 11 | 0.31 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 2 | 0.31 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 2 | 0.31 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 2 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 13 | 0.31 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 13 | 0.31 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 13 | 0.31 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 2 | 0.31 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 2 | 0.31 |
| (1,2655) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 4 | 0.31 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 20 | 0.31 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 20 | 0.31 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 20 | 0.31 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 20 | 0.31 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 1 | 0.31 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 15 | 0.31 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 9 | 0.31 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 10 | 0.31 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 16 | 0.31 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 20 | 0.31 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 20 | 0.31 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 10 | 0.31 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 13 | 0.31 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 18 | 0.31 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 17 | 0.31 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 6 | 0.31 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 6 | 0.31 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 6 | 0.31 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 6 | 0.31 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 8 | 0.31 |
| (1,2457) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 3 | 0.31 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 3 | 0.31 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 3 | 0.31 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 3 | 0.31 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 10 | 0.31 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 2 | 0.31 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 2 | 0.31 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 2 | 0.31 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 1 | 0.31 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 1 | 0.31 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 1 | 0.31 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 7 | 0.31 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 2 | 0.31 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 5 | 0.31 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 12 | 0.31 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 12 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 12 | 0.31 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 12 | 0.31 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 13 | 0.31 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 13 | 0.31 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 13 | 0.31 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 7 | 0.31 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 7 | 0.31 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 7 | 0.31 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 19 | 0.31 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 19 | 0.31 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 19 | 0.31 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 1 | 0.31 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 1 | 0.31 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 1 | 0.31 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 15 | 0.31 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 15 | 0.31 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 15 | 0.31 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 19 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 5 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 5 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 5 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 5 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 5 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 5 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 5 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 5 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 5 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 8 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 8 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 8 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 8 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 8 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 8 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 8 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 8 | 0.31 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 8 | 0.31 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 19 | 0.31 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 19 | 0.31 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 19 | 0.31 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 11 | 0.31 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 18 | 0.31 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 18 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 18 | 0.31 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 11 | 0.31 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 19 | 0.31 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 19 | 0.31 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 19 | 0.31 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 12 | 0.31 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 14 | 0.31 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 14 | 0.31 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 14 | 0.31 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 15 | 0.31 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 9 | 0.31 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 9 | 0.31 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 9 | 0.31 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 9 | 0.31 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 6 | 0.31 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 6 | 0.31 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 6 | 0.31 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 4 | 0.31 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 1 | 0.31 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 1 | 0.31 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 1 | 0.31 |
| (1,1749) | 1:141:A:LEU:H | 1:141:A:LEU:HG | 20 | 0.31 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 10 | 0.31 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 10 | 0.31 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 10 | 0.31 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 18 | 0.31 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 18 | 0.31 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 11 | 0.31 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 18 | 0.31 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 20 | 0.31 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 20 | 0.31 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 20 | 0.31 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 5 | 0.31 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 14 | 0.31 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 15 | 0.31 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 9 | 0.31 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 6 | 0.31 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 6 | 0.31 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 6 | 0.31 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 16 | 0.31 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 7 | 0.31 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 7 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 9 | 0.31 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 18 | 0.31 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 19 | 0.31 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 13 | 0.31 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 13 | 0.31 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 12 | 0.31 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 12 | 0.31 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 15 | 0.31 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 15 | 0.31 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 3 | 0.31 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 20 | 0.31 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 7 | 0.31 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 8 | 0.31 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 13 | 0.31 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 20 | 0.31 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 17 | 0.31 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 8 | 0.31 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 3 | 0.31 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 11 | 0.31 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 2 | 0.31 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 2 | 0.31 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 2 | 0.31 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 10 | 0.31 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 20 | 0.31 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 5 | 0.31 |
| (1,895) | 1:104:A:GLU:HA | 1:104:A:GLU:HB2 | 19 | 0.31 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 14 | 0.31 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 14 | 0.31 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 14 | 0.31 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 14 | 0.31 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 14 | 0.31 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 14 | 0.31 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 18 | 0.31 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 18 | 0.31 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 12 | 0.31 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 6 | 0.31 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 6 | 0.31 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 14 | 0.31 |
| (1,777) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 14 | 0.31 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 12 | 0.31 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 8 | 0.31 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 2 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 4 | 0.31 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 18 | 0.31 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 19 | 0.31 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 19 | 0.31 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 19 | 0.31 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 19 | 0.31 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 19 | 0.31 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 19 | 0.31 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 19 | 0.31 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 19 | 0.31 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 19 | 0.31 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 19 | 0.31 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 16 | 0.31 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 17 | 0.31 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 10 | 0.31 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 10 | 0.31 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 10 | 0.31 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 15 | 0.31 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 15 | 0.31 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 15 | 0.31 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 5 | 0.31 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 2 | 0.31 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 9 | 0.31 |
| (1,535) | 1:93:A:ILE:H | 1:94:A:GLN:H | 4 | 0.31 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 15 | 0.31 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 3 | 0.31 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 5 | 0.31 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 12 | 0.31 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 13 | 0.31 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 15 | 0.31 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 18 | 0.31 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 1 | 0.31 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 1 | 0.31 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 1 | 0.31 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 15 | 0.31 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 15 | 0.31 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 15 | 0.31 |
| (1,472) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 11 | 0.31 |
| (1,472) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 11 | 0.31 |
| (1,472) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 11 | 0.31 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 8 | 0.31 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 8 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 8 | 0.31 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 2 | 0.31 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB2 | 6 | 0.31 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 6 | 0.31 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 1 | 0.31 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 6 | 0.31 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 6 | 0.31 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 6 | 0.31 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 17 | 0.31 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 20 | 0.31 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 20 | 0.31 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 20 | 0.31 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 11 | 0.31 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 16 | 0.31 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 7 | 0.31 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 20 | 0.31 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 18 | 0.31 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 10 | 0.31 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 12 | 0.31 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 2 | 0.31 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 5 | 0.31 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 9 | 0.31 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 9 | 0.31 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 7 | 0.31 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 7 | 0.31 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 7 | 0.31 |
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 14 | 0.31 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 14 | 0.31 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 1 | 0.31 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 10 | 0.31 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 1 | 0.31 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 13 | 0.31 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 13 | 0.31 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 13 | 0.31 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 6 | 0.31 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 16 | 0.31 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 11 | 0.31 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 11 | 0.31 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 11 | 0.31 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 11 | 0.31 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 11 | 0.31 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 11 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,115) | 1:90:A:ASN:CB | 1:15:A:MET:H | 18 | 0.3 |
| (4,114) | 1:90:A:ASN:CB | 1:14:A:ARG:H | 13 | 0.3 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 18 | 0.3 |
| (4,37) | 1:15:A:MET:CB | 1:88:A:LEU:H | 20 | 0.3 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 10 | 0.3 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 10 | 0.3 |
| (3,911) | 1:87:A:GLU:HB2 | 1:90:A:ASN:H | 19 | 0.3 |
| (3,911) | 1:87:A:GLU:HB3 | 1:90:A:ASN:H | 19 | 0.3 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 20 | 0.3 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 20 | 0.3 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 3 | 0.3 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 3 | 0.3 |
| (3,812) | 1:56:A:ARG:HG2 | 1:122:A:LEU:H | 18 | 0.3 |
| (3,812) | 1:56:A:ARG:HG3 | 1:122:A:LEU:H | 18 | 0.3 |
| (3,784) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA2 | 1 | 0.3 |
| (3,784) | 1:15:A:MET:HG2 | 1:20:A:GLY:HA3 | 1 | 0.3 |
| (3,784) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA2 | 1 | 0.3 |
| (3,784) | 1:15:A:MET:HG3 | 1:20:A:GLY:HA3 | 1 | 0.3 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG2 | 14 | 0.3 |
| (3,778) | 1:15:A:MET:H | 1:21:A:ARG:HG3 | 14 | 0.3 |
| (3,721) | 1:148:A:GLY:H | 1:150:A:VAL:HG11 | 2 | 0.3 |
| (3,721) | 1:148:A:GLY:H | 1:150:A:VAL:HG12 | 2 | 0.3 |
| (3,721) | 1:148:A:GLY:H | 1:150:A:VAL:HG13 | 2 | 0.3 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 10 | 0.3 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 10 | 0.3 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 10 | 0.3 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 10 | 0.3 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 10 | 0.3 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 10 | 0.3 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 10 | 0.3 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 10 | 0.3 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 10 | 0.3 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 4 | 0.3 |
| (3,147) | 1:28:A:ILE:HG12 | 1:140:A:ALA:H | 9 | 0.3 |
| (3,137) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 13 | 0.3 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 8 | 0.3 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 8 | 0.3 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD11 | 1 | 0.3 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD12 | 1 | 0.3 |
| (3,22) | 1:60:A:LEU:HD11 | 1:88:A:LEU:HD13 | 1 | 0.3 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD11 | 1 | 0.3 |
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD12 | 1 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,22) | 1:60:A:LEU:HD12 | 1:88:A:LEU:HD13 | 1 | 0.3 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD11 | 1 | 0.3 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD12 | 1 | 0.3 |
| (3,22) | 1:60:A:LEU:HD13 | 1:88:A:LEU:HD13 | 1 | 0.3 |
| (3,9) | 1:60:A:LEU:HD11 | 1:106:A:LEU:H | 8 | 0.3 |
| (3,9) | 1:60:A:LEU:HD12 | 1:106:A:LEU:H | 8 | 0.3 |
| (3,9) | 1:60:A:LEU:HD13 | 1:106:A:LEU:H | 8 | 0.3 |
| (3,3) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 8 | 0.3 |
| (3,3) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 8 | 0.3 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 13 | 0.3 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 13 | 0.3 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 8 | 0.3 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 8 | 0.3 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 5 | 0.3 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 5 | 0.3 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 8 | 0.3 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 8 | 0.3 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 20 | 0.3 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 20 | 0.3 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 20 | 0.3 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 20 | 0.3 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 1 | 0.3 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 1 | 0.3 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 1 | 0.3 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 1 | 0.3 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 5 | 0.3 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 5 | 0.3 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 5 | 0.3 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 5 | 0.3 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 5 | 0.3 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 5 | 0.3 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB2 | 1 | 0.3 |
| (1,8800) | 1:57:A:CYS:H | 1:122:A:LEU:HB3 | 1 | 0.3 |
| (1,8786) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 18 | 0.3 |
| (1,8786) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 18 | 0.3 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 8 | 0.3 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 8 | 0.3 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 8 | 0.3 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 8 | 0.3 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 17 | 0.3 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 17 | 0.3 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 15 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 15 | 0.3 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 17 | 0.3 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 17 | 0.3 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 14 | 0.3 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 14 | 0.3 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 17 | 0.3 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 17 | 0.3 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 3 | 0.3 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 3 | 0.3 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 3 | 0.3 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 3 | 0.3 |
| (1,8612) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 12 | 0.3 |
| (1,8612) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 12 | 0.3 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 4 | 0.3 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 4 | 0.3 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 2 | 0.3 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 2 | 0.3 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 2 | 0.3 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 2 | 0.3 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 2 | 0.3 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 2 | 0.3 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 16 | 0.3 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 16 | 0.3 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 16 | 0.3 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 16 | 0.3 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 16 | 0.3 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 16 | 0.3 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 20 | 0.3 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 15 | 0.3 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 20 | 0.3 |
| (1,7863) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 20 | 0.3 |
| (1,7863) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 20 | 0.3 |
| (1,7863) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 20 | 0.3 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 9 | 0.3 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 9 | 0.3 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 2 | 0.3 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 19 | 0.3 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 5 | 0.3 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 14 | 0.3 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 14 | 0.3 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 14 | 0.3 |
| (1,7273) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 10 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 10 | 0.3 |
| (1,7073) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 8 | 0.3 |
| (1,7073) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 8 | 0.3 |
| (1,7073) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 14 | 0.3 |
| (1,7073) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 14 | 0.3 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 5 | 0.3 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 9 | 0.3 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 9 | 0.3 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 20 | 0.3 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 20 | 0.3 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 14 | 0.3 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 4 | 0.3 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 19 | 0.3 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 19 | 0.3 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 6 | 0.3 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 13 | 0.3 |
| (1,6756) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 19 | 0.3 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 2 | 0.3 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 6 | 0.3 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 17 | 0.3 |
| (1,6736) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 4 | 0.3 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 5 | 0.3 |
| (1,6724) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 7 | 0.3 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 4 | 0.3 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 2 | 0.3 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 14 | 0.3 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 18 | 0.3 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 9 | 0.3 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 8 | 0.3 |
| (1,6600) | 1:11:A:TRP:HZ3 | 1:25:A:PHE:H | 9 | 0.3 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 9 | 0.3 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 18 | 0.3 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 1 | 0.3 |
| (1,6362) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 7 | 0.3 |
| (1,6362) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 7 | 0.3 |
| (1,6362) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 7 | 0.3 |
| (1,6362) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 7 | 0.3 |
| (1,6362) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 7 | 0.3 |
| (1,6362) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 7 | 0.3 |
| (1,6362) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 7 | 0.3 |
| (1,6362) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 7 | 0.3 |
| (1,6362) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 7 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 16 | 0.3 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 7 | 0.3 |
| (1,6287) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 13 | 0.3 |
| (1,6287) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 13 | 0.3 |
| (1,6287) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 13 | 0.3 |
| (1,6276) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 10 | 0.3 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 2 | 0.3 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 5 | 0.3 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 4 | 0.3 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 12 | 0.3 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 12 | 0.3 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 4 | 0.3 |
| (1,6116) | 1:55:A:VAL:HG21 | 1:138:A:SER:HA | 16 | 0.3 |
| (1,6116) | 1:55:A:VAL:HG22 | 1:138:A:SER:HA | 16 | 0.3 |
| (1,6116) | 1:55:A:VAL:HG23 | 1:138:A:SER:HA | 16 | 0.3 |
| (1,6105) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 9 | 0.3 |
| (1,6077) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 11 | 0.3 |
| (1,6077) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 11 | 0.3 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 7 | 0.3 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG21 | 19 | 0.3 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG22 | 19 | 0.3 |
| (1,6044) | 1:134:A:PHE:H | 1:152:A:THR:HG23 | 19 | 0.3 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 7 | 0.3 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 7 | 0.3 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 7 | 0.3 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 7 | 0.3 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 7 | 0.3 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 7 | 0.3 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 9 | 0.3 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 12 | 0.3 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 18 | 0.3 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 7 | 0.3 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 7 | 0.3 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 19 | 0.3 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 19 | 0.3 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 6 | 0.3 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 15 | 0.3 |
| (1,5877) | 1:59:A:HIS:H | 1:122:A:LEU:HG | 3 | 0.3 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 19 | 0.3 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 8 | 0.3 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 10 | 0.3 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 12 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 20 | 0.3 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 20 | 0.3 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 20 | 0.3 |
| (1,5726) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 15 | 0.3 |
| (1,5726) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 15 | 0.3 |
| (1,5726) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 15 | 0.3 |
| (1,5659) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 11 | 0.3 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 4 | 0.3 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 9 | 0.3 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 8 | 0.3 |
| (1,5564) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 18 | 0.3 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 1 | 0.3 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 1 | 0.3 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 1 | 0.3 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 19 | 0.3 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 19 | 0.3 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 19 | 0.3 |
| (1,5531) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 13 | 0.3 |
| (1,5531) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 13 | 0.3 |
| (1,5531) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 13 | 0.3 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 19 | 0.3 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 19 | 0.3 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 6 | 0.3 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD11 | 13 | 0.3 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD12 | 13 | 0.3 |
| (1,5388) | 1:60:A:LEU:HD11 | 1:89:A:ILE:HD13 | 13 | 0.3 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD11 | 13 | 0.3 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD12 | 13 | 0.3 |
| (1,5388) | 1:60:A:LEU:HD12 | 1:89:A:ILE:HD13 | 13 | 0.3 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD11 | 13 | 0.3 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD12 | 13 | 0.3 |
| (1,5388) | 1:60:A:LEU:HD13 | 1:89:A:ILE:HD13 | 13 | 0.3 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 13 | 0.3 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 13 | 0.3 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 13 | 0.3 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 1 | 0.3 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 8 | 0.3 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 8 | 0.3 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 8 | 0.3 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 20 | 0.3 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 20 | 0.3 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 13 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 19 | 0.3 |
| (1,5157) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 20 | 0.3 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 1 | 0.3 |
| (1,5131) | 1:81:A:THR:H | 1:84:A:GLU:H | 3 | 0.3 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 19 | 0.3 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 4 | 0.3 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 15 | 0.3 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 11 | 0.3 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 4 | 0.3 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 14 | 0.3 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 2 | 0.3 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 12 | 0.3 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 15 | 0.3 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 15 | 0.3 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 15 | 0.3 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 12 | 0.3 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 12 | 0.3 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 12 | 0.3 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 7 | 0.3 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 10 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 19 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 19 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 19 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 19 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 19 | 0.3 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 19 | 0.3 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 5 | 0.3 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 12 | 0.3 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 12 | 0.3 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 13 | 0.3 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 0.3 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 7 | 0.3 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 7 | 0.3 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 16 | 0.3 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 16 | 0.3 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 7 | 0.3 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 7 | 0.3 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 7 | 0.3 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 7 | 0.3 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 16 | 0.3 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 16 | 0.3 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 6 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 6 | 0.3 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 19 | 0.3 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 19 | 0.3 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 7 | 0.3 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 7 | 0.3 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 13 | 0.3 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 13 | 0.3 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 17 | 0.3 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 17 | 0.3 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 2 | 0.3 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 2 | 0.3 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 13 | 0.3 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 13 | 0.3 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 20 | 0.3 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 20 | 0.3 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 9 | 0.3 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 9 | 0.3 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 15 | 0.3 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 15 | 0.3 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 19 | 0.3 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 19 | 0.3 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 18 | 0.3 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 18 | 0.3 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 5 | 0.3 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 5 | 0.3 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 4 | 0.3 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 4 | 0.3 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 7 | 0.3 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 7 | 0.3 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 8 | 0.3 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 8 | 0.3 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 19 | 0.3 |
| (1,3725) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 19 | 0.3 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 19 | 0.3 |
| (1,3725) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 19 | 0.3 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 19 | 0.3 |
| (1,3725) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 19 | 0.3 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 16 | 0.3 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 16 | 0.3 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 17 | 0.3 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 17 | 0.3 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 8 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 8 | 0.3 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 2 | 0.3 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 2 | 0.3 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 2 | 0.3 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 2 | 0.3 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 2 | 0.3 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 2 | 0.3 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 2 | 0.3 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 2 | 0.3 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 2 | 0.3 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 18 | 0.3 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 1 | 0.3 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 5 | 0.3 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 5 | 0.3 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 5 | 0.3 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 1 | 0.3 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 17 | 0.3 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 11 | 0.3 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 8 | 0.3 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 8 | 0.3 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 8 | 0.3 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 16 | 0.3 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 16 | 0.3 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 6 | 0.3 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 1 | 0.3 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 1 | 0.3 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 4 | 0.3 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 4 | 0.3 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 12 | 0.3 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 12 | 0.3 |
| (1,3111) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 12 | 0.3 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 5 | 0.3 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 5 | 0.3 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 2 | 0.3 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 2 | 0.3 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 2 | 0.3 |
| (1,2995) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 19 | 0.3 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 14 | 0.3 |
| (1,2903) | 1:29:A:THR:HA | 1:30:A:ASN:H | 9 | 0.3 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 14 | 0.3 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 20 | 0.3 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 19 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 13 | 0.3 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 5 | 0.3 |
| (1,2655) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 7 | 0.3 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 10 | 0.3 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 13 | 0.3 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 14 | 0.3 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 14 | 0.3 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 18 | 0.3 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 13 | 0.3 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 13 | 0.3 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 13 | 0.3 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 15 | 0.3 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 15 | 0.3 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 15 | 0.3 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 17 | 0.3 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 17 | 0.3 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 17 | 0.3 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 2 | 0.3 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 2 | 0.3 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 2 | 0.3 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 2 | 0.3 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 4 | 0.3 |
| (1,2483) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 1 | 0.3 |
| (1,2481) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 3 | 0.3 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 18 | 0.3 |
| (1,2375) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 4 | 0.3 |
| (1,2375) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 4 | 0.3 |
| (1,2375) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 4 | 0.3 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 9 | 0.3 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 9 | 0.3 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 9 | 0.3 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 4 | 0.3 |
| (1,2321) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 17 | 0.3 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 1 | 0.3 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 9 | 0.3 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 16 | 0.3 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 7 | 0.3 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 7 | 0.3 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 7 | 0.3 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 7 | 0.3 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 7 | 0.3 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 7 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 7 | 0.3 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 7 | 0.3 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 7 | 0.3 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 14 | 0.3 |
| (1,2207) | 1:144:A:GLY:H | 1:162:A:THR:HA | 18 | 0.3 |
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 7 | 0.3 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 8 | 0.3 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 9 | 0.3 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 1 | 0.3 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 3 | 0.3 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 3 | 0.3 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 3 | 0.3 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 9 | 0.3 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 9 | 0.3 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 9 | 0.3 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 6 | 0.3 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 6 | 0.3 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 6 | 0.3 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 9 | 0.3 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 9 | 0.3 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 9 | 0.3 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 9 | 0.3 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 9 | 0.3 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 9 | 0.3 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 9 | 0.3 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 9 | 0.3 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 9 | 0.3 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 17 | 0.3 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 17 | 0.3 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 17 | 0.3 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 17 | 0.3 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 17 | 0.3 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 17 | 0.3 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 17 | 0.3 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 17 | 0.3 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 17 | 0.3 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 3 | 0.3 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 10 | 0.3 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 14 | 0.3 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 14 | 0.3 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 17 | 0.3 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 17 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 14 | 0.3 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 14 | 0.3 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 19 | 0.3 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 19 | 0.3 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 7 | 0.3 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 7 | 0.3 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 7 | 0.3 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 7 | 0.3 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 12 | 0.3 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 12 | 0.3 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 12 | 0.3 |
| (1,1943) | 1:149:A:PRO:HB2 | 1:150:A:VAL:H | 15 | 0.3 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 2 | 0.3 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 9 | 0.3 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 9 | 0.3 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 9 | 0.3 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD11 | 2 | 0.3 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD12 | 2 | 0.3 |
| (1,1919) | 1:147:A:SER:H | 1:160:A:LEU:HD13 | 2 | 0.3 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 5 | 0.3 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 4 | 0.3 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 13 | 0.3 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 10 | 0.3 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 14 | 0.3 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 12 | 0.3 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 16 | 0.3 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 16 | 0.3 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 16 | 0.3 |
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 12 | 0.3 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 12 | 0.3 |
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 12 | 0.3 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 7 | 0.3 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG21 | 6 | 0.3 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG22 | 6 | 0.3 |
| (1,1611) | 1:134:A:PHE:HB2 | 1:152:A:THR:HG23 | 6 | 0.3 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 9 | 0.3 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 7 | 0.3 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 7 | 0.3 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 7 | 0.3 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 7 | 0.3 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 19 | 0.3 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 19 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 19 | 0.3 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 19 | 0.3 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 7 | 0.3 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 15 | 0.3 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 13 | 0.3 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 13 | 0.3 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 13 | 0.3 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 13 | 0.3 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 13 | 0.3 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 13 | 0.3 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 10 | 0.3 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 10 | 0.3 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 10 | 0.3 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 16 | 0.3 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 10 | 0.3 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 13 | 0.3 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 13 | 0.3 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 13 | 0.3 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 12 | 0.3 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 12 | 0.3 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG2 | 8 | 0.3 |
| (1,1247) | 1:108:A:SER:H | 1:119:A:ARG:HG3 | 8 | 0.3 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 15 | 0.3 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 15 | 0.3 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 17 | 0.3 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 17 | 0.3 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 17 | 0.3 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 19 | 0.3 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 5 | 0.3 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 5 | 0.3 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 5 | 0.3 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 3 | 0.3 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 9 | 0.3 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 8 | 0.3 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 16 | 0.3 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 16 | 0.3 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 2 | 0.3 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 14 | 0.3 |
| (1,1067) | 1:109:A:GLN:H | 1:109:A:GLN:HG2 | 8 | 0.3 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 17 | 0.3 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 17 | 0.3 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 17 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 17 | 0.3 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 4 | 0.3 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 4 | 0.3 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 4 | 0.3 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 4 | 0.3 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 4 | 0.3 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 4 | 0.3 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 15 | 0.3 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 15 | 0.3 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 15 | 0.3 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 15 | 0.3 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 15 | 0.3 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 15 | 0.3 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 10 | 0.3 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 4 | 0.3 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 4 | 0.3 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 4 | 0.3 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 6 | 0.3 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 6 | 0.3 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 6 | 0.3 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 9 | 0.3 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 16 | 0.3 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 16 | 0.3 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 12 | 0.3 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 5 | 0.3 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 15 | 0.3 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 1 | 0.3 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 1 | 0.3 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 2 | 0.3 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 2 | 0.3 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 1 | 0.3 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 1 | 0.3 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 1 | 0.3 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 7 | 0.3 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 7 | 0.3 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 7 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 1 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 1 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 1 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 4 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 4 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 4 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 5 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 5 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 5 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 14 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 14 | 0.3 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 14 | 0.3 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 2 | 0.3 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 2 | 0.3 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 2 | 0.3 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 8 | 0.3 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 8 | 0.3 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 8 | 0.3 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 12 | 0.3 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 12 | 0.3 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 12 | 0.3 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 13 | 0.3 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 13 | 0.3 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 13 | 0.3 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 15 | 0.3 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 15 | 0.3 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 15 | 0.3 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 16 | 0.3 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 16 | 0.3 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 16 | 0.3 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 20 | 0.3 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 20 | 0.3 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 20 | 0.3 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 9 | 0.3 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 9 | 0.3 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 9 | 0.3 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 14 | 0.3 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 14 | 0.3 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 14 | 0.3 |
| (1,543) | 1:93:A:ILE:HA | 1:93:A:ILE:HG13 | 12 | 0.3 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 19 | 0.3 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 14 | 0.3 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 2 | 0.3 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 8 | 0.3 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 16 | 0.3 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 6 | 0.3 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 18 | 0.3 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 18 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 18 | 0.3 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 3 | 0.3 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 3 | 0.3 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 3 | 0.3 |
| (1,469) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 19 | 0.3 |
| (1,469) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 19 | 0.3 |
| (1,469) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 19 | 0.3 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 10 | 0.3 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 10 | 0.3 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 10 | 0.3 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 11 | 0.3 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 11 | 0.3 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 11 | 0.3 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 9 | 0.3 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 19 | 0.3 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 12 | 0.3 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 3 | 0.3 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 3 | 0.3 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 3 | 0.3 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 3 | 0.3 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 3 | 0.3 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 3 | 0.3 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 3 | 0.3 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 3 | 0.3 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 3 | 0.3 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 2 | 0.3 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 4 | 0.3 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 4 | 0.3 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 4 | 0.3 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 5 | 0.3 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 5 | 0.3 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 5 | 0.3 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 16 | 0.3 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 16 | 0.3 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 16 | 0.3 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 9 | 0.3 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 20 | 0.3 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 1 | 0.3 |
| (1,324) | 1:81:A:THR:H | 1:84:A:GLU:H | 3 | 0.3 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 20 | 0.3 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 20 | 0.3 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 20 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 13 | 0.3 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 13 | 0.3 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 13 | 0.3 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 19 | 0.3 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 13 | 0.3 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 13 | 0.3 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 13 | 0.3 |
| (1,273) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 7 | 0.3 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 20 | 0.3 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 4 | 0.3 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 16 | 0.3 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 2 | 0.3 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 2 | 0.3 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 2 | 0.3 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 12 | 0.3 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 5 | 0.3 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 5 | 0.3 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 5 | 0.3 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 5 | 0.3 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 5 | 0.3 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 5 | 0.3 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 5 | 0.3 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 5 | 0.3 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 5 | 0.3 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 9 | 0.3 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 9 | 0.3 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 9 | 0.3 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 9 | 0.3 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 9 | 0.3 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 9 | 0.3 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 9 | 0.3 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 9 | 0.3 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 9 | 0.3 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 8 | 0.3 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 8 | 0.3 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 8 | 0.3 |
| (1,109) | 1:60:A:LEU:H | 1:60:A:LEU:HA | 10 | 0.3 |
| (1,68) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 20 | 0.3 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 7 | 0.3 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 7 | 0.3 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 7 | 0.3 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 7 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 2 | 0.3 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 2 | 0.3 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 2 | 0.3 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 6 | 0.3 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 6 | 0.3 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 5 | 0.3 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 1 | 0.3 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 1 | 0.3 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 8 | 0.3 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 8 | 0.3 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 15 | 0.29 |
| (4,158) | 1:98:A:SER:CB | 1:21:A:ARG:H | 20 | 0.29 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 16 | 0.29 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 2 | 0.29 |
| (4,41) | 1:15:A:MET:CB | 1:94:A:GLN:H | 8 | 0.29 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG2 | 6 | 0.29 |
| (3,994) | 1:125:A:PHE:HE1 | 1:129:A:GLN:HG3 | 6 | 0.29 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG2 | 6 | 0.29 |
| (3,994) | 1:125:A:PHE:HE2 | 1:129:A:GLN:HG3 | 6 | 0.29 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE21 | 4 | 0.29 |
| (3,940) | 1:93:A:ILE:HD11 | 1:94:A:GLN:HE22 | 4 | 0.29 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE21 | 4 | 0.29 |
| (3,940) | 1:93:A:ILE:HD12 | 1:94:A:GLN:HE22 | 4 | 0.29 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE21 | 4 | 0.29 |
| (3,940) | 1:93:A:ILE:HD13 | 1:94:A:GLN:HE22 | 4 | 0.29 |
| (3,865) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 10 | 0.29 |
| (3,865) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 10 | 0.29 |
| (3,865) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 10 | 0.29 |
| (3,865) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 10 | 0.29 |
| (3,865) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 10 | 0.29 |
| (3,865) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 10 | 0.29 |
| (3,852) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 12 | 0.29 |
| (3,852) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 12 | 0.29 |
| (3,766) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HG | 7 | 0.29 |
| (3,766) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HG | 7 | 0.29 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD21 | 10 | 0.29 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD22 | 10 | 0.29 |
| (3,602) | 1:114:A:SER:H | 1:122:A:LEU:HD23 | 10 | 0.29 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 7 | 0.29 |
| (3,490) | 1:86:A:LEU:HB2 | 1:149:A:PRO:HG2 | 15 | 0.29 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD21 | 3 | 0.29 |
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD22 | 3 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,483) | 1:81:A:THR:H | 1:88:A:LEU:HD23 | 3 | 0.29 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 5 | 0.29 |
| (3,386) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 18 | 0.29 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 15 | 0.29 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 8 | 0.29 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 4 | 0.29 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 4 | 0.29 |
| (3,64) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 12 | 0.29 |
| (3,62) | 1:116:A:ALA:H | 1:118:A:ALA:HB1 | 16 | 0.29 |
| (3,62) | 1:116:A:ALA:H | 1:118:A:ALA:HB2 | 16 | 0.29 |
| (3,62) | 1:116:A:ALA:H | 1:118:A:ALA:HB3 | 16 | 0.29 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 1 | 0.29 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 1 | 0.29 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 4 | 0.29 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 4 | 0.29 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD2 | 7 | 0.29 |
| (1,9545) | 1:143:A:THR:HA | 1:161:A:ARG:HD3 | 7 | 0.29 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 9 | 0.29 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 9 | 0.29 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 5 | 0.29 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 5 | 0.29 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 5 | 0.29 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 5 | 0.29 |
| (1,9278) | 1:103:A:PHE:HB2 | 1:104:A:GLU:H | 7 | 0.29 |
| (1,9278) | 1:103:A:PHE:HB3 | 1:104:A:GLU:H | 7 | 0.29 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 6 | 0.29 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 6 | 0.29 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 13 | 0.29 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 13 | 0.29 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 13 | 0.29 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 13 | 0.29 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 11 | 0.29 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 11 | 0.29 |
| (1,8868) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 9 | 0.29 |
| (1,8868) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 9 | 0.29 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB2 | 5 | 0.29 |
| (1,8851) | 1:60:A:LEU:HD21 | 1:106:A:LEU:HB3 | 5 | 0.29 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB2 | 5 | 0.29 |
| (1,8851) | 1:60:A:LEU:HD22 | 1:106:A:LEU:HB3 | 5 | 0.29 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB2 | 5 | 0.29 |
| (1,8851) | 1:60:A:LEU:HD23 | 1:106:A:LEU:HB3 | 5 | 0.29 |
| (1,8837) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 2 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8837) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 2 | 0.29 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 8 | 0.29 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 8 | 0.29 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 8 | 0.29 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 8 | 0.29 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 8 | 0.29 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 8 | 0.29 |
| (1,8746) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 3 | 0.29 |
| (1,8746) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 3 | 0.29 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 3 | 0.29 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 3 | 0.29 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 3 | 0.29 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 3 | 0.29 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 17 | 0.29 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 17 | 0.29 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 13 | 0.29 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 13 | 0.29 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 2 | 0.29 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 2 | 0.29 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 2 | 0.29 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 2 | 0.29 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 2 | 0.29 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 2 | 0.29 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 12 | 0.29 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 12 | 0.29 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 2 | 0.29 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 2 | 0.29 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 19 | 0.29 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 19 | 0.29 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 19 | 0.29 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 19 | 0.29 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 3 | 0.29 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 3 | 0.29 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 6 | 0.29 |
| (1,7740) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 15 | 0.29 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 8 | 0.29 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 5 | 0.29 |
| (1,7302) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 4 | 0.29 |
| (1,7273) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 4 | 0.29 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 5 | 0.29 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 17 | 0.29 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 17 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 12 | 0.29 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 12 | 0.29 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 12 | 0.29 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 13 | 0.29 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 13 | 0.29 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 17 | 0.29 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 17 | 0.29 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 17 | 0.29 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 17 | 0.29 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 17 | 0.29 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 17 | 0.29 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 1 | 0.29 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 14 | 0.29 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 3 | 0.29 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 18 | 0.29 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 14 | 0.29 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 14 | 0.29 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 6 | 0.29 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 6 | 0.29 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 6 | 0.29 |
| (1,7000) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 16 | 0.29 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 10 | 0.29 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 20 | 0.29 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 3 | 0.29 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 18 | 0.29 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 11 | 0.29 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 10 | 0.29 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 10 | 0.29 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 10 | 0.29 |
| (1,6897) | 1:29:A:THR:H | 1:31:A:ALA:H | 16 | 0.29 |
| (1,6853) | 1:27:A:HIS:HA | 1:27:A:HIS:HD2 | 6 | 0.29 |
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 5 | 0.29 |
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 19 | 0.29 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 2 | 0.29 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 3 | 0.29 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 4 | 0.29 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 7 | 0.29 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 8 | 0.29 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 10 | 0.29 |
| (1,6730) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 8 | 0.29 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 11 | 0.29 |
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 1 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6701) | 1:16:A:SER:H | 1:22:A:VAL:H | 4 | 0.29 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 14 | 0.29 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 16 | 0.29 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 4 | 0.29 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 8 | 0.29 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 19 | 0.29 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 17 | 0.29 |
| (1,6473) | 1:1:A:MET:HA | 1:2:A:ALA:H | 19 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 4 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 4 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 4 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 4 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 4 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 4 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 4 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 4 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 4 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 12 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 12 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 12 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 12 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 12 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 12 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 12 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 12 | 0.29 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 12 | 0.29 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 2 | 0.29 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 2 | 0.29 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 2 | 0.29 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 12 | 0.29 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 19 | 0.29 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 18 | 0.29 |
| (1,6202) | 1:144:A:GLY:H | 1:145:A:GLU:H | 18 | 0.29 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 5 | 0.29 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 5 | 0.29 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 5 | 0.29 |
| (1,6145) | 1:140:A:ALA:H | 1:141:A:LEU:H | 12 | 0.29 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 9 | 0.29 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 10 | 0.29 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 19 | 0.29 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 13 | 0.29 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 13 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 13 | 0.29 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 13 | 0.29 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 12 | 0.29 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 1 | 0.29 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 18 | 0.29 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 12 | 0.29 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 9 | 0.29 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 19 | 0.29 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 2 | 0.29 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 1 | 0.29 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 1 | 0.29 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 1 | 0.29 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 12 | 0.29 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 6 | 0.29 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 5 | 0.29 |
| (1,5730) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 15 | 0.29 |
| (1,5730) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 15 | 0.29 |
| (1,5730) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 15 | 0.29 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 14 | 0.29 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 14 | 0.29 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 14 | 0.29 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 19 | 0.29 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 19 | 0.29 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 19 | 0.29 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 15 | 0.29 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 9 | 0.29 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 12 | 0.29 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 20 | 0.29 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 1 | 0.29 |
| (1,5564) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 12 | 0.29 |
| (1,5524) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 11 | 0.29 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 14 | 0.29 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 14 | 0.29 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 14 | 0.29 |
| (1,5442) | 1:93:A:ILE:H | 1:94:A:GLN:H | 7 | 0.29 |
| (1,5442) | 1:93:A:ILE:H | 1:94:A:GLN:H | 19 | 0.29 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 17 | 0.29 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 18 | 0.29 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 5 | 0.29 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 4 | 0.29 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 19 | 0.29 |
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 10 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 10 | 0.29 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 10 | 0.29 |
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 18 | 0.29 |
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 18 | 0.29 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 18 | 0.29 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 7 | 0.29 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 7 | 0.29 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 7 | 0.29 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 11 | 0.29 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 11 | 0.29 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 11 | 0.29 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 19 | 0.29 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 2 | 0.29 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 2 | 0.29 |
| (1,5283) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 2 | 0.29 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 2 | 0.29 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 2 | 0.29 |
| (1,5283) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 2 | 0.29 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 2 | 0.29 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 2 | 0.29 |
| (1,5283) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 2 | 0.29 |
| (1,5277) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD2 | 17 | 0.29 |
| (1,5277) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD2 | 17 | 0.29 |
| (1,5277) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD2 | 17 | 0.29 |
| (1,5273) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 9 | 0.29 |
| (1,5273) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 9 | 0.29 |
| (1,5273) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 9 | 0.29 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 18 | 0.29 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 18 | 0.29 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 18 | 0.29 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 18 | 0.29 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 12 | 0.29 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 8 | 0.29 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 14 | 0.29 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 19 | 0.29 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 8 | 0.29 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 7 | 0.29 |
| (1,5037) | 1:76:A:GLU:H | 1:77:A:LYS:H | 10 | 0.29 |
| (1,5031) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 17 | 0.29 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 8 | 0.29 |
| (1,4975) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 4 | 0.29 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 13 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 12 | 0.29 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 9 | 0.29 |
| (1,4927) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 1 | 0.29 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 13 | 0.29 |
| (1,4887) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 10 | 0.29 |
| (1,4887) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 10 | 0.29 |
| (1,4887) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 10 | 0.29 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 7 | 0.29 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 19 | 0.29 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 3 | 0.29 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 8 | 0.29 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 9 | 0.29 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 17 | 0.29 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 4 | 0.29 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 3 | 0.29 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 15 | 0.29 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 19 | 0.29 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 15 | 0.29 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 15 | 0.29 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 13 | 0.29 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 13 | 0.29 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 7 | 0.29 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 7 | 0.29 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 3 | 0.29 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 3 | 0.29 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 20 | 0.29 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 20 | 0.29 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 20 | 0.29 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 20 | 0.29 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 20 | 0.29 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 20 | 0.29 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 20 | 0.29 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 20 | 0.29 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 20 | 0.29 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 20 | 0.29 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 9 | 0.29 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 9 | 0.29 |
| (1,4395) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 16 | 0.29 |
| (1,4395) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 16 | 0.29 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 17 | 0.29 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 17 | 0.29 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 5 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 5 | 0.29 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 5 | 0.29 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 4 | 0.29 |
| (1,4075) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 4 | 0.29 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 20 | 0.29 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 20 | 0.29 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 12 | 0.29 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 12 | 0.29 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 2 | 0.29 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 2 | 0.29 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 14 | 0.29 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 14 | 0.29 |
| (1,3819) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 16 | 0.29 |
| (1,3819) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 16 | 0.29 |
| (1,3819) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 16 | 0.29 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 14 | 0.29 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 14 | 0.29 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 0.29 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 0.29 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 6 | 0.29 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 0.29 |
| (1,3567) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 6 | 0.29 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 10 | 0.29 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 10 | 0.29 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 9 | 0.29 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 9 | 0.29 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 8 | 0.29 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 8 | 0.29 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 8 | 0.29 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 17 | 0.29 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 7 | 0.29 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 10 | 0.29 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD2 | 9 | 0.29 |
| (1,3267) | 1:97:A:LYS:H | 1:97:A:LYS:HD3 | 9 | 0.29 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 7 | 0.29 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 14 | 0.29 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 10 | 0.29 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 17 | 0.29 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 17 | 0.29 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 6 | 0.29 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 3 | 0.29 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 18 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 17 | 0.29 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 17 | 0.29 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 18 | 0.29 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 18 | 0.29 |
| (1,3043) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 16 | 0.29 |
| (1,3001) | 1:35:A:GLU:H | 1:35:A:GLU:HA | 5 | 0.29 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 6 | 0.29 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 3 | 0.29 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 1 | 0.29 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 20 | 0.29 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 20 | 0.29 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 20 | 0.29 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 11 | 0.29 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 11 | 0.29 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 11 | 0.29 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 11 | 0.29 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 13 | 0.29 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 13 | 0.29 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 13 | 0.29 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 18 | 0.29 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 5 | 0.29 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 19 | 0.29 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 19 | 0.29 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 3 | 0.29 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 2 | 0.29 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 3 | 0.29 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE1 | 15 | 0.29 |
| (1,2753) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HE2 | 15 | 0.29 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE1 | 15 | 0.29 |
| (1,2753) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HE2 | 15 | 0.29 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE1 | 15 | 0.29 |
| (1,2753) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HE2 | 15 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 9 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 9 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 9 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 16 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 16 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 16 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 19 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 19 | 0.29 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 19 | 0.29 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 17 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 14 | 0.29 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 14 | 0.29 |
| (1,2593) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 14 | 0.29 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 2 | 0.29 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 19 | 0.29 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 7 | 0.29 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 7 | 0.29 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 13 | 0.29 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 15 | 0.29 |
| (1,2481) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 15 | 0.29 |
| (1,2439) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 1 | 0.29 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 7 | 0.29 |
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 18 | 0.29 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 4 | 0.29 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 8 | 0.29 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 18 | 0.29 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 18 | 0.29 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 18 | 0.29 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 6 | 0.29 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 14 | 0.29 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 19 | 0.29 |
| (1,2321) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 12 | 0.29 |
| (1,2321) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 15 | 0.29 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 4 | 0.29 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 3 | 0.29 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 17 | 0.29 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 18 | 0.29 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 2 | 0.29 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 4 | 0.29 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 9 | 0.29 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 14 | 0.29 |
| (1,2205) | 1:143:A:THR:HG21 | 1:162:A:THR:HA | 16 | 0.29 |
| (1,2205) | 1:143:A:THR:HG22 | 1:162:A:THR:HA | 16 | 0.29 |
| (1,2205) | 1:143:A:THR:HG23 | 1:162:A:THR:HA | 16 | 0.29 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 17 | 0.29 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 17 | 0.29 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 17 | 0.29 |
| (1,2187) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 1 | 0.29 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 14 | 0.29 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 16 | 0.29 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 16 | 0.29 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 16 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 1 | 0.29 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 1 | 0.29 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 1 | 0.29 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 12 | 0.29 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 1 | 0.29 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 2 | 0.29 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 3 | 0.29 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 3 | 0.29 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 3 | 0.29 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 6 | 0.29 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 6 | 0.29 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 6 | 0.29 |
| (1,2083) | 1:152:A:THR:HG21 | 1:157:A:HIS:HD2 | 3 | 0.29 |
| (1,2083) | 1:152:A:THR:HG22 | 1:157:A:HIS:HD2 | 3 | 0.29 |
| (1,2083) | 1:152:A:THR:HG23 | 1:157:A:HIS:HD2 | 3 | 0.29 |
| (1,2081) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 1 | 0.29 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 16 | 0.29 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 16 | 0.29 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 16 | 0.29 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 13 | 0.29 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 13 | 0.29 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 13 | 0.29 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 13 | 0.29 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 13 | 0.29 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 13 | 0.29 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 13 | 0.29 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 13 | 0.29 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 13 | 0.29 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 4 | 0.29 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 9 | 0.29 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 18 | 0.29 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 4 | 0.29 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 4 | 0.29 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 19 | 0.29 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 2 | 0.29 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 2 | 0.29 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 2 | 0.29 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 11 | 0.29 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 11 | 0.29 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 11 | 0.29 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 8 | 0.29 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 13 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1875) | 1:146:A:MET:HB2 | 1:146:A:MET:HG3 | 7 | 0.29 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 14 | 0.29 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 14 | 0.29 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 14 | 0.29 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 18 | 0.29 |
| (1,1821) | 1:144:A:GLY:H | 1:145:A:GLU:H | 18 | 0.29 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 7 | 0.29 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 7 | 0.29 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 7 | 0.29 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 19 | 0.29 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 19 | 0.29 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 19 | 0.29 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 11 | 0.29 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 11 | 0.29 |
| (1,1751) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 11 | 0.29 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 1 | 0.29 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 1 | 0.29 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 1 | 0.29 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 3 | 0.29 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 3 | 0.29 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 3 | 0.29 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 3 | 0.29 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 3 | 0.29 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 3 | 0.29 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 9 | 0.29 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 14 | 0.29 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 14 | 0.29 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 14 | 0.29 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 16 | 0.29 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 18 | 0.29 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 18 | 0.29 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 18 | 0.29 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 18 | 0.29 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 18 | 0.29 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 18 | 0.29 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 18 | 0.29 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 18 | 0.29 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 18 | 0.29 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 13 | 0.29 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 6 | 0.29 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 6 | 0.29 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 6 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 8 | 0.29 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 8 | 0.29 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 8 | 0.29 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 20 | 0.29 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 20 | 0.29 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 20 | 0.29 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 20 | 0.29 |
| (1,1525) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 10 | 0.29 |
| (1,1525) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 10 | 0.29 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 2 | 0.29 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 2 | 0.29 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 2 | 0.29 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 8 | 0.29 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 8 | 0.29 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 8 | 0.29 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 12 | 0.29 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 12 | 0.29 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 12 | 0.29 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 9 | 0.29 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 8 | 0.29 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 18 | 0.29 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 18 | 0.29 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 13 | 0.29 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 5 | 0.29 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 10 | 0.29 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 1 | 0.29 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 10 | 0.29 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 17 | 0.29 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 17 | 0.29 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 17 | 0.29 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 9 | 0.29 |
| (1,1207) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 6 | 0.29 |
| (1,1207) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 6 | 0.29 |
| (1,1207) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 6 | 0.29 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 19 | 0.29 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 16 | 0.29 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 2 | 0.29 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 2 | 0.29 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 2 | 0.29 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 2 | 0.29 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 6 | 0.29 |
| (1,1103) | 1:111:A:SER:H | 1:111:A:SER:HB2 | 19 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1085) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 18 | 0.29 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 16 | 0.29 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 6 | 0.29 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 13 | 0.29 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 12 | 0.29 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 12 | 0.29 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 12 | 0.29 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 16 | 0.29 |
| (1,1015) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 13 | 0.29 |
| (1,1015) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 13 | 0.29 |
| (1,1015) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 13 | 0.29 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 20 | 0.29 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 11 | 0.29 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 11 | 0.29 |
| (1,981) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 11 | 0.29 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 3 | 0.29 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 10 | 0.29 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 6 | 0.29 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 6 | 0.29 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 6 | 0.29 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 7 | 0.29 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 7 | 0.29 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 7 | 0.29 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 15 | 0.29 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 5 | 0.29 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 13 | 0.29 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 13 | 0.29 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 13 | 0.29 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 15 | 0.29 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 15 | 0.29 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 15 | 0.29 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 20 | 0.29 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 9 | 0.29 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 9 | 0.29 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 1 | 0.29 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 7 | 0.29 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 4 | 0.29 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 7 | 0.29 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 11 | 0.29 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 11 | 0.29 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 11 | 0.29 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 11 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 11 | 0.29 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 11 | 0.29 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 11 | 0.29 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 11 | 0.29 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 11 | 0.29 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 1 | 0.29 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 1 | 0.29 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 1 | 0.29 |
| (1,679) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 11 | 0.29 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 8 | 0.29 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 7 | 0.29 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 7 | 0.29 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 7 | 0.29 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 8 | 0.29 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 8 | 0.29 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 8 | 0.29 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 0.29 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 0.29 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 0.29 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 12 | 0.29 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 12 | 0.29 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 12 | 0.29 |
| (1,621) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 6 | 0.29 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 1 | 0.29 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 1 | 0.29 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 1 | 0.29 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 5 | 0.29 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 5 | 0.29 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 5 | 0.29 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 6 | 0.29 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 6 | 0.29 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 6 | 0.29 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 7 | 0.29 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 7 | 0.29 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 7 | 0.29 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 9 | 0.29 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 9 | 0.29 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 9 | 0.29 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 10 | 0.29 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 10 | 0.29 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 10 | 0.29 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 11 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 11 | 0.29 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 11 | 0.29 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 14 | 0.29 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 14 | 0.29 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 14 | 0.29 |
| (1,571) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG3 | 2 | 0.29 |
| (1,571) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG3 | 2 | 0.29 |
| (1,571) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG3 | 2 | 0.29 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 15 | 0.29 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 15 | 0.29 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 15 | 0.29 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 7 | 0.29 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 7 | 0.29 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 7 | 0.29 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 20 | 0.29 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 20 | 0.29 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 20 | 0.29 |
| (1,535) | 1:93:A:ILE:H | 1:94:A:GLN:H | 7 | 0.29 |
| (1,535) | 1:93:A:ILE:H | 1:94:A:GLN:H | 19 | 0.29 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 17 | 0.29 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 5 | 0.29 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 5 | 0.29 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 5 | 0.29 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 5 | 0.29 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 5 | 0.29 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 5 | 0.29 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 18 | 0.29 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 18 | 0.29 |
| (1,508) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 18 | 0.29 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 1 | 0.29 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 4 | 0.29 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 6 | 0.29 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 7 | 0.29 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 4 | 0.29 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 7 | 0.29 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 12 | 0.29 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 18 | 0.29 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 16 | 0.29 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 4 | 0.29 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 19 | 0.29 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 13 | 0.29 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 13 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 13 | 0.29 |
| (1,481) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG12 | 16 | 0.29 |
| (1,481) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG12 | 16 | 0.29 |
| (1,481) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG12 | 16 | 0.29 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 20 | 0.29 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 20 | 0.29 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 20 | 0.29 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 20 | 0.29 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 20 | 0.29 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 20 | 0.29 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 20 | 0.29 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 20 | 0.29 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 20 | 0.29 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 1 | 0.29 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 1 | 0.29 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 1 | 0.29 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 5 | 0.29 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 5 | 0.29 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 5 | 0.29 |
| (1,469) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 7 | 0.29 |
| (1,469) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 7 | 0.29 |
| (1,469) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 7 | 0.29 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 2 | 0.29 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 2 | 0.29 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 2 | 0.29 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 20 | 0.29 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 20 | 0.29 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 20 | 0.29 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 8 | 0.29 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB2 | 3 | 0.29 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 3 | 0.29 |
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 8 | 0.29 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 5 | 0.29 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 18 | 0.29 |
| (1,355) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HD2 | 12 | 0.29 |
| (1,355) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HD3 | 12 | 0.29 |
| (1,355) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HD2 | 12 | 0.29 |
| (1,355) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HD3 | 12 | 0.29 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 8 | 0.29 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 14 | 0.29 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 19 | 0.29 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 8 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 5 | 0.29 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 5 | 0.29 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 5 | 0.29 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 11 | 0.29 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 11 | 0.29 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 11 | 0.29 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 15 | 0.29 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 15 | 0.29 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 15 | 0.29 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 8 | 0.29 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 2 | 0.29 |
| (1,192) | 1:68:A:ARG:HA | 1:68:A:ARG:HG2 | 1 | 0.29 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 15 | 0.29 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 15 | 0.29 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG2 | 18 | 0.29 |
| (1,178) | 1:66:A:GLN:HB2 | 1:66:A:GLN:HG3 | 18 | 0.29 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 15 | 0.29 |
| (1,176) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 15 | 0.29 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 9 | 0.29 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 13 | 0.29 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 7 | 0.29 |
| (1,111) | 1:60:A:LEU:HA | 1:61:A:LEU:H | 17 | 0.29 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 3 | 0.29 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 8 | 0.29 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 9 | 0.29 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 17 | 0.29 |
| (1,51) | 1:55:A:VAL:HA | 1:55:A:VAL:HG11 | 12 | 0.29 |
| (1,51) | 1:55:A:VAL:HA | 1:55:A:VAL:HG12 | 12 | 0.29 |
| (1,51) | 1:55:A:VAL:HA | 1:55:A:VAL:HG13 | 12 | 0.29 |
| (1,51) | 1:55:A:VAL:HA | 1:55:A:VAL:HG21 | 12 | 0.29 |
| (1,51) | 1:55:A:VAL:HA | 1:55:A:VAL:HG22 | 12 | 0.29 |
| (1,51) | 1:55:A:VAL:HA | 1:55:A:VAL:HG23 | 12 | 0.29 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 5 | 0.29 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 5 | 0.29 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG11 | 8 | 0.29 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG12 | 8 | 0.29 |
| (1,31) | 1:54:A:ARG:H | 1:55:A:VAL:HG13 | 8 | 0.29 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 15 | 0.29 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 19 | 0.29 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 1 | 0.29 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 1 | 0.29 |
| (4,324) | 1:131:A:GLN:CB | 1:31:A:ALA:H | 8 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (4,313) | 1:131:A:GLN:CB | 1:2:A:ALA:H | 11 | 0.28 |
| (4,240) | 1:15:A:MET:CB | 1:119:A:ARG:H | 19 | 0.28 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 8 | 0.28 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 4 | 0.28 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 4 | 0.28 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 1 | 0.28 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 1 | 0.28 |
| (3,851) | 1:66:A:GLN:HE21 | 1:82:A:LYS:H | 12 | 0.28 |
| (3,851) | 1:66:A:GLN:HE22 | 1:82:A:LYS:H | 12 | 0.28 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 3 | 0.28 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 3 | 0.28 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 7 | 0.28 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 7 | 0.28 |
| (3,801) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 8 | 0.28 |
| (3,801) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 8 | 0.28 |
| (3,801) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 16 | 0.28 |
| (3,801) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 16 | 0.28 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 11 | 0.28 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 11 | 0.28 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 2 | 0.28 |
| (3,571) | 1:101:A:GLU:HA | 1:106:A:LEU:HG | 16 | 0.28 |
| (3,257) | 1:23:A:TYR:HB3 | 1:33:A:GLN:H | 13 | 0.28 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 14 | 0.28 |
| (3,104) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 15 | 0.28 |
| (3,104) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 15 | 0.28 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 13 | 0.28 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 13 | 0.28 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 3 | 0.28 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 3 | 0.28 |
| (1,9534) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 16 | 0.28 |
| (1,9534) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 16 | 0.28 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG2 | 12 | 0.28 |
| (1,9530) | 1:141:A:LEU:HD11 | 1:161:A:ARG:HG3 | 12 | 0.28 |
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG2 | 12 | 0.28 |
| (1,9530) | 1:141:A:LEU:HD12 | 1:161:A:ARG:HG3 | 12 | 0.28 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG2 | 12 | 0.28 |
| (1,9530) | 1:141:A:LEU:HD13 | 1:161:A:ARG:HG3 | 12 | 0.28 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 1 | 0.28 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 1 | 0.28 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 1 | 0.28 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 1 | 0.28 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 1 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 1 | 0.28 |
| (1,9505) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 15 | 0.28 |
| (1,9505) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 15 | 0.28 |
| (1,9336) | 1:108:A:SER:HB2 | 1:119:A:ARG:HA | 15 | 0.28 |
| (1,9336) | 1:108:A:SER:HB3 | 1:119:A:ARG:HA | 15 | 0.28 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 1 | 0.28 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 1 | 0.28 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 15 | 0.28 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 15 | 0.28 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 2 | 0.28 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 2 | 0.28 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG12 | 16 | 0.28 |
| (1,9139) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HG13 | 16 | 0.28 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG12 | 16 | 0.28 |
| (1,9139) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HG13 | 16 | 0.28 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG12 | 16 | 0.28 |
| (1,9139) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HG13 | 16 | 0.28 |
| (1,9111) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 12 | 0.28 |
| (1,9111) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 12 | 0.28 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 7 | 0.28 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 7 | 0.28 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 16 | 0.28 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 16 | 0.28 |
| (1,8908) | 1:66:A:GLN:HB2 | 1:81:A:THR:HB | 12 | 0.28 |
| (1,8908) | 1:66:A:GLN:HB3 | 1:81:A:THR:HB | 12 | 0.28 |
| (1,8829) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 12 | 0.28 |
| (1,8829) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 12 | 0.28 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 10 | 0.28 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 10 | 0.28 |
| (1,8707) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 5 | 0.28 |
| (1,8707) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 5 | 0.28 |
| (1,8681) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 2 | 0.28 |
| (1,8681) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 2 | 0.28 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 8 | 0.28 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 8 | 0.28 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 16 | 0.28 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 16 | 0.28 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 14 | 0.28 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 14 | 0.28 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 11 | 0.28 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 11 | 0.28 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 11 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 11 | 0.28 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 14 | 0.28 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 14 | 0.28 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 14 | 0.28 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 14 | 0.28 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 14 | 0.28 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 14 | 0.28 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 12 | 0.28 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 19 | 0.28 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 7 | 0.28 |
| (1,7740) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 14 | 0.28 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 11 | 0.28 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 20 | 0.28 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 20 | 0.28 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 20 | 0.28 |
| (1,7304) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 7 | 0.28 |
| (1,7273) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB3 | 15 | 0.28 |
| (1,7241) | 1:28:A:ILE:H | 1:29:A:THR:HA | 1 | 0.28 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 14 | 0.28 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 20 | 0.28 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 7 | 0.28 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 3 | 0.28 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 11 | 0.28 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 11 | 0.28 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 11 | 0.28 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 17 | 0.28 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 17 | 0.28 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 14 | 0.28 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 14 | 0.28 |
| (1,6965) | 1:23:A:TYR:HB3 | 1:34:A:TRP:HZ3 | 3 | 0.28 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 11 | 0.28 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 15 | 0.28 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 5 | 0.28 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 5 | 0.28 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 5 | 0.28 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 6 | 0.28 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 18 | 0.28 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 15 | 0.28 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 3 | 0.28 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 14 | 0.28 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 3 | 0.28 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 4 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 5 | 0.28 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 12 | 0.28 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 13 | 0.28 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 14 | 0.28 |
| (1,6753) | 1:22:A:VAL:HA | 1:23:A:TYR:H | 20 | 0.28 |
| (1,6734) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 12 | 0.28 |
| (1,6734) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 12 | 0.28 |
| (1,6734) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 12 | 0.28 |
| (1,6730) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 2 | 0.28 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 5 | 0.28 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 9 | 0.28 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 16 | 0.28 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 19 | 0.28 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 6 | 0.28 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 12 | 0.28 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 9 | 0.28 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 15 | 0.28 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 15 | 0.28 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 15 | 0.28 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 15 | 0.28 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 15 | 0.28 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 15 | 0.28 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 15 | 0.28 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 15 | 0.28 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 15 | 0.28 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 4 | 0.28 |
| (1,6412) | 1:147:A:SER:H | 1:159:A:ILE:HB | 20 | 0.28 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 8 | 0.28 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 4 | 0.28 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 7 | 0.28 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 9 | 0.28 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 9 | 0.28 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 9 | 0.28 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 8 | 0.28 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 8 | 0.28 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 8 | 0.28 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 2 | 0.28 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 2 | 0.28 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 2 | 0.28 |
| (1,6297) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 14 | 0.28 |
| (1,6297) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 14 | 0.28 |
| (1,6297) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 14 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6295) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 5 | 0.28 |
| (1,6295) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 5 | 0.28 |
| (1,6295) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 5 | 0.28 |
| (1,6287) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 15 | 0.28 |
| (1,6287) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 15 | 0.28 |
| (1,6287) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 15 | 0.28 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 1 | 0.28 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 1 | 0.28 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 1 | 0.28 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 9 | 0.28 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 14 | 0.28 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 19 | 0.28 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 15 | 0.28 |
| (1,6240) | 1:146:A:MET:HA | 1:161:A:ARG:H | 3 | 0.28 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 14 | 0.28 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 3 | 0.28 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 3 | 0.28 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 3 | 0.28 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 6 | 0.28 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 6 | 0.28 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 6 | 0.28 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 16 | 0.28 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 11 | 0.28 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 1 | 0.28 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 17 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 9 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 9 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 9 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 9 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 9 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 9 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 9 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 9 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 9 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 20 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 20 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 20 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 20 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 20 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 20 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 20 | 0.28 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 20 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 20 | 0.28 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 7 | 0.28 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 9 | 0.28 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 14 | 0.28 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 17 | 0.28 |
| (1,6073) | 1:136:A:ASP:H | 1:137:A:ALA:H | 20 | 0.28 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 7 | 0.28 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 11 | 0.28 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 6 | 0.28 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 6 | 0.28 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 6 | 0.28 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 6 | 0.28 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 6 | 0.28 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 6 | 0.28 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 11 | 0.28 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 11 | 0.28 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 17 | 0.28 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 17 | 0.28 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 12 | 0.28 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 1 | 0.28 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 2 | 0.28 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 8 | 0.28 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 12 | 0.28 |
| (1,5730) | 1:107:A:ALA:HB1 | 1:120:A:GLY:H | 11 | 0.28 |
| (1,5730) | 1:107:A:ALA:HB2 | 1:120:A:GLY:H | 11 | 0.28 |
| (1,5730) | 1:107:A:ALA:HB3 | 1:120:A:GLY:H | 11 | 0.28 |
| (1,5724) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 9 | 0.28 |
| (1,5724) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 9 | 0.28 |
| (1,5724) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 9 | 0.28 |
| (1,5669) | 1:105:A:SER:HA | 1:108:A:SER:H | 12 | 0.28 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 2 | 0.28 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 5 | 0.28 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 7 | 0.28 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 18 | 0.28 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 20 | 0.28 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 13 | 0.28 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 13 | 0.28 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 17 | 0.28 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 5 | 0.28 |
| (1,5507) | 1:96:A:ILE:H | 1:97:A:LYS:H | 13 | 0.28 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 16 | 0.28 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 16 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 16 | 0.28 |
| (1,5490) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 16 | 0.28 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 10 | 0.28 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 9 | 0.28 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 9 | 0.28 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 9 | 0.28 |
| (1,5408) | 1:91:A:GLY:H | 1:93:A:ILE:H | 3 | 0.28 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 8 | 0.28 |
| (1,5394) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 2 | 0.28 |
| (1,5380) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 7 | 0.28 |
| (1,5380) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 7 | 0.28 |
| (1,5380) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 7 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 2 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 2 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 2 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 2 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 2 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 2 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 2 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 2 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 2 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 13 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 13 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 13 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 13 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 13 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 13 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 13 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 13 | 0.28 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 13 | 0.28 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 6 | 0.28 |
| (1,5301) | 1:87:A:GLU:HA | 1:90:A:ASN:H | 15 | 0.28 |
| (1,5293) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 15 | 0.28 |
| (1,5194) | 1:84:A:GLU:HA | 1:87:A:GLU:H | 4 | 0.28 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 20 | 0.28 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 20 | 0.28 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 20 | 0.28 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 20 | 0.28 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 17 | 0.28 |
| (1,5054) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 9 | 0.28 |
| (1,5054) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 18 | 0.28 |
| (1,5054) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 20 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 2 | 0.28 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 5 | 0.28 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 15 | 0.28 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 2 | 0.28 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 9 | 0.28 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 4 | 0.28 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 3 | 0.28 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 4 | 0.28 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 4 | 0.28 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 4 | 0.28 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 4 | 0.28 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 4 | 0.28 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 4 | 0.28 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 4 | 0.28 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 4 | 0.28 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 4 | 0.28 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 14 | 0.28 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 14 | 0.28 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 14 | 0.28 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 14 | 0.28 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 14 | 0.28 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 14 | 0.28 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 14 | 0.28 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 14 | 0.28 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 14 | 0.28 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 8 | 0.28 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 8 | 0.28 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 8 | 0.28 |
| (1,4835) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 4 | 0.28 |
| (1,4835) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 4 | 0.28 |
| (1,4835) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 4 | 0.28 |
| (1,4835) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 4 | 0.28 |
| (1,4835) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 4 | 0.28 |
| (1,4835) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 4 | 0.28 |
| (1,4835) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 4 | 0.28 |
| (1,4835) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 4 | 0.28 |
| (1,4835) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 4 | 0.28 |
| (1,4827) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 18 | 0.28 |
| (1,4827) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 18 | 0.28 |
| (1,4827) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 18 | 0.28 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 9 | 0.28 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 9 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 9 | 0.28 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 9 | 0.28 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 9 | 0.28 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 9 | 0.28 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 9 | 0.28 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 9 | 0.28 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 9 | 0.28 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 7 | 0.28 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 9 | 0.28 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 18 | 0.28 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 15 | 0.28 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 1 | 0.28 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 5 | 0.28 |
| (1,4732) | 1:56:A:ARG:HB2 | 1:57:A:CYS:H | 18 | 0.28 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 20 | 0.28 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 13 | 0.28 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 9 | 0.28 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 9 | 0.28 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 9 | 0.28 |
| (1,4680) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 6 | 0.28 |
| (1,4680) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 6 | 0.28 |
| (1,4680) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 9 | 0.28 |
| (1,4680) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 9 | 0.28 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 10 | 0.28 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 18 | 0.28 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 18 | 0.28 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 3 | 0.28 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 3 | 0.28 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 0.28 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 0.28 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 18 | 0.28 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 18 | 0.28 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 12 | 0.28 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 12 | 0.28 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 19 | 0.28 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 19 | 0.28 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 11 | 0.28 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 11 | 0.28 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 1 | 0.28 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 1 | 0.28 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 2 | 0.28 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 2 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 10 | 0.28 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 10 | 0.28 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 11 | 0.28 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 11 | 0.28 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 7 | 0.28 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 7 | 0.28 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 11 | 0.28 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 11 | 0.28 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 20 | 0.28 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 20 | 0.28 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 5 | 0.28 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 5 | 0.28 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD11 | 17 | 0.28 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD12 | 17 | 0.28 |
| (1,3959) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HD13 | 17 | 0.28 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 17 | 0.28 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 17 | 0.28 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 5 | 0.28 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 5 | 0.28 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 10 | 0.28 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 10 | 0.28 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 16 | 0.28 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 16 | 0.28 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 16 | 0.28 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 16 | 0.28 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 16 | 0.28 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 16 | 0.28 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 14 | 0.28 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 14 | 0.28 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 14 | 0.28 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 14 | 0.28 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 14 | 0.28 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 14 | 0.28 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 11 | 0.28 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 11 | 0.28 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 14 | 0.28 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 14 | 0.28 |
| (1,3785) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 3 | 0.28 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB2 | 3 | 0.28 |
| (1,3783) | 1:58:A:SER:H | 1:160:A:LEU:HB3 | 3 | 0.28 |
| (1,3667) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 7 | 0.28 |
| (1,3667) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 7 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 11 | 0.28 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 11 | 0.28 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 20 | 0.28 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 20 | 0.28 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG21 | 6 | 0.28 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG22 | 6 | 0.28 |
| (1,3565) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG23 | 6 | 0.28 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG21 | 6 | 0.28 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG22 | 6 | 0.28 |
| (1,3565) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG23 | 6 | 0.28 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 5 | 0.28 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 5 | 0.28 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 19 | 0.28 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 3 | 0.28 |
| (1,3327) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 3 | 0.28 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 4 | 0.28 |
| (1,3279) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 4 | 0.28 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 8 | 0.28 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE2 | 1 | 0.28 |
| (1,3269) | 1:97:A:LYS:H | 1:97:A:LYS:HE3 | 1 | 0.28 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 6 | 0.28 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 16 | 0.28 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 12 | 0.28 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 9 | 0.28 |
| (1,3245) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 9 | 0.28 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 9 | 0.28 |
| (1,3245) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 9 | 0.28 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 9 | 0.28 |
| (1,3245) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 9 | 0.28 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 8 | 0.28 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 9 | 0.28 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 4 | 0.28 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 4 | 0.28 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 14 | 0.28 |
| (1,3075) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 6 | 0.28 |
| (1,3075) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 6 | 0.28 |
| (1,3075) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 6 | 0.28 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 9 | 0.28 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 14 | 0.28 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 11 | 0.28 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 11 | 0.28 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 20 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3009) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 18 | 0.28 |
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 11 | 0.28 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 2 | 0.28 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 2 | 0.28 |
| (1,2937) | 1:31:A:ALA:H | 1:32:A:SER:H | 16 | 0.28 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 4 | 0.28 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 4 | 0.28 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 4 | 0.28 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 8 | 0.28 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 8 | 0.28 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 8 | 0.28 |
| (1,2875) | 1:28:A:ILE:HB | 1:29:A:THR:H | 1 | 0.28 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 6 | 0.28 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 18 | 0.28 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 3 | 0.28 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 14 | 0.28 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 2 | 0.28 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 2 | 0.28 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 2 | 0.28 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 8 | 0.28 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 8 | 0.28 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 8 | 0.28 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 13 | 0.28 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 13 | 0.28 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 13 | 0.28 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 5 | 0.28 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 6 | 0.28 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 6 | 0.28 |
| (1,2609) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 6 | 0.28 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 16 | 0.28 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 19 | 0.28 |
| (1,2597) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 5 | 0.28 |
| (1,2597) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 5 | 0.28 |
| (1,2597) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 5 | 0.28 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 5 | 0.28 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 6 | 0.28 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 6 | 0.28 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 6 | 0.28 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 9 | 0.28 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 9 | 0.28 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 9 | 0.28 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE1 | 18 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE2 | 18 | 0.28 |
| (1,2577) | 1:15:A:MET:H | 1:15:A:MET:HE3 | 18 | 0.28 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 6 | 0.28 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 12 | 0.28 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 9 | 0.28 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 3 | 0.28 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 6 | 0.28 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 14 | 0.28 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 16 | 0.28 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 17 | 0.28 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 9 | 0.28 |
| (1,2267) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 19 | 0.28 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 20 | 0.28 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 9 | 0.28 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 15 | 0.28 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 15 | 0.28 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 15 | 0.28 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 8 | 0.28 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 20 | 0.28 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 1 | 0.28 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 1 | 0.28 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 1 | 0.28 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 8 | 0.28 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 4 | 0.28 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 7 | 0.28 |
| (1,2073) | 1:89:A:ILE:HD11 | 1:157:A:HIS:HA | 1 | 0.28 |
| (1,2073) | 1:89:A:ILE:HD12 | 1:157:A:HIS:HA | 1 | 0.28 |
| (1,2073) | 1:89:A:ILE:HD13 | 1:157:A:HIS:HA | 1 | 0.28 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 2 | 0.28 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 2 | 0.28 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 2 | 0.28 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 13 | 0.28 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 10 | 0.28 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 10 | 0.28 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 4 | 0.28 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 4 | 0.28 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 6 | 0.28 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 6 | 0.28 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 6 | 0.28 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 7 | 0.28 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 7 | 0.28 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 7 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 16 | 0.28 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 2 | 0.28 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 2 | 0.28 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 2 | 0.28 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 15 | 0.28 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 20 | 0.28 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 9 | 0.28 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 14 | 0.28 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 19 | 0.28 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 3 | 0.28 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 15 | 0.28 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 16 | 0.28 |
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 11 | 0.28 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 7 | 0.28 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 14 | 0.28 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 4 | 0.28 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 14 | 0.28 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 14 | 0.28 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 14 | 0.28 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 2 | 0.28 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 18 | 0.28 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 18 | 0.28 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 18 | 0.28 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 7 | 0.28 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 9 | 0.28 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 14 | 0.28 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 17 | 0.28 |
| (1,1639) | 1:136:A:ASP:H | 1:137:A:ALA:H | 20 | 0.28 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 5 | 0.28 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 12 | 0.28 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 13 | 0.28 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 13 | 0.28 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 13 | 0.28 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 3 | 0.28 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 16 | 0.28 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 16 | 0.28 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 16 | 0.28 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 16 | 0.28 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 16 | 0.28 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 16 | 0.28 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 13 | 0.28 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 13 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 13 | 0.28 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 18 | 0.28 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 8 | 0.28 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 15 | 0.28 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 4 | 0.28 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 4 | 0.28 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 10 | 0.28 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 18 | 0.28 |
| (1,1383) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 16 | 0.28 |
| (1,1373) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 14 | 0.28 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 14 | 0.28 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 4 | 0.28 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 18 | 0.28 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 18 | 0.28 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 13 | 0.28 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 13 | 0.28 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 12 | 0.28 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 12 | 0.28 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 12 | 0.28 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 13 | 0.28 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 13 | 0.28 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 13 | 0.28 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 12 | 0.28 |
| (1,1085) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 15 | 0.28 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 18 | 0.28 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 1 | 0.28 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 17 | 0.28 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 17 | 0.28 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 17 | 0.28 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 19 | 0.28 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 19 | 0.28 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 19 | 0.28 |
| (1,943) | 1:106:A:LEU:H | 1:106:A:LEU:HB3 | 20 | 0.28 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 6 | 0.28 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 6 | 0.28 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 18 | 0.28 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 18 | 0.28 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 18 | 0.28 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 15 | 0.28 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 15 | 0.28 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 15 | 0.28 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 20 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 20 | 0.28 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 20 | 0.28 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 3 | 0.28 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 4 | 0.28 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 18 | 0.28 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 18 | 0.28 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 18 | 0.28 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 9 | 0.28 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 9 | 0.28 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 12 | 0.28 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 12 | 0.28 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 13 | 0.28 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 13 | 0.28 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 13 | 0.28 |
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 5 | 0.28 |
| (1,713) | 1:97:A:LYS:H | 1:97:A:LYS:HG2 | 9 | 0.28 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 14 | 0.28 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 20 | 0.28 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 14 | 0.28 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 14 | 0.28 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 14 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 2 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 2 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 2 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 11 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 11 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 11 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 12 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 12 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 12 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 17 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 17 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 17 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 18 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 18 | 0.28 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 18 | 0.28 |
| (1,657) | 1:96:A:ILE:H | 1:97:A:LYS:H | 13 | 0.28 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 7 | 0.28 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 7 | 0.28 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 7 | 0.28 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 15 | 0.28 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 3 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 3 | 0.28 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 3 | 0.28 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 4 | 0.28 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 4 | 0.28 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 4 | 0.28 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 17 | 0.28 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 17 | 0.28 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 17 | 0.28 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 18 | 0.28 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 18 | 0.28 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 18 | 0.28 |
| (1,579) | 1:93:A:ILE:HG21 | 1:93:A:ILE:HG12 | 19 | 0.28 |
| (1,579) | 1:93:A:ILE:HG22 | 1:93:A:ILE:HG12 | 19 | 0.28 |
| (1,579) | 1:93:A:ILE:HG23 | 1:93:A:ILE:HG12 | 19 | 0.28 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 10 | 0.28 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 14 | 0.28 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 14 | 0.28 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 14 | 0.28 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD11 | 15 | 0.28 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD12 | 15 | 0.28 |
| (1,517) | 1:92:A:TYR:HD1 | 1:158:A:ILE:HD13 | 15 | 0.28 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD11 | 15 | 0.28 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD12 | 15 | 0.28 |
| (1,517) | 1:92:A:TYR:HD2 | 1:158:A:ILE:HD13 | 15 | 0.28 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 11 | 0.28 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 17 | 0.28 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 19 | 0.28 |
| (1,495) | 1:91:A:GLY:H | 1:93:A:ILE:H | 3 | 0.28 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 2 | 0.28 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB3 | 2 | 0.28 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 1 | 0.28 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 1 | 0.28 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 1 | 0.28 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 5 | 0.28 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 15 | 0.28 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 7 | 0.28 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 7 | 0.28 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 1 | 0.28 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 1 | 0.28 |
| (1,422) | 1:86:A:LEU:HB2 | 1:87:A:GLU:H | 13 | 0.28 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 11 | 0.28 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 11 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 11 | 0.28 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 11 | 0.28 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 11 | 0.28 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 11 | 0.28 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 11 | 0.28 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 11 | 0.28 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 11 | 0.28 |
| (1,363) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 18 | 0.28 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 20 | 0.28 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 5 | 0.28 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 10 | 0.28 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 10 | 0.28 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 10 | 0.28 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 6 | 0.28 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 6 | 0.28 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 6 | 0.28 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 2 | 0.28 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 2 | 0.28 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 2 | 0.28 |
| (1,272) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 9 | 0.28 |
| (1,272) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 18 | 0.28 |
| (1,272) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 20 | 0.28 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 2 | 0.28 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 6 | 0.28 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 8 | 0.28 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 19 | 0.28 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 2 | 0.28 |
| (1,196) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB2 | 16 | 0.28 |
| (1,196) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB2 | 16 | 0.28 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 20 | 0.28 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 20 | 0.28 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 11 | 0.28 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 11 | 0.28 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 15 | 0.28 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 10 | 0.28 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 10 | 0.28 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 10 | 0.28 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 14 | 0.28 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 14 | 0.28 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 14 | 0.28 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 4 | 0.28 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 2 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 11 | 0.28 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 11 | 0.28 |
| (1,143) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 9 | 0.28 |
| (1,143) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 9 | 0.28 |
| (1,143) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 9 | 0.28 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 7 | 0.28 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 7 | 0.28 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 7 | 0.28 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 7 | 0.28 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 7 | 0.28 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 7 | 0.28 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 9 | 0.28 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 18 | 0.28 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 19 | 0.28 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 2 | 0.28 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 2 | 0.28 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 2 | 0.28 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 3 | 0.28 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 3 | 0.28 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 3 | 0.28 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 15 | 0.28 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 15 | 0.28 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 15 | 0.28 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 15 | 0.28 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 8 | 0.28 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 7 | 0.28 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 20 | 0.28 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 13 | 0.28 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 18 | 0.28 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 18 | 0.28 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 18 | 0.28 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 18 | 0.28 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 18 | 0.28 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 18 | 0.28 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 4 | 0.28 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 4 | 0.28 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 4 | 0.28 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 4 | 0.28 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 16 | 0.28 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 16 | 0.28 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 16 | 0.28 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 16 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,34) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 2 | 0.28 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 12 | 0.28 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 12 | 0.28 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 15 | 0.28 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 15 | 0.28 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 10 | 0.28 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB2 | 1 | 0.27 |
| (3,938) | 1:93:A:ILE:HG12 | 1:146:A:MET:HB3 | 1 | 0.27 |
| (3,876) | 1:75:A:GLN:HE21 | 1:78:A:ILE:H | 11 | 0.27 |
| (3,876) | 1:75:A:GLN:HE22 | 1:78:A:ILE:H | 11 | 0.27 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 11 | 0.27 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 11 | 0.27 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 11 | 0.27 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 11 | 0.27 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 6 | 0.27 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 6 | 0.27 |
| (3,808) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 6 | 0.27 |
| (3,808) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 6 | 0.27 |
| (3,808) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 6 | 0.27 |
| (3,808) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 6 | 0.27 |
| (3,808) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 6 | 0.27 |
| (3,808) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 6 | 0.27 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 8 | 0.27 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 8 | 0.27 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 8 | 0.27 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 17 | 0.27 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 17 | 0.27 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 17 | 0.27 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 18 | 0.27 |
| (3,589) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 9 | 0.27 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 5 | 0.27 |
| (3,502) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 8 | 0.27 |
| (3,416) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 17 | 0.27 |
| (3,416) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 17 | 0.27 |
| (3,416) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 17 | 0.27 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 8 | 0.27 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 11 | 0.27 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 12 | 0.27 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 12 | 0.27 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 12 | 0.27 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 12 | 0.27 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 12 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 12 | 0.27 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 12 | 0.27 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 12 | 0.27 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 12 | 0.27 |
| (3,155) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 10 | 0.27 |
| (3,137) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 2 | 0.27 |
| (3,112) | 1:24:A:TYR:HD1 | 1:33:A:GLN:H | 8 | 0.27 |
| (3,112) | 1:24:A:TYR:HD2 | 1:33:A:GLN:H | 8 | 0.27 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 1 | 0.27 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 1 | 0.27 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 1 | 0.27 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 3 | 0.27 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 3 | 0.27 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 3 | 0.27 |
| (3,20) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 10 | 0.27 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 12 | 0.27 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 12 | 0.27 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 12 | 0.27 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 2 | 0.27 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 2 | 0.27 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 3 | 0.27 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 3 | 0.27 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 20 | 0.27 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 20 | 0.27 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 1 | 0.27 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 1 | 0.27 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 2 | 0.27 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 2 | 0.27 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 13 | 0.27 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 13 | 0.27 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 10 | 0.27 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 10 | 0.27 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 19 | 0.27 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 19 | 0.27 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE1 | 18 | 0.27 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE2 | 18 | 0.27 |
| (1,9236) | 1:97:A:LYS:HB2 | 1:146:A:MET:HE3 | 18 | 0.27 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE1 | 18 | 0.27 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE2 | 18 | 0.27 |
| (1,9236) | 1:97:A:LYS:HB3 | 1:146:A:MET:HE3 | 18 | 0.27 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 9 | 0.27 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 9 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 18 | 0.27 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 18 | 0.27 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 18 | 0.27 |
| (1,9095) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 18 | 0.27 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 4 | 0.27 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 4 | 0.27 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 12 | 0.27 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 12 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 13 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 13 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 13 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 13 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 13 | 0.27 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 13 | 0.27 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 7 | 0.27 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 7 | 0.27 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 7 | 0.27 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 7 | 0.27 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 7 | 0.27 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 7 | 0.27 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 4 | 0.27 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 4 | 0.27 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 4 | 0.27 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 4 | 0.27 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 1 | 0.27 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 1 | 0.27 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 20 | 0.27 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 20 | 0.27 |
| (1,8681) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 8 | 0.27 |
| (1,8681) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 8 | 0.27 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 6 | 0.27 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 6 | 0.27 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 9 | 0.27 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 9 | 0.27 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 4 | 0.27 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 4 | 0.27 |
| (1,8425) | 1:143:A:THR:H | 1:145:A:GLU:H | 18 | 0.27 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 19 | 0.27 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 10 | 0.27 |
| (1,7698) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 18 | 0.27 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 2 | 0.27 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 9 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 9 | 0.27 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 14 | 0.27 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 7 | 0.27 |
| (1,7192) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 11 | 0.27 |
| (1,7192) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 11 | 0.27 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 17 | 0.27 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 17 | 0.27 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 17 | 0.27 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 20 | 0.27 |
| (1,7087) | 1:62:A:VAL:HG11 | 1:89:A:ILE:H | 3 | 0.27 |
| (1,7087) | 1:62:A:VAL:HG12 | 1:89:A:ILE:H | 3 | 0.27 |
| (1,7087) | 1:62:A:VAL:HG13 | 1:89:A:ILE:H | 3 | 0.27 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 19 | 0.27 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 19 | 0.27 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 19 | 0.27 |
| (1,7067) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 3 | 0.27 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 6 | 0.27 |
| (1,7059) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 13 | 0.27 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 12 | 0.27 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 18 | 0.27 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 7 | 0.27 |
| (1,7000) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 4 | 0.27 |
| (1,6957) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 1 | 0.27 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 10 | 0.27 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 5 | 0.27 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 5 | 0.27 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 5 | 0.27 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 2 | 0.27 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 2 | 0.27 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 2 | 0.27 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 2 | 0.27 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 14 | 0.27 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 14 | 0.27 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 1 | 0.27 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 7 | 0.27 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 5 | 0.27 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 6 | 0.27 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 6 | 0.27 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 6 | 0.27 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 6 | 0.27 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 6 | 0.27 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 6 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 18 | 0.27 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 13 | 0.27 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 2 | 0.27 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 2 | 0.27 |
| (1,6616) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 2 | 0.27 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 11 | 0.27 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 19 | 0.27 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 14 | 0.27 |
| (1,6530) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 6 | 0.27 |
| (1,6530) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 6 | 0.27 |
| (1,6530) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 6 | 0.27 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 17 | 0.27 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 6 | 0.27 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 13 | 0.27 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 14 | 0.27 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 14 | 0.27 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 14 | 0.27 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 19 | 0.27 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 19 | 0.27 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 19 | 0.27 |
| (1,6338) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 15 | 0.27 |
| (1,6338) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 15 | 0.27 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 11 | 0.27 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 11 | 0.27 |
| (1,6311) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 14 | 0.27 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 6 | 0.27 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 2 | 0.27 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 14 | 0.27 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 14 | 0.27 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 14 | 0.27 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 9 | 0.27 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 9 | 0.27 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 9 | 0.27 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 14 | 0.27 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 14 | 0.27 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 14 | 0.27 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 16 | 0.27 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 16 | 0.27 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 16 | 0.27 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 11 | 0.27 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 11 | 0.27 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 11 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 11 | 0.27 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 11 | 0.27 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 11 | 0.27 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 11 | 0.27 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 11 | 0.27 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 11 | 0.27 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 6 | 0.27 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 20 | 0.27 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 3 | 0.27 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 2 | 0.27 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 2 | 0.27 |
| (1,6002) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 2 | 0.27 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 15 | 0.27 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 15 | 0.27 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 18 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 4 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 4 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 4 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 4 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 4 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 4 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 4 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 4 | 0.27 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 4 | 0.27 |
| (1,5879) | 1:122:A:LEU:H | 1:122:A:LEU:HG | 12 | 0.27 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 10 | 0.27 |
| (1,5861) | 1:121:A:ASP:H | 1:121:A:ASP:HB2 | 3 | 0.27 |
| (1,5861) | 1:121:A:ASP:H | 1:121:A:ASP:HB3 | 3 | 0.27 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 17 | 0.27 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 15 | 0.27 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 10 | 0.27 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 14 | 0.27 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 5 | 0.27 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 13 | 0.27 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 17 | 0.27 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 18 | 0.27 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 11 | 0.27 |
| (1,5669) | 1:105:A:SER:HA | 1:108:A:SER:H | 5 | 0.27 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 11 | 0.27 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 16 | 0.27 |
| (1,5623) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 6 | 0.27 |
| (1,5591) | 1:100:A:GLU:H | 1:100:A:GLU:HB2 | 12 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5591) | 1:100:A:GLU:H | 1:100:A:GLU:HB3 | 12 | 0.27 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 10 | 0.27 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 10 | 0.27 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 10 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 4 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 4 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 4 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 4 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 4 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 4 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 4 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 4 | 0.27 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 4 | 0.27 |
| (1,5524) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 7 | 0.27 |
| (1,5509) | 1:96:A:ILE:H | 1:101:A:GLU:H | 1 | 0.27 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 14 | 0.27 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 14 | 0.27 |
| (1,5410) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 17 | 0.27 |
| (1,5410) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 17 | 0.27 |
| (1,5394) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 8 | 0.27 |
| (1,5394) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 19 | 0.27 |
| (1,5347) | 1:87:A:GLU:H | 1:89:A:ILE:H | 13 | 0.27 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 6 | 0.27 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 6 | 0.27 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 6 | 0.27 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 8 | 0.27 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 8 | 0.27 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 8 | 0.27 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 2 | 0.27 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 13 | 0.27 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 4 | 0.27 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 20 | 0.27 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 13 | 0.27 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 17 | 0.27 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 17 | 0.27 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 14 | 0.27 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 18 | 0.27 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 8 | 0.27 |
| (1,4933) | 1:65:A:SER:HA | 1:67:A:SER:H | 12 | 0.27 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 3 | 0.27 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 3 | 0.27 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 3 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4869) | 1:62:A:VAL:HG11 | 1:85:A:ALA:H | 11 | 0.27 |
| (1,4869) | 1:62:A:VAL:HG12 | 1:85:A:ALA:H | 11 | 0.27 |
| (1,4869) | 1:62:A:VAL:HG13 | 1:85:A:ALA:H | 11 | 0.27 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 12 | 0.27 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 3 | 0.27 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 3 | 0.27 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 3 | 0.27 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 3 | 0.27 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 3 | 0.27 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 3 | 0.27 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 3 | 0.27 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 3 | 0.27 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 3 | 0.27 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 2 | 0.27 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 7 | 0.27 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 7 | 0.27 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 7 | 0.27 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 5 | 0.27 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 5 | 0.27 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 5 | 0.27 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 12 | 0.27 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 9 | 0.27 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 10 | 0.27 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 10 | 0.27 |
| (1,4635) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 13 | 0.27 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 2 | 0.27 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 2 | 0.27 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 5 | 0.27 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 5 | 0.27 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 8 | 0.27 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 8 | 0.27 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 20 | 0.27 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 20 | 0.27 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 18 | 0.27 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 18 | 0.27 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 8 | 0.27 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 8 | 0.27 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 15 | 0.27 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 15 | 0.27 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 16 | 0.27 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 16 | 0.27 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 17 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 17 | 0.27 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 17 | 0.27 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 17 | 0.27 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 17 | 0.27 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 17 | 0.27 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 17 | 0.27 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 17 | 0.27 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 16 | 0.27 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 16 | 0.27 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 14 | 0.27 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 14 | 0.27 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 19 | 0.27 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 19 | 0.27 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 12 | 0.27 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 12 | 0.27 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 7 | 0.27 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 7 | 0.27 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 16 | 0.27 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 16 | 0.27 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 9 | 0.27 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 9 | 0.27 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 5 | 0.27 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 5 | 0.27 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 12 | 0.27 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 12 | 0.27 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 20 | 0.27 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 20 | 0.27 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 7 | 0.27 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 7 | 0.27 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 3 | 0.27 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 3 | 0.27 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 2 | 0.27 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 2 | 0.27 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 2 | 0.27 |
| (1,3845) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 18 | 0.27 |
| (1,3845) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 18 | 0.27 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 5 | 0.27 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 5 | 0.27 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 20 | 0.27 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 20 | 0.27 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 16 | 0.27 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 16 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 6 | 0.27 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 6 | 0.27 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 5 | 0.27 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 5 | 0.27 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 20 | 0.27 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 20 | 0.27 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 14 | 0.27 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 14 | 0.27 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 1 | 0.27 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 7 | 0.27 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 9 | 0.27 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 9 | 0.27 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 9 | 0.27 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 15 | 0.27 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 18 | 0.27 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 7 | 0.27 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 7 | 0.27 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 17 | 0.27 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 17 | 0.27 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 17 | 0.27 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 7 | 0.27 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 5 | 0.27 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 18 | 0.27 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 6 | 0.27 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 5 | 0.27 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 1 | 0.27 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 4 | 0.27 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 18 | 0.27 |
| (1,3043) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 4 | 0.27 |
| (1,2999) | 1:33:A:GLN:HB3 | 1:35:A:GLU:H | 14 | 0.27 |
| (1,2987) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 12 | 0.27 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 3 | 0.27 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 3 | 0.27 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 3 | 0.27 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 17 | 0.27 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 17 | 0.27 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 17 | 0.27 |
| (1,2845) | 1:27:A:HIS:H | 1:28:A:ILE:H | 1 | 0.27 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 13 | 0.27 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 2 | 0.27 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 11 | 0.27 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 12 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2669) | 1:15:A:MET:HE1 | 1:22:A:VAL:H | 3 | 0.27 |
| (1,2669) | 1:15:A:MET:HE2 | 1:22:A:VAL:H | 3 | 0.27 |
| (1,2669) | 1:15:A:MET:HE3 | 1:22:A:VAL:H | 3 | 0.27 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 4 | 0.27 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 15 | 0.27 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 1 | 0.27 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 7 | 0.27 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 5 | 0.27 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 18 | 0.27 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 18 | 0.27 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 18 | 0.27 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 8 | 0.27 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 8 | 0.27 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 8 | 0.27 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 14 | 0.27 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 14 | 0.27 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 14 | 0.27 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 14 | 0.27 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 13 | 0.27 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 15 | 0.27 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 15 | 0.27 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 15 | 0.27 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 19 | 0.27 |
| (1,2455) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 1 | 0.27 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 12 | 0.27 |
| (1,2437) | 1:11:A:TRP:HB2 | 1:12:A:GLU:H | 14 | 0.27 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 2 | 0.27 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 9 | 0.27 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 20 | 0.27 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 14 | 0.27 |
| (1,2401) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 2 | 0.27 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 2 | 0.27 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 14 | 0.27 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 13 | 0.27 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 10 | 0.27 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 17 | 0.27 |
| (1,2259) | 1:1:A:MET:HB3 | 1:2:A:ALA:H | 20 | 0.27 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 13 | 0.27 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 7 | 0.27 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 7 | 0.27 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 7 | 0.27 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 15 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 17 | 0.27 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD21 | 2 | 0.27 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD22 | 2 | 0.27 |
| (1,2155) | 1:160:A:LEU:HB2 | 1:160:A:LEU:HD23 | 2 | 0.27 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 4 | 0.27 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 4 | 0.27 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 4 | 0.27 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 7 | 0.27 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 7 | 0.27 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 10 | 0.27 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 10 | 0.27 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 11 | 0.27 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 11 | 0.27 |
| (1,1983) | 1:151:A:PHE:H | 1:151:A:PHE:HA | 14 | 0.27 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 19 | 0.27 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 19 | 0.27 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 19 | 0.27 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 13 | 0.27 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 13 | 0.27 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 13 | 0.27 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 2 | 0.27 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 3 | 0.27 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 11 | 0.27 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 11 | 0.27 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 11 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 3 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 3 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 3 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 7 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 7 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 7 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 11 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 11 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 11 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 15 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 15 | 0.27 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 15 | 0.27 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 19 | 0.27 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 19 | 0.27 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 19 | 0.27 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 6 | 0.27 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 20 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 3 | 0.27 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 4 | 0.27 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 16 | 0.27 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 5 | 0.27 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 7 | 0.27 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 7 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 4 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 4 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 4 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 6 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 6 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 6 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 20 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 20 | 0.27 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 20 | 0.27 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 4 | 0.27 |
| (1,1467) | 1:130:A:MET:H | 1:130:A:MET:HA | 9 | 0.27 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 2 | 0.27 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 9 | 0.27 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 10 | 0.27 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 19 | 0.27 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 15 | 0.27 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG2 | 9 | 0.27 |
| (1,1351) | 1:125:A:PHE:HD1 | 1:130:A:MET:HG3 | 9 | 0.27 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG2 | 9 | 0.27 |
| (1,1351) | 1:125:A:PHE:HD2 | 1:130:A:MET:HG3 | 9 | 0.27 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 11 | 0.27 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 11 | 0.27 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 11 | 0.27 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 11 | 0.27 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 11 | 0.27 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 11 | 0.27 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 8 | 0.27 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 8 | 0.27 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 12 | 0.27 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 4 | 0.27 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 9 | 0.27 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 10 | 0.27 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 8 | 0.27 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 8 | 0.27 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 8 | 0.27 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 8 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 8 | 0.27 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 8 | 0.27 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 5 | 0.27 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 5 | 0.27 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 4 | 0.27 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 9 | 0.27 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 5 | 0.27 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 5 | 0.27 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 12 | 0.27 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 12 | 0.27 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 18 | 0.27 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 18 | 0.27 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 19 | 0.27 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 17 | 0.27 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 15 | 0.27 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 13 | 0.27 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 13 | 0.27 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 13 | 0.27 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 10 | 0.27 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 14 | 0.27 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 5 | 0.27 |
| (1,1143) | 1:115:A:SER:HA | 1:117:A:LYS:H | 6 | 0.27 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 8 | 0.27 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 2 | 0.27 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 7 | 0.27 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 18 | 0.27 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 10 | 0.27 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 1 | 0.27 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 17 | 0.27 |
| (1,995) | 1:107:A:ALA:H | 1:108:A:SER:H | 13 | 0.27 |
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 13 | 0.27 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 2 | 0.27 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 2 | 0.27 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 2 | 0.27 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 11 | 0.27 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 13 | 0.27 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 13 | 0.27 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 13 | 0.27 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 13 | 0.27 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 13 | 0.27 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 13 | 0.27 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 19 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 19 | 0.27 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 19 | 0.27 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 19 | 0.27 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 14 | 0.27 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 14 | 0.27 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 2 | 0.27 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 4 | 0.27 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 11 | 0.27 |
| (1,679) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 7 | 0.27 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD11 | 19 | 0.27 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD12 | 19 | 0.27 |
| (1,667) | 1:96:A:ILE:HA | 1:96:A:ILE:HD13 | 19 | 0.27 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 14 | 0.27 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 9 | 0.27 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 17 | 0.27 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 6 | 0.27 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 17 | 0.27 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 17 | 0.27 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 17 | 0.27 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 14 | 0.27 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 8 | 0.27 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 8 | 0.27 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 8 | 0.27 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 4 | 0.27 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 5 | 0.27 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 17 | 0.27 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 2 | 0.27 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 8 | 0.27 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB3 | 8 | 0.27 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 19 | 0.27 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB3 | 19 | 0.27 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 1 | 0.27 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 1 | 0.27 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 1 | 0.27 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 3 | 0.27 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 3 | 0.27 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 3 | 0.27 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 9 | 0.27 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 9 | 0.27 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 9 | 0.27 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 1 | 0.27 |
| (1,445) | 1:88:A:LEU:H | 1:88:A:LEU:HB3 | 18 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,405) | 1:86:A:LEU:HA | 1:86:A:LEU:HB3 | 16 | 0.27 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 11 | 0.27 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 11 | 0.27 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 11 | 0.27 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 8 | 0.27 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 8 | 0.27 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 2 | 0.27 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 3 | 0.27 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 7 | 0.27 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 7 | 0.27 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 7 | 0.27 |
| (1,293) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 5 | 0.27 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 15 | 0.27 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 15 | 0.27 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 15 | 0.27 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 17 | 0.27 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 17 | 0.27 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 17 | 0.27 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 17 | 0.27 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 17 | 0.27 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 17 | 0.27 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 13 | 0.27 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 13 | 0.27 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 19 | 0.27 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 19 | 0.27 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 19 | 0.27 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 19 | 0.27 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 19 | 0.27 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 19 | 0.27 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 19 | 0.27 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 19 | 0.27 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 19 | 0.27 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 12 | 0.27 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 16 | 0.27 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 16 | 0.27 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 16 | 0.27 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 9 | 0.27 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 9 | 0.27 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 9 | 0.27 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 14 | 0.27 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 14 | 0.27 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 14 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 14 | 0.27 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 14 | 0.27 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 14 | 0.27 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 17 | 0.27 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 17 | 0.27 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 8 | 0.27 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 8 | 0.27 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 8 | 0.27 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 12 | 0.27 |
| (1,37) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 13 | 0.27 |
| (1,37) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 13 | 0.27 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 7 | 0.27 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 7 | 0.27 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 9 | 0.27 |
| (1,14) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 13 | 0.27 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 20 | 0.27 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 2 | 0.27 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 2 | 0.27 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD21 | 3 | 0.26 |
| (4,218) | 1:131:A:GLN:CB | 1:47:A:ASN:HD22 | 3 | 0.26 |
| (3,924) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 2 | 0.26 |
| (3,924) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 2 | 0.26 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 1 | 0.26 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 1 | 0.26 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 1 | 0.26 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 1 | 0.26 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 1 | 0.26 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 1 | 0.26 |
| (3,813) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 18 | 0.26 |
| (3,813) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 18 | 0.26 |
| (3,813) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 18 | 0.26 |
| (3,813) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 18 | 0.26 |
| (3,746) | 1:160:A:LEU:HD21 | 1:162:A:THR:HA | 14 | 0.26 |
| (3,746) | 1:160:A:LEU:HD22 | 1:162:A:THR:HA | 14 | 0.26 |
| (3,746) | 1:160:A:LEU:HD23 | 1:162:A:THR:HA | 14 | 0.26 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 18 | 0.26 |
| (3,605) | 1:115:A:SER:H | 1:122:A:LEU:H | 9 | 0.26 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 9 | 0.26 |
| (3,449) | 1:71:A:SER:H | 1:78:A:ILE:H | 17 | 0.26 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 5 | 0.26 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 5 | 0.26 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 5 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 5 | 0.26 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 5 | 0.26 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 5 | 0.26 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 5 | 0.26 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 5 | 0.26 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 5 | 0.26 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 11 | 0.26 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 11 | 0.26 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 11 | 0.26 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 11 | 0.26 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 11 | 0.26 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 11 | 0.26 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 20 | 0.26 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 12 | 0.26 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 3 | 0.26 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 3 | 0.26 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 1 | 0.26 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 1 | 0.26 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 1 | 0.26 |
| (3,90) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 18 | 0.26 |
| (3,90) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 18 | 0.26 |
| (3,90) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 18 | 0.26 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 5 | 0.26 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 5 | 0.26 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 20 | 0.26 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 20 | 0.26 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 10 | 0.26 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 10 | 0.26 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 10 | 0.26 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 10 | 0.26 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 10 | 0.26 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 10 | 0.26 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 3 | 0.26 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 3 | 0.26 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 20 | 0.26 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 20 | 0.26 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 8 | 0.26 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 8 | 0.26 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 4 | 0.26 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 4 | 0.26 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 9 | 0.26 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 9 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 14 | 0.26 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 14 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 9 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 9 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 9 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 9 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 9 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 9 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 18 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 18 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 18 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 18 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 18 | 0.26 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 18 | 0.26 |
| (1,9300) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 18 | 0.26 |
| (1,9300) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 18 | 0.26 |
| (1,9300) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 18 | 0.26 |
| (1,9300) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 18 | 0.26 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 8 | 0.26 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 8 | 0.26 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 10 | 0.26 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 10 | 0.26 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 14 | 0.26 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 14 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 2 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 2 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 4 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 4 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 5 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 5 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 8 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 8 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 9 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 9 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 14 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 14 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 16 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 16 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 17 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 17 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 19 | 0.26 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 19 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 7 | 0.26 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 7 | 0.26 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 5 | 0.26 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 5 | 0.26 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 5 | 0.26 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 5 | 0.26 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 5 | 0.26 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 5 | 0.26 |
| (1,9111) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 8 | 0.26 |
| (1,9111) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 8 | 0.26 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 18 | 0.26 |
| (1,9106) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 18 | 0.26 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 14 | 0.26 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 14 | 0.26 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 1 | 0.26 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 1 | 0.26 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 8 | 0.26 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 8 | 0.26 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 17 | 0.26 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 17 | 0.26 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 17 | 0.26 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 17 | 0.26 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 17 | 0.26 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 17 | 0.26 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 15 | 0.26 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 15 | 0.26 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 15 | 0.26 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 15 | 0.26 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 10 | 0.26 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 10 | 0.26 |
| (1,8681) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 17 | 0.26 |
| (1,8681) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 17 | 0.26 |
| (1,8681) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 19 | 0.26 |
| (1,8681) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 19 | 0.26 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 13 | 0.26 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 13 | 0.26 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 16 | 0.26 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 16 | 0.26 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 13 | 0.26 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 13 | 0.26 |
| (1,8648) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 3 | 0.26 |
| (1,8648) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 3 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8612) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 4 | 0.26 |
| (1,8612) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 4 | 0.26 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 4 | 0.26 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 4 | 0.26 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 5 | 0.26 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 5 | 0.26 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 7 | 0.26 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 7 | 0.26 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 5 | 0.26 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 5 | 0.26 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 5 | 0.26 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 5 | 0.26 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 5 | 0.26 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 5 | 0.26 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 18 | 0.26 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 5 | 0.26 |
| (1,7642) | 1:28:A:ILE:H | 1:31:A:ALA:H | 11 | 0.26 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 9 | 0.26 |
| (1,7399) | 1:4:A:GLU:H | 1:13:A:LYS:H | 1 | 0.26 |
| (1,7337) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 8 | 0.26 |
| (1,7332) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 6 | 0.26 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 17 | 0.26 |
| (1,7302) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 16 | 0.26 |
| (1,7286) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 11 | 0.26 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 16 | 0.26 |
| (1,7201) | 1:149:A:PRO:HB2 | 1:157:A:HIS:H | 18 | 0.26 |
| (1,7139) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 16 | 0.26 |
| (1,7139) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 16 | 0.26 |
| (1,7139) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 16 | 0.26 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 11 | 0.26 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 11 | 0.26 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 11 | 0.26 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 10 | 0.26 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 10 | 0.26 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 10 | 0.26 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 20 | 0.26 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 20 | 0.26 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 20 | 0.26 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 18 | 0.26 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 9 | 0.26 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 9 | 0.26 |
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 1 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7033) | 1:38:A:SER:HB2 | 1:39:A:GLY:H | 5 | 0.26 |
| (1,7000) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 10 | 0.26 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 15 | 0.26 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 1 | 0.26 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 1 | 0.26 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 9 | 0.26 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 9 | 0.26 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 19 | 0.26 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 19 | 0.26 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 18 | 0.26 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 7 | 0.26 |
| (1,6935) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 11 | 0.26 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 3 | 0.26 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 19 | 0.26 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 1 | 0.26 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 7 | 0.26 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 7 | 0.26 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 7 | 0.26 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 17 | 0.26 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 18 | 0.26 |
| (1,6833) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 18 | 0.26 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 12 | 0.26 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 16 | 0.26 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 20 | 0.26 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 12 | 0.26 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 15 | 0.26 |
| (1,6756) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 6 | 0.26 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 3 | 0.26 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 20 | 0.26 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 18 | 0.26 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 18 | 0.26 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 18 | 0.26 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 12 | 0.26 |
| (1,6658) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 2 | 0.26 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 2 | 0.26 |
| (1,6612) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 13 | 0.26 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 12 | 0.26 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 14 | 0.26 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 15 | 0.26 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 3 | 0.26 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 3 | 0.26 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 3 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 16 | 0.26 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 16 | 0.26 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 16 | 0.26 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 4 | 0.26 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 4 | 0.26 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 4 | 0.26 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 16 | 0.26 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 16 | 0.26 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 16 | 0.26 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 10 | 0.26 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 10 | 0.26 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 10 | 0.26 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 17 | 0.26 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 17 | 0.26 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 17 | 0.26 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 17 | 0.26 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 9 | 0.26 |
| (1,6178) | 1:142:A:ARG:H | 1:143:A:THR:H | 2 | 0.26 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 1 | 0.26 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 1 | 0.26 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 1 | 0.26 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 6 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 7 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 7 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 7 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 11 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 11 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 11 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 17 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 17 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 17 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 19 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 19 | 0.26 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 19 | 0.26 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 5 | 0.26 |
| (1,6107) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 0.26 |
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 1 | 0.26 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 1 | 0.26 |
| (1,6016) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 10 | 0.26 |
| (1,6016) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 10 | 0.26 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 8 | 0.26 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 18 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 7 | 0.26 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 14 | 0.26 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 14 | 0.26 |
| (1,5893) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 17 | 0.26 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 9 | 0.26 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 7 | 0.26 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 8 | 0.26 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 8 | 0.26 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 11 | 0.26 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 19 | 0.26 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 19 | 0.26 |
| (1,5644) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 10 | 0.26 |
| (1,5631) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 18 | 0.26 |
| (1,5631) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 18 | 0.26 |
| (1,5631) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 18 | 0.26 |
| (1,5619) | 1:101:A:GLU:H | 1:102:A:ASP:H | 4 | 0.26 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 9 | 0.26 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 2 | 0.26 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 7 | 0.26 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 7 | 0.26 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 7 | 0.26 |
| (1,5524) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 17 | 0.26 |
| (1,5488) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 14 | 0.26 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 15 | 0.26 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 10 | 0.26 |
| (1,5368) | 1:89:A:ILE:HB | 1:156:A:ILE:HG21 | 7 | 0.26 |
| (1,5368) | 1:89:A:ILE:HB | 1:156:A:ILE:HG22 | 7 | 0.26 |
| (1,5368) | 1:89:A:ILE:HB | 1:156:A:ILE:HG23 | 7 | 0.26 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 5 | 0.26 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 5 | 0.26 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 5 | 0.26 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 14 | 0.26 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 9 | 0.26 |
| (1,5295) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 9 | 0.26 |
| (1,5293) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 5 | 0.26 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 6 | 0.26 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 6 | 0.26 |
| (1,5207) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 6 | 0.26 |
| (1,5165) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 13 | 0.26 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 4 | 0.26 |
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 6 | 0.26 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 2 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 4 | 0.26 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 8 | 0.26 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 14 | 0.26 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 15 | 0.26 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 19 | 0.26 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 17 | 0.26 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 7 | 0.26 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 7 | 0.26 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 3 | 0.26 |
| (1,4977) | 1:67:A:SER:H | 1:70:A:PRO:HB3 | 19 | 0.26 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 1 | 0.26 |
| (1,4937) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 9 | 0.26 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 10 | 0.26 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 10 | 0.26 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 10 | 0.26 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 8 | 0.26 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 8 | 0.26 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 8 | 0.26 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 15 | 0.26 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 15 | 0.26 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 15 | 0.26 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 18 | 0.26 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 18 | 0.26 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 18 | 0.26 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 1 | 0.26 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 1 | 0.26 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 1 | 0.26 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 9 | 0.26 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 2 | 0.26 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 2 | 0.26 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 2 | 0.26 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 1 | 0.26 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 1 | 0.26 |
| (1,4635) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 9 | 0.26 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 9 | 0.26 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 9 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 4 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 4 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 5 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 5 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 9 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 9 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 12 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 12 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 16 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 16 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 18 | 0.26 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 18 | 0.26 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 1 | 0.26 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 1 | 0.26 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 1 | 0.26 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 1 | 0.26 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 16 | 0.26 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 16 | 0.26 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 16 | 0.26 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 16 | 0.26 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 16 | 0.26 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 16 | 0.26 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 3 | 0.26 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 3 | 0.26 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 9 | 0.26 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 9 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 3 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 3 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 4 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 4 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 7 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 7 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 19 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 19 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 20 | 0.26 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 20 | 0.26 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 10 | 0.26 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 10 | 0.26 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 10 | 0.26 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 10 | 0.26 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 15 | 0.26 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 15 | 0.26 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 3 | 0.26 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 3 | 0.26 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 9 | 0.26 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 9 | 0.26 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 16 | 0.26 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 16 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 14 | 0.26 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 14 | 0.26 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 2 | 0.26 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 2 | 0.26 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 2 | 0.26 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 2 | 0.26 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 2 | 0.26 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 2 | 0.26 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 3 | 0.26 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 3 | 0.26 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 7 | 0.26 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 7 | 0.26 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 2 | 0.26 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 2 | 0.26 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 18 | 0.26 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 18 | 0.26 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 13 | 0.26 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 13 | 0.26 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 19 | 0.26 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 19 | 0.26 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 6 | 0.26 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 6 | 0.26 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 2 | 0.26 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 2 | 0.26 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 6 | 0.26 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 6 | 0.26 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 18 | 0.26 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 18 | 0.26 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 3 | 0.26 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 3 | 0.26 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 6 | 0.26 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 6 | 0.26 |
| (1,3533) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 12 | 0.26 |
| (1,3533) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 12 | 0.26 |
| (1,3533) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 12 | 0.26 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 18 | 0.26 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 18 | 0.26 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 5 | 0.26 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 5 | 0.26 |
| (1,3429) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 5 | 0.26 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 9 | 0.26 |
| (1,3407) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 5 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3407) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 5 | 0.26 |
| (1,3407) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 5 | 0.26 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 3 | 0.26 |
| (1,3223) | 1:89:A:ILE:HD11 | 1:157:A:HIS:H | 5 | 0.26 |
| (1,3223) | 1:89:A:ILE:HD12 | 1:157:A:HIS:H | 5 | 0.26 |
| (1,3223) | 1:89:A:ILE:HD13 | 1:157:A:HIS:H | 5 | 0.26 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 5 | 0.26 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 13 | 0.26 |
| (1,3185) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 13 | 0.26 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 1 | 0.26 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 9 | 0.26 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 10 | 0.26 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 12 | 0.26 |
| (1,3043) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 10 | 0.26 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 15 | 0.26 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 6 | 0.26 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 20 | 0.26 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 20 | 0.26 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 20 | 0.26 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 1 | 0.26 |
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 6 | 0.26 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 11 | 0.26 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 2 | 0.26 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 2 | 0.26 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 2 | 0.26 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 20 | 0.26 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 20 | 0.26 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 20 | 0.26 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 17 | 0.26 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 3 | 0.26 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 3 | 0.26 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 3 | 0.26 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 6 | 0.26 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 6 | 0.26 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 6 | 0.26 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 12 | 0.26 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 16 | 0.26 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 20 | 0.26 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 12 | 0.26 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 15 | 0.26 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 7 | 0.26 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 7 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 13 | 0.26 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 6 | 0.26 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 20 | 0.26 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 4 | 0.26 |
| (1,2543) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 2 | 0.26 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 9 | 0.26 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 9 | 0.26 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 20 | 0.26 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 20 | 0.26 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 20 | 0.26 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 20 | 0.26 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 2 | 0.26 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 17 | 0.26 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 12 | 0.26 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 12 | 0.26 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 12 | 0.26 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 17 | 0.26 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 17 | 0.26 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 17 | 0.26 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 4 | 0.26 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 4 | 0.26 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 4 | 0.26 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 14 | 0.26 |
| (1,2321) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 10 | 0.26 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 2 | 0.26 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 4 | 0.26 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 18 | 0.26 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 7 | 0.26 |
| (1,2267) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 4 | 0.26 |
| (1,2267) | 1:2:A:ALA:H | 1:2:A:ALA:HA | 12 | 0.26 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 10 | 0.26 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 15 | 0.26 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 2 | 0.26 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 7 | 0.26 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 18 | 0.26 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 18 | 0.26 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 18 | 0.26 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 18 | 0.26 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 16 | 0.26 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 16 | 0.26 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 16 | 0.26 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 14 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 14 | 0.26 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 14 | 0.26 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 10 | 0.26 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 10 | 0.26 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 10 | 0.26 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 11 | 0.26 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 11 | 0.26 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 11 | 0.26 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 20 | 0.26 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 20 | 0.26 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 20 | 0.26 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 20 | 0.26 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 20 | 0.26 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 20 | 0.26 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 20 | 0.26 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 20 | 0.26 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 20 | 0.26 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG21 | 14 | 0.26 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG22 | 14 | 0.26 |
| (1,2045) | 1:89:A:ILE:HG21 | 1:156:A:ILE:HG23 | 14 | 0.26 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG21 | 14 | 0.26 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG22 | 14 | 0.26 |
| (1,2045) | 1:89:A:ILE:HG22 | 1:156:A:ILE:HG23 | 14 | 0.26 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG21 | 14 | 0.26 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG22 | 14 | 0.26 |
| (1,2045) | 1:89:A:ILE:HG23 | 1:156:A:ILE:HG23 | 14 | 0.26 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 16 | 0.26 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 16 | 0.26 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 16 | 0.26 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 5 | 0.26 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 13 | 0.26 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 13 | 0.26 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 13 | 0.26 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 8 | 0.26 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 8 | 0.26 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 8 | 0.26 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 8 | 0.26 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 8 | 0.26 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 8 | 0.26 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 20 | 0.26 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 20 | 0.26 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 20 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 9 | 0.26 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 13 | 0.26 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 12 | 0.26 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 15 | 0.26 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 7 | 0.26 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 19 | 0.26 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 6 | 0.26 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 9 | 0.26 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 9 | 0.26 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 9 | 0.26 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 9 | 0.26 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 9 | 0.26 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 9 | 0.26 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 9 | 0.26 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 9 | 0.26 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 9 | 0.26 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 8 | 0.26 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 1 | 0.26 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 1 | 0.26 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 1 | 0.26 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 1 | 0.26 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 1 | 0.26 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 1 | 0.26 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 2 | 0.26 |
| (1,1489) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 7 | 0.26 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 12 | 0.26 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 12 | 0.26 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 12 | 0.26 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 20 | 0.26 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 20 | 0.26 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 20 | 0.26 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 19 | 0.26 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 5 | 0.26 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 8 | 0.26 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 9 | 0.26 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 14 | 0.26 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 9 | 0.26 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 9 | 0.26 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 17 | 0.26 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 10 | 0.26 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 3 | 0.26 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 8 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 8 | 0.26 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 8 | 0.26 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 8 | 0.26 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 8 | 0.26 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 8 | 0.26 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 8 | 0.26 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 8 | 0.26 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 8 | 0.26 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 2 | 0.26 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 2 | 0.26 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 14 | 0.26 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 14 | 0.26 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 20 | 0.26 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 20 | 0.26 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 1 | 0.26 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 1 | 0.26 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 1 | 0.26 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 17 | 0.26 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 17 | 0.26 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 17 | 0.26 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 18 | 0.26 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 17 | 0.26 |
| (1,1079) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 4 | 0.26 |
| (1,1079) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 4 | 0.26 |
| (1,1079) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 4 | 0.26 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 20 | 0.26 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 20 | 0.26 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 10 | 0.26 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 19 | 0.26 |
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 8 | 0.26 |
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 9 | 0.26 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 15 | 0.26 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 15 | 0.26 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 15 | 0.26 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 14 | 0.26 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 3 | 0.26 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 3 | 0.26 |
| (1,747) | 1:98:A:SER:H | 1:98:A:SER:HA | 7 | 0.26 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 8 | 0.26 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 15 | 0.26 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 15 | 0.26 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 15 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 10 | 0.26 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 10 | 0.26 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 10 | 0.26 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 16 | 0.26 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 16 | 0.26 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 16 | 0.26 |
| (1,679) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 17 | 0.26 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 12 | 0.26 |
| (1,621) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 8 | 0.26 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 9 | 0.26 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 3 | 0.26 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 15 | 0.26 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 1 | 0.26 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 1 | 0.26 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 1 | 0.26 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 17 | 0.26 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 10 | 0.26 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 16 | 0.26 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 16 | 0.26 |
| (1,473) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 16 | 0.26 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 16 | 0.26 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 16 | 0.26 |
| (1,473) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 16 | 0.26 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 16 | 0.26 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 16 | 0.26 |
| (1,473) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 16 | 0.26 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 4 | 0.26 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 20 | 0.26 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 19 | 0.26 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 9 | 0.26 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 9 | 0.26 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 9 | 0.26 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 9 | 0.26 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 9 | 0.26 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 9 | 0.26 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 13 | 0.26 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 5 | 0.26 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 5 | 0.26 |
| (1,416) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 16 | 0.26 |
| (1,416) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 16 | 0.26 |
| (1,416) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 16 | 0.26 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 18 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 18 | 0.26 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 4 | 0.26 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 6 | 0.26 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 17 | 0.26 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 18 | 0.26 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 18 | 0.26 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 18 | 0.26 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 8 | 0.26 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 8 | 0.26 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 8 | 0.26 |
| (1,270) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 5 | 0.26 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 1 | 0.26 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 5 | 0.26 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 7 | 0.26 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 12 | 0.26 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 3 | 0.26 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 1 | 0.26 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 15 | 0.26 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 15 | 0.26 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 11 | 0.26 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB2 | 16 | 0.26 |
| (1,154) | 1:63:A:LYS:H | 1:63:A:LYS:HB3 | 16 | 0.26 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 2 | 0.26 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 4 | 0.26 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 12 | 0.26 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 12 | 0.26 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 12 | 0.26 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 9 | 0.26 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 19 | 0.26 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 19 | 0.26 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 13 | 0.26 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 13 | 0.26 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 13 | 0.26 |
| (1,14) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 9 | 0.26 |
| (4,236) | 1:15:A:MET:CB | 1:99:A:GLY:H | 2 | 0.25 |
| (4,217) | 1:131:A:GLN:CB | 1:47:A:ASN:H | 7 | 0.25 |
| (3,762) | 1:3:A:ASP:HB2 | 1:5:A:GLU:HA | 8 | 0.25 |
| (3,762) | 1:3:A:ASP:HB3 | 1:5:A:GLU:HA | 8 | 0.25 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 8 | 0.25 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 10 | 0.25 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 8 | 0.25 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 8 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 8 | 0.25 |
| (3,338) | 1:54:A:ARG:HA | 1:127:A:ARG:HG3 | 8 | 0.25 |
| (3,300) | 1:28:A:ILE:HD11 | 1:30:A:ASN:HD22 | 16 | 0.25 |
| (3,300) | 1:28:A:ILE:HD12 | 1:30:A:ASN:HD22 | 16 | 0.25 |
| (3,300) | 1:28:A:ILE:HD13 | 1:30:A:ASN:HD22 | 16 | 0.25 |
| (3,282) | 1:26:A:ASN:HB2 | 1:30:A:ASN:H | 7 | 0.25 |
| (3,261) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 20 | 0.25 |
| (3,209) | 1:11:A:TRP:H | 1:26:A:ASN:HD21 | 8 | 0.25 |
| (3,209) | 1:11:A:TRP:H | 1:26:A:ASN:HD22 | 8 | 0.25 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 15 | 0.25 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 15 | 0.25 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 8 | 0.25 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 8 | 0.25 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 12 | 0.25 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 12 | 0.25 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 13 | 0.25 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 13 | 0.25 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 17 | 0.25 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 17 | 0.25 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 5 | 0.25 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 5 | 0.25 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 5 | 0.25 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 5 | 0.25 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 1 | 0.25 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 1 | 0.25 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 7 | 0.25 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 7 | 0.25 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 16 | 0.25 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 16 | 0.25 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 20 | 0.25 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 20 | 0.25 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 1 | 0.25 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 1 | 0.25 |
| (1,9353) | 1:111:A:SER:HB2 | 1:113:A:CYS:H | 11 | 0.25 |
| (1,9353) | 1:111:A:SER:HB3 | 1:113:A:CYS:H | 11 | 0.25 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 10 | 0.25 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 10 | 0.25 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 17 | 0.25 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 17 | 0.25 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 12 | 0.25 |
| (1,9244) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 12 | 0.25 |
| (1,9195) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 6 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9195) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 6 | 0.25 |
| (1,9111) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 5 | 0.25 |
| (1,9111) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 5 | 0.25 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 15 | 0.25 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 15 | 0.25 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD21 | 12 | 0.25 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD22 | 12 | 0.25 |
| (1,9041) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD23 | 12 | 0.25 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD21 | 12 | 0.25 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD22 | 12 | 0.25 |
| (1,9041) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD23 | 12 | 0.25 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 15 | 0.25 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 15 | 0.25 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 10 | 0.25 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 10 | 0.25 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 17 | 0.25 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 17 | 0.25 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 6 | 0.25 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 6 | 0.25 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 17 | 0.25 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 17 | 0.25 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 13 | 0.25 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 13 | 0.25 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 13 | 0.25 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 13 | 0.25 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 13 | 0.25 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 13 | 0.25 |
| (1,8786) | 1:56:A:ARG:HG2 | 1:163:A:GLU:H | 4 | 0.25 |
| (1,8786) | 1:56:A:ARG:HG3 | 1:163:A:GLU:H | 4 | 0.25 |
| (1,8753) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 19 | 0.25 |
| (1,8753) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 19 | 0.25 |
| (1,8697) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 13 | 0.25 |
| (1,8697) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 13 | 0.25 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 5 | 0.25 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 5 | 0.25 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 15 | 0.25 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 15 | 0.25 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 3 | 0.25 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 3 | 0.25 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 12 | 0.25 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 12 | 0.25 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 1 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 1 | 0.25 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 1 | 0.25 |
| (1,8220) | 1:108:A:SER:H | 1:111:A:SER:H | 15 | 0.25 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 6 | 0.25 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 8 | 0.25 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 11 | 0.25 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 15 | 0.25 |
| (1,7883) | 1:65:A:SER:H | 1:81:A:THR:H | 14 | 0.25 |
| (1,7863) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 8 | 0.25 |
| (1,7863) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 8 | 0.25 |
| (1,7863) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 8 | 0.25 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 10 | 0.25 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 13 | 0.25 |
| (1,7577) | 1:24:A:TYR:H | 1:25:A:PHE:HB2 | 12 | 0.25 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 3 | 0.25 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 1 | 0.25 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 1 | 0.25 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 7 | 0.25 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 7 | 0.25 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 18 | 0.25 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 18 | 0.25 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 18 | 0.25 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 18 | 0.25 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 18 | 0.25 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 18 | 0.25 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 18 | 0.25 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 18 | 0.25 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 18 | 0.25 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 6 | 0.25 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 6 | 0.25 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 4 | 0.25 |
| (1,7139) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HG2 | 20 | 0.25 |
| (1,7139) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HG2 | 20 | 0.25 |
| (1,7139) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HG2 | 20 | 0.25 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 14 | 0.25 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 4 | 0.25 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 4 | 0.25 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 4 | 0.25 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 16 | 0.25 |
| (1,7055) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 11 | 0.25 |
| (1,7055) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 16 | 0.25 |
| (1,7055) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 18 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 2 | 0.25 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 17 | 0.25 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 18 | 0.25 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 5 | 0.25 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 14 | 0.25 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 18 | 0.25 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 11 | 0.25 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 11 | 0.25 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 6 | 0.25 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 6 | 0.25 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 13 | 0.25 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 13 | 0.25 |
| (1,6935) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 12 | 0.25 |
| (1,6879) | 1:28:A:ILE:HB | 1:29:A:THR:H | 6 | 0.25 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 18 | 0.25 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 18 | 0.25 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 18 | 0.25 |
| (1,6837) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 20 | 0.25 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 20 | 0.25 |
| (1,6736) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 12 | 0.25 |
| (1,6732) | 1:21:A:ARG:HD3 | 1:34:A:TRP:H | 20 | 0.25 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 10 | 0.25 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 14 | 0.25 |
| (1,6692) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 14 | 0.25 |
| (1,6668) | 1:14:A:ARG:HA | 1:14:A:ARG:HG2 | 2 | 0.25 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 18 | 0.25 |
| (1,6634) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 13 | 0.25 |
| (1,6570) | 1:11:A:TRP:HA | 1:27:A:HIS:H | 15 | 0.25 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 6 | 0.25 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 7 | 0.25 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 3 | 0.25 |
| (1,6530) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB3 | 12 | 0.25 |
| (1,6530) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB3 | 12 | 0.25 |
| (1,6530) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB3 | 12 | 0.25 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 7 | 0.25 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 16 | 0.25 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 17 | 0.25 |
| (1,6498) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 10 | 0.25 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 7 | 0.25 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 20 | 0.25 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 20 | 0.25 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 20 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 20 | 0.25 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 20 | 0.25 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 20 | 0.25 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 20 | 0.25 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 20 | 0.25 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 20 | 0.25 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 13 | 0.25 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 13 | 0.25 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 13 | 0.25 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 3 | 0.25 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 3 | 0.25 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 3 | 0.25 |
| (1,6384) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 15 | 0.25 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 17 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 2 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 2 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 2 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 4 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 4 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 4 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 8 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 8 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 8 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 12 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 12 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 12 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD11 | 15 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD12 | 15 | 0.25 |
| (1,6360) | 1:156:A:ILE:HB | 1:156:A:ILE:HD13 | 15 | 0.25 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 18 | 0.25 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 18 | 0.25 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 18 | 0.25 |
| (1,6313) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 15 | 0.25 |
| (1,6313) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 15 | 0.25 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 6 | 0.25 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 6 | 0.25 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 6 | 0.25 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 6 | 0.25 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 6 | 0.25 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 6 | 0.25 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 6 | 0.25 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 6 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 6 | 0.25 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 3 | 0.25 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 14 | 0.25 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 4 | 0.25 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 15 | 0.25 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 15 | 0.25 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 15 | 0.25 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 19 | 0.25 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 19 | 0.25 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 19 | 0.25 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 13 | 0.25 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 13 | 0.25 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 7 | 0.25 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 10 | 0.25 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 17 | 0.25 |
| (1,6122) | 1:139:A:PHE:H | 1:140:A:ALA:H | 18 | 0.25 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 14 | 0.25 |
| (1,6107) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 16 | 0.25 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 15 | 0.25 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 18 | 0.25 |
| (1,6000) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 19 | 0.25 |
| (1,5988) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 10 | 0.25 |
| (1,5988) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 19 | 0.25 |
| (1,5973) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 9 | 0.25 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 20 | 0.25 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 20 | 0.25 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 20 | 0.25 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 5 | 0.25 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 5 | 0.25 |
| (1,5908) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 19 | 0.25 |
| (1,5908) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 19 | 0.25 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD21 | 10 | 0.25 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD22 | 10 | 0.25 |
| (1,5883) | 1:115:A:SER:H | 1:122:A:LEU:HD23 | 10 | 0.25 |
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 1 | 0.25 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 1 | 0.25 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 1 | 0.25 |
| (1,5830) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 1 | 0.25 |
| (1,5830) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 1 | 0.25 |
| (1,5830) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 1 | 0.25 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 8 | 0.25 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 17 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 6 | 0.25 |
| (1,5806) | 1:111:A:SER:H | 1:116:A:ALA:HA | 17 | 0.25 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 10 | 0.25 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 17 | 0.25 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 17 | 0.25 |
| (1,5777) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 19 | 0.25 |
| (1,5743) | 1:109:A:GLN:H | 1:109:A:GLN:HG3 | 8 | 0.25 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 3 | 0.25 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 4 | 0.25 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 4 | 0.25 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 4 | 0.25 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 2 | 0.25 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 15 | 0.25 |
| (1,5644) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 3 | 0.25 |
| (1,5644) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 6 | 0.25 |
| (1,5644) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 0.25 |
| (1,5644) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 15 | 0.25 |
| (1,5631) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 2 | 0.25 |
| (1,5631) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 2 | 0.25 |
| (1,5631) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 2 | 0.25 |
| (1,5595) | 1:100:A:GLU:H | 1:101:A:GLU:H | 18 | 0.25 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 4 | 0.25 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 5 | 0.25 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 14 | 0.25 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 16 | 0.25 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 2 | 0.25 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 5 | 0.25 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 5 | 0.25 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 5 | 0.25 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 6 | 0.25 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 8 | 0.25 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 5 | 0.25 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 5 | 0.25 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 5 | 0.25 |
| (1,5524) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 5 | 0.25 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 9 | 0.25 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 9 | 0.25 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 9 | 0.25 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 13 | 0.25 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 5 | 0.25 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 15 | 0.25 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 19 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE1 | 16 | 0.25 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE2 | 16 | 0.25 |
| (1,5455) | 1:93:A:ILE:HA | 1:146:A:MET:HE3 | 16 | 0.25 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 4 | 0.25 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 4 | 0.25 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 4 | 0.25 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 18 | 0.25 |
| (1,5239) | 1:86:A:LEU:HA | 1:90:A:ASN:H | 9 | 0.25 |
| (1,5165) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 7 | 0.25 |
| (1,5165) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 10 | 0.25 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 6 | 0.25 |
| (1,5147) | 1:82:A:LYS:H | 1:82:A:LYS:HB2 | 9 | 0.25 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 11 | 0.25 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 20 | 0.25 |
| (1,4996) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 5 | 0.25 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 5 | 0.25 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 12 | 0.25 |
| (1,4915) | 1:64:A:HIS:HD2 | 1:82:A:LYS:HA | 5 | 0.25 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 7 | 0.25 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 10 | 0.25 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 5 | 0.25 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 5 | 0.25 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 5 | 0.25 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 18 | 0.25 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 18 | 0.25 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 18 | 0.25 |
| (1,4852) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 3 | 0.25 |
| (1,4852) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 3 | 0.25 |
| (1,4852) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 3 | 0.25 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 4 | 0.25 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 6 | 0.25 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 6 | 0.25 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 6 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 6 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 6 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 6 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 6 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 6 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 6 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 6 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 6 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 6 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 10 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 10 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 10 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 10 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 10 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 10 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 10 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 10 | 0.25 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 10 | 0.25 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 13 | 0.25 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 13 | 0.25 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 13 | 0.25 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 13 | 0.25 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 13 | 0.25 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 13 | 0.25 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 13 | 0.25 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 13 | 0.25 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 13 | 0.25 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 14 | 0.25 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 2 | 0.25 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 17 | 0.25 |
| (1,4680) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 8 | 0.25 |
| (1,4680) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 8 | 0.25 |
| (1,4680) | 1:54:A:ARG:HB2 | 1:55:A:VAL:H | 12 | 0.25 |
| (1,4680) | 1:54:A:ARG:HB3 | 1:55:A:VAL:H | 12 | 0.25 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 15 | 0.25 |
| (1,4635) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 6 | 0.25 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 13 | 0.25 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 13 | 0.25 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 20 | 0.25 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 20 | 0.25 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 12 | 0.25 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 12 | 0.25 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 18 | 0.25 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 18 | 0.25 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 8 | 0.25 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 8 | 0.25 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 11 | 0.25 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 11 | 0.25 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 17 | 0.25 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 17 | 0.25 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 5 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 5 | 0.25 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 15 | 0.25 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 15 | 0.25 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 17 | 0.25 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 17 | 0.25 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 14 | 0.25 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 14 | 0.25 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 6 | 0.25 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 6 | 0.25 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 2 | 0.25 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 2 | 0.25 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 5 | 0.25 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 5 | 0.25 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 11 | 0.25 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 11 | 0.25 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 18 | 0.25 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 18 | 0.25 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 13 | 0.25 |
| (1,3867) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 15 | 0.25 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG2 | 18 | 0.25 |
| (1,3817) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HG3 | 18 | 0.25 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG2 | 18 | 0.25 |
| (1,3817) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HG3 | 18 | 0.25 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG2 | 18 | 0.25 |
| (1,3817) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HG3 | 18 | 0.25 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 1 | 0.25 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 1 | 0.25 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 15 | 0.25 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 15 | 0.25 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 10 | 0.25 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 10 | 0.25 |
| (1,3573) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 3 | 0.25 |
| (1,3573) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 3 | 0.25 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 17 | 0.25 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 17 | 0.25 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 6 | 0.25 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 6 | 0.25 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 9 | 0.25 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 9 | 0.25 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 2 | 0.25 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 2 | 0.25 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 16 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 16 | 0.25 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 5 | 0.25 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 5 | 0.25 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 5 | 0.25 |
| (1,3443) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 16 | 0.25 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 4 | 0.25 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 4 | 0.25 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 4 | 0.25 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 9 | 0.25 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 20 | 0.25 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 8 | 0.25 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 19 | 0.25 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 4 | 0.25 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 16 | 0.25 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 19 | 0.25 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 17 | 0.25 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 17 | 0.25 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 20 | 0.25 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 6 | 0.25 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 6 | 0.25 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 18 | 0.25 |
| (1,3029) | 1:7:A:LEU:HD21 | 1:36:A:ARG:HA | 9 | 0.25 |
| (1,3029) | 1:7:A:LEU:HD22 | 1:36:A:ARG:HA | 9 | 0.25 |
| (1,3029) | 1:7:A:LEU:HD23 | 1:36:A:ARG:HA | 9 | 0.25 |
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 18 | 0.25 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 16 | 0.25 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 2 | 0.25 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 2 | 0.25 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 2 | 0.25 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 20 | 0.25 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 20 | 0.25 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 20 | 0.25 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 13 | 0.25 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 13 | 0.25 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 13 | 0.25 |
| (1,2801) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 20 | 0.25 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 20 | 0.25 |
| (1,2709) | 1:23:A:TYR:HD1 | 1:25:A:PHE:H | 1 | 0.25 |
| (1,2709) | 1:23:A:TYR:HD2 | 1:25:A:PHE:H | 1 | 0.25 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 11 | 0.25 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 15 | 0.25 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 8 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 8 | 0.25 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 18 | 0.25 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 18 | 0.25 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 10 | 0.25 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 2 | 0.25 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 2 | 0.25 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 14 | 0.25 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 14 | 0.25 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 15 | 0.25 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 15 | 0.25 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 15 | 0.25 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 15 | 0.25 |
| (1,2499) | 1:13:A:LYS:H | 1:13:A:LYS:HB3 | 13 | 0.25 |
| (1,2431) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB2 | 5 | 0.25 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 11 | 0.25 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 7 | 0.25 |
| (1,2401) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 15 | 0.25 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 3 | 0.25 |
| (1,2339) | 1:6:A:LYS:H | 1:7:A:LEU:H | 18 | 0.25 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 18 | 0.25 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 12 | 0.25 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 9 | 0.25 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 15 | 0.25 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 9 | 0.25 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 9 | 0.25 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 9 | 0.25 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 13 | 0.25 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 19 | 0.25 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 18 | 0.25 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 18 | 0.25 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 18 | 0.25 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 7 | 0.25 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 3 | 0.25 |
| (1,2175) | 1:160:A:LEU:HD21 | 1:161:A:ARG:H | 14 | 0.25 |
| (1,2175) | 1:160:A:LEU:HD22 | 1:161:A:ARG:H | 14 | 0.25 |
| (1,2175) | 1:160:A:LEU:HD23 | 1:161:A:ARG:H | 14 | 0.25 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 5 | 0.25 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 5 | 0.25 |
| (1,2133) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 5 | 0.25 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 6 | 0.25 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 17 | 0.25 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 17 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 17 | 0.25 |
| (1,2087) | 1:158:A:ILE:H | 1:158:A:ILE:HB | 15 | 0.25 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 17 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 4 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 4 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 4 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 4 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 4 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 4 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 4 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 4 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 4 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 19 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 19 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 19 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 19 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 19 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 19 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 19 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 19 | 0.25 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 19 | 0.25 |
| (1,2031) | 1:155:A:GLY:HA2 | 1:156:A:ILE:H | 20 | 0.25 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 4 | 0.25 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 4 | 0.25 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 4 | 0.25 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 3 | 0.25 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 14 | 0.25 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 16 | 0.25 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 17 | 0.25 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 17 | 0.25 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 4 | 0.25 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 8 | 0.25 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 5 | 0.25 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 20 | 0.25 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 20 | 0.25 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 20 | 0.25 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 9 | 0.25 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 7 | 0.25 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 10 | 0.25 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 17 | 0.25 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 19 | 0.25 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 19 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 19 | 0.25 |
| (1,1709) | 1:139:A:PHE:H | 1:140:A:ALA:H | 18 | 0.25 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 14 | 0.25 |
| (1,1643) | 1:136:A:ASP:HA | 1:137:A:ALA:H | 19 | 0.25 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 4 | 0.25 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 4 | 0.25 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 4 | 0.25 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 8 | 0.25 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 11 | 0.25 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 19 | 0.25 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 11 | 0.25 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 11 | 0.25 |
| (1,1497) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 19 | 0.25 |
| (1,1489) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 3 | 0.25 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 9 | 0.25 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 9 | 0.25 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 9 | 0.25 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 9 | 0.25 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 13 | 0.25 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 12 | 0.25 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 15 | 0.25 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 16 | 0.25 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 7 | 0.25 |
| (1,1387) | 1:127:A:ARG:H | 1:127:A:ARG:HB2 | 10 | 0.25 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 19 | 0.25 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 6 | 0.25 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 6 | 0.25 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 13 | 0.25 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 14 | 0.25 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 16 | 0.25 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 9 | 0.25 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 14 | 0.25 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 13 | 0.25 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 8 | 0.25 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 8 | 0.25 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 8 | 0.25 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 17 | 0.25 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 6 | 0.25 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 10 | 0.25 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 4 | 0.25 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 5 | 0.25 |
| (1,1037) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 8 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 3 | 0.25 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 1 | 0.25 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 1 | 0.25 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 1 | 0.25 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 2 | 0.25 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 4 | 0.25 |
| (1,905) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 9 | 0.25 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 9 | 0.25 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 15 | 0.25 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 14 | 0.25 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 14 | 0.25 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 14 | 0.25 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 5 | 0.25 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 5 | 0.25 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 5 | 0.25 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 2 | 0.25 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 2 | 0.25 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 2 | 0.25 |
| (1,775) | 1:100:A:GLU:H | 1:101:A:GLU:H | 18 | 0.25 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 17 | 0.25 |
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 2 | 0.25 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 6 | 0.25 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 8 | 0.25 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 17 | 0.25 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 18 | 0.25 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 9 | 0.25 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 9 | 0.25 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 9 | 0.25 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 9 | 0.25 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 9 | 0.25 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 9 | 0.25 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 9 | 0.25 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 9 | 0.25 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 9 | 0.25 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 6 | 0.25 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 6 | 0.25 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 6 | 0.25 |
| (1,679) | 1:96:A:ILE:HB | 1:97:A:LYS:H | 5 | 0.25 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 8 | 0.25 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 5 | 0.25 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 15 | 0.25 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 19 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,621) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 2 | 0.25 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 19 | 0.25 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 1 | 0.25 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 5 | 0.25 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 7 | 0.25 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 19 | 0.25 |
| (1,563) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 4 | 0.25 |
| (1,563) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 4 | 0.25 |
| (1,563) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 4 | 0.25 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 15 | 0.25 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 15 | 0.25 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 15 | 0.25 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE1 | 8 | 0.25 |
| (1,525) | 1:88:A:LEU:HD21 | 1:92:A:TYR:HE2 | 8 | 0.25 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE1 | 8 | 0.25 |
| (1,525) | 1:88:A:LEU:HD22 | 1:92:A:TYR:HE2 | 8 | 0.25 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE1 | 8 | 0.25 |
| (1,525) | 1:88:A:LEU:HD23 | 1:92:A:TYR:HE2 | 8 | 0.25 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 3 | 0.25 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 3 | 0.25 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 3 | 0.25 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 3 | 0.25 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 3 | 0.25 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 3 | 0.25 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 7 | 0.25 |
| (1,500) | 1:92:A:TYR:HA | 1:93:A:ILE:H | 10 | 0.25 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 19 | 0.25 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 13 | 0.25 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 19 | 0.25 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 14 | 0.25 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 14 | 0.25 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 14 | 0.25 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 3 | 0.25 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 3 | 0.25 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 3 | 0.25 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 12 | 0.25 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 17 | 0.25 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 11 | 0.25 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 11 | 0.25 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 20 | 0.25 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 20 | 0.25 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 12 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 12 | 0.25 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 12 | 0.25 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 12 | 0.25 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 12 | 0.25 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 12 | 0.25 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 8 | 0.25 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 18 | 0.25 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 4 | 0.25 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 4 | 0.25 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 4 | 0.25 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 3 | 0.25 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 17 | 0.25 |
| (1,338) | 1:82:A:LYS:HA | 1:83:A:GLU:H | 17 | 0.25 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 11 | 0.25 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 6 | 0.25 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 6 | 0.25 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 6 | 0.25 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 19 | 0.25 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 19 | 0.25 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 19 | 0.25 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 20 | 0.25 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 12 | 0.25 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 2 | 0.25 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 17 | 0.25 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 9 | 0.25 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 10 | 0.25 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 12 | 0.25 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 13 | 0.25 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 13 | 0.25 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG2 | 4 | 0.25 |
| (1,181) | 1:66:A:GLN:HB3 | 1:66:A:GLN:HG3 | 4 | 0.25 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 12 | 0.25 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 13 | 0.25 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 13 | 0.25 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 13 | 0.25 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 14 | 0.25 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 13 | 0.25 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 13 | 0.25 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 13 | 0.25 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 2 | 0.25 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG2 | 11 | 0.25 |
| (1,32) | 1:54:A:ARG:HA | 1:54:A:ARG:HG3 | 11 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 3 | 0.25 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 3 | 0.25 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 6 | 0.25 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 6 | 0.25 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 6 | 0.25 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 15 | 0.25 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 18 | 0.25 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 18 | 0.25 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 18 | 0.25 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 5 | 0.25 |
| (1,14) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 6 | 0.25 |
| (4,246) | 1:15:A:MET:CB | 1:132:A:LYS:H | 3 | 0.24 |
| (4,239) | 1:15:A:MET:CB | 1:118:A:ALA:H | 6 | 0.24 |
| (4,160) | 1:98:A:SER:CB | 1:23:A:TYR:H | 4 | 0.24 |
| (4,132) | 1:90:A:ASN:CB | 1:38:A:SER:H | 12 | 0.24 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 15 | 0.24 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 15 | 0.24 |
| (3,1031) | 1:141:A:LEU:HB2 | 1:145:A:GLU:H | 18 | 0.24 |
| (3,1031) | 1:141:A:LEU:HB3 | 1:145:A:GLU:H | 18 | 0.24 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG12 | 5 | 0.24 |
| (3,964) | 1:103:A:PHE:HE1 | 1:158:A:ILE:HG13 | 5 | 0.24 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG12 | 5 | 0.24 |
| (3,964) | 1:103:A:PHE:HE2 | 1:158:A:ILE:HG13 | 5 | 0.24 |
| (3,931) | 1:92:A:TYR:H | 1:95:A:LYS:HG2 | 4 | 0.24 |
| (3,931) | 1:92:A:TYR:H | 1:95:A:LYS:HG3 | 4 | 0.24 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB2 | 4 | 0.24 |
| (3,863) | 1:71:A:SER:HA | 1:75:A:GLN:HB3 | 4 | 0.24 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG21 | 12 | 0.24 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG22 | 12 | 0.24 |
| (3,735) | 1:152:A:THR:H | 1:156:A:ILE:HG23 | 12 | 0.24 |
| (3,589) | 1:107:A:ALA:HA | 1:116:A:ALA:HA | 14 | 0.24 |
| (3,578) | 1:105:A:SER:HA | 1:119:A:ARG:HA | 17 | 0.24 |
| (3,409) | 1:61:A:LEU:H | 1:157:A:HIS:H | 7 | 0.24 |
| (3,329) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 11 | 0.24 |
| (3,329) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 11 | 0.24 |
| (3,297) | 1:28:A:ILE:HB | 1:30:A:ASN:H | 7 | 0.24 |
| (3,254) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 11 | 0.24 |
| (3,254) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 11 | 0.24 |
| (3,254) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 11 | 0.24 |
| (3,91) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 10 | 0.24 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD11 | 20 | 0.24 |
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD12 | 20 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,83) | 1:146:A:MET:HE1 | 1:158:A:ILE:HD13 | 20 | 0.24 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD11 | 20 | 0.24 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD12 | 20 | 0.24 |
| (3,83) | 1:146:A:MET:HE2 | 1:158:A:ILE:HD13 | 20 | 0.24 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD11 | 20 | 0.24 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD12 | 20 | 0.24 |
| (3,83) | 1:146:A:MET:HE3 | 1:158:A:ILE:HD13 | 20 | 0.24 |
| (3,65) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 15 | 0.24 |
| (3,65) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 15 | 0.24 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 8 | 0.24 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 8 | 0.24 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 8 | 0.24 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 11 | 0.24 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 11 | 0.24 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 11 | 0.24 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 19 | 0.24 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 19 | 0.24 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 19 | 0.24 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 18 | 0.24 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 18 | 0.24 |
| (1,9559) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 2 | 0.24 |
| (1,9559) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 2 | 0.24 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 11 | 0.24 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 11 | 0.24 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 12 | 0.24 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 12 | 0.24 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 12 | 0.24 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 12 | 0.24 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 12 | 0.24 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 12 | 0.24 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 19 | 0.24 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 19 | 0.24 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 19 | 0.24 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 19 | 0.24 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 19 | 0.24 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 19 | 0.24 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 10 | 0.24 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 10 | 0.24 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 16 | 0.24 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 16 | 0.24 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 6 | 0.24 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 6 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 8 | 0.24 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 8 | 0.24 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 5 | 0.24 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 5 | 0.24 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 3 | 0.24 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 3 | 0.24 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 14 | 0.24 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 14 | 0.24 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 14 | 0.24 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 14 | 0.24 |
| (1,9238) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE1 | 13 | 0.24 |
| (1,9238) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE2 | 13 | 0.24 |
| (1,9238) | 1:97:A:LYS:HD2 | 1:146:A:MET:HE3 | 13 | 0.24 |
| (1,9238) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE1 | 13 | 0.24 |
| (1,9238) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE2 | 13 | 0.24 |
| (1,9238) | 1:97:A:LYS:HD3 | 1:146:A:MET:HE3 | 13 | 0.24 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 11 | 0.24 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 11 | 0.24 |
| (1,9130) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG12 | 16 | 0.24 |
| (1,9130) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HG13 | 16 | 0.24 |
| (1,9130) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG12 | 16 | 0.24 |
| (1,9130) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HG13 | 16 | 0.24 |
| (1,9130) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG12 | 16 | 0.24 |
| (1,9130) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HG13 | 16 | 0.24 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 9 | 0.24 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 9 | 0.24 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 7 | 0.24 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 7 | 0.24 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 7 | 0.24 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 7 | 0.24 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 7 | 0.24 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 7 | 0.24 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE2 | 19 | 0.24 |
| (1,9007) | 1:77:A:LYS:HB2 | 1:77:A:LYS:HE3 | 19 | 0.24 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 19 | 0.24 |
| (1,9007) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 19 | 0.24 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 11 | 0.24 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 11 | 0.24 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 7 | 0.24 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 7 | 0.24 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 15 | 0.24 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 15 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 1 | 0.24 |
| (1,8961) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 1 | 0.24 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 9 | 0.24 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 9 | 0.24 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 13 | 0.24 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 13 | 0.24 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 18 | 0.24 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 18 | 0.24 |
| (1,8888) | 1:64:A:HIS:HB2 | 1:82:A:LYS:H | 16 | 0.24 |
| (1,8888) | 1:64:A:HIS:HB3 | 1:82:A:LYS:H | 16 | 0.24 |
| (1,8877) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 6 | 0.24 |
| (1,8877) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 6 | 0.24 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 5 | 0.24 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 5 | 0.24 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 19 | 0.24 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 19 | 0.24 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 9 | 0.24 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 9 | 0.24 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 14 | 0.24 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 14 | 0.24 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 6 | 0.24 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 6 | 0.24 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 18 | 0.24 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 18 | 0.24 |
| (1,8662) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HB2 | 18 | 0.24 |
| (1,8662) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HB2 | 18 | 0.24 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 11 | 0.24 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 11 | 0.24 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 11 | 0.24 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 11 | 0.24 |
| (1,8612) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 7 | 0.24 |
| (1,8612) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 7 | 0.24 |
| (1,8612) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 10 | 0.24 |
| (1,8612) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 10 | 0.24 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 11 | 0.24 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 11 | 0.24 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 15 | 0.24 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 15 | 0.24 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 15 | 0.24 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 15 | 0.24 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 15 | 0.24 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 15 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 11 | 0.24 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 11 | 0.24 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 11 | 0.24 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 11 | 0.24 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 11 | 0.24 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 11 | 0.24 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 18 | 0.24 |
| (1,8150) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD21 | 4 | 0.24 |
| (1,8150) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD22 | 4 | 0.24 |
| (1,8150) | 1:96:A:ILE:HD11 | 1:106:A:LEU:HD23 | 4 | 0.24 |
| (1,8150) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD21 | 4 | 0.24 |
| (1,8150) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD22 | 4 | 0.24 |
| (1,8150) | 1:96:A:ILE:HD12 | 1:106:A:LEU:HD23 | 4 | 0.24 |
| (1,8150) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD21 | 4 | 0.24 |
| (1,8150) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD22 | 4 | 0.24 |
| (1,8150) | 1:96:A:ILE:HD13 | 1:106:A:LEU:HD23 | 4 | 0.24 |
| (1,8128) | 1:95:A:LYS:H | 1:99:A:GLY:H | 10 | 0.24 |
| (1,8124) | 1:94:A:GLN:HA | 1:97:A:LYS:HG3 | 12 | 0.24 |
| (1,7985) | 1:78:A:ILE:H | 1:80:A:ARG:H | 9 | 0.24 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 13 | 0.24 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 13 | 0.24 |
| (1,7694) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 20 | 0.24 |
| (1,7694) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 20 | 0.24 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 11 | 0.24 |
| (1,7549) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 6 | 0.24 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 15 | 0.24 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 15 | 0.24 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 15 | 0.24 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 7 | 0.24 |
| (1,7354) | 1:95:A:LYS:H | 1:95:A:LYS:HG2 | 6 | 0.24 |
| (1,7344) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 10 | 0.24 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 16 | 0.24 |
| (1,7286) | 1:15:A:MET:H | 1:15:A:MET:HG2 | 5 | 0.24 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD21 | 20 | 0.24 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD22 | 20 | 0.24 |
| (1,7259) | 1:29:A:THR:HG21 | 1:141:A:LEU:HD23 | 20 | 0.24 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD21 | 20 | 0.24 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD22 | 20 | 0.24 |
| (1,7259) | 1:29:A:THR:HG22 | 1:141:A:LEU:HD23 | 20 | 0.24 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD21 | 20 | 0.24 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD22 | 20 | 0.24 |
| (1,7259) | 1:29:A:THR:HG23 | 1:141:A:LEU:HD23 | 20 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 3 | 0.24 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 3 | 0.24 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 16 | 0.24 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 16 | 0.24 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 2 | 0.24 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 2 | 0.24 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 2 | 0.24 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 3 | 0.24 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 3 | 0.24 |
| (1,7073) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 1 | 0.24 |
| (1,7073) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 1 | 0.24 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 13 | 0.24 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 13 | 0.24 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 7 | 0.24 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 7 | 0.24 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 2 | 0.24 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 14 | 0.24 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 17 | 0.24 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 17 | 0.24 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 4 | 0.24 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 4 | 0.24 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 12 | 0.24 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 13 | 0.24 |
| (1,6931) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 2 | 0.24 |
| (1,6929) | 1:32:A:SER:HA | 1:33:A:GLN:H | 15 | 0.24 |
| (1,6921) | 1:31:A:ALA:H | 1:32:A:SER:H | 6 | 0.24 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 16 | 0.24 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 16 | 0.24 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 16 | 0.24 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 12 | 0.24 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 3 | 0.24 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 3 | 0.24 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 3 | 0.24 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 13 | 0.24 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 13 | 0.24 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 13 | 0.24 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 3 | 0.24 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 3 | 0.24 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 3 | 0.24 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 6 | 0.24 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 6 | 0.24 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 6 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6879) | 1:28:A:ILE:HB | 1:29:A:THR:H | 3 | 0.24 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 15 | 0.24 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 16 | 0.24 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 1 | 0.24 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 20 | 0.24 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 20 | 0.24 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 20 | 0.24 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 9 | 0.24 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 8 | 0.24 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 12 | 0.24 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 5 | 0.24 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 3 | 0.24 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 4 | 0.24 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 9 | 0.24 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 11 | 0.24 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 3 | 0.24 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 8 | 0.24 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 20 | 0.24 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 5 | 0.24 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 9 | 0.24 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 15 | 0.24 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG21 | 13 | 0.24 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG22 | 13 | 0.24 |
| (1,6440) | 1:160:A:LEU:HD21 | 1:162:A:THR:HG23 | 13 | 0.24 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG21 | 13 | 0.24 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG22 | 13 | 0.24 |
| (1,6440) | 1:160:A:LEU:HD22 | 1:162:A:THR:HG23 | 13 | 0.24 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG21 | 13 | 0.24 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG22 | 13 | 0.24 |
| (1,6440) | 1:160:A:LEU:HD23 | 1:162:A:THR:HG23 | 13 | 0.24 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 14 | 0.24 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 19 | 0.24 |
| (1,6340) | 1:154:A:SER:H | 1:155:A:GLY:H | 20 | 0.24 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 1 | 0.24 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 11 | 0.24 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 17 | 0.24 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 18 | 0.24 |
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 8 | 0.24 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 10 | 0.24 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 17 | 0.24 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 17 | 0.24 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 17 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 10 | 0.24 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 10 | 0.24 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 16 | 0.24 |
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 10 | 0.24 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 10 | 0.24 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 10 | 0.24 |
| (1,6122) | 1:139:A:PHE:H | 1:140:A:ALA:H | 15 | 0.24 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 7 | 0.24 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 11 | 0.24 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 2 | 0.24 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 2 | 0.24 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 2 | 0.24 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 2 | 0.24 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 2 | 0.24 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 2 | 0.24 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 2 | 0.24 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 2 | 0.24 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 2 | 0.24 |
| (1,6087) | 1:137:A:ALA:H | 1:159:A:ILE:HD11 | 10 | 0.24 |
| (1,6087) | 1:137:A:ALA:H | 1:159:A:ILE:HD12 | 10 | 0.24 |
| (1,6087) | 1:137:A:ALA:H | 1:159:A:ILE:HD13 | 10 | 0.24 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 5 | 0.24 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 16 | 0.24 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 15 | 0.24 |
| (1,6077) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 5 | 0.24 |
| (1,6077) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 5 | 0.24 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 7 | 0.24 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 7 | 0.24 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 16 | 0.24 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 16 | 0.24 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 20 | 0.24 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 20 | 0.24 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 1 | 0.24 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 7 | 0.24 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 19 | 0.24 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 2 | 0.24 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 6 | 0.24 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 6 | 0.24 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 6 | 0.24 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 1 | 0.24 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 9 | 0.24 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 10 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5832) | 1:118:A:ALA:HB1 | 1:121:A:ASP:H | 4 | 0.24 |
| (1,5832) | 1:118:A:ALA:HB2 | 1:121:A:ASP:H | 4 | 0.24 |
| (1,5832) | 1:118:A:ALA:HB3 | 1:121:A:ASP:H | 4 | 0.24 |
| (1,5828) | 1:118:A:ALA:H | 1:121:A:ASP:H | 9 | 0.24 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 7 | 0.24 |
| (1,5785) | 1:115:A:SER:H | 1:116:A:ALA:H | 7 | 0.24 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 3 | 0.24 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 3 | 0.24 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 3 | 0.24 |
| (1,5769) | 1:73:A:TRP:HE1 | 1:113:A:CYS:H | 10 | 0.24 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 5 | 0.24 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 16 | 0.24 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 17 | 0.24 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 16 | 0.24 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 16 | 0.24 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 16 | 0.24 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 8 | 0.24 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 13 | 0.24 |
| (1,5651) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 14 | 0.24 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 17 | 0.24 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 2 | 0.24 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 11 | 0.24 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG2 | 18 | 0.24 |
| (1,5603) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HG3 | 18 | 0.24 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 9 | 0.24 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 8 | 0.24 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 5 | 0.24 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 7 | 0.24 |
| (1,5507) | 1:96:A:ILE:H | 1:97:A:LYS:H | 10 | 0.24 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 3 | 0.24 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 3 | 0.24 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 3 | 0.24 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 1 | 0.24 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 9 | 0.24 |
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 14 | 0.24 |
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 14 | 0.24 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 14 | 0.24 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 10 | 0.24 |
| (1,5309) | 1:88:A:LEU:H | 1:88:A:LEU:HG | 19 | 0.24 |
| (1,5275) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG3 | 17 | 0.24 |
| (1,5275) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG3 | 17 | 0.24 |
| (1,5275) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG3 | 17 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5161) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 9 | 0.24 |
| (1,5157) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 7 | 0.24 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 14 | 0.24 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 14 | 0.24 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 14 | 0.24 |
| (1,5121) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 14 | 0.24 |
| (1,5054) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 14 | 0.24 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 17 | 0.24 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 4 | 0.24 |
| (1,5031) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 7 | 0.24 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 6 | 0.24 |
| (1,5010) | 1:73:A:TRP:HE1 | 1:116:A:ALA:H | 13 | 0.24 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 2 | 0.24 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 13 | 0.24 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 13 | 0.24 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 13 | 0.24 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 7 | 0.24 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 7 | 0.24 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 7 | 0.24 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 17 | 0.24 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 17 | 0.24 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 17 | 0.24 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 13 | 0.24 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 13 | 0.24 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 13 | 0.24 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 13 | 0.24 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 13 | 0.24 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 13 | 0.24 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 13 | 0.24 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 13 | 0.24 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 13 | 0.24 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 11 | 0.24 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 11 | 0.24 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 11 | 0.24 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 11 | 0.24 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 11 | 0.24 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 11 | 0.24 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 11 | 0.24 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 11 | 0.24 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 11 | 0.24 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 16 | 0.24 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 1 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 6 | 0.24 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 8 | 0.24 |
| (1,4769) | 1:58:A:SER:H | 1:160:A:LEU:H | 13 | 0.24 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 10 | 0.24 |
| (1,4702) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 18 | 0.24 |
| (1,4702) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 18 | 0.24 |
| (1,4702) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 18 | 0.24 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 19 | 0.24 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 4 | 0.24 |
| (1,4635) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 16 | 0.24 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 8 | 0.24 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 8 | 0.24 |
| (1,4621) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 11 | 0.24 |
| (1,4621) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 11 | 0.24 |
| (1,4545) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 13 | 0.24 |
| (1,4545) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 13 | 0.24 |
| (1,4545) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 13 | 0.24 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 7 | 0.24 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 7 | 0.24 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 17 | 0.24 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 17 | 0.24 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 11 | 0.24 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 11 | 0.24 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 15 | 0.24 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 15 | 0.24 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB2 | 14 | 0.24 |
| (1,4393) | 1:126:A:SER:HA | 1:126:A:SER:HB3 | 14 | 0.24 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 2 | 0.24 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 2 | 0.24 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 11 | 0.24 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 11 | 0.24 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 15 | 0.24 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 15 | 0.24 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 3 | 0.24 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 3 | 0.24 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 6 | 0.24 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 6 | 0.24 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 7 | 0.24 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 7 | 0.24 |
| (1,4089) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 2 | 0.24 |
| (1,4089) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 2 | 0.24 |
| (1,4089) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 2 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 6 | 0.24 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 6 | 0.24 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 14 | 0.24 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 14 | 0.24 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 2 | 0.24 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 2 | 0.24 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 5 | 0.24 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 5 | 0.24 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 14 | 0.24 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 14 | 0.24 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 2 | 0.24 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 2 | 0.24 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 11 | 0.24 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 11 | 0.24 |
| (1,3877) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 10 | 0.24 |
| (1,3877) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 10 | 0.24 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 5 | 0.24 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 5 | 0.24 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 15 | 0.24 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 15 | 0.24 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 3 | 0.24 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 3 | 0.24 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 13 | 0.24 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 13 | 0.24 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 7 | 0.24 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 7 | 0.24 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 15 | 0.24 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 15 | 0.24 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 9 | 0.24 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 9 | 0.24 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 9 | 0.24 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 9 | 0.24 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 9 | 0.24 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 9 | 0.24 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 5 | 0.24 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 5 | 0.24 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 15 | 0.24 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 15 | 0.24 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 19 | 0.24 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE1 | 12 | 0.24 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE2 | 12 | 0.24 |
| (1,3351) | 1:97:A:LYS:HG2 | 1:146:A:MET:HE3 | 12 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 3 | 0.24 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 19 | 0.24 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 19 | 0.24 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 19 | 0.24 |
| (1,3147) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 14 | 0.24 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 3 | 0.24 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 10 | 0.24 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 12 | 0.24 |
| (1,3131) | 1:49:A:GLN:H | 1:49:A:GLN:HA | 20 | 0.24 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 3 | 0.24 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 1 | 0.24 |
| (1,3061) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 14 | 0.24 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 16 | 0.24 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 6 | 0.24 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 14 | 0.24 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 12 | 0.24 |
| (1,2949) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 2 | 0.24 |
| (1,2945) | 1:32:A:SER:HA | 1:33:A:GLN:H | 15 | 0.24 |
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 14 | 0.24 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 12 | 0.24 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 14 | 0.24 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 14 | 0.24 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 14 | 0.24 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 12 | 0.24 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 12 | 0.24 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 12 | 0.24 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 15 | 0.24 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 16 | 0.24 |
| (1,2817) | 1:26:A:ASN:HB2 | 1:31:A:ALA:H | 16 | 0.24 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 1 | 0.24 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 13 | 0.24 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 13 | 0.24 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 13 | 0.24 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 9 | 0.24 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 1 | 0.24 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 1 | 0.24 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 5 | 0.24 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 5 | 0.24 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 5 | 0.24 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 5 | 0.24 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 5 | 0.24 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 5 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 5 | 0.24 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 5 | 0.24 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 5 | 0.24 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 7 | 0.24 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 9 | 0.24 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 9 | 0.24 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 9 | 0.24 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 12 | 0.24 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 12 | 0.24 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 4 | 0.24 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 3 | 0.24 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 4 | 0.24 |
| (1,2585) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 15 | 0.24 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 17 | 0.24 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 17 | 0.24 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 17 | 0.24 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 17 | 0.24 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 13 | 0.24 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 13 | 0.24 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 20 | 0.24 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 20 | 0.24 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 11 | 0.24 |
| (1,2483) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 5 | 0.24 |
| (1,2481) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 17 | 0.24 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 1 | 0.24 |
| (1,2413) | 1:10:A:GLY:H | 1:10:A:GLY:HA3 | 2 | 0.24 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD11 | 16 | 0.24 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD12 | 16 | 0.24 |
| (1,2411) | 1:10:A:GLY:HA2 | 1:28:A:ILE:HD13 | 16 | 0.24 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 10 | 0.24 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 10 | 0.24 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 10 | 0.24 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD21 | 13 | 0.24 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD22 | 13 | 0.24 |
| (1,2355) | 1:7:A:LEU:HA | 1:7:A:LEU:HD23 | 13 | 0.24 |
| (1,2339) | 1:6:A:LYS:H | 1:7:A:LEU:H | 17 | 0.24 |
| (1,2325) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 9 | 0.24 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 6 | 0.24 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 8 | 0.24 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 14 | 0.24 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 11 | 0.24 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 17 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 6 | 0.24 |
| (1,2261) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 9 | 0.24 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 15 | 0.24 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 10 | 0.24 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 19 | 0.24 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 14 | 0.24 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 14 | 0.24 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 14 | 0.24 |
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 19 | 0.24 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 5 | 0.24 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 14 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 15 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 15 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 15 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 15 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 15 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 15 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 15 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 15 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 15 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 16 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 16 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 16 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 16 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 16 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 16 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 16 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 16 | 0.24 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 16 | 0.24 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 1 | 0.24 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 11 | 0.24 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 17 | 0.24 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 3 | 0.24 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 3 | 0.24 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 3 | 0.24 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 12 | 0.24 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 12 | 0.24 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 12 | 0.24 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 18 | 0.24 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 17 | 0.24 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 16 | 0.24 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 3 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 3 | 0.24 |
| (1,1893) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 3 | 0.24 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 15 | 0.24 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 5 | 0.24 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 5 | 0.24 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 5 | 0.24 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 17 | 0.24 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 17 | 0.24 |
| (1,1863) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 17 | 0.24 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 6 | 0.24 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 6 | 0.24 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 6 | 0.24 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 10 | 0.24 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 1 | 0.24 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 17 | 0.24 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 1 | 0.24 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 1 | 0.24 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 1 | 0.24 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 16 | 0.24 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD21 | 8 | 0.24 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD22 | 8 | 0.24 |
| (1,1745) | 1:140:A:ALA:HB1 | 1:141:A:LEU:HD23 | 8 | 0.24 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD21 | 8 | 0.24 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD22 | 8 | 0.24 |
| (1,1745) | 1:140:A:ALA:HB2 | 1:141:A:LEU:HD23 | 8 | 0.24 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD21 | 8 | 0.24 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD22 | 8 | 0.24 |
| (1,1745) | 1:140:A:ALA:HB3 | 1:141:A:LEU:HD23 | 8 | 0.24 |
| (1,1709) | 1:139:A:PHE:H | 1:140:A:ALA:H | 15 | 0.24 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 7 | 0.24 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 11 | 0.24 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 6 | 0.24 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 6 | 0.24 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 6 | 0.24 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 6 | 0.24 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 6 | 0.24 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 6 | 0.24 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 6 | 0.24 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 6 | 0.24 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 6 | 0.24 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 14 | 0.24 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 14 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 14 | 0.24 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 5 | 0.24 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 16 | 0.24 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 1 | 0.24 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 7 | 0.24 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 7 | 0.24 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 7 | 0.24 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 1 | 0.24 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 1 | 0.24 |
| (1,1489) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 4 | 0.24 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 8 | 0.24 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 9 | 0.24 |
| (1,1445) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 18 | 0.24 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 4 | 0.24 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 17 | 0.24 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 7 | 0.24 |
| (1,1393) | 1:127:A:ARG:HA | 1:127:A:ARG:HG2 | 7 | 0.24 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 5 | 0.24 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 11 | 0.24 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 17 | 0.24 |
| (1,1327) | 1:125:A:PHE:H | 1:126:A:SER:H | 18 | 0.24 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 1 | 0.24 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 7 | 0.24 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 8 | 0.24 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 10 | 0.24 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 17 | 0.24 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 9 | 0.24 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 10 | 0.24 |
| (1,1203) | 1:118:A:ALA:H | 1:121:A:ASP:H | 9 | 0.24 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 15 | 0.24 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 15 | 0.24 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 15 | 0.24 |
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 7 | 0.24 |
| (1,1137) | 1:115:A:SER:H | 1:116:A:ALA:H | 7 | 0.24 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 7 | 0.24 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 9 | 0.24 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 5 | 0.24 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB1 | 4 | 0.24 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB2 | 4 | 0.24 |
| (1,1101) | 1:111:A:SER:H | 1:116:A:ALA:HB3 | 4 | 0.24 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 5 | 0.24 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 20 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 13 | 0.24 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 15 | 0.24 |
| (1,1041) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 7 | 0.24 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 3 | 0.24 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 2 | 0.24 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 2 | 0.24 |
| (1,1025) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 2 | 0.24 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 18 | 0.24 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 18 | 0.24 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 18 | 0.24 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 8 | 0.24 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 13 | 0.24 |
| (1,991) | 1:105:A:SER:H | 1:107:A:ALA:H | 16 | 0.24 |
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 16 | 0.24 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 9 | 0.24 |
| (1,897) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 4 | 0.24 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 2 | 0.24 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 11 | 0.24 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 4 | 0.24 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 4 | 0.24 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 9 | 0.24 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 4 | 0.24 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 16 | 0.24 |
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 8 | 0.24 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 12 | 0.24 |
| (1,657) | 1:96:A:ILE:H | 1:97:A:LYS:H | 10 | 0.24 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 18 | 0.24 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 16 | 0.24 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 18 | 0.24 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 1 | 0.24 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 10 | 0.24 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 10 | 0.24 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 10 | 0.24 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 15 | 0.24 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 15 | 0.24 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 15 | 0.24 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 5 | 0.24 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 5 | 0.24 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 10 | 0.24 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 14 | 0.24 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 3 | 0.24 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 3 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 3 | 0.24 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 5 | 0.24 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 5 | 0.24 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 5 | 0.24 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 20 | 0.24 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 20 | 0.24 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 20 | 0.24 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 7 | 0.24 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 10 | 0.24 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 16 | 0.24 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 8 | 0.24 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 8 | 0.24 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 15 | 0.24 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 15 | 0.24 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 15 | 0.24 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 15 | 0.24 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 15 | 0.24 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 15 | 0.24 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 8 | 0.24 |
| (1,342) | 1:82:A:LYS:HB3 | 1:83:A:GLU:H | 9 | 0.24 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 8 | 0.24 |
| (1,335) | 1:82:A:LYS:H | 1:84:A:GLU:H | 18 | 0.24 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 15 | 0.24 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 17 | 0.24 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 17 | 0.24 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 17 | 0.24 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 12 | 0.24 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 12 | 0.24 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 12 | 0.24 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 16 | 0.24 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 16 | 0.24 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 16 | 0.24 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 7 | 0.24 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 7 | 0.24 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 7 | 0.24 |
| (1,272) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 14 | 0.24 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 17 | 0.24 |
| (1,254) | 1:76:A:GLU:HA | 1:77:A:LYS:H | 18 | 0.24 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 1 | 0.24 |
| (1,235) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 11 | 0.24 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 18 | 0.24 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 3 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 5 | 0.24 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 4 | 0.24 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 9 | 0.24 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 9 | 0.24 |
| (1,137) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 3 | 0.24 |
| (1,137) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 3 | 0.24 |
| (1,137) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 3 | 0.24 |
| (1,125) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 13 | 0.24 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 8 | 0.24 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 8 | 0.24 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 8 | 0.24 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 12 | 0.24 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 12 | 0.24 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 12 | 0.24 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 16 | 0.24 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 5 | 0.24 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 5 | 0.24 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 5 | 0.24 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 5 | 0.24 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 5 | 0.24 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 5 | 0.24 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 1 | 0.24 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 6 | 0.24 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 8 | 0.24 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 19 | 0.24 |
| (1,46) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 4 | 0.24 |
| (1,46) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 4 | 0.24 |
| (1,46) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 4 | 0.24 |
| (1,46) | 1:55:A:VAL:H | 1:55:A:VAL:HG21 | 4 | 0.24 |
| (1,46) | 1:55:A:VAL:H | 1:55:A:VAL:HG22 | 4 | 0.24 |
| (1,46) | 1:55:A:VAL:H | 1:55:A:VAL:HG23 | 4 | 0.24 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 9 | 0.24 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 9 | 0.24 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 9 | 0.24 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 9 | 0.24 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 3 | 0.24 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 3 | 0.24 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 3 | 0.24 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 3 | 0.24 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 3 | 0.24 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 3 | 0.24 |
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB2 | 8 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,29) | 1:54:A:ARG:H | 1:54:A:ARG:HB3 | 8 | 0.24 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 4 | 0.24 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 4 | 0.24 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 4 | 0.24 |
| (1,14) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 16 | 0.24 |
| (4,169) | 1:98:A:SER:CB | 1:36:A:ARG:H | 9 | 0.23 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE21 | 16 | 0.23 |
| (3,927) | 1:91:A:GLY:H | 1:94:A:GLN:HE22 | 16 | 0.23 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 12 | 0.23 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 12 | 0.23 |
| (3,699) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 20 | 0.23 |
| (3,699) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 20 | 0.23 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 1 | 0.23 |
| (3,492) | 1:86:A:LEU:HD11 | 1:150:A:VAL:H | 20 | 0.23 |
| (3,492) | 1:86:A:LEU:HD12 | 1:150:A:VAL:H | 20 | 0.23 |
| (3,492) | 1:86:A:LEU:HD13 | 1:150:A:VAL:H | 20 | 0.23 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 15 | 0.23 |
| (3,226) | 1:13:A:LYS:HA | 1:22:A:VAL:HG21 | 17 | 0.23 |
| (3,226) | 1:13:A:LYS:HA | 1:22:A:VAL:HG22 | 17 | 0.23 |
| (3,226) | 1:13:A:LYS:HA | 1:22:A:VAL:HG23 | 17 | 0.23 |
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 5 | 0.23 |
| (3,191) | 1:7:A:LEU:HG | 1:13:A:LYS:HA | 9 | 0.23 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 1 | 0.23 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 1 | 0.23 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 1 | 0.23 |
| (3,128) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HB3 | 15 | 0.23 |
| (3,128) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HB3 | 15 | 0.23 |
| (3,128) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HB3 | 15 | 0.23 |
| (3,104) | 1:23:A:TYR:HD1 | 1:33:A:GLN:HB2 | 19 | 0.23 |
| (3,104) | 1:23:A:TYR:HD2 | 1:33:A:GLN:HB2 | 19 | 0.23 |
| (3,90) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 9 | 0.23 |
| (3,90) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 9 | 0.23 |
| (3,90) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 9 | 0.23 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 3 | 0.23 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 3 | 0.23 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 3 | 0.23 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 9 | 0.23 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 9 | 0.23 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 5 | 0.23 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 5 | 0.23 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 4 | 0.23 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 4 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 8 | 0.23 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 8 | 0.23 |
| (1,9385) | 1:120:A:GLY:HA2 | 1:122:A:LEU:H | 10 | 0.23 |
| (1,9385) | 1:120:A:GLY:HA3 | 1:122:A:LEU:H | 10 | 0.23 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 17 | 0.23 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 17 | 0.23 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 17 | 0.23 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 17 | 0.23 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 17 | 0.23 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 17 | 0.23 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 16 | 0.23 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 16 | 0.23 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 11 | 0.23 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 11 | 0.23 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 6 | 0.23 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 6 | 0.23 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 6 | 0.23 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 6 | 0.23 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 3 | 0.23 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 3 | 0.23 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 11 | 0.23 |
| (1,9078) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 11 | 0.23 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 9 | 0.23 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 9 | 0.23 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 9 | 0.23 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 9 | 0.23 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 9 | 0.23 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 9 | 0.23 |
| (1,9013) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 10 | 0.23 |
| (1,9013) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 10 | 0.23 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 7 | 0.23 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 7 | 0.23 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 14 | 0.23 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 14 | 0.23 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 1 | 0.23 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 1 | 0.23 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 12 | 0.23 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 12 | 0.23 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 7 | 0.23 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 7 | 0.23 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 7 | 0.23 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 7 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 7 | 0.23 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 7 | 0.23 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 9 | 0.23 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 9 | 0.23 |
| (1,8753) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 7 | 0.23 |
| (1,8753) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 7 | 0.23 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 3 | 0.23 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 3 | 0.23 |
| (1,8681) | 1:42:A:SER:HB2 | 1:43:A:SER:H | 12 | 0.23 |
| (1,8681) | 1:42:A:SER:HB3 | 1:43:A:SER:H | 12 | 0.23 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 10 | 0.23 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 10 | 0.23 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 17 | 0.23 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 17 | 0.23 |
| (1,8546) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HA | 13 | 0.23 |
| (1,8546) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HA | 13 | 0.23 |
| (1,8425) | 1:143:A:THR:H | 1:145:A:GLU:H | 12 | 0.23 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 19 | 0.23 |
| (1,8040) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 6 | 0.23 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 1 | 0.23 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 4 | 0.23 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 9 | 0.23 |
| (1,7863) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HG | 3 | 0.23 |
| (1,7863) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HG | 3 | 0.23 |
| (1,7863) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HG | 3 | 0.23 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 6 | 0.23 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 6 | 0.23 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 9 | 0.23 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 16 | 0.23 |
| (1,7600) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 13 | 0.23 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 10 | 0.23 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 10 | 0.23 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 3 | 0.23 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 8 | 0.23 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 8 | 0.23 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 8 | 0.23 |
| (1,7326) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 9 | 0.23 |
| (1,7288) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 12 | 0.23 |
| (1,7225) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HG2 | 11 | 0.23 |
| (1,7182) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HB2 | 1 | 0.23 |
| (1,7182) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HB2 | 1 | 0.23 |
| (1,7182) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HB2 | 1 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 1 | 0.23 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 6 | 0.23 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 14 | 0.23 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD2 | 7 | 0.23 |
| (1,7145) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HD3 | 7 | 0.23 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD2 | 7 | 0.23 |
| (1,7145) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HD3 | 7 | 0.23 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD2 | 7 | 0.23 |
| (1,7145) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HD3 | 7 | 0.23 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 20 | 0.23 |
| (1,7109) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 5 | 0.23 |
| (1,7109) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 5 | 0.23 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 9 | 0.23 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 9 | 0.23 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 11 | 0.23 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 11 | 0.23 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 9 | 0.23 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 9 | 0.23 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 9 | 0.23 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 8 | 0.23 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 10 | 0.23 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 11 | 0.23 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 8 | 0.23 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 13 | 0.23 |
| (1,6992) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 4 | 0.23 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 7 | 0.23 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 7 | 0.23 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 6 | 0.23 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 6 | 0.23 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 8 | 0.23 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 20 | 0.23 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 20 | 0.23 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 20 | 0.23 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 19 | 0.23 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 19 | 0.23 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 19 | 0.23 |
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 4 | 0.23 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 1 | 0.23 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 16 | 0.23 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 19 | 0.23 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 13 | 0.23 |
| (1,6730) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 3 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6728) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 8 | 0.23 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 18 | 0.23 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 18 | 0.23 |
| (1,6630) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 13 | 0.23 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 3 | 0.23 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 13 | 0.23 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 8 | 0.23 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 11 | 0.23 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 4 | 0.23 |
| (1,6408) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 14 | 0.23 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 5 | 0.23 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 12 | 0.23 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 12 | 0.23 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 12 | 0.23 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 19 | 0.23 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 19 | 0.23 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 19 | 0.23 |
| (1,6338) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 4 | 0.23 |
| (1,6338) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 4 | 0.23 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 12 | 0.23 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 12 | 0.23 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 12 | 0.23 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 7 | 0.23 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 10 | 0.23 |
| (1,6293) | 1:150:A:VAL:HB | 1:151:A:PHE:H | 1 | 0.23 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 15 | 0.23 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 12 | 0.23 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 12 | 0.23 |
| (1,6238) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 12 | 0.23 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 20 | 0.23 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 5 | 0.23 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 4 | 0.23 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 4 | 0.23 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 3 | 0.23 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 3 | 0.23 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 3 | 0.23 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 7 | 0.23 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 7 | 0.23 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 7 | 0.23 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 13 | 0.23 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 13 | 0.23 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 13 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6147) | 1:140:A:ALA:HB1 | 1:141:A:LEU:H | 1 | 0.23 |
| (1,6147) | 1:140:A:ALA:HB2 | 1:141:A:LEU:H | 1 | 0.23 |
| (1,6147) | 1:140:A:ALA:HB3 | 1:141:A:LEU:H | 1 | 0.23 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 14 | 0.23 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 12 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 17 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 17 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 17 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 17 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 17 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 17 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 17 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 17 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 17 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 18 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 18 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 18 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 18 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 18 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 18 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 18 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 18 | 0.23 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 18 | 0.23 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG11 | 12 | 0.23 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG12 | 12 | 0.23 |
| (1,6085) | 1:137:A:ALA:H | 1:150:A:VAL:HG13 | 12 | 0.23 |
| (1,6083) | 1:137:A:ALA:H | 1:138:A:SER:H | 1 | 0.23 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 7 | 0.23 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 7 | 0.23 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 7 | 0.23 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 14 | 0.23 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 14 | 0.23 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 14 | 0.23 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 16 | 0.23 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 20 | 0.23 |
| (1,6008) | 1:131:A:GLN:HB2 | 1:132:A:LYS:H | 5 | 0.23 |
| (1,5995) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 11 | 0.23 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 18 | 0.23 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 7 | 0.23 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 7 | 0.23 |
| (1,5918) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 7 | 0.23 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 7 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 7 | 0.23 |
| (1,5918) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 7 | 0.23 |
| (1,5908) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 7 | 0.23 |
| (1,5908) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 7 | 0.23 |
| (1,5893) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 1 | 0.23 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 19 | 0.23 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 3 | 0.23 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 3 | 0.23 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 11 | 0.23 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 11 | 0.23 |
| (1,5791) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 11 | 0.23 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 4 | 0.23 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 4 | 0.23 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 17 | 0.23 |
| (1,5745) | 1:109:A:GLN:H | 1:110:A:PHE:H | 8 | 0.23 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 17 | 0.23 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 17 | 0.23 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 17 | 0.23 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 7 | 0.23 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 9 | 0.23 |
| (1,5724) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 18 | 0.23 |
| (1,5724) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 18 | 0.23 |
| (1,5724) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 18 | 0.23 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 17 | 0.23 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 17 | 0.23 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 17 | 0.23 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 1 | 0.23 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 18 | 0.23 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 20 | 0.23 |
| (1,5535) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 2 | 0.23 |
| (1,5535) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 2 | 0.23 |
| (1,5535) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 2 | 0.23 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 1 | 0.23 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 12 | 0.23 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 14 | 0.23 |
| (1,5394) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 12 | 0.23 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 16 | 0.23 |
| (1,5271) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 1 | 0.23 |
| (1,5271) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 1 | 0.23 |
| (1,5271) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 1 | 0.23 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 18 | 0.23 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 9 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 9 | 0.23 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 9 | 0.23 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 1 | 0.23 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 5 | 0.23 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 20 | 0.23 |
| (1,5033) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 3 | 0.23 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 10 | 0.23 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 12 | 0.23 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 2 | 0.23 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 17 | 0.23 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 20 | 0.23 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 20 | 0.23 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 20 | 0.23 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 3 | 0.23 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 3 | 0.23 |
| (1,4982) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 3 | 0.23 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 4 | 0.23 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 6 | 0.23 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 17 | 0.23 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 17 | 0.23 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 17 | 0.23 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 17 | 0.23 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 17 | 0.23 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 17 | 0.23 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 17 | 0.23 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 17 | 0.23 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 17 | 0.23 |
| (1,4856) | 1:61:A:LEU:HD21 | 1:113:A:CYS:H | 12 | 0.23 |
| (1,4856) | 1:61:A:LEU:HD22 | 1:113:A:CYS:H | 12 | 0.23 |
| (1,4856) | 1:61:A:LEU:HD23 | 1:113:A:CYS:H | 12 | 0.23 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 1 | 0.23 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 1 | 0.23 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 1 | 0.23 |
| (1,4850) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 12 | 0.23 |
| (1,4850) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 12 | 0.23 |
| (1,4850) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 12 | 0.23 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 14 | 0.23 |
| (1,4747) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 5 | 0.23 |
| (1,4728) | 1:56:A:ARG:H | 1:163:A:GLU:H | 3 | 0.23 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 2 | 0.23 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 2 | 0.23 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 2 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 6 | 0.23 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 6 | 0.23 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 6 | 0.23 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 6 | 0.23 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 16 | 0.23 |
| (1,4635) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 20 | 0.23 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 1 | 0.23 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 1 | 0.23 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 6 | 0.23 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 6 | 0.23 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 18 | 0.23 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 18 | 0.23 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 8 | 0.23 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 8 | 0.23 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 20 | 0.23 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 0.23 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 13 | 0.23 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 13 | 0.23 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 11 | 0.23 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 11 | 0.23 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 17 | 0.23 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 17 | 0.23 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 12 | 0.23 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 12 | 0.23 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 14 | 0.23 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 14 | 0.23 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 20 | 0.23 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 20 | 0.23 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 17 | 0.23 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 17 | 0.23 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 8 | 0.23 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 8 | 0.23 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 14 | 0.23 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 14 | 0.23 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 8 | 0.23 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 8 | 0.23 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 8 | 0.23 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 8 | 0.23 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 8 | 0.23 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 8 | 0.23 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 3 | 0.23 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 3 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 15 | 0.23 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 15 | 0.23 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 9 | 0.23 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 9 | 0.23 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 15 | 0.23 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 15 | 0.23 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 1 | 0.23 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 1 | 0.23 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 18 | 0.23 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 18 | 0.23 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 3 | 0.23 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 3 | 0.23 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 1 | 0.23 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 1 | 0.23 |
| (1,3845) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 4 | 0.23 |
| (1,3845) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 4 | 0.23 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 17 | 0.23 |
| (1,3815) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 17 | 0.23 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 13 | 0.23 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 13 | 0.23 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 8 | 0.23 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 8 | 0.23 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB2 | 19 | 0.23 |
| (1,3721) | 1:54:A:ARG:HD2 | 1:126:A:SER:HB3 | 19 | 0.23 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB2 | 19 | 0.23 |
| (1,3721) | 1:54:A:ARG:HD3 | 1:126:A:SER:HB3 | 19 | 0.23 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 12 | 0.23 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 12 | 0.23 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 8 | 0.23 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 8 | 0.23 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 8 | 0.23 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 8 | 0.23 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 8 | 0.23 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 8 | 0.23 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 16 | 0.23 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 16 | 0.23 |
| (1,3563) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 16 | 0.23 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 1 | 0.23 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 1 | 0.23 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 2 | 0.23 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 2 | 0.23 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 7 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 7 | 0.23 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 9 | 0.23 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 9 | 0.23 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 5 | 0.23 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 5 | 0.23 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 6 | 0.23 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 6 | 0.23 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 12 | 0.23 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 12 | 0.23 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 17 | 0.23 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 17 | 0.23 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 16 | 0.23 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 16 | 0.23 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 16 | 0.23 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 16 | 0.23 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 16 | 0.23 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 16 | 0.23 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 16 | 0.23 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 16 | 0.23 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 16 | 0.23 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 14 | 0.23 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 14 | 0.23 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 15 | 0.23 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 3 | 0.23 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 9 | 0.23 |
| (1,3177) | 1:76:A:GLU:HB3 | 1:77:A:LYS:H | 6 | 0.23 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 11 | 0.23 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 11 | 0.23 |
| (1,3119) | 1:47:A:ASN:HA | 1:48:A:GLY:H | 13 | 0.23 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 11 | 0.23 |
| (1,3077) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 13 | 0.23 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 9 | 0.23 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 20 | 0.23 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 20 | 0.23 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 8 | 0.23 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 13 | 0.23 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 4 | 0.23 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 4 | 0.23 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 1 | 0.23 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 1 | 0.23 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 1 | 0.23 |
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 4 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 19 | 0.23 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 8 | 0.23 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 11 | 0.23 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 11 | 0.23 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 11 | 0.23 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 14 | 0.23 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 14 | 0.23 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 14 | 0.23 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 18 | 0.23 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 18 | 0.23 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 18 | 0.23 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 18 | 0.23 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 11 | 0.23 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 11 | 0.23 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 11 | 0.23 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 4 | 0.23 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 1 | 0.23 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 13 | 0.23 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 13 | 0.23 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 5 | 0.23 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 5 | 0.23 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 11 | 0.23 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 11 | 0.23 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD1 | 6 | 0.23 |
| (1,2737) | 1:7:A:LEU:HD11 | 1:24:A:TYR:HD2 | 6 | 0.23 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD1 | 6 | 0.23 |
| (1,2737) | 1:7:A:LEU:HD12 | 1:24:A:TYR:HD2 | 6 | 0.23 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD1 | 6 | 0.23 |
| (1,2737) | 1:7:A:LEU:HD13 | 1:24:A:TYR:HD2 | 6 | 0.23 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 11 | 0.23 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 13 | 0.23 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 6 | 0.23 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 6 | 0.23 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 6 | 0.23 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 17 | 0.23 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 2 | 0.23 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 20 | 0.23 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 8 | 0.23 |
| (1,2631) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 19 | 0.23 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 12 | 0.23 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 12 | 0.23 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 15 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 15 | 0.23 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 15 | 0.23 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 1 | 0.23 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 1 | 0.23 |
| (1,2537) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 1 | 0.23 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 1 | 0.23 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 1 | 0.23 |
| (1,2537) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 1 | 0.23 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 8 | 0.23 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 8 | 0.23 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 15 | 0.23 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 15 | 0.23 |
| (1,2493) | 1:12:A:GLU:HG3 | 1:13:A:LYS:H | 13 | 0.23 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 9 | 0.23 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 8 | 0.23 |
| (1,2401) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 5 | 0.23 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 11 | 0.23 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 10 | 0.23 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 20 | 0.23 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 1 | 0.23 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 1 | 0.23 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 1 | 0.23 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 5 | 0.23 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 6 | 0.23 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 12 | 0.23 |
| (1,2247) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 17 | 0.23 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 15 | 0.23 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 3 | 0.23 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 4 | 0.23 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 5 | 0.23 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 5 | 0.23 |
| (1,2163) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 5 | 0.23 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 11 | 0.23 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 11 | 0.23 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 11 | 0.23 |
| (1,2139) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 13 | 0.23 |
| (1,2139) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 13 | 0.23 |
| (1,2139) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 13 | 0.23 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 7 | 0.23 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 7 | 0.23 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 7 | 0.23 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 4 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 17 | 0.23 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 7 | 0.23 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 7 | 0.23 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 7 | 0.23 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 5 | 0.23 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 10 | 0.23 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 10 | 0.23 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 10 | 0.23 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 6 | 0.23 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 6 | 0.23 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 12 | 0.23 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 12 | 0.23 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 7 | 0.23 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 10 | 0.23 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 7 | 0.23 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 7 | 0.23 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 13 | 0.23 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 15 | 0.23 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 15 | 0.23 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 15 | 0.23 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 20 | 0.23 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 9 | 0.23 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 0.23 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 5 | 0.23 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 3 | 0.23 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 3 | 0.23 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 3 | 0.23 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 16 | 0.23 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 16 | 0.23 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 7 | 0.23 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 7 | 0.23 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 7 | 0.23 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 15 | 0.23 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 15 | 0.23 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 15 | 0.23 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 4 | 0.23 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 4 | 0.23 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 4 | 0.23 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 12 | 0.23 |
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 8 | 0.23 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 8 | 0.23 |
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 8 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 18 | 0.23 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 18 | 0.23 |
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 18 | 0.23 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 2 | 0.23 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 2 | 0.23 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 2 | 0.23 |
| (1,1655) | 1:137:A:ALA:H | 1:138:A:SER:H | 1 | 0.23 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 8 | 0.23 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 8 | 0.23 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 16 | 0.23 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 16 | 0.23 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 13 | 0.23 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 6 | 0.23 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 6 | 0.23 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 10 | 0.23 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 10 | 0.23 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 6 | 0.23 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 20 | 0.23 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 5 | 0.23 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 5 | 0.23 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 5 | 0.23 |
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 15 | 0.23 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 8 | 0.23 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 18 | 0.23 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 17 | 0.23 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 3 | 0.23 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 6 | 0.23 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 1 | 0.23 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 12 | 0.23 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 12 | 0.23 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 1 | 0.23 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 1 | 0.23 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 1 | 0.23 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 5 | 0.23 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 17 | 0.23 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 11 | 0.23 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 6 | 0.23 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 19 | 0.23 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 6 | 0.23 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 6 | 0.23 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 6 | 0.23 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 6 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 6 | 0.23 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 6 | 0.23 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 19 | 0.23 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD2 | 2 | 0.23 |
| (1,1261) | 1:119:A:ARG:H | 1:119:A:ARG:HD3 | 2 | 0.23 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 1 | 0.23 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 11 | 0.23 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 15 | 0.23 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 3 | 0.23 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 3 | 0.23 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 3 | 0.23 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 20 | 0.23 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 20 | 0.23 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 20 | 0.23 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 3 | 0.23 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 3 | 0.23 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 4 | 0.23 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 4 | 0.23 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 4 | 0.23 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 1 | 0.23 |
| (1,1123) | 1:113:A:CYS:HA | 1:114:A:SER:H | 10 | 0.23 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 17 | 0.23 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 1 | 0.23 |
| (1,1047) | 1:109:A:GLN:H | 1:110:A:PHE:H | 8 | 0.23 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 9 | 0.23 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 7 | 0.23 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 9 | 0.23 |
| (1,971) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HG | 15 | 0.23 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 6 | 0.23 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 20 | 0.23 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 20 | 0.23 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 20 | 0.23 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 17 | 0.23 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 17 | 0.23 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 17 | 0.23 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 5 | 0.23 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 5 | 0.23 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 5 | 0.23 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 12 | 0.23 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 12 | 0.23 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 18 | 0.23 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 2 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 5 | 0.23 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 14 | 0.23 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 20 | 0.23 |
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 20 | 0.23 |
| (1,735) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 7 | 0.23 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 7 | 0.23 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 7 | 0.23 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 7 | 0.23 |
| (1,701) | 1:96:A:ILE:HA | 1:96:A:ILE:HG12 | 19 | 0.23 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD11 | 11 | 0.23 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD12 | 11 | 0.23 |
| (1,627) | 1:95:A:LYS:HB2 | 1:106:A:LEU:HD13 | 11 | 0.23 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 16 | 0.23 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 13 | 0.23 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 8 | 0.23 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 9 | 0.23 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 9 | 0.23 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 9 | 0.23 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 9 | 0.23 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 9 | 0.23 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 9 | 0.23 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 11 | 0.23 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 2 | 0.23 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 12 | 0.23 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 9 | 0.23 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 14 | 0.23 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 12 | 0.23 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB3 | 12 | 0.23 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 20 | 0.23 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 20 | 0.23 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 20 | 0.23 |
| (1,468) | 1:89:A:ILE:HG21 | 1:89:A:ILE:HG13 | 9 | 0.23 |
| (1,468) | 1:89:A:ILE:HG22 | 1:89:A:ILE:HG13 | 9 | 0.23 |
| (1,468) | 1:89:A:ILE:HG23 | 1:89:A:ILE:HG13 | 9 | 0.23 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 2 | 0.23 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 2 | 0.23 |
| (1,462) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 2 | 0.23 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 11 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 12 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 12 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 12 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 12 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 12 | 0.23 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 12 | 0.23 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 19 | 0.23 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 13 | 0.23 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 13 | 0.23 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 13 | 0.23 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 1 | 0.23 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 1 | 0.23 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 1 | 0.23 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 10 | 0.23 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 10 | 0.23 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 17 | 0.23 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 17 | 0.23 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 12 | 0.23 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 12 | 0.23 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 12 | 0.23 |
| (1,327) | 1:81:A:THR:HB | 1:83:A:GLU:H | 5 | 0.23 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 7 | 0.23 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 7 | 0.23 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 7 | 0.23 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 19 | 0.23 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 19 | 0.23 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 19 | 0.23 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 15 | 0.23 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 15 | 0.23 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 15 | 0.23 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 10 | 0.23 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 10 | 0.23 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 10 | 0.23 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 16 | 0.23 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 16 | 0.23 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 16 | 0.23 |
| (1,267) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 2 | 0.23 |
| (1,257) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 12 | 0.23 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 16 | 0.23 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 8 | 0.23 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 16 | 0.23 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 18 | 0.23 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 19 | 0.23 |
| (1,218) | 1:73:A:TRP:HE3 | 1:74:A:ARG:HA | 5 | 0.23 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 17 | 0.23 |
| (1,202) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 12 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 5 | 0.23 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 1 | 0.23 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 1 | 0.23 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 1 | 0.23 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 10 | 0.23 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 10 | 0.23 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB1 | 15 | 0.23 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB2 | 15 | 0.23 |
| (1,167) | 1:64:A:HIS:HD2 | 1:85:A:ALA:HB3 | 15 | 0.23 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 1 | 0.23 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 19 | 0.23 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 7 | 0.23 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 7 | 0.23 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 7 | 0.23 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 7 | 0.23 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 7 | 0.23 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 7 | 0.23 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 7 | 0.23 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 7 | 0.23 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 7 | 0.23 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 12 | 0.23 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 12 | 0.23 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 12 | 0.23 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 12 | 0.23 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 12 | 0.23 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 12 | 0.23 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 12 | 0.23 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 12 | 0.23 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 12 | 0.23 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 14 | 0.23 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 14 | 0.23 |
| (1,146) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 14 | 0.23 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 14 | 0.23 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 14 | 0.23 |
| (1,146) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 14 | 0.23 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 14 | 0.23 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 14 | 0.23 |
| (1,146) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 14 | 0.23 |
| (1,76) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 6 | 0.23 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 11 | 0.23 |
| (1,67) | 1:56:A:ARG:H | 1:163:A:GLU:H | 3 | 0.23 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 16 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 5 | 0.23 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 5 | 0.23 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 5 | 0.23 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 5 | 0.23 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 8 | 0.23 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 8 | 0.23 |
| (1,18) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 8 | 0.23 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 12 | 0.23 |
| (1,14) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 20 | 0.23 |
| (4,159) | 1:98:A:SER:CB | 1:22:A:VAL:H | 4 | 0.22 |
| (4,136) | 1:90:A:ASN:CB | 1:45:A:GLY:H | 16 | 0.22 |
| (3,956) | 1:98:A:SER:HB2 | 1:102:A:ASP:H | 7 | 0.22 |
| (3,956) | 1:98:A:SER:HB3 | 1:102:A:ASP:H | 7 | 0.22 |
| (3,915) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 6 | 0.22 |
| (3,915) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 6 | 0.22 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 1 | 0.22 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 1 | 0.22 |
| (3,892) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 7 | 0.22 |
| (3,892) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 7 | 0.22 |
| (3,892) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 7 | 0.22 |
| (3,892) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 7 | 0.22 |
| (3,892) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 7 | 0.22 |
| (3,892) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 7 | 0.22 |
| (3,865) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD11 | 17 | 0.22 |
| (3,865) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD12 | 17 | 0.22 |
| (3,865) | 1:71:A:SER:HB2 | 1:78:A:ILE:HD13 | 17 | 0.22 |
| (3,865) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD11 | 17 | 0.22 |
| (3,865) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD12 | 17 | 0.22 |
| (3,865) | 1:71:A:SER:HB3 | 1:78:A:ILE:HD13 | 17 | 0.22 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG2 | 1 | 0.22 |
| (3,860) | 1:70:A:PRO:HB3 | 1:76:A:GLU:HG3 | 1 | 0.22 |
| (3,699) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 12 | 0.22 |
| (3,699) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 12 | 0.22 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG21 | 16 | 0.22 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG22 | 16 | 0.22 |
| (3,652) | 1:133:A:PRO:HA | 1:150:A:VAL:HG23 | 16 | 0.22 |
| (3,545) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 10 | 0.22 |
| (3,545) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 10 | 0.22 |
| (3,421) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE1 | 5 | 0.22 |
| (3,421) | 1:62:A:VAL:HG11 | 1:92:A:TYR:HE2 | 5 | 0.22 |
| (3,421) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE1 | 5 | 0.22 |
| (3,421) | 1:62:A:VAL:HG12 | 1:92:A:TYR:HE2 | 5 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,421) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE1 | 5 | 0.22 |
| (3,421) | 1:62:A:VAL:HG13 | 1:92:A:TYR:HE2 | 5 | 0.22 |
| (3,261) | 1:24:A:TYR:HB3 | 1:33:A:GLN:H | 4 | 0.22 |
| (3,242) | 1:15:A:MET:H | 1:21:A:ARG:H | 20 | 0.22 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 4 | 0.22 |
| (3,200) | 1:8:A:PRO:HB2 | 1:11:A:TRP:H | 4 | 0.22 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE2 | 6 | 0.22 |
| (3,174) | 1:6:A:LYS:HA | 1:13:A:LYS:HE3 | 6 | 0.22 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 12 | 0.22 |
| (3,25) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 12 | 0.22 |
| (3,25) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 12 | 0.22 |
| (3,25) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 12 | 0.22 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 4 | 0.22 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 4 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 1 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 1 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 1 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 1 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 1 | 0.22 |
| (1,9612) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 1 | 0.22 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 10 | 0.22 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 10 | 0.22 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 17 | 0.22 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 17 | 0.22 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD11 | 2 | 0.22 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD12 | 2 | 0.22 |
| (1,9575) | 1:146:A:MET:HB2 | 1:160:A:LEU:HD13 | 2 | 0.22 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD11 | 2 | 0.22 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD12 | 2 | 0.22 |
| (1,9575) | 1:146:A:MET:HB3 | 1:160:A:LEU:HD13 | 2 | 0.22 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 1 | 0.22 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 1 | 0.22 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 17 | 0.22 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 17 | 0.22 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 17 | 0.22 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 17 | 0.22 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 17 | 0.22 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 17 | 0.22 |
| (1,9505) | 1:135:A:GLU:HG2 | 1:138:A:SER:H | 9 | 0.22 |
| (1,9505) | 1:135:A:GLU:HG3 | 1:138:A:SER:H | 9 | 0.22 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 8 | 0.22 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 8 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 13 | 0.22 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 13 | 0.22 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 13 | 0.22 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 13 | 0.22 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 5 | 0.22 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 5 | 0.22 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 11 | 0.22 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 11 | 0.22 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 11 | 0.22 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 11 | 0.22 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 11 | 0.22 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 11 | 0.22 |
| (1,9300) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 2 | 0.22 |
| (1,9300) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 2 | 0.22 |
| (1,9300) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 2 | 0.22 |
| (1,9300) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 2 | 0.22 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 6 | 0.22 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 6 | 0.22 |
| (1,9184) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 16 | 0.22 |
| (1,9184) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 16 | 0.22 |
| (1,9168) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB2 | 9 | 0.22 |
| (1,9168) | 1:93:A:ILE:HD11 | 1:97:A:LYS:HB3 | 9 | 0.22 |
| (1,9168) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB2 | 9 | 0.22 |
| (1,9168) | 1:93:A:ILE:HD12 | 1:97:A:LYS:HB3 | 9 | 0.22 |
| (1,9168) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB2 | 9 | 0.22 |
| (1,9168) | 1:93:A:ILE:HD13 | 1:97:A:LYS:HB3 | 9 | 0.22 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 9 | 0.22 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 9 | 0.22 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 19 | 0.22 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 19 | 0.22 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 20 | 0.22 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 20 | 0.22 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 20 | 0.22 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 20 | 0.22 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 20 | 0.22 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 20 | 0.22 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 16 | 0.22 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 16 | 0.22 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 16 | 0.22 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 16 | 0.22 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 16 | 0.22 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 16 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 0.22 |
| (1,8975) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 20 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 3 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 3 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 5 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 5 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 7 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 7 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 10 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 10 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 14 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 14 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 17 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 17 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 19 | 0.22 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 19 | 0.22 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 4 | 0.22 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 4 | 0.22 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 4 | 0.22 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 4 | 0.22 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 4 | 0.22 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 4 | 0.22 |
| (1,8837) | 1:60:A:LEU:HB2 | 1:158:A:ILE:H | 3 | 0.22 |
| (1,8837) | 1:60:A:LEU:HB3 | 1:158:A:ILE:H | 3 | 0.22 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 13 | 0.22 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 13 | 0.22 |
| (1,8753) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 5 | 0.22 |
| (1,8753) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 5 | 0.22 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 14 | 0.22 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 14 | 0.22 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 14 | 0.22 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 14 | 0.22 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 14 | 0.22 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 14 | 0.22 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 19 | 0.22 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 19 | 0.22 |
| (1,8705) | 1:46:A:LYS:HD2 | 1:163:A:GLU:H | 9 | 0.22 |
| (1,8705) | 1:46:A:LYS:HD3 | 1:163:A:GLU:H | 9 | 0.22 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 1 | 0.22 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 1 | 0.22 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB2 | 11 | 0.22 |
| (1,8679) | 1:42:A:SER:H | 1:43:A:SER:HB3 | 11 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8505) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 11 | 0.22 |
| (1,8371) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 20 | 0.22 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 18 | 0.22 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 8 | 0.22 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 9 | 0.22 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 10 | 0.22 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 14 | 0.22 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 2 | 0.22 |
| (1,7919) | 1:70:A:PRO:HA | 1:78:A:ILE:H | 14 | 0.22 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 5 | 0.22 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 17 | 0.22 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 6 | 0.22 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 4 | 0.22 |
| (1,7700) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 4 | 0.22 |
| (1,7696) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 2 | 0.22 |
| (1,7500) | 1:13:A:LYS:HA | 1:24:A:TYR:HA | 9 | 0.22 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 16 | 0.22 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 19 | 0.22 |
| (1,7337) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 2 | 0.22 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 11 | 0.22 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 11 | 0.22 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 14 | 0.22 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 14 | 0.22 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 6 | 0.22 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 18 | 0.22 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 18 | 0.22 |
| (1,7166) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 18 | 0.22 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 14 | 0.22 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 17 | 0.22 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 17 | 0.22 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 12 | 0.22 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 12 | 0.22 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 2 | 0.22 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 2 | 0.22 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 8 | 0.22 |
| (1,7014) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HB2 | 6 | 0.22 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 20 | 0.22 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 3 | 0.22 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 17 | 0.22 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 17 | 0.22 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 16 | 0.22 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 16 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 13 | 0.22 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 11 | 0.22 |
| (1,6929) | 1:32:A:SER:HA | 1:33:A:GLN:H | 2 | 0.22 |
| (1,6921) | 1:31:A:ALA:H | 1:32:A:SER:H | 1 | 0.22 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 7 | 0.22 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 2 | 0.22 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 15 | 0.22 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 2 | 0.22 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 14 | 0.22 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 14 | 0.22 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 4 | 0.22 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 11 | 0.22 |
| (1,6756) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 7 | 0.22 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 18 | 0.22 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 18 | 0.22 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 18 | 0.22 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 18 | 0.22 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 18 | 0.22 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 18 | 0.22 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 18 | 0.22 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 18 | 0.22 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 18 | 0.22 |
| (1,6730) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 5 | 0.22 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 17 | 0.22 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 8 | 0.22 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 12 | 0.22 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 20 | 0.22 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 11 | 0.22 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 14 | 0.22 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 17 | 0.22 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 1 | 0.22 |
| (1,6522) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 14 | 0.22 |
| (1,6522) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 14 | 0.22 |
| (1,6522) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 14 | 0.22 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 3 | 0.22 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 13 | 0.22 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 20 | 0.22 |
| (1,6424) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 4 | 0.22 |
| (1,6424) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 4 | 0.22 |
| (1,6424) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 4 | 0.22 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 17 | 0.22 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 17 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 17 | 0.22 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 19 | 0.22 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 19 | 0.22 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 19 | 0.22 |
| (1,6394) | 1:158:A:ILE:HB | 1:158:A:ILE:HD11 | 13 | 0.22 |
| (1,6394) | 1:158:A:ILE:HB | 1:158:A:ILE:HD12 | 13 | 0.22 |
| (1,6394) | 1:158:A:ILE:HB | 1:158:A:ILE:HD13 | 13 | 0.22 |
| (1,6378) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 11 | 0.22 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 11 | 0.22 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 11 | 0.22 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 11 | 0.22 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 14 | 0.22 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 14 | 0.22 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 14 | 0.22 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 14 | 0.22 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 10 | 0.22 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 16 | 0.22 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 17 | 0.22 |
| (1,6240) | 1:146:A:MET:HA | 1:161:A:ARG:H | 18 | 0.22 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 14 | 0.22 |
| (1,6202) | 1:144:A:GLY:H | 1:145:A:GLU:H | 15 | 0.22 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 15 | 0.22 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 4 | 0.22 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 4 | 0.22 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 4 | 0.22 |
| (1,6145) | 1:140:A:ALA:H | 1:141:A:LEU:H | 14 | 0.22 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 9 | 0.22 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 1 | 0.22 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 10 | 0.22 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 17 | 0.22 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 19 | 0.22 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 7 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 19 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 19 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 19 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 19 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 19 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 19 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 19 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 19 | 0.22 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 19 | 0.22 |
| (1,6077) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 17 | 0.22 |
| (1,6077) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 17 | 0.22 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 14 | 0.22 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 19 | 0.22 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 8 | 0.22 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 9 | 0.22 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 4 | 0.22 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 4 | 0.22 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 4 | 0.22 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 2 | 0.22 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 2 | 0.22 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 2 | 0.22 |
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 19 | 0.22 |
| (1,6034) | 1:133:A:PRO:HD2 | 1:134:A:PHE:H | 8 | 0.22 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 10 | 0.22 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 7 | 0.22 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 10 | 0.22 |
| (1,5908) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 5 | 0.22 |
| (1,5908) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 5 | 0.22 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 14 | 0.22 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 16 | 0.22 |
| (1,5859) | 1:120:A:GLY:H | 1:121:A:ASP:H | 11 | 0.22 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 13 | 0.22 |
| (1,5775) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB2 | 8 | 0.22 |
| (1,5775) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB2 | 8 | 0.22 |
| (1,5775) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB2 | 8 | 0.22 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 14 | 0.22 |
| (1,5745) | 1:109:A:GLN:H | 1:110:A:PHE:H | 2 | 0.22 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 17 | 0.22 |
| (1,5667) | 1:105:A:SER:H | 1:106:A:LEU:H | 14 | 0.22 |
| (1,5667) | 1:105:A:SER:H | 1:106:A:LEU:H | 17 | 0.22 |
| (1,5665) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 11 | 0.22 |
| (1,5661) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 11 | 0.22 |
| (1,5644) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 1 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5644) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 12 | 0.22 |
| (1,5644) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 17 | 0.22 |
| (1,5611) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 16 | 0.22 |
| (1,5601) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 20 | 0.22 |
| (1,5601) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 20 | 0.22 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 19 | 0.22 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 3 | 0.22 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 17 | 0.22 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 16 | 0.22 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 16 | 0.22 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 16 | 0.22 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 16 | 0.22 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 16 | 0.22 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 16 | 0.22 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 16 | 0.22 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 16 | 0.22 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 16 | 0.22 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 2 | 0.22 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 2 | 0.22 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 2 | 0.22 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 18 | 0.22 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 18 | 0.22 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 18 | 0.22 |
| (1,5442) | 1:93:A:ILE:H | 1:94:A:GLN:H | 6 | 0.22 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD11 | 18 | 0.22 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD12 | 18 | 0.22 |
| (1,5418) | 1:92:A:TYR:HB2 | 1:158:A:ILE:HD13 | 18 | 0.22 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 15 | 0.22 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 15 | 0.22 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 15 | 0.22 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 15 | 0.22 |
| (1,5165) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 5 | 0.22 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 7 | 0.22 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 11 | 0.22 |
| (1,5054) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 4 | 0.22 |
| (1,5054) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 5 | 0.22 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 19 | 0.22 |
| (1,5026) | 1:72:A:SER:H | 1:75:A:GLN:H | 7 | 0.22 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 2 | 0.22 |
| (1,4937) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 4 | 0.22 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 17 | 0.22 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 19 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD11 | 4 | 0.22 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD12 | 4 | 0.22 |
| (1,4883) | 1:62:A:VAL:HG21 | 1:89:A:ILE:HD13 | 4 | 0.22 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD11 | 4 | 0.22 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD12 | 4 | 0.22 |
| (1,4883) | 1:62:A:VAL:HG22 | 1:89:A:ILE:HD13 | 4 | 0.22 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD11 | 4 | 0.22 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD12 | 4 | 0.22 |
| (1,4883) | 1:62:A:VAL:HG23 | 1:89:A:ILE:HD13 | 4 | 0.22 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 4 | 0.22 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 4 | 0.22 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 4 | 0.22 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 5 | 0.22 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 5 | 0.22 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 5 | 0.22 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 14 | 0.22 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 14 | 0.22 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 14 | 0.22 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 18 | 0.22 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 18 | 0.22 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 18 | 0.22 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 13 | 0.22 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 13 | 0.22 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 13 | 0.22 |
| (1,4841) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 15 | 0.22 |
| (1,4841) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 15 | 0.22 |
| (1,4841) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 15 | 0.22 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 7 | 0.22 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 7 | 0.22 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 7 | 0.22 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 7 | 0.22 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 7 | 0.22 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 7 | 0.22 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 7 | 0.22 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 7 | 0.22 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 7 | 0.22 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 10 | 0.22 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 14 | 0.22 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 9 | 0.22 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 6 | 0.22 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 12 | 0.22 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 1 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4734) | 1:56:A:ARG:HB2 | 1:163:A:GLU:H | 19 | 0.22 |
| (1,4702) | 1:55:A:VAL:HA | 1:124:A:ALA:HB1 | 6 | 0.22 |
| (1,4702) | 1:55:A:VAL:HA | 1:124:A:ALA:HB2 | 6 | 0.22 |
| (1,4702) | 1:55:A:VAL:HA | 1:124:A:ALA:HB3 | 6 | 0.22 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 18 | 0.22 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 7 | 0.22 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 5 | 0.22 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 5 | 0.22 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 5 | 0.22 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 5 | 0.22 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 5 | 0.22 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 5 | 0.22 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 10 | 0.22 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 12 | 0.22 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 12 | 0.22 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 12 | 0.22 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 17 | 0.22 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 17 | 0.22 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 17 | 0.22 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 13 | 0.22 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 13 | 0.22 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 13 | 0.22 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 3 | 0.22 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 4 | 0.22 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 4 | 0.22 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 15 | 0.22 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 15 | 0.22 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 1 | 0.22 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 1 | 0.22 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 3 | 0.22 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 3 | 0.22 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 13 | 0.22 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 13 | 0.22 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 8 | 0.22 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 8 | 0.22 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 8 | 0.22 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 8 | 0.22 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 8 | 0.22 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 8 | 0.22 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 19 | 0.22 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 19 | 0.22 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 1 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 1 | 0.22 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 1 | 0.22 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 1 | 0.22 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 1 | 0.22 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 1 | 0.22 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 5 | 0.22 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 5 | 0.22 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 5 | 0.22 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 5 | 0.22 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 5 | 0.22 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 5 | 0.22 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 7 | 0.22 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 7 | 0.22 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 16 | 0.22 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 16 | 0.22 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 19 | 0.22 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 19 | 0.22 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 5 | 0.22 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 5 | 0.22 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 5 | 0.22 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 13 | 0.22 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 13 | 0.22 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 7 | 0.22 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 7 | 0.22 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 7 | 0.22 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 7 | 0.22 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 20 | 0.22 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 20 | 0.22 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 20 | 0.22 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 20 | 0.22 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 8 | 0.22 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 8 | 0.22 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 1 | 0.22 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 1 | 0.22 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 10 | 0.22 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 10 | 0.22 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 17 | 0.22 |
| (1,4275) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 17 | 0.22 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 18 | 0.22 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 18 | 0.22 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 5 | 0.22 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 5 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 5 | 0.22 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 5 | 0.22 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 5 | 0.22 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 5 | 0.22 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD2 | 16 | 0.22 |
| (1,4027) | 1:82:A:LYS:H | 1:82:A:LYS:HD3 | 16 | 0.22 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 8 | 0.22 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 8 | 0.22 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 19 | 0.22 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 19 | 0.22 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 13 | 0.22 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 19 | 0.22 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 19 | 0.22 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 4 | 0.22 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 4 | 0.22 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 15 | 0.22 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 15 | 0.22 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 9 | 0.22 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 9 | 0.22 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 17 | 0.22 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 17 | 0.22 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 12 | 0.22 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 12 | 0.22 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 5 | 0.22 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 5 | 0.22 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 16 | 0.22 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 16 | 0.22 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 16 | 0.22 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 16 | 0.22 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 16 | 0.22 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 16 | 0.22 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 11 | 0.22 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 11 | 0.22 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 15 | 0.22 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 15 | 0.22 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 10 | 0.22 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 10 | 0.22 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 9 | 0.22 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 11 | 0.22 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 20 | 0.22 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 17 | 0.22 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 16 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 6 | 0.22 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 16 | 0.22 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 2 | 0.22 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 3 | 0.22 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 3 | 0.22 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 20 | 0.22 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 20 | 0.22 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 11 | 0.22 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 11 | 0.22 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 8 | 0.22 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 16 | 0.22 |
| (1,3079) | 1:36:A:ARG:H | 1:37:A:PRO:HD2 | 5 | 0.22 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 17 | 0.22 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 20 | 0.22 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 13 | 0.22 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 11 | 0.22 |
| (1,2945) | 1:32:A:SER:HA | 1:33:A:GLN:H | 2 | 0.22 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 7 | 0.22 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 1 | 0.22 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 2 | 0.22 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 15 | 0.22 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 10 | 0.22 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 10 | 0.22 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 10 | 0.22 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 12 | 0.22 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 12 | 0.22 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 12 | 0.22 |
| (1,2841) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 12 | 0.22 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 14 | 0.22 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 14 | 0.22 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 12 | 0.22 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 12 | 0.22 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 12 | 0.22 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 12 | 0.22 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 12 | 0.22 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 12 | 0.22 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 16 | 0.22 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 16 | 0.22 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 8 | 0.22 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 8 | 0.22 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 4 | 0.22 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 11 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 17 | 0.22 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 11 | 0.22 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 11 | 0.22 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 3 | 0.22 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 3 | 0.22 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 3 | 0.22 |
| (1,2687) | 1:22:A:VAL:HG21 | 1:23:A:TYR:H | 14 | 0.22 |
| (1,2687) | 1:22:A:VAL:HG22 | 1:23:A:TYR:H | 14 | 0.22 |
| (1,2687) | 1:22:A:VAL:HG23 | 1:23:A:TYR:H | 14 | 0.22 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 11 | 0.22 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 11 | 0.22 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 11 | 0.22 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 1 | 0.22 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 7 | 0.22 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 7 | 0.22 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 19 | 0.22 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 19 | 0.22 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 4 | 0.22 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 4 | 0.22 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 12 | 0.22 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 20 | 0.22 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 17 | 0.22 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 14 | 0.22 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 12 | 0.22 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 1 | 0.22 |
| (1,2371) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 5 | 0.22 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 17 | 0.22 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 17 | 0.22 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 17 | 0.22 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 5 | 0.22 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 9 | 0.22 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 2 | 0.22 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 2 | 0.22 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 2 | 0.22 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 11 | 0.22 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 11 | 0.22 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 11 | 0.22 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 16 | 0.22 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 16 | 0.22 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 16 | 0.22 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 13 | 0.22 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 20 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2199) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 0.22 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 14 | 0.22 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 14 | 0.22 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 14 | 0.22 |
| (1,2075) | 1:157:A:HIS:HA | 1:158:A:ILE:H | 11 | 0.22 |
| (1,2053) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 19 | 0.22 |
| (1,2053) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 19 | 0.22 |
| (1,2053) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 19 | 0.22 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 9 | 0.22 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 9 | 0.22 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 9 | 0.22 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 9 | 0.22 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 9 | 0.22 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 9 | 0.22 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 9 | 0.22 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 9 | 0.22 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 9 | 0.22 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 14 | 0.22 |
| (1,1979) | 1:150:A:VAL:HG21 | 1:158:A:ILE:HA | 1 | 0.22 |
| (1,1979) | 1:150:A:VAL:HG22 | 1:158:A:ILE:HA | 1 | 0.22 |
| (1,1979) | 1:150:A:VAL:HG23 | 1:158:A:ILE:HA | 1 | 0.22 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 12 | 0.22 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 12 | 0.22 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 12 | 0.22 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 15 | 0.22 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 15 | 0.22 |
| (1,1945) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 15 | 0.22 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 10 | 0.22 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 16 | 0.22 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 17 | 0.22 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 5 | 0.22 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB2 | 11 | 0.22 |
| (1,1923) | 1:141:A:LEU:HD21 | 1:147:A:SER:HB3 | 11 | 0.22 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB2 | 11 | 0.22 |
| (1,1923) | 1:141:A:LEU:HD22 | 1:147:A:SER:HB3 | 11 | 0.22 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB2 | 11 | 0.22 |
| (1,1923) | 1:141:A:LEU:HD23 | 1:147:A:SER:HB3 | 11 | 0.22 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 10 | 0.22 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 10 | 0.22 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 10 | 0.22 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 10 | 0.22 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 10 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 10 | 0.22 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 10 | 0.22 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 10 | 0.22 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 10 | 0.22 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 8 | 0.22 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 19 | 0.22 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 14 | 0.22 |
| (1,1821) | 1:144:A:GLY:H | 1:145:A:GLU:H | 15 | 0.22 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 6 | 0.22 |
| (1,1817) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 11 | 0.22 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 3 | 0.22 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 3 | 0.22 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 3 | 0.22 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 16 | 0.22 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 16 | 0.22 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 16 | 0.22 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 15 | 0.22 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD1 | 6 | 0.22 |
| (1,1719) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HD2 | 6 | 0.22 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD1 | 6 | 0.22 |
| (1,1719) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HD2 | 6 | 0.22 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD1 | 6 | 0.22 |
| (1,1719) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HD2 | 6 | 0.22 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 3 | 0.22 |
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 12 | 0.22 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 10 | 0.22 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 10 | 0.22 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 10 | 0.22 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 14 | 0.22 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 19 | 0.22 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 11 | 0.22 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 11 | 0.22 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 8 | 0.22 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 9 | 0.22 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 19 | 0.22 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 20 | 0.22 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 20 | 0.22 |
| (1,1573) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 20 | 0.22 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 4 | 0.22 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 4 | 0.22 |
| (1,1475) | 1:130:A:MET:H | 1:130:A:MET:HB2 | 15 | 0.22 |
| (1,1469) | 1:130:A:MET:HA | 1:131:A:GLN:H | 1 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1455) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 4 | 0.22 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 13 | 0.22 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 18 | 0.22 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 19 | 0.22 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 7 | 0.22 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 12 | 0.22 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 12 | 0.22 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 18 | 0.22 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 19 | 0.22 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 11 | 0.22 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 9 | 0.22 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 9 | 0.22 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 10 | 0.22 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 10 | 0.22 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 15 | 0.22 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 2 | 0.22 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 11 | 0.22 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 15 | 0.22 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 11 | 0.22 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 15 | 0.22 |
| (1,1385) | 1:126:A:SER:H | 1:127:A:ARG:H | 12 | 0.22 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 16 | 0.22 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 16 | 0.22 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 16 | 0.22 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 18 | 0.22 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 18 | 0.22 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 18 | 0.22 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 1 | 0.22 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 16 | 0.22 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 16 | 0.22 |
| (1,1263) | 1:120:A:GLY:H | 1:121:A:ASP:H | 11 | 0.22 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 3 | 0.22 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 6 | 0.22 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 11 | 0.22 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 3 | 0.22 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 6 | 0.22 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 8 | 0.22 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 10 | 0.22 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 17 | 0.22 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 9 | 0.22 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 2 | 0.22 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 2 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 2 | 0.22 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 13 | 0.22 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 18 | 0.22 |
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 18 | 0.22 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 6 | 0.22 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 3 | 0.22 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 5 | 0.22 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 13 | 0.22 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 15 | 0.22 |
| (1,1085) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 3 | 0.22 |
| (1,1085) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 6 | 0.22 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 16 | 0.22 |
| (1,1057) | 1:109:A:GLN:HA | 1:109:A:GLN:HB2 | 12 | 0.22 |
| (1,1047) | 1:109:A:GLN:H | 1:110:A:PHE:H | 2 | 0.22 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 5 | 0.22 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 17 | 0.22 |
| (1,1031) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 18 | 0.22 |
| (1,1031) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 18 | 0.22 |
| (1,1031) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 18 | 0.22 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 4 | 0.22 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 1 | 0.22 |
| (1,919) | 1:105:A:SER:H | 1:106:A:LEU:H | 14 | 0.22 |
| (1,919) | 1:105:A:SER:H | 1:106:A:LEU:H | 17 | 0.22 |
| (1,917) | 1:105:A:SER:H | 1:105:A:SER:HB3 | 11 | 0.22 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 13 | 0.22 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 10 | 0.22 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 10 | 0.22 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 10 | 0.22 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 10 | 0.22 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 10 | 0.22 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 10 | 0.22 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 6 | 0.22 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 9 | 0.22 |
| (1,837) | 1:102:A:ASP:H | 1:103:A:PHE:H | 3 | 0.22 |
| (1,805) | 1:101:A:GLU:HB3 | 1:102:A:ASP:H | 16 | 0.22 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 3 | 0.22 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 3 | 0.22 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 10 | 0.22 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 18 | 0.22 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 18 | 0.22 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 18 | 0.22 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 3 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 17 | 0.22 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 1 | 0.22 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 1 | 0.22 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 1 | 0.22 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 7 | 0.22 |
| (1,535) | 1:93:A:ILE:H | 1:94:A:GLN:H | 6 | 0.22 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 12 | 0.22 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 8 | 0.22 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 5 | 0.22 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 15 | 0.22 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 15 | 0.22 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 15 | 0.22 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 2 | 0.22 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 3 | 0.22 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 6 | 0.22 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 8 | 0.22 |
| (1,446) | 1:88:A:LEU:HB3 | 1:88:A:LEU:HG | 14 | 0.22 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 17 | 0.22 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 2 | 0.22 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB2 | 8 | 0.22 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 8 | 0.22 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 14 | 0.22 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 14 | 0.22 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 14 | 0.22 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 14 | 0.22 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 14 | 0.22 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 14 | 0.22 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 14 | 0.22 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 14 | 0.22 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 14 | 0.22 |
| (1,415) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 17 | 0.22 |
| (1,415) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 17 | 0.22 |
| (1,415) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 17 | 0.22 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 12 | 0.22 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 8 | 0.22 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 2 | 0.22 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 2 | 0.22 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 10 | 0.22 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 10 | 0.22 |
| (1,323) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 10 | 0.22 |
| (1,316) | 1:78:A:ILE:HG21 | 1:80:A:ARG:HG3 | 3 | 0.22 |
| (1,316) | 1:78:A:ILE:HG22 | 1:80:A:ARG:HG3 | 3 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,316) | 1:78:A:ILE:HG23 | 1:80:A:ARG:HG3 | 3 | 0.22 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 6 | 0.22 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 5 | 0.22 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 5 | 0.22 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 5 | 0.22 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD11 | 19 | 0.22 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD12 | 19 | 0.22 |
| (1,278) | 1:78:A:ILE:HA | 1:78:A:ILE:HD13 | 19 | 0.22 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 12 | 0.22 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 12 | 0.22 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 12 | 0.22 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 14 | 0.22 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 14 | 0.22 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 14 | 0.22 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 3 | 0.22 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 5 | 0.22 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 9 | 0.22 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 11 | 0.22 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 20 | 0.22 |
| (1,272) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 4 | 0.22 |
| (1,272) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 5 | 0.22 |
| (1,242) | 1:75:A:GLN:HA | 1:75:A:GLN:HB2 | 8 | 0.22 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 3 | 0.22 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 6 | 0.22 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 8 | 0.22 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 11 | 0.22 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 13 | 0.22 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 19 | 0.22 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD11 | 18 | 0.22 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD12 | 18 | 0.22 |
| (1,205) | 1:71:A:SER:HA | 1:78:A:ILE:HD13 | 18 | 0.22 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 6 | 0.22 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 6 | 0.22 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 4 | 0.22 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 4 | 0.22 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 4 | 0.22 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 18 | 0.22 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 18 | 0.22 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 18 | 0.22 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 18 | 0.22 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 17 | 0.22 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 19 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 15 | 0.22 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 15 | 0.22 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 15 | 0.22 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 19 | 0.22 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 19 | 0.22 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 19 | 0.22 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 15 | 0.22 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 5 | 0.22 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 5 | 0.22 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 5 | 0.22 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 10 | 0.22 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 9 | 0.22 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 6 | 0.22 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 12 | 0.22 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 1 | 0.22 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 18 | 0.22 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 7 | 0.22 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 10 | 0.22 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 10 | 0.22 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 10 | 0.22 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 10 | 0.22 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 1 | 0.22 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 1 | 0.22 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD2 | 17 | 0.22 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD2 | 17 | 0.22 |
| (1,23) | 1:51:A:GLU:HG2 | 1:52:A:PRO:HD3 | 17 | 0.22 |
| (1,23) | 1:51:A:GLU:HG3 | 1:52:A:PRO:HD3 | 17 | 0.22 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 3 | 0.22 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 14 | 0.22 |
| (1,11) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 14 | 0.22 |
| (4,11) | 1:15:A:MET:CB | 1:59:A:HIS:H | 11 | 0.21 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG2 | 6 | 0.21 |
| (3,900) | 1:84:A:GLU:H | 1:87:A:GLU:HG3 | 6 | 0.21 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 13 | 0.21 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 13 | 0.21 |
| (3,734) | 1:152:A:THR:H | 1:157:A:HIS:H | 12 | 0.21 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 6 | 0.21 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 6 | 0.21 |
| (3,254) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 12 | 0.21 |
| (3,254) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 12 | 0.21 |
| (3,254) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 12 | 0.21 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 4 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 4 | 0.21 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 4 | 0.21 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 10 | 0.21 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 10 | 0.21 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 10 | 0.21 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 20 | 0.21 |
| (3,155) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 2 | 0.21 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 12 | 0.21 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 12 | 0.21 |
| (3,144) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG2 | 12 | 0.21 |
| (3,144) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG2 | 12 | 0.21 |
| (3,144) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG2 | 12 | 0.21 |
| (3,144) | 1:15:A:MET:HE1 | 1:21:A:ARG:HG3 | 12 | 0.21 |
| (3,144) | 1:15:A:MET:HE2 | 1:21:A:ARG:HG3 | 12 | 0.21 |
| (3,144) | 1:15:A:MET:HE3 | 1:21:A:ARG:HG3 | 12 | 0.21 |
| (3,75) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 6 | 0.21 |
| (3,57) | 1:106:A:LEU:HD21 | 1:109:A:GLN:H | 13 | 0.21 |
| (3,57) | 1:106:A:LEU:HD22 | 1:109:A:GLN:H | 13 | 0.21 |
| (3,57) | 1:106:A:LEU:HD23 | 1:109:A:GLN:H | 13 | 0.21 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD11 | 4 | 0.21 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD12 | 4 | 0.21 |
| (3,53) | 1:101:A:GLU:H | 1:106:A:LEU:HD13 | 4 | 0.21 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 11 | 0.21 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 11 | 0.21 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 11 | 0.21 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 5 | 0.21 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 5 | 0.21 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 5 | 0.21 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 5 | 0.21 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 7 | 0.21 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 7 | 0.21 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 7 | 0.21 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 7 | 0.21 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 8 | 0.21 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 8 | 0.21 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 17 | 0.21 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 17 | 0.21 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 17 | 0.21 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 17 | 0.21 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 17 | 0.21 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 17 | 0.21 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 14 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 14 | 0.21 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 5 | 0.21 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 5 | 0.21 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 17 | 0.21 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 17 | 0.21 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 12 | 0.21 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 12 | 0.21 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 17 | 0.21 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 17 | 0.21 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 6 | 0.21 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 6 | 0.21 |
| (1,9201) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 7 | 0.21 |
| (1,9201) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 7 | 0.21 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 15 | 0.21 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 15 | 0.21 |
| (1,9035) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 15 | 0.21 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 15 | 0.21 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 15 | 0.21 |
| (1,9035) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 15 | 0.21 |
| (1,9023) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 10 | 0.21 |
| (1,9023) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 10 | 0.21 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 13 | 0.21 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 13 | 0.21 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 12 | 0.21 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 12 | 0.21 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 16 | 0.21 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 16 | 0.21 |
| (1,8899) | 1:65:A:SER:H | 1:66:A:GLN:HB2 | 16 | 0.21 |
| (1,8899) | 1:65:A:SER:H | 1:66:A:GLN:HB3 | 16 | 0.21 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 2 | 0.21 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 2 | 0.21 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 2 | 0.21 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 2 | 0.21 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 18 | 0.21 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 18 | 0.21 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 18 | 0.21 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 18 | 0.21 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 18 | 0.21 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 18 | 0.21 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 6 | 0.21 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 6 | 0.21 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 6 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 6 | 0.21 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 15 | 0.21 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 15 | 0.21 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 6 | 0.21 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 6 | 0.21 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 6 | 0.21 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 6 | 0.21 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 10 | 0.21 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 10 | 0.21 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 3 | 0.21 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 3 | 0.21 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 5 | 0.21 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 5 | 0.21 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 4 | 0.21 |
| (1,8715) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 4 | 0.21 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA2 | 4 | 0.21 |
| (1,8715) | 1:47:A:ASN:HD22 | 1:48:A:GLY:HA3 | 4 | 0.21 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 20 | 0.21 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 0.21 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 5 | 0.21 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 5 | 0.21 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 5 | 0.21 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 5 | 0.21 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 14 | 0.21 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 14 | 0.21 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 15 | 0.21 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 15 | 0.21 |
| (1,8601) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 15 | 0.21 |
| (1,8601) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 15 | 0.21 |
| (1,8586) | 1:12:A:GLU:H | 1:12:A:GLU:HB2 | 1 | 0.21 |
| (1,8586) | 1:12:A:GLU:H | 1:12:A:GLU:HB3 | 1 | 0.21 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 6 | 0.21 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 6 | 0.21 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 6 | 0.21 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 6 | 0.21 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 6 | 0.21 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 6 | 0.21 |
| (1,8567) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 9 | 0.21 |
| (1,8567) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 9 | 0.21 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE2 | 18 | 0.21 |
| (1,8549) | 1:5:A:GLU:HB2 | 1:6:A:LYS:HE3 | 18 | 0.21 |
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE2 | 18 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8549) | 1:5:A:GLU:HB3 | 1:6:A:LYS:HE3 | 18 | 0.21 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 4 | 0.21 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 4 | 0.21 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 4 | 0.21 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 4 | 0.21 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 4 | 0.21 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 4 | 0.21 |
| (1,8425) | 1:143:A:THR:H | 1:145:A:GLU:H | 2 | 0.21 |
| (1,8261) | 1:119:A:ARG:H | 1:121:A:ASP:H | 3 | 0.21 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 7 | 0.21 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 6 | 0.21 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 19 | 0.21 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 12 | 0.21 |
| (1,7740) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 13 | 0.21 |
| (1,7694) | 1:45:A:GLY:HA2 | 1:46:A:LYS:HA | 8 | 0.21 |
| (1,7694) | 1:45:A:GLY:HA3 | 1:46:A:LYS:HA | 8 | 0.21 |
| (1,7690) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 2 | 0.21 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 7 | 0.21 |
| (1,7508) | 1:14:A:ARG:H | 1:23:A:TYR:H | 10 | 0.21 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 2 | 0.21 |
| (1,7337) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 13 | 0.21 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 12 | 0.21 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 12 | 0.21 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 12 | 0.21 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 19 | 0.21 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 19 | 0.21 |
| (1,7302) | 1:40:A:ASN:HA | 1:40:A:ASN:HD21 | 19 | 0.21 |
| (1,7284) | 1:14:A:ARG:HG2 | 1:15:A:MET:H | 3 | 0.21 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 9 | 0.21 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 9 | 0.21 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 9 | 0.21 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 9 | 0.21 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 9 | 0.21 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 9 | 0.21 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 9 | 0.21 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 9 | 0.21 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 9 | 0.21 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB2 | 19 | 0.21 |
| (1,7245) | 1:13:A:LYS:HA | 1:36:A:ARG:HB3 | 19 | 0.21 |
| (1,7233) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 15 | 0.21 |
| (1,7223) | 1:14:A:ARG:HB2 | 1:15:A:MET:H | 2 | 0.21 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 13 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 3 | 0.21 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 3 | 0.21 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 3 | 0.21 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 8 | 0.21 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 15 | 0.21 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 9 | 0.21 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 5 | 0.21 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 5 | 0.21 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 14 | 0.21 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 14 | 0.21 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 14 | 0.21 |
| (1,7081) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 15 | 0.21 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 7 | 0.21 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 7 | 0.21 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 8 | 0.21 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 8 | 0.21 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 19 | 0.21 |
| (1,7018) | 1:11:A:TRP:HE1 | 1:37:A:PRO:HB2 | 19 | 0.21 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 2 | 0.21 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 2 | 0.21 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 11 | 0.21 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 11 | 0.21 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 6 | 0.21 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 15 | 0.21 |
| (1,6947) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 15 | 0.21 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 18 | 0.21 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 18 | 0.21 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 18 | 0.21 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 2 | 0.21 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 16 | 0.21 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 1 | 0.21 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 6 | 0.21 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 13 | 0.21 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 14 | 0.21 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 16 | 0.21 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 18 | 0.21 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 19 | 0.21 |
| (1,6875) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 9 | 0.21 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 3 | 0.21 |
| (1,6861) | 1:28:A:ILE:H | 1:28:A:ILE:HG12 | 2 | 0.21 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 19 | 0.21 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 3 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 4 | 0.21 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 12 | 0.21 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 6 | 0.21 |
| (1,6797) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 14 | 0.21 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 18 | 0.21 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 17 | 0.21 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 5 | 0.21 |
| (1,6707) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 19 | 0.21 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 15 | 0.21 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 15 | 0.21 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 15 | 0.21 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 1 | 0.21 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 14 | 0.21 |
| (1,6658) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 13 | 0.21 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 18 | 0.21 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 5 | 0.21 |
| (1,6610) | 1:11:A:TRP:HH2 | 1:25:A:PHE:H | 10 | 0.21 |
| (1,6596) | 1:11:A:TRP:HE3 | 1:27:A:HIS:H | 15 | 0.21 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 11 | 0.21 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 9 | 0.21 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 10 | 0.21 |
| (1,6546) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 15 | 0.21 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 18 | 0.21 |
| (1,6453) | 1:144:A:GLY:H | 1:162:A:THR:HA | 6 | 0.21 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 11 | 0.21 |
| (1,6406) | 1:158:A:ILE:H | 1:159:A:ILE:H | 16 | 0.21 |
| (1,6368) | 1:156:A:ILE:HG21 | 1:157:A:HIS:H | 3 | 0.21 |
| (1,6368) | 1:156:A:ILE:HG22 | 1:157:A:HIS:H | 3 | 0.21 |
| (1,6368) | 1:156:A:ILE:HG23 | 1:157:A:HIS:H | 3 | 0.21 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 13 | 0.21 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 19 | 0.21 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 13 | 0.21 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 13 | 0.21 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 13 | 0.21 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 13 | 0.21 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 13 | 0.21 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 13 | 0.21 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 13 | 0.21 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 13 | 0.21 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 13 | 0.21 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 1 | 0.21 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 6 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 7 | 0.21 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 11 | 0.21 |
| (1,6270) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 19 | 0.21 |
| (1,6252) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 18 | 0.21 |
| (1,6252) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 18 | 0.21 |
| (1,6252) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 18 | 0.21 |
| (1,6252) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 18 | 0.21 |
| (1,6252) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 18 | 0.21 |
| (1,6252) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 18 | 0.21 |
| (1,6252) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 18 | 0.21 |
| (1,6252) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 18 | 0.21 |
| (1,6252) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 18 | 0.21 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 8 | 0.21 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 19 | 0.21 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 9 | 0.21 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 14 | 0.21 |
| (1,6206) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 18 | 0.21 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 4 | 0.21 |
| (1,6170) | 1:141:A:LEU:HD21 | 1:146:A:MET:H | 14 | 0.21 |
| (1,6170) | 1:141:A:LEU:HD22 | 1:146:A:MET:H | 14 | 0.21 |
| (1,6170) | 1:141:A:LEU:HD23 | 1:146:A:MET:H | 14 | 0.21 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 1 | 0.21 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 14 | 0.21 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 2 | 0.21 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 2 | 0.21 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 2 | 0.21 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 5 | 0.21 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 19 | 0.21 |
| (1,6107) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 3 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 9 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 9 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 9 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 9 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 9 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 9 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 9 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 9 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 9 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 12 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 12 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 12 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 12 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 12 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 12 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 12 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 12 | 0.21 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 12 | 0.21 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 3 | 0.21 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 3 | 0.21 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 3 | 0.21 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 3 | 0.21 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 3 | 0.21 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 3 | 0.21 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 3 | 0.21 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 3 | 0.21 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 3 | 0.21 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 5 | 0.21 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 4 | 0.21 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 4 | 0.21 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 10 | 0.21 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 10 | 0.21 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 18 | 0.21 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 14 | 0.21 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 14 | 0.21 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 14 | 0.21 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 8 | 0.21 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 8 | 0.21 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 8 | 0.21 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 1 | 0.21 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 1 | 0.21 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 1 | 0.21 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 3 | 0.21 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 12 | 0.21 |
| (1,5979) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 19 | 0.21 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 10 | 0.21 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 10 | 0.21 |
| (1,5938) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 10 | 0.21 |
| (1,5889) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 4 | 0.21 |
| (1,5887) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 4 | 0.21 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 18 | 0.21 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 18 | 0.21 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 18 | 0.21 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 18 | 0.21 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 18 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 18 | 0.21 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 18 | 0.21 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 18 | 0.21 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 18 | 0.21 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 9 | 0.21 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 9 | 0.21 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 6 | 0.21 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 16 | 0.21 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 15 | 0.21 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 17 | 0.21 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 8 | 0.21 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 3 | 0.21 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 6 | 0.21 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 9 | 0.21 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 15 | 0.21 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 2 | 0.21 |
| (1,5669) | 1:105:A:SER:HA | 1:108:A:SER:H | 8 | 0.21 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 18 | 0.21 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 5 | 0.21 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 19 | 0.21 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 19 | 0.21 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 19 | 0.21 |
| (1,5535) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 7 | 0.21 |
| (1,5535) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 7 | 0.21 |
| (1,5535) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 7 | 0.21 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 6 | 0.21 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 6 | 0.21 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 6 | 0.21 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 16 | 0.21 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 16 | 0.21 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 16 | 0.21 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 4 | 0.21 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 17 | 0.21 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 3 | 0.21 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 11 | 0.21 |
| (1,5317) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 10 | 0.21 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 18 | 0.21 |
| (1,5295) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 19 | 0.21 |
| (1,5293) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 8 | 0.21 |
| (1,5293) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 12 | 0.21 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 17 | 0.21 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 17 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 17 | 0.21 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 17 | 0.21 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 17 | 0.21 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 17 | 0.21 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 17 | 0.21 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 17 | 0.21 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 17 | 0.21 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 7 | 0.21 |
| (1,5111) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 6 | 0.21 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 13 | 0.21 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 9 | 0.21 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 11 | 0.21 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 14 | 0.21 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 13 | 0.21 |
| (1,5014) | 1:73:A:TRP:HZ3 | 1:110:A:PHE:H | 13 | 0.21 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 12 | 0.21 |
| (1,4992) | 1:73:A:TRP:H | 1:74:A:ARG:H | 19 | 0.21 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 9 | 0.21 |
| (1,4975) | 1:70:A:PRO:HB2 | 1:78:A:ILE:H | 18 | 0.21 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 3 | 0.21 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 10 | 0.21 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 3 | 0.21 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 3 | 0.21 |
| (1,4931) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 3 | 0.21 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 17 | 0.21 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 17 | 0.21 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 17 | 0.21 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 17 | 0.21 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 17 | 0.21 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 17 | 0.21 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 7 | 0.21 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 7 | 0.21 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 7 | 0.21 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 7 | 0.21 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 7 | 0.21 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 7 | 0.21 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 7 | 0.21 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 7 | 0.21 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 7 | 0.21 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 2 | 0.21 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 4 | 0.21 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 4 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 4 | 0.21 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 1 | 0.21 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 10 | 0.21 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 10 | 0.21 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 10 | 0.21 |
| (1,4833) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 18 | 0.21 |
| (1,4833) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 18 | 0.21 |
| (1,4833) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 18 | 0.21 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 2 | 0.21 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 2 | 0.21 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 2 | 0.21 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 2 | 0.21 |
| (1,4646) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 7 | 0.21 |
| (1,4635) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 12 | 0.21 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 3 | 0.21 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 3 | 0.21 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 17 | 0.21 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 17 | 0.21 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG2 | 20 | 0.21 |
| (1,4551) | 1:144:A:GLY:H | 1:161:A:ARG:HG3 | 20 | 0.21 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 13 | 0.21 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 13 | 0.21 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 13 | 0.21 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 13 | 0.21 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 13 | 0.21 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 13 | 0.21 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 3 | 0.21 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 3 | 0.21 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 7 | 0.21 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 7 | 0.21 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 10 | 0.21 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 10 | 0.21 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 14 | 0.21 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 14 | 0.21 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 7 | 0.21 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 7 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 6 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 6 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 6 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 6 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 6 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 6 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 13 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 13 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 13 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 13 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 13 | 0.21 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 13 | 0.21 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 3 | 0.21 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 3 | 0.21 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 1 | 0.21 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 1 | 0.21 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 10 | 0.21 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 10 | 0.21 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 2 | 0.21 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 2 | 0.21 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 5 | 0.21 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 5 | 0.21 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 18 | 0.21 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 18 | 0.21 |
| (1,4383) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 18 | 0.21 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 13 | 0.21 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 13 | 0.21 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 9 | 0.21 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 9 | 0.21 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 20 | 0.21 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 20 | 0.21 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 18 | 0.21 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 18 | 0.21 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 12 | 0.21 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 12 | 0.21 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 7 | 0.21 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 7 | 0.21 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 17 | 0.21 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 17 | 0.21 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 12 | 0.21 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 12 | 0.21 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 6 | 0.21 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 6 | 0.21 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 16 | 0.21 |
| (1,3937) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 16 | 0.21 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 15 | 0.21 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 15 | 0.21 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 5 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 5 | 0.21 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 19 | 0.21 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 19 | 0.21 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 7 | 0.21 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 7 | 0.21 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 20 | 0.21 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 20 | 0.21 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 1 | 0.21 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 1 | 0.21 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 3 | 0.21 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 3 | 0.21 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 20 | 0.21 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 20 | 0.21 |
| (1,3553) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 20 | 0.21 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 20 | 0.21 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 20 | 0.21 |
| (1,3553) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 20 | 0.21 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 1 | 0.21 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 1 | 0.21 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 5 | 0.21 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 5 | 0.21 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 6 | 0.21 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 6 | 0.21 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 4 | 0.21 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 7 | 0.21 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 7 | 0.21 |
| (1,3313) | 1:122:A:LEU:HA | 1:122:A:LEU:HB2 | 20 | 0.21 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD11 | 3 | 0.21 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD12 | 3 | 0.21 |
| (1,3281) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD13 | 3 | 0.21 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 2 | 0.21 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 19 | 0.21 |
| (1,3275) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 8 | 0.21 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 17 | 0.21 |
| (1,3201) | 1:84:A:GLU:HA | 1:85:A:ALA:H | 9 | 0.21 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 15 | 0.21 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 4 | 0.21 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 2 | 0.21 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 6 | 0.21 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 14 | 0.21 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 14 | 0.21 |
| (1,3033) | 1:33:A:GLN:HE22 | 1:36:A:ARG:HA | 13 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 6 | 0.21 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 8 | 0.21 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 8 | 0.21 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 8 | 0.21 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 9 | 0.21 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 2 | 0.21 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 16 | 0.21 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 1 | 0.21 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 6 | 0.21 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 13 | 0.21 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 14 | 0.21 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 16 | 0.21 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 18 | 0.21 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 19 | 0.21 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 8 | 0.21 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 1 | 0.21 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 1 | 0.21 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 1 | 0.21 |
| (1,2869) | 1:28:A:ILE:HB | 1:28:A:ILE:HG12 | 9 | 0.21 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 20 | 0.21 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 20 | 0.21 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 20 | 0.21 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 20 | 0.21 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 20 | 0.21 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 20 | 0.21 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 19 | 0.21 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 19 | 0.21 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 19 | 0.21 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 19 | 0.21 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 3 | 0.21 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 4 | 0.21 |
| (1,2791) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 4 | 0.21 |
| (1,2791) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 4 | 0.21 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 12 | 0.21 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 6 | 0.21 |
| (1,2773) | 1:25:A:PHE:H | 1:25:A:PHE:HB3 | 14 | 0.21 |
| (1,2769) | 1:24:A:TYR:HE1 | 1:36:A:ARG:HA | 17 | 0.21 |
| (1,2769) | 1:24:A:TYR:HE2 | 1:36:A:ARG:HA | 17 | 0.21 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 19 | 0.21 |
| (1,2653) | 1:21:A:ARG:HA | 1:21:A:ARG:HB3 | 7 | 0.21 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 4 | 0.21 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 13 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 13 | 0.21 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 16 | 0.21 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 16 | 0.21 |
| (1,2617) | 1:17:A:ARG:HA | 1:17:A:ARG:HG3 | 3 | 0.21 |
| (1,2615) | 1:17:A:ARG:HA | 1:17:A:ARG:HG2 | 19 | 0.21 |
| (1,2581) | 1:15:A:MET:H | 1:23:A:TYR:H | 5 | 0.21 |
| (1,2543) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 13 | 0.21 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 3 | 0.21 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 3 | 0.21 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 17 | 0.21 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 17 | 0.21 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 8 | 0.21 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 8 | 0.21 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 8 | 0.21 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 8 | 0.21 |
| (1,2491) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 1 | 0.21 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 5 | 0.21 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 11 | 0.21 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 5 | 0.21 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 9 | 0.21 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 10 | 0.21 |
| (1,2393) | 1:8:A:PRO:HD3 | 1:37:A:PRO:HG2 | 15 | 0.21 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 4 | 0.21 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 4 | 0.21 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 4 | 0.21 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 5 | 0.21 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 5 | 0.21 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 5 | 0.21 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 18 | 0.21 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 20 | 0.21 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 13 | 0.21 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 15 | 0.21 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 15 | 0.21 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 15 | 0.21 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 8 | 0.21 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 8 | 0.21 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 8 | 0.21 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 8 | 0.21 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 8 | 0.21 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 8 | 0.21 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 8 | 0.21 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 8 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 8 | 0.21 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 11 | 0.21 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 13 | 0.21 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 13 | 0.21 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 13 | 0.21 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 11 | 0.21 |
| (1,2121) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 1 | 0.21 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 16 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 1 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 1 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 1 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 1 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 1 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 1 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 1 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 1 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 1 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 12 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 12 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 12 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 12 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 12 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 12 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 12 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 12 | 0.21 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 12 | 0.21 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 8 | 0.21 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 8 | 0.21 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 8 | 0.21 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 13 | 0.21 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 19 | 0.21 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 17 | 0.21 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 17 | 0.21 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 1 | 0.21 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 1 | 0.21 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 1 | 0.21 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 5 | 0.21 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 5 | 0.21 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 5 | 0.21 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 5 | 0.21 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 5 | 0.21 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 5 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 1 | 0.21 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 6 | 0.21 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 7 | 0.21 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 11 | 0.21 |
| (1,1937) | 1:149:A:PRO:HA | 1:150:A:VAL:H | 19 | 0.21 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 8 | 0.21 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 19 | 0.21 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 9 | 0.21 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 14 | 0.21 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 5 | 0.21 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 5 | 0.21 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 5 | 0.21 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 17 | 0.21 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 17 | 0.21 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 17 | 0.21 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 4 | 0.21 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 8 | 0.21 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 8 | 0.21 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 15 | 0.21 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 15 | 0.21 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 1 | 0.21 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 17 | 0.21 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 17 | 0.21 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 17 | 0.21 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 18 | 0.21 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 18 | 0.21 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 18 | 0.21 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 5 | 0.21 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 19 | 0.21 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 15 | 0.21 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 15 | 0.21 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 4 | 0.21 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 3 | 0.21 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 8 | 0.21 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 3 | 0.21 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 6 | 0.21 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 3 | 0.21 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 11 | 0.21 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 2 | 0.21 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 4 | 0.21 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 8 | 0.21 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 11 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 13 | 0.21 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 14 | 0.21 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 20 | 0.21 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 6 | 0.21 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 6 | 0.21 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 11 | 0.21 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 14 | 0.21 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 4 | 0.21 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 14 | 0.21 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 12 | 0.21 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 16 | 0.21 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 16 | 0.21 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 16 | 0.21 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 2 | 0.21 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 2 | 0.21 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 2 | 0.21 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 7 | 0.21 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 11 | 0.21 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 12 | 0.21 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 20 | 0.21 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 2 | 0.21 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 17 | 0.21 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 12 | 0.21 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 12 | 0.21 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 13 | 0.21 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 13 | 0.21 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 19 | 0.21 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 19 | 0.21 |
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 1 | 0.21 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 19 | 0.21 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 6 | 0.21 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 16 | 0.21 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 10 | 0.21 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 10 | 0.21 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 10 | 0.21 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 15 | 0.21 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 17 | 0.21 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 8 | 0.21 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 1 | 0.21 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 2 | 0.21 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 10 | 0.21 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 14 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 14 | 0.21 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 14 | 0.21 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 18 | 0.21 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 9 | 0.21 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 13 | 0.21 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 9 | 0.21 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 9 | 0.21 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 9 | 0.21 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 15 | 0.21 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 15 | 0.21 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD11 | 11 | 0.21 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD12 | 11 | 0.21 |
| (1,807) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HD13 | 11 | 0.21 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 5 | 0.21 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 19 | 0.21 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 14 | 0.21 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 14 | 0.21 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 14 | 0.21 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 14 | 0.21 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 14 | 0.21 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 14 | 0.21 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 18 | 0.21 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 18 | 0.21 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 18 | 0.21 |
| (1,673) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 3 | 0.21 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 4 | 0.21 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 4 | 0.21 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 3 | 0.21 |
| (1,617) | 1:95:A:LYS:HA | 1:95:A:LYS:HD3 | 1 | 0.21 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 3 | 0.21 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 3 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 5 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 5 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 5 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 16 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 16 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 16 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 18 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 18 | 0.21 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 18 | 0.21 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 12 | 0.21 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 12 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 12 | 0.21 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 6 | 0.21 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 6 | 0.21 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 6 | 0.21 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 6 | 0.21 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 6 | 0.21 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 6 | 0.21 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 16 | 0.21 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 16 | 0.21 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 16 | 0.21 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 14 | 0.21 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 2 | 0.21 |
| (1,491) | 1:90:A:ASN:HA | 1:90:A:ASN:HB3 | 8 | 0.21 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 5 | 0.21 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 9 | 0.21 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 17 | 0.21 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 17 | 0.21 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 17 | 0.21 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 17 | 0.21 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 7 | 0.21 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 7 | 0.21 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 7 | 0.21 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 8 | 0.21 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 8 | 0.21 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 8 | 0.21 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 20 | 0.21 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB2 | 10 | 0.21 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 10 | 0.21 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 6 | 0.21 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 6 | 0.21 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 14 | 0.21 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 14 | 0.21 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 16 | 0.21 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 16 | 0.21 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 16 | 0.21 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 16 | 0.21 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 16 | 0.21 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 16 | 0.21 |
| (1,409) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HG | 5 | 0.21 |
| (1,409) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HG | 5 | 0.21 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 7 | 0.21 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 20 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 20 | 0.21 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 20 | 0.21 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 20 | 0.21 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 20 | 0.21 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 20 | 0.21 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 13 | 0.21 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 13 | 0.21 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 13 | 0.21 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 17 | 0.21 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 17 | 0.21 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 17 | 0.21 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 16 | 0.21 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 12 | 0.21 |
| (1,314) | 1:80:A:ARG:HG2 | 1:85:A:ALA:H | 20 | 0.21 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 9 | 0.21 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 1 | 0.21 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 1 | 0.21 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 1 | 0.21 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 2 | 0.21 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 6 | 0.21 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 8 | 0.21 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 13 | 0.21 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 15 | 0.21 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 17 | 0.21 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 19 | 0.21 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 13 | 0.21 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 15 | 0.21 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 9 | 0.21 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 14 | 0.21 |
| (1,213) | 1:73:A:TRP:H | 1:74:A:ARG:H | 19 | 0.21 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 9 | 0.21 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 13 | 0.21 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 4 | 0.21 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 12 | 0.21 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 2 | 0.21 |
| (1,139) | 1:62:A:VAL:H | 1:62:A:VAL:HB | 9 | 0.21 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 12 | 0.21 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 12 | 0.21 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 12 | 0.21 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 12 | 0.21 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 12 | 0.21 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 12 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 10 | 0.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 10 | 0.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 10 | 0.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 10 | 0.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 10 | 0.21 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 10 | 0.21 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 12 | 0.21 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 12 | 0.21 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 12 | 0.21 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 15 | 0.21 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 9 | 0.21 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 9 | 0.21 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 9 | 0.21 |
| (1,21) | 1:52:A:PRO:HB3 | 1:54:A:ARG:H | 7 | 0.21 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 14 | 0.21 |
| (1,14) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 12 | 0.21 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 2 | 0.21 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 2 | 0.21 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 11 | 0.21 |
| (4,224) | 1:15:A:MET:CB | 1:60:A:LEU:H | 3 | 0.2 |
| (4,219) | 1:131:A:GLN:CB | 1:48:A:GLY:H | 9 | 0.2 |
| (4,75) | 1:15:A:MET:CB | 1:134:A:PHE:H | 19 | 0.2 |
| (4,68) | 1:15:A:MET:CB | 1:127:A:ARG:H | 3 | 0.2 |
| (3,808) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 18 | 0.2 |
| (3,808) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 18 | 0.2 |
| (3,808) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 18 | 0.2 |
| (3,808) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 18 | 0.2 |
| (3,808) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 18 | 0.2 |
| (3,808) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 18 | 0.2 |
| (3,796) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 14 | 0.2 |
| (3,796) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 14 | 0.2 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG21 | 6 | 0.2 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG22 | 6 | 0.2 |
| (3,733) | 1:151:A:PHE:HA | 1:156:A:ILE:HG23 | 6 | 0.2 |
| (3,699) | 1:142:A:ARG:HG2 | 1:145:A:GLU:HB2 | 18 | 0.2 |
| (3,699) | 1:142:A:ARG:HG3 | 1:145:A:GLU:HB2 | 18 | 0.2 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 19 | 0.2 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 19 | 0.2 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 19 | 0.2 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 17 | 0.2 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 19 | 0.2 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 19 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 11 | 0.2 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 6 | 0.2 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 6 | 0.2 |
| (3,122) | 1:25:A:PHE:HD1 | 1:32:A:SER:HB3 | 6 | 0.2 |
| (3,122) | 1:25:A:PHE:HD2 | 1:32:A:SER:HB3 | 6 | 0.2 |
| (3,90) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 10 | 0.2 |
| (3,90) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 10 | 0.2 |
| (3,90) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 10 | 0.2 |
| (1,9629) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 0.2 |
| (1,9629) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 20 | 0.2 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 11 | 0.2 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 11 | 0.2 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 8 | 0.2 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 8 | 0.2 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 6 | 0.2 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 6 | 0.2 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 6 | 0.2 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 6 | 0.2 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 6 | 0.2 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 6 | 0.2 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 7 | 0.2 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 7 | 0.2 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 7 | 0.2 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 7 | 0.2 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 7 | 0.2 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 7 | 0.2 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 2 | 0.2 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 2 | 0.2 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 17 | 0.2 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 17 | 0.2 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG21 | 14 | 0.2 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG22 | 14 | 0.2 |
| (1,9461) | 1:131:A:GLN:HE21 | 1:152:A:THR:HG23 | 14 | 0.2 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG21 | 14 | 0.2 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG22 | 14 | 0.2 |
| (1,9461) | 1:131:A:GLN:HE22 | 1:152:A:THR:HG23 | 14 | 0.2 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 11 | 0.2 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 11 | 0.2 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 11 | 0.2 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 11 | 0.2 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD11 | 17 | 0.2 |
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD12 | 17 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9321) | 1:106:A:LEU:HB2 | 1:158:A:ILE:HD13 | 17 | 0.2 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD11 | 17 | 0.2 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD12 | 17 | 0.2 |
| (1,9321) | 1:106:A:LEU:HB3 | 1:158:A:ILE:HD13 | 17 | 0.2 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 8 | 0.2 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 8 | 0.2 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG2 | 2 | 0.2 |
| (1,9249) | 1:98:A:SER:HB2 | 1:100:A:GLU:HG3 | 2 | 0.2 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG2 | 2 | 0.2 |
| (1,9249) | 1:98:A:SER:HB3 | 1:100:A:GLU:HG3 | 2 | 0.2 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 18 | 0.2 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 18 | 0.2 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 3 | 0.2 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 3 | 0.2 |
| (1,9013) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 17 | 0.2 |
| (1,9013) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 17 | 0.2 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 14 | 0.2 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 14 | 0.2 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 1 | 0.2 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 1 | 0.2 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG2 | 6 | 0.2 |
| (1,8953) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HG3 | 6 | 0.2 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 4 | 0.2 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 4 | 0.2 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 12 | 0.2 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 12 | 0.2 |
| (1,8877) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 10 | 0.2 |
| (1,8877) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 10 | 0.2 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 14 | 0.2 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 14 | 0.2 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 3 | 0.2 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 3 | 0.2 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 3 | 0.2 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 3 | 0.2 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 3 | 0.2 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 3 | 0.2 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 10 | 0.2 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 10 | 0.2 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 19 | 0.2 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 19 | 0.2 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 19 | 0.2 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 19 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 19 | 0.2 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 19 | 0.2 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 14 | 0.2 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 14 | 0.2 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 9 | 0.2 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 9 | 0.2 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 9 | 0.2 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 9 | 0.2 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 16 | 0.2 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 16 | 0.2 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 16 | 0.2 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 16 | 0.2 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 10 | 0.2 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 10 | 0.2 |
| (1,8612) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 5 | 0.2 |
| (1,8612) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 5 | 0.2 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 11 | 0.2 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 11 | 0.2 |
| (1,8523) | 1:1:A:MET:HB2 | 1:3:A:ASP:HA | 11 | 0.2 |
| (1,8523) | 1:1:A:MET:HB3 | 1:3:A:ASP:HA | 11 | 0.2 |
| (1,8236) | 1:113:A:CYS:H | 1:117:A:LYS:HD2 | 9 | 0.2 |
| (1,8215) | 1:108:A:SER:HA | 1:116:A:ALA:HA | 6 | 0.2 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 4 | 0.2 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 15 | 0.2 |
| (1,7632) | 1:27:A:HIS:HA | 1:29:A:THR:H | 7 | 0.2 |
| (1,7581) | 1:25:A:PHE:HA | 1:33:A:GLN:H | 18 | 0.2 |
| (1,7549) | 1:20:A:GLY:H | 1:21:A:ARG:HB3 | 1 | 0.2 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 1 | 0.2 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 1 | 0.2 |
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 5 | 0.2 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 5 | 0.2 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 17 | 0.2 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 12 | 0.2 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 12 | 0.2 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 12 | 0.2 |
| (1,7359) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD11 | 16 | 0.2 |
| (1,7359) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD12 | 16 | 0.2 |
| (1,7359) | 1:96:A:ILE:HG13 | 1:106:A:LEU:HD13 | 16 | 0.2 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 4 | 0.2 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 4 | 0.2 |
| (1,7184) | 1:132:A:LYS:HA | 1:132:A:LYS:HD2 | 1 | 0.2 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 17 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 16 | 0.2 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 16 | 0.2 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 16 | 0.2 |
| (1,7117) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 13 | 0.2 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE2 | 8 | 0.2 |
| (1,7103) | 1:77:A:LYS:HB3 | 1:77:A:LYS:HE3 | 8 | 0.2 |
| (1,7091) | 1:62:A:VAL:HG21 | 1:157:A:HIS:H | 1 | 0.2 |
| (1,7091) | 1:62:A:VAL:HG22 | 1:157:A:HIS:H | 1 | 0.2 |
| (1,7091) | 1:62:A:VAL:HG23 | 1:157:A:HIS:H | 1 | 0.2 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 10 | 0.2 |
| (1,7073) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 5 | 0.2 |
| (1,7073) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 5 | 0.2 |
| (1,7065) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 18 | 0.2 |
| (1,7027) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HD2 | 12 | 0.2 |
| (1,7025) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 19 | 0.2 |
| (1,7025) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 19 | 0.2 |
| (1,7025) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 19 | 0.2 |
| (1,7023) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HG3 | 3 | 0.2 |
| (1,7023) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HG3 | 3 | 0.2 |
| (1,7023) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HG3 | 3 | 0.2 |
| (1,7012) | 1:7:A:LEU:HD11 | 1:37:A:PRO:HB2 | 17 | 0.2 |
| (1,7012) | 1:7:A:LEU:HD12 | 1:37:A:PRO:HB2 | 17 | 0.2 |
| (1,7012) | 1:7:A:LEU:HD13 | 1:37:A:PRO:HB2 | 17 | 0.2 |
| (1,7008) | 1:36:A:ARG:HG3 | 1:37:A:PRO:HD2 | 10 | 0.2 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 2 | 0.2 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 16 | 0.2 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 16 | 0.2 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB2 | 14 | 0.2 |
| (1,6981) | 1:33:A:GLN:HE22 | 1:35:A:GLU:HB3 | 14 | 0.2 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 7 | 0.2 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 15 | 0.2 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 3 | 0.2 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 5 | 0.2 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 10 | 0.2 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 11 | 0.2 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 12 | 0.2 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 17 | 0.2 |
| (1,6911) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 20 | 0.2 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 17 | 0.2 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 17 | 0.2 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 17 | 0.2 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 6 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 11 | 0.2 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 11 | 0.2 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 11 | 0.2 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 11 | 0.2 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 20 | 0.2 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 3 | 0.2 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 2 | 0.2 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 15 | 0.2 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 15 | 0.2 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 15 | 0.2 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 15 | 0.2 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 15 | 0.2 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 15 | 0.2 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 13 | 0.2 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 11 | 0.2 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 3 | 0.2 |
| (1,6618) | 1:11:A:TRP:HH2 | 1:32:A:SER:H | 10 | 0.2 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 6 | 0.2 |
| (1,6590) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 6 | 0.2 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 2 | 0.2 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 3 | 0.2 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 3 | 0.2 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 3 | 0.2 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 3 | 0.2 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 3 | 0.2 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 3 | 0.2 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 1 | 0.2 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 14 | 0.2 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 18 | 0.2 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG21 | 14 | 0.2 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG22 | 14 | 0.2 |
| (1,6418) | 1:58:A:SER:H | 1:159:A:ILE:HG23 | 14 | 0.2 |
| (1,6354) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 20 | 0.2 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 4 | 0.2 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 4 | 0.2 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 7 | 0.2 |
| (1,6338) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 13 | 0.2 |
| (1,6338) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 13 | 0.2 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 9 | 0.2 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 9 | 0.2 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 9 | 0.2 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 9 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 12 | 0.2 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 7 | 0.2 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 16 | 0.2 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 16 | 0.2 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 16 | 0.2 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 12 | 0.2 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 12 | 0.2 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 12 | 0.2 |
| (1,6135) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HZ | 18 | 0.2 |
| (1,6135) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HZ | 18 | 0.2 |
| (1,6135) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HZ | 18 | 0.2 |
| (1,6133) | 1:55:A:VAL:H | 1:139:A:PHE:HZ | 5 | 0.2 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 7 | 0.2 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 1 | 0.2 |
| (1,6107) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 13 | 0.2 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 13 | 0.2 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 13 | 0.2 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 13 | 0.2 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 13 | 0.2 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 13 | 0.2 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 13 | 0.2 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 13 | 0.2 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 13 | 0.2 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 13 | 0.2 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 12 | 0.2 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 12 | 0.2 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 12 | 0.2 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 12 | 0.2 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 12 | 0.2 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 12 | 0.2 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 12 | 0.2 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 12 | 0.2 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 12 | 0.2 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 11 | 0.2 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 11 | 0.2 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 1 | 0.2 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 5 | 0.2 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 5 | 0.2 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 5 | 0.2 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 17 | 0.2 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 17 | 0.2 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 17 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 2 | 0.2 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 11 | 0.2 |
| (1,6016) | 1:131:A:GLN:HG2 | 1:132:A:LYS:H | 15 | 0.2 |
| (1,6016) | 1:131:A:GLN:HG3 | 1:132:A:LYS:H | 15 | 0.2 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 2 | 0.2 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 3 | 0.2 |
| (1,5961) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 11 | 0.2 |
| (1,5961) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 14 | 0.2 |
| (1,5961) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 15 | 0.2 |
| (1,5961) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 17 | 0.2 |
| (1,5949) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 19 | 0.2 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 13 | 0.2 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 4 | 0.2 |
| (1,5912) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 4 | 0.2 |
| (1,5897) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 3 | 0.2 |
| (1,5897) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 3 | 0.2 |
| (1,5897) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 3 | 0.2 |
| (1,5887) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 14 | 0.2 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 17 | 0.2 |
| (1,5850) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 3 | 0.2 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 16 | 0.2 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 20 | 0.2 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 8 | 0.2 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 6 | 0.2 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 6 | 0.2 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 20 | 0.2 |
| (1,5745) | 1:109:A:GLN:H | 1:110:A:PHE:H | 3 | 0.2 |
| (1,5745) | 1:109:A:GLN:H | 1:110:A:PHE:H | 15 | 0.2 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 5 | 0.2 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 17 | 0.2 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 3 | 0.2 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 3 | 0.2 |
| (1,5537) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 3 | 0.2 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 3 | 0.2 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 3 | 0.2 |
| (1,5537) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 3 | 0.2 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 3 | 0.2 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 3 | 0.2 |
| (1,5537) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 3 | 0.2 |
| (1,5486) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 18 | 0.2 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 15 | 0.2 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 15 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 15 | 0.2 |
| (1,5442) | 1:93:A:ILE:H | 1:94:A:GLN:H | 16 | 0.2 |
| (1,5406) | 1:88:A:LEU:H | 1:91:A:GLY:H | 13 | 0.2 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 16 | 0.2 |
| (1,5394) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 5 | 0.2 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 11 | 0.2 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 11 | 0.2 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 11 | 0.2 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 11 | 0.2 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 7 | 0.2 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 7 | 0.2 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 7 | 0.2 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 13 | 0.2 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 13 | 0.2 |
| (1,5215) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 13 | 0.2 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB1 | 16 | 0.2 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB2 | 16 | 0.2 |
| (1,5213) | 1:64:A:HIS:H | 1:85:A:ALA:HB3 | 16 | 0.2 |
| (1,5200) | 1:81:A:THR:H | 1:85:A:ALA:H | 8 | 0.2 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 14 | 0.2 |
| (1,5182) | 1:83:A:GLU:H | 1:84:A:GLU:H | 18 | 0.2 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 5 | 0.2 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 3 | 0.2 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 3 | 0.2 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 3 | 0.2 |
| (1,5133) | 1:81:A:THR:HA | 1:82:A:LYS:H | 17 | 0.2 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 12 | 0.2 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 12 | 0.2 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 12 | 0.2 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 5 | 0.2 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 15 | 0.2 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 14 | 0.2 |
| (1,5022) | 1:74:A:ARG:H | 1:74:A:ARG:HG2 | 7 | 0.2 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 6 | 0.2 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 1 | 0.2 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 1 | 0.2 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 1 | 0.2 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 11 | 0.2 |
| (1,4984) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 10 | 0.2 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 2 | 0.2 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 2 | 0.2 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 16 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4939) | 1:66:A:GLN:H | 1:67:A:SER:H | 4 | 0.2 |
| (1,4937) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 15 | 0.2 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 8 | 0.2 |
| (1,4901) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 17 | 0.2 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 16 | 0.2 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 16 | 0.2 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 16 | 0.2 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 6 | 0.2 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 6 | 0.2 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 6 | 0.2 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 14 | 0.2 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 14 | 0.2 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 14 | 0.2 |
| (1,4846) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 15 | 0.2 |
| (1,4846) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 15 | 0.2 |
| (1,4846) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 15 | 0.2 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 2 | 0.2 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 2 | 0.2 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 2 | 0.2 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 20 | 0.2 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 17 | 0.2 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 17 | 0.2 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 17 | 0.2 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 8 | 0.2 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 8 | 0.2 |
| (1,4789) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 8 | 0.2 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 18 | 0.2 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 13 | 0.2 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 12 | 0.2 |
| (1,4751) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 1 | 0.2 |
| (1,4721) | 1:55:A:VAL:HG21 | 1:125:A:PHE:H | 16 | 0.2 |
| (1,4721) | 1:55:A:VAL:HG22 | 1:125:A:PHE:H | 16 | 0.2 |
| (1,4721) | 1:55:A:VAL:HG23 | 1:125:A:PHE:H | 16 | 0.2 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 6 | 0.2 |
| (1,4694) | 1:55:A:VAL:H | 1:56:A:ARG:H | 12 | 0.2 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 3 | 0.2 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 3 | 0.2 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 3 | 0.2 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 8 | 0.2 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 8 | 0.2 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 8 | 0.2 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 8 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 8 | 0.2 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 8 | 0.2 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 8 | 0.2 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 8 | 0.2 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 8 | 0.2 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 11 | 0.2 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 11 | 0.2 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 11 | 0.2 |
| (1,4635) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 2 | 0.2 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 9 | 0.2 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 9 | 0.2 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 15 | 0.2 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 15 | 0.2 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 2 | 0.2 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 2 | 0.2 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 6 | 0.2 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 6 | 0.2 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 11 | 0.2 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 11 | 0.2 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 17 | 0.2 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 17 | 0.2 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 10 | 0.2 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 10 | 0.2 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 10 | 0.2 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 10 | 0.2 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 10 | 0.2 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 10 | 0.2 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 10 | 0.2 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 10 | 0.2 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 13 | 0.2 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 13 | 0.2 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 17 | 0.2 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 17 | 0.2 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 18 | 0.2 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 18 | 0.2 |
| (1,4261) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 12 | 0.2 |
| (1,4261) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 12 | 0.2 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 13 | 0.2 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 13 | 0.2 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 16 | 0.2 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 16 | 0.2 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 5 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 5 | 0.2 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 14 | 0.2 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 14 | 0.2 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 6 | 0.2 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 6 | 0.2 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 13 | 0.2 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 13 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 1 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 1 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 3 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 3 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 6 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 6 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 10 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 10 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 11 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 11 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 14 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 14 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 17 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 17 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 20 | 0.2 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 20 | 0.2 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 13 | 0.2 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 13 | 0.2 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB2 | 7 | 0.2 |
| (1,3809) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 7 | 0.2 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB2 | 7 | 0.2 |
| (1,3809) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 7 | 0.2 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB2 | 7 | 0.2 |
| (1,3809) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 7 | 0.2 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 11 | 0.2 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 11 | 0.2 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 17 | 0.2 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 17 | 0.2 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 11 | 0.2 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 11 | 0.2 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 17 | 0.2 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 17 | 0.2 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 19 | 0.2 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 19 | 0.2 |
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 17 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3557) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 17 | 0.2 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE1 | 17 | 0.2 |
| (1,3555) | 1:13:A:LYS:HD2 | 1:24:A:TYR:HE2 | 17 | 0.2 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE1 | 17 | 0.2 |
| (1,3555) | 1:13:A:LYS:HD3 | 1:24:A:TYR:HE2 | 17 | 0.2 |
| (1,3523) | 1:6:A:LYS:HB2 | 1:7:A:LEU:H | 8 | 0.2 |
| (1,3523) | 1:6:A:LYS:HB3 | 1:7:A:LEU:H | 8 | 0.2 |
| (1,3487) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 3 | 0.2 |
| (1,3487) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 3 | 0.2 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 4 | 0.2 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 4 | 0.2 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 19 | 0.2 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 19 | 0.2 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 19 | 0.2 |
| (1,3367) | 1:153:A:ASP:H | 1:155:A:GLY:H | 20 | 0.2 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 8 | 0.2 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 8 | 0.2 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 20 | 0.2 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 20 | 0.2 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 13 | 0.2 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 13 | 0.2 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 16 | 0.2 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 16 | 0.2 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 6 | 0.2 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 12 | 0.2 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 20 | 0.2 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 1 | 0.2 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 1 | 0.2 |
| (1,3137) | 1:49:A:GLN:HA | 1:49:A:GLN:HB3 | 11 | 0.2 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 2 | 0.2 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 7 | 0.2 |
| (1,3051) | 1:36:A:ARG:HA | 1:36:A:ARG:HG3 | 4 | 0.2 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 2 | 0.2 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB2 | 10 | 0.2 |
| (1,3039) | 1:36:A:ARG:HA | 1:36:A:ARG:HB3 | 10 | 0.2 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 11 | 0.2 |
| (1,3011) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 3 | 0.2 |
| (1,3011) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 12 | 0.2 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 6 | 0.2 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 6 | 0.2 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 6 | 0.2 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 7 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 15 | 0.2 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 3 | 0.2 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 5 | 0.2 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 10 | 0.2 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 11 | 0.2 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 12 | 0.2 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 17 | 0.2 |
| (1,2913) | 1:30:A:ASN:H | 1:30:A:ASN:HA | 20 | 0.2 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 4 | 0.2 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 4 | 0.2 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 4 | 0.2 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 11 | 0.2 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 20 | 0.2 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 3 | 0.2 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 19 | 0.2 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 19 | 0.2 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 3 | 0.2 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 3 | 0.2 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 12 | 0.2 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 12 | 0.2 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 12 | 0.2 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 12 | 0.2 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 12 | 0.2 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 12 | 0.2 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 13 | 0.2 |
| (1,2701) | 1:23:A:TYR:H | 1:23:A:TYR:HB3 | 9 | 0.2 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 6 | 0.2 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 6 | 0.2 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 6 | 0.2 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 1 | 0.2 |
| (1,2571) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 4 | 0.2 |
| (1,2571) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 10 | 0.2 |
| (1,2527) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 11 | 0.2 |
| (1,2527) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 11 | 0.2 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 7 | 0.2 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 7 | 0.2 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 7 | 0.2 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 7 | 0.2 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 9 | 0.2 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 9 | 0.2 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 9 | 0.2 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 9 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 11 | 0.2 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 2 | 0.2 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 8 | 0.2 |
| (1,2409) | 1:10:A:GLY:HA2 | 1:11:A:TRP:H | 4 | 0.2 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 13 | 0.2 |
| (1,2389) | 1:8:A:PRO:HD2 | 1:37:A:PRO:HG2 | 20 | 0.2 |
| (1,2371) | 1:7:A:LEU:HB3 | 1:8:A:PRO:HD2 | 17 | 0.2 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 17 | 0.2 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 17 | 0.2 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 17 | 0.2 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 7 | 0.2 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 7 | 0.2 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 7 | 0.2 |
| (1,2339) | 1:6:A:LYS:H | 1:7:A:LEU:H | 5 | 0.2 |
| (1,2321) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 9 | 0.2 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 7 | 0.2 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 19 | 0.2 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 8 | 0.2 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 9 | 0.2 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 18 | 0.2 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 11 | 0.2 |
| (1,2253) | 1:1:A:MET:HA | 1:2:A:ALA:H | 1 | 0.2 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 4 | 0.2 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 18 | 0.2 |
| (1,2237) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 16 | 0.2 |
| (1,2237) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 16 | 0.2 |
| (1,2237) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 16 | 0.2 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 6 | 0.2 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 6 | 0.2 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 6 | 0.2 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 20 | 0.2 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 20 | 0.2 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 20 | 0.2 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 1 | 0.2 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 14 | 0.2 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 18 | 0.2 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD21 | 20 | 0.2 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD22 | 20 | 0.2 |
| (1,2169) | 1:160:A:LEU:HB3 | 1:160:A:LEU:HD23 | 20 | 0.2 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 7 | 0.2 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 7 | 0.2 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 7 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 2 | 0.2 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 2 | 0.2 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 2 | 0.2 |
| (1,2101) | 1:158:A:ILE:HG21 | 1:159:A:ILE:H | 4 | 0.2 |
| (1,2101) | 1:158:A:ILE:HG22 | 1:159:A:ILE:H | 4 | 0.2 |
| (1,2101) | 1:158:A:ILE:HG23 | 1:159:A:ILE:H | 4 | 0.2 |
| (1,2089) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 16 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 7 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 7 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 7 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 7 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 7 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 7 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 7 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 7 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 7 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD11 | 11 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD12 | 11 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HD13 | 11 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD11 | 11 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD12 | 11 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HD13 | 11 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD11 | 11 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD12 | 11 | 0.2 |
| (1,2051) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HD13 | 11 | 0.2 |
| (1,2035) | 1:156:A:ILE:H | 1:156:A:ILE:HB | 20 | 0.2 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 16 | 0.2 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 16 | 0.2 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 16 | 0.2 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 9 | 0.2 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 12 | 0.2 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 6 | 0.2 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 6 | 0.2 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 6 | 0.2 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG21 | 12 | 0.2 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG22 | 12 | 0.2 |
| (1,1939) | 1:149:A:PRO:HA | 1:156:A:ILE:HG23 | 12 | 0.2 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 9 | 0.2 |
| (1,1899) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 4 | 0.2 |
| (1,1891) | 1:146:A:MET:HB3 | 1:146:A:MET:HG2 | 9 | 0.2 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 7 | 0.2 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 2 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 5 | 0.2 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 2 | 0.2 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 10 | 0.2 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 10 | 0.2 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 10 | 0.2 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG21 | 14 | 0.2 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG22 | 14 | 0.2 |
| (1,1807) | 1:143:A:THR:HA | 1:143:A:THR:HG23 | 14 | 0.2 |
| (1,1775) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 17 | 0.2 |
| (1,1775) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 17 | 0.2 |
| (1,1775) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 17 | 0.2 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 2 | 0.2 |
| (1,1739) | 1:140:A:ALA:H | 1:141:A:LEU:H | 15 | 0.2 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 3 | 0.2 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 4 | 0.2 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 4 | 0.2 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 4 | 0.2 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 1 | 0.2 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 2 | 0.2 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 2 | 0.2 |
| (1,1671) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 2 | 0.2 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 2 | 0.2 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 2 | 0.2 |
| (1,1671) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 2 | 0.2 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 2 | 0.2 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 2 | 0.2 |
| (1,1671) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 2 | 0.2 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 14 | 0.2 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 14 | 0.2 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 17 | 0.2 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 17 | 0.2 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 12 | 0.2 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 18 | 0.2 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 2 | 0.2 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 11 | 0.2 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 1 | 0.2 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 6 | 0.2 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 7 | 0.2 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 14 | 0.2 |
| (1,1525) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 1 | 0.2 |
| (1,1525) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 1 | 0.2 |
| (1,1525) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 6 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1525) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 6 | 0.2 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 15 | 0.2 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 15 | 0.2 |
| (1,1517) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 3 | 0.2 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 20 | 0.2 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 1 | 0.2 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 5 | 0.2 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 6 | 0.2 |
| (1,1433) | 1:129:A:GLN:H | 1:129:A:GLN:HA | 15 | 0.2 |
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 3 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 7 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 7 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 8 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 8 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 12 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 12 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 16 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 16 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 18 | 0.2 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 18 | 0.2 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 3 | 0.2 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 5 | 0.2 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 8 | 0.2 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 16 | 0.2 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 5 | 0.2 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 5 | 0.2 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 5 | 0.2 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 13 | 0.2 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 13 | 0.2 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 13 | 0.2 |
| (1,1255) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 11 | 0.2 |
| (1,1255) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 11 | 0.2 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 5 | 0.2 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 5 | 0.2 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 16 | 0.2 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 7 | 0.2 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 13 | 0.2 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 14 | 0.2 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 14 | 0.2 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 14 | 0.2 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 20 | 0.2 |
| (1,1149) | 1:115:A:SER:HB2 | 1:116:A:ALA:H | 11 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1149) | 1:115:A:SER:HB3 | 1:116:A:ALA:H | 11 | 0.2 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 8 | 0.2 |
| (1,1047) | 1:109:A:GLN:H | 1:110:A:PHE:H | 3 | 0.2 |
| (1,1047) | 1:109:A:GLN:H | 1:110:A:PHE:H | 15 | 0.2 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 4 | 0.2 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 18 | 0.2 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 20 | 0.2 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 1 | 0.2 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 9 | 0.2 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 18 | 0.2 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 18 | 0.2 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 18 | 0.2 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 1 | 0.2 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 5 | 0.2 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 12 | 0.2 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 12 | 0.2 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 12 | 0.2 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 17 | 0.2 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 1 | 0.2 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 11 | 0.2 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 8 | 0.2 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 8 | 0.2 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 8 | 0.2 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 8 | 0.2 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 8 | 0.2 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 8 | 0.2 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 8 | 0.2 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 8 | 0.2 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 8 | 0.2 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 15 | 0.2 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 15 | 0.2 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 15 | 0.2 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 19 | 0.2 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 19 | 0.2 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 19 | 0.2 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 18 | 0.2 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 4 | 0.2 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 12 | 0.2 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 2 | 0.2 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 2 | 0.2 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 2 | 0.2 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 3 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 3 | 0.2 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 3 | 0.2 |
| (1,535) | 1:93:A:ILE:H | 1:94:A:GLN:H | 16 | 0.2 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 12 | 0.2 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 1 | 0.2 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 6 | 0.2 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 12 | 0.2 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 16 | 0.2 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 5 | 0.2 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB3 | 5 | 0.2 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 1 | 0.2 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 1 | 0.2 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 1 | 0.2 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 12 | 0.2 |
| (1,441) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HB2 | 2 | 0.2 |
| (1,441) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HB2 | 2 | 0.2 |
| (1,441) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HB2 | 2 | 0.2 |
| (1,441) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 2 | 0.2 |
| (1,441) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 2 | 0.2 |
| (1,441) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 2 | 0.2 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD11 | 13 | 0.2 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD12 | 13 | 0.2 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD13 | 13 | 0.2 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 13 | 0.2 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 13 | 0.2 |
| (1,434) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 13 | 0.2 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 3 | 0.2 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 3 | 0.2 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 9 | 0.2 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 9 | 0.2 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 15 | 0.2 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 15 | 0.2 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 19 | 0.2 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 19 | 0.2 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 1 | 0.2 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 1 | 0.2 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 7 | 0.2 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 7 | 0.2 |
| (1,402) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 7 | 0.2 |
| (1,389) | 1:84:A:GLU:H | 1:86:A:LEU:H | 6 | 0.2 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 3 | 0.2 |
| (1,362) | 1:83:A:GLU:H | 1:84:A:GLU:H | 18 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 20 | 0.2 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 20 | 0.2 |
| (1,346) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 16 | 0.2 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 5 | 0.2 |
| (1,329) | 1:81:A:THR:HG21 | 1:83:A:GLU:H | 3 | 0.2 |
| (1,329) | 1:81:A:THR:HG22 | 1:83:A:GLU:H | 3 | 0.2 |
| (1,329) | 1:81:A:THR:HG23 | 1:83:A:GLU:H | 3 | 0.2 |
| (1,326) | 1:81:A:THR:HA | 1:82:A:LYS:H | 17 | 0.2 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 10 | 0.2 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 15 | 0.2 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 15 | 0.2 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 15 | 0.2 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 16 | 0.2 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 16 | 0.2 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 16 | 0.2 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 7 | 0.2 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 7 | 0.2 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 7 | 0.2 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 7 | 0.2 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 7 | 0.2 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 7 | 0.2 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 13 | 0.2 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 13 | 0.2 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 13 | 0.2 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 7 | 0.2 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 10 | 0.2 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 16 | 0.2 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 2 | 0.2 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 8 | 0.2 |
| (1,241) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 8 | 0.2 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 1 | 0.2 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 2 | 0.2 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 20 | 0.2 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 20 | 0.2 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 11 | 0.2 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 11 | 0.2 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 5 | 0.2 |
| (1,177) | 1:66:A:GLN:H | 1:67:A:SER:H | 4 | 0.2 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 8 | 0.2 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 2 | 0.2 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 1 | 0.2 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 1 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 9 | 0.2 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 14 | 0.2 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 15 | 0.2 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 18 | 0.2 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 13 | 0.2 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 6 | 0.2 |
| (1,47) | 1:55:A:VAL:H | 1:56:A:ARG:H | 12 | 0.2 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 10 | 0.2 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 10 | 0.2 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 10 | 0.2 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 10 | 0.2 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 10 | 0.2 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 10 | 0.2 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 4 | 0.2 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 4 | 0.2 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG2 | 18 | 0.2 |
| (1,30) | 1:54:A:ARG:H | 1:54:A:ARG:HG3 | 18 | 0.2 |
| (1,14) | 1:52:A:PRO:HA | 1:53:A:ALA:H | 2 | 0.2 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 13 | 0.19 |
| (4,215) | 1:131:A:GLN:CB | 1:44:A:GLY:H | 7 | 0.19 |
| (4,117) | 1:90:A:ASN:CB | 1:20:A:GLY:H | 5 | 0.19 |
| (4,92) | 1:15:A:MET:CB | 1:153:A:ASP:H | 1 | 0.19 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 15 | 0.19 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 15 | 0.19 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 15 | 0.19 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 15 | 0.19 |
| (3,884) | 1:77:A:LYS:HB2 | 1:79:A:THR:HA | 19 | 0.19 |
| (3,884) | 1:77:A:LYS:HB3 | 1:79:A:THR:HA | 19 | 0.19 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 15 | 0.19 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 15 | 0.19 |
| (3,742) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD21 | 10 | 0.19 |
| (3,742) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD22 | 10 | 0.19 |
| (3,742) | 1:158:A:ILE:HG21 | 1:160:A:LEU:HD23 | 10 | 0.19 |
| (3,742) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD21 | 10 | 0.19 |
| (3,742) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD22 | 10 | 0.19 |
| (3,742) | 1:158:A:ILE:HG22 | 1:160:A:LEU:HD23 | 10 | 0.19 |
| (3,742) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD21 | 10 | 0.19 |
| (3,742) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD22 | 10 | 0.19 |
| (3,742) | 1:158:A:ILE:HG23 | 1:160:A:LEU:HD23 | 10 | 0.19 |
| (3,705) | 1:144:A:GLY:H | 1:146:A:MET:H | 12 | 0.19 |
| (3,701) | 1:142:A:ARG:H | 1:145:A:GLU:H | 2 | 0.19 |
| (3,596) | 1:111:A:SER:H | 1:113:A:CYS:H | 15 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 14 | 0.19 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 2 | 0.19 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 3 | 0.19 |
| (3,329) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 19 | 0.19 |
| (3,329) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 19 | 0.19 |
| (3,106) | 1:23:A:TYR:HE1 | 1:32:A:SER:HB3 | 17 | 0.19 |
| (3,106) | 1:23:A:TYR:HE2 | 1:32:A:SER:HB3 | 17 | 0.19 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 12 | 0.19 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 12 | 0.19 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 12 | 0.19 |
| (3,72) | 1:125:A:PHE:HZ | 1:127:A:ARG:H | 13 | 0.19 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 15 | 0.19 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 15 | 0.19 |
| (1,9580) | 1:150:A:VAL:H | 1:157:A:HIS:HB2 | 5 | 0.19 |
| (1,9580) | 1:150:A:VAL:H | 1:157:A:HIS:HB3 | 5 | 0.19 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 15 | 0.19 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 15 | 0.19 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 1 | 0.19 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 1 | 0.19 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 14 | 0.19 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 14 | 0.19 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 15 | 0.19 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 15 | 0.19 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 4 | 0.19 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 4 | 0.19 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 12 | 0.19 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 12 | 0.19 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 3 | 0.19 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 3 | 0.19 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 12 | 0.19 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 12 | 0.19 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 15 | 0.19 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 15 | 0.19 |
| (1,9210) | 1:95:A:LYS:HD2 | 1:96:A:ILE:H | 8 | 0.19 |
| (1,9210) | 1:95:A:LYS:HD3 | 1:96:A:ILE:H | 8 | 0.19 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 8 | 0.19 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 8 | 0.19 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 6 | 0.19 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 6 | 0.19 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 8 | 0.19 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 8 | 0.19 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 15 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 15 | 0.19 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 9 | 0.19 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 9 | 0.19 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 9 | 0.19 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 9 | 0.19 |
| (1,9013) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 19 | 0.19 |
| (1,9013) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 19 | 0.19 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 4 | 0.19 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 4 | 0.19 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 5 | 0.19 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 5 | 0.19 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD2 | 20 | 0.19 |
| (1,8955) | 1:73:A:TRP:HZ2 | 1:74:A:ARG:HD3 | 20 | 0.19 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 4 | 0.19 |
| (1,8897) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 4 | 0.19 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 19 | 0.19 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 19 | 0.19 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 19 | 0.19 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 19 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 2 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 2 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 2 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 2 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 2 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 2 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB2 | 19 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HB3 | 19 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB2 | 19 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HB3 | 19 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB2 | 19 | 0.19 |
| (1,8849) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HB3 | 19 | 0.19 |
| (1,8843) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD11 | 4 | 0.19 |
| (1,8843) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD12 | 4 | 0.19 |
| (1,8843) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HD13 | 4 | 0.19 |
| (1,8843) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD11 | 4 | 0.19 |
| (1,8843) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD12 | 4 | 0.19 |
| (1,8843) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HD13 | 4 | 0.19 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 18 | 0.19 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 18 | 0.19 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 18 | 0.19 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 18 | 0.19 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 18 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 18 | 0.19 |
| (1,8829) | 1:59:A:HIS:HB2 | 1:158:A:ILE:HA | 18 | 0.19 |
| (1,8829) | 1:59:A:HIS:HB3 | 1:158:A:ILE:HA | 18 | 0.19 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG21 | 6 | 0.19 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG22 | 6 | 0.19 |
| (1,8793) | 1:56:A:ARG:HD2 | 1:162:A:THR:HG23 | 6 | 0.19 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG21 | 6 | 0.19 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG22 | 6 | 0.19 |
| (1,8793) | 1:56:A:ARG:HD3 | 1:162:A:THR:HG23 | 6 | 0.19 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 13 | 0.19 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 13 | 0.19 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB2 | 1 | 0.19 |
| (1,8770) | 1:56:A:ARG:H | 1:163:A:GLU:HB3 | 1 | 0.19 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD21 | 1 | 0.19 |
| (1,8709) | 1:47:A:ASN:H | 1:47:A:ASN:HD22 | 1 | 0.19 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD21 | 18 | 0.19 |
| (1,8703) | 1:46:A:LYS:HG2 | 1:47:A:ASN:HD22 | 18 | 0.19 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD21 | 18 | 0.19 |
| (1,8703) | 1:46:A:LYS:HG3 | 1:47:A:ASN:HD22 | 18 | 0.19 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 19 | 0.19 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 19 | 0.19 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 19 | 0.19 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 19 | 0.19 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 6 | 0.19 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 6 | 0.19 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 20 | 0.19 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 20 | 0.19 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 9 | 0.19 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 9 | 0.19 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 9 | 0.19 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 9 | 0.19 |
| (1,8612) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 20 | 0.19 |
| (1,8612) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 20 | 0.19 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 10 | 0.19 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 10 | 0.19 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 10 | 0.19 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 10 | 0.19 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 10 | 0.19 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 10 | 0.19 |
| (1,8601) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD2 | 4 | 0.19 |
| (1,8601) | 1:13:A:LYS:HB2 | 1:13:A:LYS:HD3 | 4 | 0.19 |
| (1,8597) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8597) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 0.19 |
| (1,8590) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 14 | 0.19 |
| (1,8590) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 14 | 0.19 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 9 | 0.19 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 9 | 0.19 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 14 | 0.19 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 14 | 0.19 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 14 | 0.19 |
| (1,8166) | 1:98:A:SER:H | 1:102:A:ASP:H | 15 | 0.19 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 2 | 0.19 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 5 | 0.19 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 3 | 0.19 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 3 | 0.19 |
| (1,7642) | 1:28:A:ILE:H | 1:31:A:ALA:H | 18 | 0.19 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 4 | 0.19 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB2 | 7 | 0.19 |
| (1,7506) | 1:13:A:LYS:HA | 1:35:A:GLU:HB3 | 7 | 0.19 |
| (1,7485) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 20 | 0.19 |
| (1,7485) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 20 | 0.19 |
| (1,7337) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 12 | 0.19 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 5 | 0.19 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 5 | 0.19 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 5 | 0.19 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 8 | 0.19 |
| (1,7304) | 1:40:A:ASN:HA | 1:40:A:ASN:HD22 | 10 | 0.19 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB1 | 2 | 0.19 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB2 | 2 | 0.19 |
| (1,7261) | 1:29:A:THR:HA | 1:137:A:ALA:HB3 | 2 | 0.19 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 13 | 0.19 |
| (1,7077) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HA | 12 | 0.19 |
| (1,7077) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HA | 12 | 0.19 |
| (1,7077) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HA | 12 | 0.19 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 4 | 0.19 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 19 | 0.19 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 19 | 0.19 |
| (1,7031) | 1:38:A:SER:HA | 1:39:A:GLY:H | 15 | 0.19 |
| (1,7000) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 7 | 0.19 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 8 | 0.19 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 8 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 3 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 3 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 7 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 7 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 10 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 10 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 11 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 11 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 13 | 0.19 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 13 | 0.19 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 1 | 0.19 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 1 | 0.19 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 4 | 0.19 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 4 | 0.19 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 11 | 0.19 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 11 | 0.19 |
| (1,6953) | 1:34:A:TRP:H | 1:35:A:GLU:H | 14 | 0.19 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 4 | 0.19 |
| (1,6925) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 15 | 0.19 |
| (1,6925) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 15 | 0.19 |
| (1,6925) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 15 | 0.19 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 6 | 0.19 |
| (1,6909) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 6 | 0.19 |
| (1,6909) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 6 | 0.19 |
| (1,6909) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 6 | 0.19 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 16 | 0.19 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 15 | 0.19 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 5 | 0.19 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 8 | 0.19 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 17 | 0.19 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 3 | 0.19 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 11 | 0.19 |
| (1,6745) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 4 | 0.19 |
| (1,6745) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 4 | 0.19 |
| (1,6745) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 4 | 0.19 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 4 | 0.19 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 10 | 0.19 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 13 | 0.19 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 13 | 0.19 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 13 | 0.19 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG21 | 20 | 0.19 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG22 | 20 | 0.19 |
| (1,6703) | 1:16:A:SER:H | 1:22:A:VAL:HG23 | 20 | 0.19 |
| (1,6699) | 1:16:A:SER:H | 1:21:A:ARG:H | 17 | 0.19 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 6 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 6 | 0.19 |
| (1,6642) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 19 | 0.19 |
| (1,6642) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 19 | 0.19 |
| (1,6642) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 19 | 0.19 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 19 | 0.19 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 2 | 0.19 |
| (1,6562) | 1:11:A:TRP:H | 1:12:A:GLU:H | 12 | 0.19 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 8 | 0.19 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 8 | 0.19 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 8 | 0.19 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 11 | 0.19 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 4 | 0.19 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 14 | 0.19 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 19 | 0.19 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 8 | 0.19 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 5 | 0.19 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 3 | 0.19 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 19 | 0.19 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 13 | 0.19 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 13 | 0.19 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 13 | 0.19 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 13 | 0.19 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 13 | 0.19 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 13 | 0.19 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 13 | 0.19 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 13 | 0.19 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 18 | 0.19 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 18 | 0.19 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 8 | 0.19 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 20 | 0.19 |
| (1,6220) | 1:145:A:GLU:HB3 | 1:161:A:ARG:H | 9 | 0.19 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 11 | 0.19 |
| (1,6216) | 1:145:A:GLU:HB2 | 1:146:A:MET:H | 18 | 0.19 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 7 | 0.19 |
| (1,6202) | 1:144:A:GLY:H | 1:145:A:GLU:H | 2 | 0.19 |
| (1,6202) | 1:144:A:GLY:H | 1:145:A:GLU:H | 4 | 0.19 |
| (1,6202) | 1:144:A:GLY:H | 1:145:A:GLU:H | 12 | 0.19 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 2 | 0.19 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 2 | 0.19 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 4 | 0.19 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 4 | 0.19 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 13 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 13 | 0.19 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 14 | 0.19 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 4 | 0.19 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 10 | 0.19 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 17 | 0.19 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 20 | 0.19 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 5 | 0.19 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 17 | 0.19 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 17 | 0.19 |
| (1,5995) | 1:130:A:MET:HB3 | 1:131:A:GLN:H | 10 | 0.19 |
| (1,5979) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 13 | 0.19 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 4 | 0.19 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 15 | 0.19 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 19 | 0.19 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 8 | 0.19 |
| (1,5902) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB1 | 5 | 0.19 |
| (1,5902) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB2 | 5 | 0.19 |
| (1,5902) | 1:54:A:ARG:HG2 | 1:124:A:ALA:HB3 | 5 | 0.19 |
| (1,5902) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB1 | 5 | 0.19 |
| (1,5902) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB2 | 5 | 0.19 |
| (1,5902) | 1:54:A:ARG:HG3 | 1:124:A:ALA:HB3 | 5 | 0.19 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 20 | 0.19 |
| (1,5893) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 9 | 0.19 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 1 | 0.19 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 7 | 0.19 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 14 | 0.19 |
| (1,5777) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 17 | 0.19 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 13 | 0.19 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 1 | 0.19 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 1 | 0.19 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 6 | 0.19 |
| (1,5631) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HA | 19 | 0.19 |
| (1,5631) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HA | 19 | 0.19 |
| (1,5631) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HA | 19 | 0.19 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 8 | 0.19 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 11 | 0.19 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 13 | 0.19 |
| (1,5573) | 1:98:A:SER:H | 1:99:A:GLY:H | 16 | 0.19 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 20 | 0.19 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 20 | 0.19 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 20 | 0.19 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 8 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 8 | 0.19 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 8 | 0.19 |
| (1,5520) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 16 | 0.19 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 14 | 0.19 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD11 | 14 | 0.19 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD12 | 14 | 0.19 |
| (1,5445) | 1:93:A:ILE:H | 1:158:A:ILE:HD13 | 14 | 0.19 |
| (1,5394) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 13 | 0.19 |
| (1,5394) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 17 | 0.19 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 19 | 0.19 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 19 | 0.19 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 19 | 0.19 |
| (1,5329) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HB2 | 13 | 0.19 |
| (1,5329) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HB2 | 13 | 0.19 |
| (1,5329) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HB2 | 13 | 0.19 |
| (1,5325) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 8 | 0.19 |
| (1,5317) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 16 | 0.19 |
| (1,5305) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 16 | 0.19 |
| (1,5295) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 2 | 0.19 |
| (1,5295) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 14 | 0.19 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 11 | 0.19 |
| (1,5165) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 3 | 0.19 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG21 | 17 | 0.19 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG22 | 17 | 0.19 |
| (1,5070) | 1:64:A:HIS:H | 1:78:A:ILE:HG23 | 17 | 0.19 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 11 | 0.19 |
| (1,5033) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 1 | 0.19 |
| (1,5031) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 11 | 0.19 |
| (1,5028) | 1:74:A:ARG:H | 1:75:A:GLN:H | 5 | 0.19 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 1 | 0.19 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 1 | 0.19 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 1 | 0.19 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 1 | 0.19 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 14 | 0.19 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 14 | 0.19 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 14 | 0.19 |
| (1,4961) | 1:68:A:ARG:HA | 1:68:A:ARG:HB3 | 9 | 0.19 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 14 | 0.19 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 14 | 0.19 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 14 | 0.19 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 17 | 0.19 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 17 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 17 | 0.19 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 2 | 0.19 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 2 | 0.19 |
| (1,4909) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 2 | 0.19 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 1 | 0.19 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD11 | 17 | 0.19 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD12 | 17 | 0.19 |
| (1,4897) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HD13 | 17 | 0.19 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD11 | 17 | 0.19 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD12 | 17 | 0.19 |
| (1,4897) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HD13 | 17 | 0.19 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 9 | 0.19 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 9 | 0.19 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 9 | 0.19 |
| (1,4871) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 19 | 0.19 |
| (1,4871) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 19 | 0.19 |
| (1,4871) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 19 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 3 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 3 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 3 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 6 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 6 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 6 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 18 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 18 | 0.19 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 18 | 0.19 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 5 | 0.19 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 15 | 0.19 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 16 | 0.19 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 16 | 0.19 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 16 | 0.19 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 19 | 0.19 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 19 | 0.19 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 19 | 0.19 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 3 | 0.19 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 5 | 0.19 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 3 | 0.19 |
| (1,4773) | 1:58:A:SER:HA | 1:59:A:HIS:H | 14 | 0.19 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 5 | 0.19 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 6 | 0.19 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 8 | 0.19 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 9 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 5 | 0.19 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG11 | 20 | 0.19 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG12 | 20 | 0.19 |
| (1,4690) | 1:55:A:VAL:H | 1:55:A:VAL:HG13 | 20 | 0.19 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG11 | 2 | 0.19 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG12 | 2 | 0.19 |
| (1,4643) | 1:52:A:PRO:HB2 | 1:55:A:VAL:HG13 | 2 | 0.19 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 8 | 0.19 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 8 | 0.19 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 9 | 0.19 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 9 | 0.19 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 0.19 |
| (1,4495) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 20 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 12 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 12 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 12 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 12 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 12 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 12 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 13 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 13 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 13 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 13 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 13 | 0.19 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 13 | 0.19 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 1 | 0.19 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 1 | 0.19 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 2 | 0.19 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 2 | 0.19 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 16 | 0.19 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 16 | 0.19 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 18 | 0.19 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 18 | 0.19 |
| (1,4381) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 18 | 0.19 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE1 | 18 | 0.19 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE2 | 18 | 0.19 |
| (1,4381) | 1:122:A:LEU:HB3 | 1:130:A:MET:HE3 | 18 | 0.19 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 3 | 0.19 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 3 | 0.19 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 1 | 0.19 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 1 | 0.19 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 16 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 16 | 0.19 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 20 | 0.19 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 20 | 0.19 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 3 | 0.19 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 3 | 0.19 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 5 | 0.19 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 5 | 0.19 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 9 | 0.19 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 9 | 0.19 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 10 | 0.19 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 10 | 0.19 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 10 | 0.19 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 10 | 0.19 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 3 | 0.19 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 3 | 0.19 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 11 | 0.19 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 11 | 0.19 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 12 | 0.19 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 12 | 0.19 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 11 | 0.19 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 11 | 0.19 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 15 | 0.19 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 15 | 0.19 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 15 | 0.19 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 15 | 0.19 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 12 | 0.19 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 12 | 0.19 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 8 | 0.19 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 8 | 0.19 |
| (1,3851) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 8 | 0.19 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 8 | 0.19 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 8 | 0.19 |
| (1,3851) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 8 | 0.19 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 18 | 0.19 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 18 | 0.19 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 11 | 0.19 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 11 | 0.19 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 11 | 0.19 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 11 | 0.19 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 11 | 0.19 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 11 | 0.19 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 4 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 4 | 0.19 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 18 | 0.19 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 18 | 0.19 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 7 | 0.19 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 7 | 0.19 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 20 | 0.19 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 20 | 0.19 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 20 | 0.19 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 20 | 0.19 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 20 | 0.19 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 20 | 0.19 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 20 | 0.19 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 20 | 0.19 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 20 | 0.19 |
| (1,3433) | 1:27:A:HIS:H | 1:29:A:THR:H | 1 | 0.19 |
| (1,3417) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 2 | 0.19 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 5 | 0.19 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 10 | 0.19 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 17 | 0.19 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 17 | 0.19 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 17 | 0.19 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 5 | 0.19 |
| (1,3265) | 1:95:A:LYS:H | 1:97:A:LYS:H | 8 | 0.19 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 1 | 0.19 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 5 | 0.19 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 19 | 0.19 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 11 | 0.19 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 11 | 0.19 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 11 | 0.19 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 9 | 0.19 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 9 | 0.19 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 20 | 0.19 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 20 | 0.19 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 6 | 0.19 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 10 | 0.19 |
| (1,3101) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 9 | 0.19 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 11 | 0.19 |
| (1,3069) | 1:37:A:PRO:HB2 | 1:38:A:SER:H | 18 | 0.19 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 12 | 0.19 |
| (1,3043) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 7 | 0.19 |
| (1,3011) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 2 | 0.19 |
| (1,3011) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 15 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2973) | 1:34:A:TRP:H | 1:35:A:GLU:H | 14 | 0.19 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 10 | 0.19 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 10 | 0.19 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 14 | 0.19 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 14 | 0.19 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 1 | 0.19 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 1 | 0.19 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 1 | 0.19 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 6 | 0.19 |
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 9 | 0.19 |
| (1,2911) | 1:29:A:THR:HG21 | 1:31:A:ALA:H | 20 | 0.19 |
| (1,2911) | 1:29:A:THR:HG22 | 1:31:A:ALA:H | 20 | 0.19 |
| (1,2911) | 1:29:A:THR:HG23 | 1:31:A:ALA:H | 20 | 0.19 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 19 | 0.19 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 12 | 0.19 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 16 | 0.19 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 16 | 0.19 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 16 | 0.19 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 4 | 0.19 |
| (1,2841) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 1 | 0.19 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 15 | 0.19 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 5 | 0.19 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 8 | 0.19 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 17 | 0.19 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 3 | 0.19 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 11 | 0.19 |
| (1,2747) | 1:24:A:TYR:HD1 | 1:25:A:PHE:H | 11 | 0.19 |
| (1,2747) | 1:24:A:TYR:HD2 | 1:25:A:PHE:H | 11 | 0.19 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 15 | 0.19 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 17 | 0.19 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 8 | 0.19 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 8 | 0.19 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 8 | 0.19 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 8 | 0.19 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 8 | 0.19 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 8 | 0.19 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 8 | 0.19 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 8 | 0.19 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 8 | 0.19 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 6 | 0.19 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 6 | 0.19 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 6 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 6 | 0.19 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 6 | 0.19 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 6 | 0.19 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 6 | 0.19 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 6 | 0.19 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 6 | 0.19 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 13 | 0.19 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 13 | 0.19 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 13 | 0.19 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 13 | 0.19 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 13 | 0.19 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 13 | 0.19 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 13 | 0.19 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 13 | 0.19 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 13 | 0.19 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 17 | 0.19 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 17 | 0.19 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 17 | 0.19 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 17 | 0.19 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 17 | 0.19 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 17 | 0.19 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 17 | 0.19 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 17 | 0.19 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 17 | 0.19 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 4 | 0.19 |
| (1,2663) | 1:21:A:ARG:HB3 | 1:22:A:VAL:H | 19 | 0.19 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 17 | 0.19 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 2 | 0.19 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 2 | 0.19 |
| (1,2605) | 1:16:A:SER:H | 1:21:A:ARG:H | 17 | 0.19 |
| (1,2571) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 5 | 0.19 |
| (1,2571) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 7 | 0.19 |
| (1,2571) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 11 | 0.19 |
| (1,2571) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 12 | 0.19 |
| (1,2571) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 16 | 0.19 |
| (1,2571) | 1:14:A:ARG:HG2 | 1:14:A:ARG:HD2 | 20 | 0.19 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 1 | 0.19 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 2 | 0.19 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 2 | 0.19 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 2 | 0.19 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 19 | 0.19 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 19 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 19 | 0.19 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 19 | 0.19 |
| (1,2507) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 9 | 0.19 |
| (1,2507) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 9 | 0.19 |
| (1,2507) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 9 | 0.19 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 20 | 0.19 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 2 | 0.19 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 13 | 0.19 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 11 | 0.19 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 4 | 0.19 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 14 | 0.19 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 19 | 0.19 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 12 | 0.19 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 15 | 0.19 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 17 | 0.19 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 17 | 0.19 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 17 | 0.19 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 1 | 0.19 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 4 | 0.19 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 10 | 0.19 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 8 | 0.19 |
| (1,2233) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 19 | 0.19 |
| (1,2233) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 19 | 0.19 |
| (1,2233) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 19 | 0.19 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 13 | 0.19 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 13 | 0.19 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 13 | 0.19 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 13 | 0.19 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 13 | 0.19 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 13 | 0.19 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 13 | 0.19 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 13 | 0.19 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 13 | 0.19 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 5 | 0.19 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 3 | 0.19 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 19 | 0.19 |
| (1,2167) | 1:160:A:LEU:HD11 | 1:161:A:ARG:H | 2 | 0.19 |
| (1,2167) | 1:160:A:LEU:HD12 | 1:161:A:ARG:H | 2 | 0.19 |
| (1,2167) | 1:160:A:LEU:HD13 | 1:161:A:ARG:H | 2 | 0.19 |
| (1,2093) | 1:158:A:ILE:HA | 1:158:A:ILE:HB | 16 | 0.19 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 15 | 0.19 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 15 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 15 | 0.19 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 3 | 0.19 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 3 | 0.19 |
| (1,2015) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 6 | 0.19 |
| (1,2015) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 6 | 0.19 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 17 | 0.19 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 17 | 0.19 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 8 | 0.19 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 20 | 0.19 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 10 | 0.19 |
| (1,1985) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 10 | 0.19 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 11 | 0.19 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 11 | 0.19 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 11 | 0.19 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 4 | 0.19 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 4 | 0.19 |
| (1,1957) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 4 | 0.19 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 20 | 0.19 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 20 | 0.19 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 20 | 0.19 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 14 | 0.19 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 12 | 0.19 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 11 | 0.19 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 7 | 0.19 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 16 | 0.19 |
| (1,1823) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 9 | 0.19 |
| (1,1821) | 1:144:A:GLY:H | 1:145:A:GLU:H | 2 | 0.19 |
| (1,1821) | 1:144:A:GLY:H | 1:145:A:GLU:H | 4 | 0.19 |
| (1,1821) | 1:144:A:GLY:H | 1:145:A:GLU:H | 12 | 0.19 |
| (1,1729) | 1:55:A:VAL:HG21 | 1:139:A:PHE:HZ | 3 | 0.19 |
| (1,1729) | 1:55:A:VAL:HG22 | 1:139:A:PHE:HZ | 3 | 0.19 |
| (1,1729) | 1:55:A:VAL:HG23 | 1:139:A:PHE:HZ | 3 | 0.19 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 1 | 0.19 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 1 | 0.19 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 1 | 0.19 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 7 | 0.19 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 7 | 0.19 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 7 | 0.19 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 4 | 0.19 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 10 | 0.19 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 17 | 0.19 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 20 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 4 | 0.19 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 4 | 0.19 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 4 | 0.19 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 5 | 0.19 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 19 | 0.19 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 19 | 0.19 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 10 | 0.19 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 17 | 0.19 |
| (1,1525) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 7 | 0.19 |
| (1,1525) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 7 | 0.19 |
| (1,1525) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 19 | 0.19 |
| (1,1525) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 19 | 0.19 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 1 | 0.19 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 12 | 0.19 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 12 | 0.19 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 16 | 0.19 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 16 | 0.19 |
| (1,1447) | 1:129:A:GLN:HA | 1:130:A:MET:H | 12 | 0.19 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 17 | 0.19 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 2 | 0.19 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 14 | 0.19 |
| (1,1425) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 9 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 1 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 1 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 13 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 13 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 14 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 14 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 19 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 19 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 20 | 0.19 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 20 | 0.19 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 13 | 0.19 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 16 | 0.19 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 5 | 0.19 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 5 | 0.19 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 6 | 0.19 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 6 | 0.19 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 6 | 0.19 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 6 | 0.19 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 6 | 0.19 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 6 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 3 | 0.19 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 3 | 0.19 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 20 | 0.19 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 20 | 0.19 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 20 | 0.19 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 2 | 0.19 |
| (1,1313) | 1:124:A:ALA:H | 1:125:A:PHE:H | 4 | 0.19 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 5 | 0.19 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 13 | 0.19 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 9 | 0.19 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 9 | 0.19 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 9 | 0.19 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 3 | 0.19 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 5 | 0.19 |
| (1,1271) | 1:122:A:LEU:HA | 1:122:A:LEU:HB3 | 9 | 0.19 |
| (1,1253) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 2 | 0.19 |
| (1,1253) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 2 | 0.19 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 3 | 0.19 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 3 | 0.19 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 1 | 0.19 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 1 | 0.19 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 10 | 0.19 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 10 | 0.19 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 11 | 0.19 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 11 | 0.19 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 7 | 0.19 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 14 | 0.19 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 11 | 0.19 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 11 | 0.19 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 11 | 0.19 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 8 | 0.19 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 8 | 0.19 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 8 | 0.19 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 1 | 0.19 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 1 | 0.19 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 17 | 0.19 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 13 | 0.19 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 12 | 0.19 |
| (1,1035) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 12 | 0.19 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 4 | 0.19 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 4 | 0.19 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 4 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 15 | 0.19 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 15 | 0.19 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 15 | 0.19 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 1 | 0.19 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 13 | 0.19 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 20 | 0.19 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 7 | 0.19 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 11 | 0.19 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 4 | 0.19 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 18 | 0.19 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 2 | 0.19 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 16 | 0.19 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 6 | 0.19 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 6 | 0.19 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 8 | 0.19 |
| (1,787) | 1:100:A:GLU:HB2 | 1:101:A:GLU:H | 18 | 0.19 |
| (1,787) | 1:100:A:GLU:HB3 | 1:101:A:GLU:H | 18 | 0.19 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 11 | 0.19 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 13 | 0.19 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 3 | 0.19 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 6 | 0.19 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 8 | 0.19 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 9 | 0.19 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 13 | 0.19 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 15 | 0.19 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 17 | 0.19 |
| (1,755) | 1:99:A:GLY:H | 1:99:A:GLY:HA2 | 19 | 0.19 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 15 | 0.19 |
| (1,745) | 1:98:A:SER:H | 1:99:A:GLY:H | 16 | 0.19 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 3 | 0.19 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 3 | 0.19 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 3 | 0.19 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 2 | 0.19 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 2 | 0.19 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 2 | 0.19 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 8 | 0.19 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 8 | 0.19 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 8 | 0.19 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 20 | 0.19 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 20 | 0.19 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 20 | 0.19 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 4 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 4 | 0.19 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 4 | 0.19 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 11 | 0.19 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 11 | 0.19 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 11 | 0.19 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 13 | 0.19 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 6 | 0.19 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 13 | 0.19 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 4 | 0.19 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 4 | 0.19 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 4 | 0.19 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 12 | 0.19 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 12 | 0.19 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 12 | 0.19 |
| (1,499) | 1:92:A:TYR:HA | 1:92:A:TYR:HB3 | 16 | 0.19 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 14 | 0.19 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 13 | 0.19 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB3 | 13 | 0.19 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 17 | 0.19 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB3 | 17 | 0.19 |
| (1,469) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 14 | 0.19 |
| (1,469) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 14 | 0.19 |
| (1,469) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 14 | 0.19 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 13 | 0.19 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 13 | 0.19 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 13 | 0.19 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 13 | 0.19 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 2 | 0.19 |
| (1,440) | 1:88:A:LEU:HA | 1:91:A:GLY:H | 8 | 0.19 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB2 | 16 | 0.19 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 16 | 0.19 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 12 | 0.19 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 8 | 0.19 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 8 | 0.19 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 8 | 0.19 |
| (1,414) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 8 | 0.19 |
| (1,414) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 8 | 0.19 |
| (1,414) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 8 | 0.19 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 13 | 0.19 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 13 | 0.19 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 13 | 0.19 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 13 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 13 | 0.19 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 13 | 0.19 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 1 | 0.19 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 1 | 0.19 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 1 | 0.19 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 11 | 0.19 |
| (1,366) | 1:84:A:GLU:H | 1:84:A:GLU:HB3 | 14 | 0.19 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 5 | 0.19 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 5 | 0.19 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 9 | 0.19 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 9 | 0.19 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 14 | 0.19 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 14 | 0.19 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 15 | 0.19 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD11 | 10 | 0.19 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD12 | 10 | 0.19 |
| (1,295) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HD13 | 10 | 0.19 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 19 | 0.19 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 1 | 0.19 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 1 | 0.19 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 1 | 0.19 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 14 | 0.19 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 14 | 0.19 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 14 | 0.19 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 1 | 0.19 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 12 | 0.19 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 14 | 0.19 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 17 | 0.19 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 4 | 0.19 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 5 | 0.19 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 10 | 0.19 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 13 | 0.19 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 1 | 0.19 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 1 | 0.19 |
| (1,198) | 1:70:A:PRO:HB2 | 1:71:A:SER:H | 11 | 0.19 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 10 | 0.19 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 5 | 0.19 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 7 | 0.19 |
| (1,152) | 1:63:A:LYS:HA | 1:64:A:HIS:H | 17 | 0.19 |
| (1,145) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HA | 17 | 0.19 |
| (1,145) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HA | 17 | 0.19 |
| (1,145) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HA | 17 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 5 | 0.19 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 15 | 0.19 |
| (1,124) | 1:60:A:LEU:HD21 | 1:158:A:ILE:H | 9 | 0.19 |
| (1,124) | 1:60:A:LEU:HD22 | 1:158:A:ILE:H | 9 | 0.19 |
| (1,124) | 1:60:A:LEU:HD23 | 1:158:A:ILE:H | 9 | 0.19 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 5 | 0.19 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 3 | 0.19 |
| (1,96) | 1:58:A:SER:HA | 1:59:A:HIS:H | 14 | 0.19 |
| (1,71) | 1:56:A:ARG:H | 1:56:A:ARG:HB3 | 4 | 0.19 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 9 | 0.19 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 5 | 0.19 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 5 | 0.19 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 5 | 0.19 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 14 | 0.19 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 14 | 0.19 |
| (4,320) | 1:131:A:GLN:CB | 1:21:A:ARG:H | 6 | 0.18 |
| (4,290) | 1:98:A:SER:CB | 1:13:A:LYS:H | 12 | 0.18 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE21 | 2 | 0.18 |
| (4,221) | 1:131:A:GLN:CB | 1:49:A:GLN:HE22 | 2 | 0.18 |
| (4,180) | 1:131:A:GLN:CB | 1:5:A:GLU:H | 10 | 0.18 |
| (4,110) | 1:90:A:ASN:CB | 1:11:A:TRP:H | 5 | 0.18 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE21 | 16 | 0.18 |
| (4,42) | 1:15:A:MET:CB | 1:94:A:GLN:HE22 | 16 | 0.18 |
| (3,949) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB2 | 3 | 0.18 |
| (3,949) | 1:95:A:LYS:HD2 | 1:100:A:GLU:HB3 | 3 | 0.18 |
| (3,949) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB2 | 3 | 0.18 |
| (3,949) | 1:95:A:LYS:HD3 | 1:100:A:GLU:HB3 | 3 | 0.18 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE2 | 18 | 0.18 |
| (3,946) | 1:94:A:GLN:HE21 | 1:97:A:LYS:HE3 | 18 | 0.18 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE2 | 18 | 0.18 |
| (3,946) | 1:94:A:GLN:HE22 | 1:97:A:LYS:HE3 | 18 | 0.18 |
| (3,941) | 1:94:A:GLN:HB2 | 1:98:A:SER:H | 20 | 0.18 |
| (3,941) | 1:94:A:GLN:HB3 | 1:98:A:SER:H | 20 | 0.18 |
| (3,819) | 1:56:A:ARG:HD2 | 1:163:A:GLU:H | 1 | 0.18 |
| (3,819) | 1:56:A:ARG:HD3 | 1:163:A:GLU:H | 1 | 0.18 |
| (3,705) | 1:144:A:GLY:H | 1:146:A:MET:H | 18 | 0.18 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 16 | 0.18 |
| (3,502) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 13 | 0.18 |
| (3,495) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HA | 5 | 0.18 |
| (3,495) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HA | 5 | 0.18 |
| (3,495) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HA | 5 | 0.18 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 10 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 10 | 0.18 |
| (3,315) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HD2 | 11 | 0.18 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 6 | 0.18 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 6 | 0.18 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 6 | 0.18 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 6 | 0.18 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 6 | 0.18 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB1 | 10 | 0.18 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB2 | 10 | 0.18 |
| (3,153) | 1:59:A:HIS:HD2 | 1:107:A:ALA:HB3 | 10 | 0.18 |
| (3,102) | 1:23:A:TYR:HD1 | 1:32:A:SER:H | 12 | 0.18 |
| (3,102) | 1:23:A:TYR:HD2 | 1:32:A:SER:H | 12 | 0.18 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 17 | 0.18 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 17 | 0.18 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 17 | 0.18 |
| (3,3) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 18 | 0.18 |
| (3,3) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 18 | 0.18 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 17 | 0.18 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 17 | 0.18 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 19 | 0.18 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 19 | 0.18 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 6 | 0.18 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 6 | 0.18 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 9 | 0.18 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 9 | 0.18 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 20 | 0.18 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 20 | 0.18 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 1 | 0.18 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 1 | 0.18 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB2 | 10 | 0.18 |
| (1,9532) | 1:141:A:LEU:HD21 | 1:161:A:ARG:HB3 | 10 | 0.18 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB2 | 10 | 0.18 |
| (1,9532) | 1:141:A:LEU:HD22 | 1:161:A:ARG:HB3 | 10 | 0.18 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB2 | 10 | 0.18 |
| (1,9532) | 1:141:A:LEU:HD23 | 1:161:A:ARG:HB3 | 10 | 0.18 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 14 | 0.18 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 14 | 0.18 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 14 | 0.18 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 14 | 0.18 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 14 | 0.18 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 14 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 5 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 5 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 6 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 6 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 10 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 10 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 11 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 11 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 19 | 0.18 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 19 | 0.18 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 9 | 0.18 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 9 | 0.18 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 9 | 0.18 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 9 | 0.18 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 9 | 0.18 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 9 | 0.18 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 9 | 0.18 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 9 | 0.18 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 20 | 0.18 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 20 | 0.18 |
| (1,9412) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 9 | 0.18 |
| (1,9412) | 1:126:A:SER:HB3 | 1:127:A:ARG:H | 9 | 0.18 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 11 | 0.18 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 11 | 0.18 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD21 | 9 | 0.18 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD22 | 9 | 0.18 |
| (1,9219) | 1:95:A:LYS:HD2 | 1:106:A:LEU:HD23 | 9 | 0.18 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD21 | 9 | 0.18 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD22 | 9 | 0.18 |
| (1,9219) | 1:95:A:LYS:HD3 | 1:106:A:LEU:HD23 | 9 | 0.18 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 12 | 0.18 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 12 | 0.18 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 1 | 0.18 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 1 | 0.18 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 11 | 0.18 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 11 | 0.18 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 2 | 0.18 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 2 | 0.18 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 11 | 0.18 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 11 | 0.18 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 12 | 0.18 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 12 | 0.18 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 12 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 12 | 0.18 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 12 | 0.18 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 12 | 0.18 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 2 | 0.18 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 2 | 0.18 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 2 | 0.18 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 2 | 0.18 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 15 | 0.18 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 15 | 0.18 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 15 | 0.18 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 15 | 0.18 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 16 | 0.18 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 16 | 0.18 |
| (1,8760) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB2 | 4 | 0.18 |
| (1,8760) | 1:55:A:VAL:HG21 | 1:138:A:SER:HB3 | 4 | 0.18 |
| (1,8760) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB2 | 4 | 0.18 |
| (1,8760) | 1:55:A:VAL:HG22 | 1:138:A:SER:HB3 | 4 | 0.18 |
| (1,8760) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB2 | 4 | 0.18 |
| (1,8760) | 1:55:A:VAL:HG23 | 1:138:A:SER:HB3 | 4 | 0.18 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 5 | 0.18 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 5 | 0.18 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 7 | 0.18 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 7 | 0.18 |
| (1,8677) | 1:40:A:ASN:HD21 | 1:42:A:SER:H | 16 | 0.18 |
| (1,8677) | 1:40:A:ASN:HD22 | 1:42:A:SER:H | 16 | 0.18 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB2 | 14 | 0.18 |
| (1,8675) | 1:40:A:ASN:HB2 | 1:41:A:SER:HB3 | 14 | 0.18 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB2 | 14 | 0.18 |
| (1,8675) | 1:40:A:ASN:HB3 | 1:41:A:SER:HB3 | 14 | 0.18 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 17 | 0.18 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 17 | 0.18 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 19 | 0.18 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 19 | 0.18 |
| (1,8648) | 1:32:A:SER:HB2 | 1:33:A:GLN:H | 6 | 0.18 |
| (1,8648) | 1:32:A:SER:HB3 | 1:33:A:GLN:H | 6 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 6 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 6 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 6 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 6 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 9 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 9 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 9 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 9 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 18 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 18 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 18 | 0.18 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 18 | 0.18 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 14 | 0.18 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 14 | 0.18 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 6 | 0.18 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 6 | 0.18 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 16 | 0.18 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 16 | 0.18 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 2 | 0.18 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 16 | 0.18 |
| (1,8110) | 1:93:A:ILE:HD11 | 1:97:A:LYS:H | 13 | 0.18 |
| (1,8110) | 1:93:A:ILE:HD12 | 1:97:A:LYS:H | 13 | 0.18 |
| (1,8110) | 1:93:A:ILE:HD13 | 1:97:A:LYS:H | 13 | 0.18 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 3 | 0.18 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 18 | 0.18 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 18 | 0.18 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 18 | 0.18 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 18 | 0.18 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 18 | 0.18 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 18 | 0.18 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 18 | 0.18 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 18 | 0.18 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 18 | 0.18 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 1 | 0.18 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 14 | 0.18 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 17 | 0.18 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 5 | 0.18 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 8 | 0.18 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 19 | 0.18 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 2 | 0.18 |
| (1,7604) | 1:26:A:ASN:H | 1:32:A:SER:H | 8 | 0.18 |
| (1,7396) | 1:4:A:GLU:H | 1:7:A:LEU:H | 10 | 0.18 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 11 | 0.18 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 11 | 0.18 |
| (1,7344) | 1:92:A:TYR:HA | 1:95:A:LYS:H | 14 | 0.18 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 16 | 0.18 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 16 | 0.18 |
| (1,7288) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 7 | 0.18 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 2 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 2 | 0.18 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 2 | 0.18 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 2 | 0.18 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 2 | 0.18 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 2 | 0.18 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 2 | 0.18 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 2 | 0.18 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 2 | 0.18 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 12 | 0.18 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 12 | 0.18 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 12 | 0.18 |
| (1,7147) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG2 | 13 | 0.18 |
| (1,7147) | 1:95:A:LYS:HB3 | 1:101:A:GLU:HG3 | 13 | 0.18 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 1 | 0.18 |
| (1,7117) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 9 | 0.18 |
| (1,7059) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 17 | 0.18 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 5 | 0.18 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 5 | 0.18 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 7 | 0.18 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 7 | 0.18 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 1 | 0.18 |
| (1,6927) | 1:26:A:ASN:H | 1:32:A:SER:HA | 18 | 0.18 |
| (1,6855) | 1:27:A:HIS:H | 1:28:A:ILE:H | 10 | 0.18 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 5 | 0.18 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 7 | 0.18 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 9 | 0.18 |
| (1,6809) | 1:25:A:PHE:HB3 | 1:33:A:GLN:H | 17 | 0.18 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 7 | 0.18 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 14 | 0.18 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 20 | 0.18 |
| (1,6758) | 1:23:A:TYR:HB2 | 1:25:A:PHE:H | 12 | 0.18 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 10 | 0.18 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 17 | 0.18 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 5 | 0.18 |
| (1,6715) | 1:19:A:SER:HA | 1:19:A:SER:HB3 | 15 | 0.18 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 11 | 0.18 |
| (1,6658) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 17 | 0.18 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 14 | 0.18 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 7 | 0.18 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 13 | 0.18 |
| (1,6580) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 17 | 0.18 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 8 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6560) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD11 | 20 | 0.18 |
| (1,6560) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD12 | 20 | 0.18 |
| (1,6560) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HD13 | 20 | 0.18 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 20 | 0.18 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 6 | 0.18 |
| (1,6500) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 20 | 0.18 |
| (1,6479) | 1:1:A:MET:HE1 | 1:2:A:ALA:H | 10 | 0.18 |
| (1,6479) | 1:1:A:MET:HE2 | 1:2:A:ALA:H | 10 | 0.18 |
| (1,6479) | 1:1:A:MET:HE3 | 1:2:A:ALA:H | 10 | 0.18 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 16 | 0.18 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 5 | 0.18 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 5 | 0.18 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 17 | 0.18 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 19 | 0.18 |
| (1,6338) | 1:153:A:ASP:HB2 | 1:154:A:SER:H | 8 | 0.18 |
| (1,6338) | 1:153:A:ASP:HB3 | 1:154:A:SER:H | 8 | 0.18 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 4 | 0.18 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 4 | 0.18 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 4 | 0.18 |
| (1,6260) | 1:147:A:SER:H | 1:159:A:ILE:H | 11 | 0.18 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 1 | 0.18 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 11 | 0.18 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 11 | 0.18 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 11 | 0.18 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 11 | 0.18 |
| (1,6224) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 19 | 0.18 |
| (1,6224) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 19 | 0.18 |
| (1,6208) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 20 | 0.18 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 5 | 0.18 |
| (1,6184) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 5 | 0.18 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 18 | 0.18 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 18 | 0.18 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 18 | 0.18 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 6 | 0.18 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 6 | 0.18 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 6 | 0.18 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 6 | 0.18 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 6 | 0.18 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 6 | 0.18 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 6 | 0.18 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 6 | 0.18 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 6 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 15 | 0.18 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 2 | 0.18 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 2 | 0.18 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 2 | 0.18 |
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 18 | 0.18 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG21 | 17 | 0.18 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG22 | 17 | 0.18 |
| (1,6018) | 1:131:A:GLN:HG2 | 1:152:A:THR:HG23 | 17 | 0.18 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG21 | 17 | 0.18 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG22 | 17 | 0.18 |
| (1,6018) | 1:131:A:GLN:HG3 | 1:152:A:THR:HG23 | 17 | 0.18 |
| (1,6000) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 12 | 0.18 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 7 | 0.18 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 9 | 0.18 |
| (1,5830) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 4 | 0.18 |
| (1,5830) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 4 | 0.18 |
| (1,5830) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 4 | 0.18 |
| (1,5826) | 1:118:A:ALA:H | 1:120:A:GLY:H | 11 | 0.18 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 2 | 0.18 |
| (1,5799) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 7 | 0.18 |
| (1,5799) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 7 | 0.18 |
| (1,5799) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 7 | 0.18 |
| (1,5745) | 1:109:A:GLN:H | 1:110:A:PHE:H | 6 | 0.18 |
| (1,5726) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 16 | 0.18 |
| (1,5726) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 16 | 0.18 |
| (1,5726) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 16 | 0.18 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 3 | 0.18 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 3 | 0.18 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 3 | 0.18 |
| (1,5690) | 1:106:A:LEU:HA | 1:110:A:PHE:H | 13 | 0.18 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 5 | 0.18 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 1 | 0.18 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 6 | 0.18 |
| (1,5667) | 1:105:A:SER:H | 1:106:A:LEU:H | 15 | 0.18 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 16 | 0.18 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 13 | 0.18 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 3 | 0.18 |
| (1,5623) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 3 | 0.18 |
| (1,5619) | 1:101:A:GLU:H | 1:102:A:ASP:H | 16 | 0.18 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 14 | 0.18 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 9 | 0.18 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 6 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 4 | 0.18 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 14 | 0.18 |
| (1,5520) | 1:93:A:ILE:HA | 1:96:A:ILE:HB | 4 | 0.18 |
| (1,5507) | 1:96:A:ILE:H | 1:97:A:LYS:H | 11 | 0.18 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 17 | 0.18 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 17 | 0.18 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 17 | 0.18 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 17 | 0.18 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD11 | 1 | 0.18 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD12 | 1 | 0.18 |
| (1,5392) | 1:89:A:ILE:HD11 | 1:158:A:ILE:HD13 | 1 | 0.18 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD11 | 1 | 0.18 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD12 | 1 | 0.18 |
| (1,5392) | 1:89:A:ILE:HD12 | 1:158:A:ILE:HD13 | 1 | 0.18 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD11 | 1 | 0.18 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD12 | 1 | 0.18 |
| (1,5392) | 1:89:A:ILE:HD13 | 1:158:A:ILE:HD13 | 1 | 0.18 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 5 | 0.18 |
| (1,5269) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 2 | 0.18 |
| (1,5269) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 2 | 0.18 |
| (1,5269) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 2 | 0.18 |
| (1,5188) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 18 | 0.18 |
| (1,5151) | 1:82:A:LYS:H | 1:83:A:GLU:H | 7 | 0.18 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 19 | 0.18 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 19 | 0.18 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 19 | 0.18 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 16 | 0.18 |
| (1,5033) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 6 | 0.18 |
| (1,5031) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 12 | 0.18 |
| (1,5031) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 15 | 0.18 |
| (1,4992) | 1:73:A:TRP:H | 1:74:A:ARG:H | 12 | 0.18 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 6 | 0.18 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 7 | 0.18 |
| (1,4984) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 3 | 0.18 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 10 | 0.18 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 10 | 0.18 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 4 | 0.18 |
| (1,4959) | 1:68:A:ARG:HA | 1:68:A:ARG:HB2 | 14 | 0.18 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 14 | 0.18 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 7 | 0.18 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 7 | 0.18 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 7 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 17 | 0.18 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 17 | 0.18 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 17 | 0.18 |
| (1,4865) | 1:62:A:VAL:H | 1:156:A:ILE:H | 18 | 0.18 |
| (1,4852) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 8 | 0.18 |
| (1,4852) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 8 | 0.18 |
| (1,4852) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 8 | 0.18 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 16 | 0.18 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 16 | 0.18 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 16 | 0.18 |
| (1,4839) | 1:61:A:LEU:HG | 1:62:A:VAL:H | 9 | 0.18 |
| (1,4765) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 17 | 0.18 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 1 | 0.18 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 20 | 0.18 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 16 | 0.18 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 18 | 0.18 |
| (1,4708) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 11 | 0.18 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 5 | 0.18 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 17 | 0.18 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 17 | 0.18 |
| (1,4648) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 17 | 0.18 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 13 | 0.18 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 13 | 0.18 |
| (1,4623) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 20 | 0.18 |
| (1,4623) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 20 | 0.18 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 1 | 0.18 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 1 | 0.18 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 4 | 0.18 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 4 | 0.18 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 10 | 0.18 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 10 | 0.18 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 16 | 0.18 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 16 | 0.18 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 17 | 0.18 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 17 | 0.18 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB2 | 16 | 0.18 |
| (1,4543) | 1:143:A:THR:HG21 | 1:163:A:GLU:HB3 | 16 | 0.18 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB2 | 16 | 0.18 |
| (1,4543) | 1:143:A:THR:HG22 | 1:163:A:GLU:HB3 | 16 | 0.18 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB2 | 16 | 0.18 |
| (1,4543) | 1:143:A:THR:HG23 | 1:163:A:GLU:HB3 | 16 | 0.18 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 15 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 15 | 0.18 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 6 | 0.18 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 6 | 0.18 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB2 | 12 | 0.18 |
| (1,4439) | 1:131:A:GLN:H | 1:134:A:PHE:HB3 | 12 | 0.18 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 6 | 0.18 |
| (1,4419) | 1:129:A:GLN:HA | 1:129:A:GLN:HB3 | 6 | 0.18 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 10 | 0.18 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 10 | 0.18 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 10 | 0.18 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 10 | 0.18 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 11 | 0.18 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 11 | 0.18 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 11 | 0.18 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 11 | 0.18 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 1 | 0.18 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 1 | 0.18 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 10 | 0.18 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 10 | 0.18 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 4 | 0.18 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 4 | 0.18 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 4 | 0.18 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 4 | 0.18 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 12 | 0.18 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 12 | 0.18 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 4 | 0.18 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 4 | 0.18 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 18 | 0.18 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 18 | 0.18 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 10 | 0.18 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 10 | 0.18 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 4 | 0.18 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 4 | 0.18 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 4 | 0.18 |
| (1,4079) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 10 | 0.18 |
| (1,4079) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 10 | 0.18 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 1 | 0.18 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 1 | 0.18 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 2 | 0.18 |
| (1,4053) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 2 | 0.18 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 2 | 0.18 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 2 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 4 | 0.18 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 4 | 0.18 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 8 | 0.18 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 8 | 0.18 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 16 | 0.18 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 16 | 0.18 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 3 | 0.18 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 3 | 0.18 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 7 | 0.18 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 7 | 0.18 |
| (1,3835) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 1 | 0.18 |
| (1,3835) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 1 | 0.18 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 15 | 0.18 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 15 | 0.18 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 15 | 0.18 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 15 | 0.18 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 15 | 0.18 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 15 | 0.18 |
| (1,3787) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 8 | 0.18 |
| (1,3787) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 8 | 0.18 |
| (1,3675) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 14 | 0.18 |
| (1,3675) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 14 | 0.18 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 18 | 0.18 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 18 | 0.18 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 10 | 0.18 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 10 | 0.18 |
| (1,3559) | 1:15:A:MET:HB2 | 1:16:A:SER:H | 15 | 0.18 |
| (1,3559) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 15 | 0.18 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 7 | 0.18 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 7 | 0.18 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE2 | 12 | 0.18 |
| (1,3531) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HE3 | 12 | 0.18 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE2 | 12 | 0.18 |
| (1,3531) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HE3 | 12 | 0.18 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE2 | 12 | 0.18 |
| (1,3531) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HE3 | 12 | 0.18 |
| (1,3403) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 4 | 0.18 |
| (1,3403) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 7 | 0.18 |
| (1,3403) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 10 | 0.18 |
| (1,3403) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 11 | 0.18 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 7 | 0.18 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 13 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 13 | 0.18 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 13 | 0.18 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 4 | 0.18 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 4 | 0.18 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 6 | 0.18 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 10 | 0.18 |
| (1,3275) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 13 | 0.18 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 2 | 0.18 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 7 | 0.18 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 15 | 0.18 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 4 | 0.18 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 4 | 0.18 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 3 | 0.18 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 5 | 0.18 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 1 | 0.18 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 10 | 0.18 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 17 | 0.18 |
| (1,2985) | 1:34:A:TRP:H | 1:34:A:TRP:HE3 | 11 | 0.18 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 20 | 0.18 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 20 | 0.18 |
| (1,2953) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 15 | 0.18 |
| (1,2951) | 1:33:A:GLN:H | 1:33:A:GLN:HB2 | 11 | 0.18 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 14 | 0.18 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 14 | 0.18 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 14 | 0.18 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 15 | 0.18 |
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 1 | 0.18 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 19 | 0.18 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 20 | 0.18 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 7 | 0.18 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 7 | 0.18 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 7 | 0.18 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 7 | 0.18 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 11 | 0.18 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 11 | 0.18 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 11 | 0.18 |
| (1,2841) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 4 | 0.18 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 14 | 0.18 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 5 | 0.18 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 7 | 0.18 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 9 | 0.18 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 7 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 14 | 0.18 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 20 | 0.18 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 6 | 0.18 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 6 | 0.18 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 5 | 0.18 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 5 | 0.18 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 5 | 0.18 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 5 | 0.18 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 5 | 0.18 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 5 | 0.18 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 19 | 0.18 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 19 | 0.18 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 10 | 0.18 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 17 | 0.18 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 5 | 0.18 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 5 | 0.18 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 5 | 0.18 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 5 | 0.18 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 5 | 0.18 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 17 | 0.18 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 17 | 0.18 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 4 | 0.18 |
| (1,2543) | 1:14:A:ARG:H | 1:14:A:ARG:HB2 | 17 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 1 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 1 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 1 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 1 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 4 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 4 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 4 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 4 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 5 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 5 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 5 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 5 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 16 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 16 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 16 | 0.18 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 16 | 0.18 |
| (1,2511) | 1:13:A:LYS:HB2 | 1:14:A:ARG:H | 12 | 0.18 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 14 | 0.18 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 13 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2435) | 1:11:A:TRP:HA | 1:11:A:TRP:HB2 | 14 | 0.18 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 8 | 0.18 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 20 | 0.18 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 6 | 0.18 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 3 | 0.18 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 3 | 0.18 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 3 | 0.18 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 3 | 0.18 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 20 | 0.18 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 15 | 0.18 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 11 | 0.18 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 8 | 0.18 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 10 | 0.18 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 9 | 0.18 |
| (1,2177) | 1:161:A:ARG:H | 1:161:A:ARG:HA | 5 | 0.18 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 4 | 0.18 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 4 | 0.18 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 4 | 0.18 |
| (1,2001) | 1:152:A:THR:HA | 1:153:A:ASP:H | 15 | 0.18 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 10 | 0.18 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 10 | 0.18 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 10 | 0.18 |
| (1,1971) | 1:150:A:VAL:HG11 | 1:152:A:THR:H | 3 | 0.18 |
| (1,1971) | 1:150:A:VAL:HG12 | 1:152:A:THR:H | 3 | 0.18 |
| (1,1971) | 1:150:A:VAL:HG13 | 1:152:A:THR:H | 3 | 0.18 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 17 | 0.18 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 17 | 0.18 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 17 | 0.18 |
| (1,1917) | 1:147:A:SER:H | 1:159:A:ILE:H | 11 | 0.18 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 1 | 0.18 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 11 | 0.18 |
| (1,1835) | 1:145:A:GLU:H | 1:145:A:GLU:HB3 | 20 | 0.18 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG21 | 6 | 0.18 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG22 | 6 | 0.18 |
| (1,1805) | 1:143:A:THR:H | 1:143:A:THR:HG23 | 6 | 0.18 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 3 | 0.18 |
| (1,1785) | 1:142:A:ARG:H | 1:145:A:GLU:HB2 | 10 | 0.18 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 20 | 0.18 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 20 | 0.18 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 20 | 0.18 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 19 | 0.18 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 19 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1715) | 1:139:A:PHE:H | 1:139:A:PHE:HB2 | 16 | 0.18 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 3 | 0.18 |
| (1,1667) | 1:137:A:ALA:HB1 | 1:138:A:SER:H | 2 | 0.18 |
| (1,1667) | 1:137:A:ALA:HB2 | 1:138:A:SER:H | 2 | 0.18 |
| (1,1667) | 1:137:A:ALA:HB3 | 1:138:A:SER:H | 2 | 0.18 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 10 | 0.18 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 10 | 0.18 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 10 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 5 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 5 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 5 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 8 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 8 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 8 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 17 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 17 | 0.18 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 17 | 0.18 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 3 | 0.18 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 18 | 0.18 |
| (1,1583) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 4 | 0.18 |
| (1,1497) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 12 | 0.18 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 3 | 0.18 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 3 | 0.18 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 5 | 0.18 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 5 | 0.18 |
| (1,1411) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 9 | 0.18 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 1 | 0.18 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 12 | 0.18 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 14 | 0.18 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 18 | 0.18 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 19 | 0.18 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 20 | 0.18 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 5 | 0.18 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 5 | 0.18 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE1 | 18 | 0.18 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE2 | 18 | 0.18 |
| (1,1337) | 1:125:A:PHE:HB2 | 1:130:A:MET:HE3 | 18 | 0.18 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE1 | 18 | 0.18 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE2 | 18 | 0.18 |
| (1,1337) | 1:125:A:PHE:HB3 | 1:130:A:MET:HE3 | 18 | 0.18 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 16 | 0.18 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 16 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 19 | 0.18 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 4 | 0.18 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 8 | 0.18 |
| (1,1255) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 19 | 0.18 |
| (1,1255) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 19 | 0.18 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 3 | 0.18 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 3 | 0.18 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 3 | 0.18 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 16 | 0.18 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 16 | 0.18 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG2 | 16 | 0.18 |
| (1,1223) | 1:119:A:ARG:HA | 1:119:A:ARG:HG3 | 16 | 0.18 |
| (1,1201) | 1:118:A:ALA:H | 1:120:A:GLY:H | 11 | 0.18 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 15 | 0.18 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 15 | 0.18 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 15 | 0.18 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 18 | 0.18 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 18 | 0.18 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 18 | 0.18 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 2 | 0.18 |
| (1,1047) | 1:109:A:GLN:H | 1:110:A:PHE:H | 6 | 0.18 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 14 | 0.18 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 18 | 0.18 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 5 | 0.18 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 10 | 0.18 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 11 | 0.18 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 3 | 0.18 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 14 | 0.18 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 15 | 0.18 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 17 | 0.18 |
| (1,919) | 1:105:A:SER:H | 1:106:A:LEU:H | 15 | 0.18 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 13 | 0.18 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 13 | 0.18 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 13 | 0.18 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 13 | 0.18 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 8 | 0.18 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 15 | 0.18 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 20 | 0.18 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 12 | 0.18 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 12 | 0.18 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD21 | 12 | 0.18 |
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD22 | 12 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,801) | 1:101:A:GLU:HB2 | 1:106:A:LEU:HD23 | 12 | 0.18 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 14 | 0.18 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 16 | 0.18 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 16 | 0.18 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 13 | 0.18 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 9 | 0.18 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 6 | 0.18 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE2 | 5 | 0.18 |
| (1,733) | 1:97:A:LYS:HG3 | 1:97:A:LYS:HE3 | 5 | 0.18 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 2 | 0.18 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 2 | 0.18 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 2 | 0.18 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 2 | 0.18 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 2 | 0.18 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 2 | 0.18 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 2 | 0.18 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 2 | 0.18 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 2 | 0.18 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 17 | 0.18 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 17 | 0.18 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 17 | 0.18 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 17 | 0.18 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 17 | 0.18 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 17 | 0.18 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 7 | 0.18 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 7 | 0.18 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 7 | 0.18 |
| (1,657) | 1:96:A:ILE:H | 1:97:A:LYS:H | 11 | 0.18 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 17 | 0.18 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 20 | 0.18 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 20 | 0.18 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 20 | 0.18 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 13 | 0.18 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 13 | 0.18 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 13 | 0.18 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 17 | 0.18 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 17 | 0.18 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 17 | 0.18 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 2 | 0.18 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 2 | 0.18 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 2 | 0.18 |
| (1,450) | 1:88:A:LEU:HB2 | 1:88:A:LEU:HG | 18 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG2 | 4 | 0.18 |
| (1,425) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 4 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 1 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 1 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 1 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 1 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 1 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 1 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 2 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 2 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 2 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 2 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 2 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 2 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 3 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 3 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 3 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 3 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 3 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 3 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 4 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 4 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 4 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 4 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 4 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 4 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 7 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 7 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 7 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 7 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 7 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 7 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 8 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 8 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 8 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 8 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 8 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 8 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 9 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 9 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 9 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 9 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 9 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 9 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 10 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 10 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 10 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 10 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 10 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 10 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 12 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 12 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 12 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 12 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 12 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 12 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 17 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 17 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 17 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 17 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 17 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 17 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 18 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 18 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 18 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 18 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 18 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 18 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 19 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 19 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 19 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 19 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 19 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 19 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 20 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 20 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 20 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 20 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 20 | 0.18 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 20 | 0.18 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 9 | 0.18 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 9 | 0.18 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 9 | 0.18 |
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 14 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 14 | 0.18 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 4 | 0.18 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 7 | 0.18 |
| (1,361) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 7 | 0.18 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 15 | 0.18 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 15 | 0.18 |
| (1,339) | 1:82:A:LYS:HA | 1:85:A:ALA:H | 9 | 0.18 |
| (1,334) | 1:82:A:LYS:H | 1:83:A:GLU:H | 7 | 0.18 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 19 | 0.18 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 14 | 0.18 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 9 | 0.18 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 4 | 0.18 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 15 | 0.18 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 12 | 0.18 |
| (1,213) | 1:73:A:TRP:H | 1:74:A:ARG:H | 12 | 0.18 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 6 | 0.18 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 7 | 0.18 |
| (1,206) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 15 | 0.18 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG2 | 15 | 0.18 |
| (1,189) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 15 | 0.18 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 14 | 0.18 |
| (1,142) | 1:62:A:VAL:H | 1:156:A:ILE:H | 18 | 0.18 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 7 | 0.18 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 7 | 0.18 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 18 | 0.18 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 18 | 0.18 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 18 | 0.18 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 20 | 0.18 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 16 | 0.18 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 18 | 0.18 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 20 | 0.18 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 20 | 0.18 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 20 | 0.18 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 12 | 0.18 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 12 | 0.18 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 12 | 0.18 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 12 | 0.18 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 12 | 0.18 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 12 | 0.18 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 15 | 0.18 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 15 | 0.18 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 15 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 15 | 0.18 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 2 | 0.18 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 2 | 0.18 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 2 | 0.18 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 7 | 0.18 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 7 | 0.18 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 7 | 0.18 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 7 | 0.18 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 12 | 0.18 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 12 | 0.18 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 12 | 0.18 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 12 | 0.18 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 13 | 0.18 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 13 | 0.18 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 15 | 0.18 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 15 | 0.18 |
| (4,196) | 1:131:A:GLN:CB | 1:25:A:PHE:H | 17 | 0.17 |
| (4,156) | 1:98:A:SER:CB | 1:16:A:SER:H | 16 | 0.17 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE2 | 15 | 0.17 |
| (3,861) | 1:70:A:PRO:HG2 | 1:77:A:LYS:HE3 | 15 | 0.17 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE2 | 15 | 0.17 |
| (3,861) | 1:70:A:PRO:HG3 | 1:77:A:LYS:HE3 | 15 | 0.17 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 20 | 0.17 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 20 | 0.17 |
| (3,816) | 1:56:A:ARG:HD2 | 1:123:A:GLY:H | 2 | 0.17 |
| (3,816) | 1:56:A:ARG:HD3 | 1:123:A:GLY:H | 2 | 0.17 |
| (3,605) | 1:115:A:SER:H | 1:122:A:LEU:H | 2 | 0.17 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 12 | 0.17 |
| (3,545) | 1:94:A:GLN:HB2 | 1:99:A:GLY:H | 3 | 0.17 |
| (3,545) | 1:94:A:GLN:HB3 | 1:99:A:GLY:H | 3 | 0.17 |
| (3,449) | 1:71:A:SER:H | 1:78:A:ILE:H | 14 | 0.17 |
| (3,416) | 1:62:A:VAL:HG11 | 1:157:A:HIS:H | 7 | 0.17 |
| (3,416) | 1:62:A:VAL:HG12 | 1:157:A:HIS:H | 7 | 0.17 |
| (3,416) | 1:62:A:VAL:HG13 | 1:157:A:HIS:H | 7 | 0.17 |
| (3,386) | 1:60:A:LEU:HG | 1:107:A:ALA:H | 15 | 0.17 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 10 | 0.17 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 10 | 0.17 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 10 | 0.17 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 10 | 0.17 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 10 | 0.17 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 10 | 0.17 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 10 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 10 | 0.17 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 10 | 0.17 |
| (3,369) | 1:59:A:HIS:H | 1:120:A:GLY:H | 11 | 0.17 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 19 | 0.17 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 19 | 0.17 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 2 | 0.17 |
| (3,178) | 1:7:A:LEU:HB2 | 1:39:A:GLY:H | 6 | 0.17 |
| (3,155) | 1:88:A:LEU:HG | 1:89:A:ILE:HB | 13 | 0.17 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 16 | 0.17 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 16 | 0.17 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD1 | 16 | 0.17 |
| (3,60) | 1:108:A:SER:H | 1:110:A:PHE:HD2 | 16 | 0.17 |
| (3,58) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD1 | 4 | 0.17 |
| (3,58) | 1:60:A:LEU:HD11 | 1:110:A:PHE:HD2 | 4 | 0.17 |
| (3,58) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD1 | 4 | 0.17 |
| (3,58) | 1:60:A:LEU:HD12 | 1:110:A:PHE:HD2 | 4 | 0.17 |
| (3,58) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD1 | 4 | 0.17 |
| (3,58) | 1:60:A:LEU:HD13 | 1:110:A:PHE:HD2 | 4 | 0.17 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD21 | 16 | 0.17 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD22 | 16 | 0.17 |
| (3,51) | 1:104:A:GLU:H | 1:160:A:LEU:HD23 | 16 | 0.17 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 2 | 0.17 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 2 | 0.17 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 9 | 0.17 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 9 | 0.17 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 16 | 0.17 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 16 | 0.17 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 11 | 0.17 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 11 | 0.17 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 12 | 0.17 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 12 | 0.17 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD11 | 6 | 0.17 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD12 | 6 | 0.17 |
| (1,9517) | 1:138:A:SER:HB2 | 1:141:A:LEU:HD13 | 6 | 0.17 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD11 | 6 | 0.17 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD12 | 6 | 0.17 |
| (1,9517) | 1:138:A:SER:HB3 | 1:141:A:LEU:HD13 | 6 | 0.17 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 12 | 0.17 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 12 | 0.17 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 13 | 0.17 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 13 | 0.17 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 15 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 15 | 0.17 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 15 | 0.17 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 15 | 0.17 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 2 | 0.17 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 2 | 0.17 |
| (1,9419) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 11 | 0.17 |
| (1,9419) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 11 | 0.17 |
| (1,9419) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 15 | 0.17 |
| (1,9419) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 15 | 0.17 |
| (1,9419) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 17 | 0.17 |
| (1,9419) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 17 | 0.17 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 10 | 0.17 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 10 | 0.17 |
| (1,9293) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 0.17 |
| (1,9293) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 20 | 0.17 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 1 | 0.17 |
| (1,9288) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 1 | 0.17 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 2 | 0.17 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 2 | 0.17 |
| (1,9111) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 13 | 0.17 |
| (1,9111) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 13 | 0.17 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 1 | 0.17 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 1 | 0.17 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD21 | 16 | 0.17 |
| (1,9109) | 1:87:A:GLU:HA | 1:90:A:ASN:HD22 | 16 | 0.17 |
| (1,9023) | 1:80:A:ARG:HA | 1:84:A:GLU:HB2 | 7 | 0.17 |
| (1,9023) | 1:80:A:ARG:HA | 1:84:A:GLU:HB3 | 7 | 0.17 |
| (1,8977) | 1:75:A:GLN:HB2 | 1:77:A:LYS:H | 17 | 0.17 |
| (1,8977) | 1:75:A:GLN:HB3 | 1:77:A:LYS:H | 17 | 0.17 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE21 | 18 | 0.17 |
| (1,8967) | 1:74:A:ARG:H | 1:75:A:GLN:HE22 | 18 | 0.17 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE21 | 5 | 0.17 |
| (1,8951) | 1:73:A:TRP:HZ3 | 1:109:A:GLN:HE22 | 5 | 0.17 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 20 | 0.17 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 20 | 0.17 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 11 | 0.17 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 11 | 0.17 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 11 | 0.17 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 11 | 0.17 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 11 | 0.17 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 11 | 0.17 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 1 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 1 | 0.17 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 1 | 0.17 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 1 | 0.17 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 1 | 0.17 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 1 | 0.17 |
| (1,8826) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 10 | 0.17 |
| (1,8826) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 10 | 0.17 |
| (1,8826) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 10 | 0.17 |
| (1,8826) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 10 | 0.17 |
| (1,8826) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 10 | 0.17 |
| (1,8826) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 10 | 0.17 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 2 | 0.17 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 2 | 0.17 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG2 | 14 | 0.17 |
| (1,8802) | 1:57:A:CYS:H | 1:161:A:ARG:HG3 | 14 | 0.17 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 15 | 0.17 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 15 | 0.17 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 18 | 0.17 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 18 | 0.17 |
| (1,8707) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 17 | 0.17 |
| (1,8707) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 17 | 0.17 |
| (1,8701) | 1:46:A:LYS:HG2 | 1:47:A:ASN:H | 16 | 0.17 |
| (1,8701) | 1:46:A:LYS:HG3 | 1:47:A:ASN:H | 16 | 0.17 |
| (1,8664) | 1:36:A:ARG:HD2 | 1:37:A:PRO:HG2 | 14 | 0.17 |
| (1,8664) | 1:36:A:ARG:HD3 | 1:37:A:PRO:HG2 | 14 | 0.17 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 20 | 0.17 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 20 | 0.17 |
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG2 | 9 | 0.17 |
| (1,8630) | 1:19:A:SER:HB2 | 1:21:A:ARG:HG3 | 9 | 0.17 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG2 | 9 | 0.17 |
| (1,8630) | 1:19:A:SER:HB3 | 1:21:A:ARG:HG3 | 9 | 0.17 |
| (1,8609) | 1:15:A:MET:H | 1:15:A:MET:HB2 | 15 | 0.17 |
| (1,8609) | 1:15:A:MET:H | 1:15:A:MET:HB3 | 15 | 0.17 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 18 | 0.17 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 18 | 0.17 |
| (1,8539) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 2 | 0.17 |
| (1,8539) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 2 | 0.17 |
| (1,8531) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 13 | 0.17 |
| (1,8531) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 13 | 0.17 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 18 | 0.17 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 18 | 0.17 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 18 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 18 | 0.17 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 18 | 0.17 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 18 | 0.17 |
| (1,8332) | 1:131:A:GLN:H | 1:135:A:GLU:H | 13 | 0.17 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 2 | 0.17 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 2 | 0.17 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 2 | 0.17 |
| (1,8258) | 1:117:A:LYS:H | 1:121:A:ASP:H | 16 | 0.17 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 13 | 0.17 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 18 | 0.17 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 9 | 0.17 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 18 | 0.17 |
| (1,7861) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 20 | 0.17 |
| (1,7861) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 20 | 0.17 |
| (1,7861) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 20 | 0.17 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 16 | 0.17 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 16 | 0.17 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 3 | 0.17 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 12 | 0.17 |
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 15 | 0.17 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 15 | 0.17 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 6 | 0.17 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 6 | 0.17 |
| (1,7356) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 4 | 0.17 |
| (1,7332) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 3 | 0.17 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 6 | 0.17 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 12 | 0.17 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 13 | 0.17 |
| (1,7178) | 1:113:A:CYS:HA | 1:113:A:CYS:HB2 | 20 | 0.17 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 12 | 0.17 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 15 | 0.17 |
| (1,7117) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 1 | 0.17 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 3 | 0.17 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 3 | 0.17 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 17 | 0.17 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 17 | 0.17 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 9 | 0.17 |
| (1,7000) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 1 | 0.17 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 3 | 0.17 |
| (1,6990) | 1:33:A:GLN:HE21 | 1:36:A:ARG:HA | 12 | 0.17 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 16 | 0.17 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 16 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 7 | 0.17 |
| (1,6929) | 1:32:A:SER:HA | 1:33:A:GLN:H | 16 | 0.17 |
| (1,6921) | 1:31:A:ALA:H | 1:32:A:SER:H | 14 | 0.17 |
| (1,6921) | 1:31:A:ALA:H | 1:32:A:SER:H | 20 | 0.17 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 15 | 0.17 |
| (1,6907) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD22 | 3 | 0.17 |
| (1,6907) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD22 | 3 | 0.17 |
| (1,6907) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD22 | 3 | 0.17 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 4 | 0.17 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 4 | 0.17 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 4 | 0.17 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 13 | 0.17 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 3 | 0.17 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 3 | 0.17 |
| (1,6823) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 3 | 0.17 |
| (1,6805) | 1:25:A:PHE:H | 1:25:A:PHE:HB2 | 15 | 0.17 |
| (1,6795) | 1:14:A:ARG:H | 1:25:A:PHE:H | 9 | 0.17 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 2 | 0.17 |
| (1,6756) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 5 | 0.17 |
| (1,6736) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 7 | 0.17 |
| (1,6736) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 16 | 0.17 |
| (1,6736) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 20 | 0.17 |
| (1,6720) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 19 | 0.17 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 20 | 0.17 |
| (1,6688) | 1:15:A:MET:HA | 1:16:A:SER:H | 18 | 0.17 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 14 | 0.17 |
| (1,6622) | 1:12:A:GLU:H | 1:25:A:PHE:H | 20 | 0.17 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 16 | 0.17 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 10 | 0.17 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 13 | 0.17 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 16 | 0.17 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 19 | 0.17 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 19 | 0.17 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 19 | 0.17 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 19 | 0.17 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 19 | 0.17 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 19 | 0.17 |
| (1,6522) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 8 | 0.17 |
| (1,6522) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 8 | 0.17 |
| (1,6522) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 8 | 0.17 |
| (1,6518) | 1:7:A:LEU:HB2 | 1:11:A:TRP:H | 19 | 0.17 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 6 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD11 | 7 | 0.17 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD12 | 7 | 0.17 |
| (1,6432) | 1:145:A:GLU:H | 1:160:A:LEU:HD13 | 7 | 0.17 |
| (1,6424) | 1:159:A:ILE:HG21 | 1:160:A:LEU:H | 6 | 0.17 |
| (1,6424) | 1:159:A:ILE:HG22 | 1:160:A:LEU:H | 6 | 0.17 |
| (1,6424) | 1:159:A:ILE:HG23 | 1:160:A:LEU:H | 6 | 0.17 |
| (1,6408) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 9 | 0.17 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD11 | 2 | 0.17 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD12 | 2 | 0.17 |
| (1,6400) | 1:149:A:PRO:HA | 1:158:A:ILE:HD13 | 2 | 0.17 |
| (1,6388) | 1:147:A:SER:H | 1:158:A:ILE:HA | 9 | 0.17 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 6 | 0.17 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 12 | 0.17 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 12 | 0.17 |
| (1,6370) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 12 | 0.17 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 12 | 0.17 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 12 | 0.17 |
| (1,6370) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 12 | 0.17 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 12 | 0.17 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 12 | 0.17 |
| (1,6370) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 12 | 0.17 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 3 | 0.17 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 5 | 0.17 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 5 | 0.17 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 5 | 0.17 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 18 | 0.17 |
| (1,6240) | 1:146:A:MET:HA | 1:161:A:ARG:H | 5 | 0.17 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 10 | 0.17 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 17 | 0.17 |
| (1,6157) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 19 | 0.17 |
| (1,6145) | 1:140:A:ALA:H | 1:141:A:LEU:H | 18 | 0.17 |
| (1,6122) | 1:139:A:PHE:H | 1:140:A:ALA:H | 8 | 0.17 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 6 | 0.17 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 6 | 0.17 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 6 | 0.17 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 6 | 0.17 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 6 | 0.17 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 6 | 0.17 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 6 | 0.17 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 6 | 0.17 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 6 | 0.17 |
| (1,6073) | 1:136:A:ASP:H | 1:137:A:ALA:H | 3 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6073) | 1:136:A:ASP:H | 1:137:A:ALA:H | 13 | 0.17 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB2 | 6 | 0.17 |
| (1,6069) | 1:132:A:LYS:HA | 1:135:A:GLU:HB3 | 6 | 0.17 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 13 | 0.17 |
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 14 | 0.17 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 17 | 0.17 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 16 | 0.17 |
| (1,5975) | 1:129:A:GLN:H | 1:130:A:MET:H | 3 | 0.17 |
| (1,5824) | 1:118:A:ALA:H | 1:119:A:ARG:H | 8 | 0.17 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 15 | 0.17 |
| (1,5745) | 1:109:A:GLN:H | 1:110:A:PHE:H | 13 | 0.17 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 3 | 0.17 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 7 | 0.17 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 18 | 0.17 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 2 | 0.17 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 9 | 0.17 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 8 | 0.17 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 15 | 0.17 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 10 | 0.17 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 2 | 0.17 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 20 | 0.17 |
| (1,5581) | 1:99:A:GLY:H | 1:101:A:GLU:H | 14 | 0.17 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 19 | 0.17 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 5 | 0.17 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 16 | 0.17 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 15 | 0.17 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 3 | 0.17 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 17 | 0.17 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 13 | 0.17 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 13 | 0.17 |
| (1,5505) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 13 | 0.17 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 1 | 0.17 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 7 | 0.17 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 10 | 0.17 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 15 | 0.17 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 19 | 0.17 |
| (1,5499) | 1:94:A:GLN:H | 1:96:A:ILE:H | 11 | 0.17 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 10 | 0.17 |
| (1,5486) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 8 | 0.17 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 17 | 0.17 |
| (1,5410) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 19 | 0.17 |
| (1,5410) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 19 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 1 | 0.17 |
| (1,5362) | 1:89:A:ILE:HA | 1:93:A:ILE:H | 10 | 0.17 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 13 | 0.17 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 13 | 0.17 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 13 | 0.17 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 13 | 0.17 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 13 | 0.17 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 13 | 0.17 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 13 | 0.17 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 13 | 0.17 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 13 | 0.17 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 19 | 0.17 |
| (1,5198) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 7 | 0.17 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 10 | 0.17 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 15 | 0.17 |
| (1,5170) | 1:82:A:LYS:HD2 | 1:83:A:GLU:H | 17 | 0.17 |
| (1,5170) | 1:82:A:LYS:HD3 | 1:83:A:GLU:H | 17 | 0.17 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 15 | 0.17 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 15 | 0.17 |
| (1,5137) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 15 | 0.17 |
| (1,5129) | 1:81:A:THR:H | 1:81:A:THR:HG21 | 18 | 0.17 |
| (1,5129) | 1:81:A:THR:H | 1:81:A:THR:HG22 | 18 | 0.17 |
| (1,5129) | 1:81:A:THR:H | 1:81:A:THR:HG23 | 18 | 0.17 |
| (1,5111) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 5 | 0.17 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 17 | 0.17 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 15 | 0.17 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 20 | 0.17 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 20 | 0.17 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 20 | 0.17 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 17 | 0.17 |
| (1,4992) | 1:73:A:TRP:H | 1:74:A:ARG:H | 10 | 0.17 |
| (1,4992) | 1:73:A:TRP:H | 1:74:A:ARG:H | 20 | 0.17 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 16 | 0.17 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 11 | 0.17 |
| (1,4945) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 11 | 0.17 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 20 | 0.17 |
| (1,4913) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 10 | 0.17 |
| (1,4913) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 10 | 0.17 |
| (1,4913) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 10 | 0.17 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 7 | 0.17 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 5 | 0.17 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 5 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 5 | 0.17 |
| (1,4848) | 1:61:A:LEU:HD21 | 1:62:A:VAL:H | 7 | 0.17 |
| (1,4848) | 1:61:A:LEU:HD22 | 1:62:A:VAL:H | 7 | 0.17 |
| (1,4848) | 1:61:A:LEU:HD23 | 1:62:A:VAL:H | 7 | 0.17 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 9 | 0.17 |
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 9 | 0.17 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 9 | 0.17 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 6 | 0.17 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 6 | 0.17 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 6 | 0.17 |
| (1,4823) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 5 | 0.17 |
| (1,4823) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 5 | 0.17 |
| (1,4823) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 5 | 0.17 |
| (1,4724) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 7 | 0.17 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 2 | 0.17 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 5 | 0.17 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 10 | 0.17 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 18 | 0.17 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 19 | 0.17 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 17 | 0.17 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 17 | 0.17 |
| (1,4621) | 1:49:A:GLN:HG2 | 1:50:A:GLY:H | 13 | 0.17 |
| (1,4621) | 1:49:A:GLN:HG3 | 1:50:A:GLY:H | 13 | 0.17 |
| (1,4617) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 6 | 0.17 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 1 | 0.17 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 1 | 0.17 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 6 | 0.17 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 6 | 0.17 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 19 | 0.17 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 19 | 0.17 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 8 | 0.17 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 8 | 0.17 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 9 | 0.17 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 9 | 0.17 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 4 | 0.17 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 4 | 0.17 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 5 | 0.17 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 5 | 0.17 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 8 | 0.17 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 8 | 0.17 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 20 | 0.17 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 20 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 15 | 0.17 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 15 | 0.17 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 2 | 0.17 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 2 | 0.17 |
| (1,3985) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 15 | 0.17 |
| (1,3985) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 15 | 0.17 |
| (1,3965) | 1:76:A:GLU:HG2 | 1:77:A:LYS:H | 13 | 0.17 |
| (1,3965) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 13 | 0.17 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 2 | 0.17 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 2 | 0.17 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 9 | 0.17 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 9 | 0.17 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB2 | 19 | 0.17 |
| (1,3731) | 1:55:A:VAL:HG21 | 1:163:A:GLU:HB3 | 19 | 0.17 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB2 | 19 | 0.17 |
| (1,3731) | 1:55:A:VAL:HG22 | 1:163:A:GLU:HB3 | 19 | 0.17 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB2 | 19 | 0.17 |
| (1,3731) | 1:55:A:VAL:HG23 | 1:163:A:GLU:HB3 | 19 | 0.17 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 7 | 0.17 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 7 | 0.17 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 7 | 0.17 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 7 | 0.17 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 16 | 0.17 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 16 | 0.17 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 12 | 0.17 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 12 | 0.17 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 13 | 0.17 |
| (1,3585) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 13 | 0.17 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 8 | 0.17 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 8 | 0.17 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 16 | 0.17 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 16 | 0.17 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 2 | 0.17 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 2 | 0.17 |
| (1,3441) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 12 | 0.17 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 15 | 0.17 |
| (1,3403) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 5 | 0.17 |
| (1,3403) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 12 | 0.17 |
| (1,3403) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 16 | 0.17 |
| (1,3403) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD3 | 20 | 0.17 |
| (1,3401) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 17 | 0.17 |
| (1,3387) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 17 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG21 | 11 | 0.17 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG22 | 11 | 0.17 |
| (1,3357) | 1:149:A:PRO:HA | 1:158:A:ILE:HG23 | 11 | 0.17 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD2 | 4 | 0.17 |
| (1,3349) | 1:142:A:ARG:H | 1:142:A:ARG:HD3 | 4 | 0.17 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 2 | 0.17 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 2 | 0.17 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 13 | 0.17 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 17 | 0.17 |
| (1,3275) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 3 | 0.17 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 8 | 0.17 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 12 | 0.17 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 16 | 0.17 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 18 | 0.17 |
| (1,3247) | 1:94:A:GLN:H | 1:94:A:GLN:HB2 | 20 | 0.17 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 3 | 0.17 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 3 | 0.17 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 6 | 0.17 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 6 | 0.17 |
| (1,3129) | 1:48:A:GLY:HA2 | 1:49:A:GLN:H | 18 | 0.17 |
| (1,3129) | 1:48:A:GLY:HA3 | 1:49:A:GLN:H | 18 | 0.17 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 10 | 0.17 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 10 | 0.17 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 20 | 0.17 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 8 | 0.17 |
| (1,3043) | 1:36:A:ARG:HA | 1:37:A:PRO:HD3 | 1 | 0.17 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 3 | 0.17 |
| (1,3025) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 16 | 0.17 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 7 | 0.17 |
| (1,2945) | 1:32:A:SER:HA | 1:33:A:GLN:H | 16 | 0.17 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 15 | 0.17 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 4 | 0.17 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB1 | 15 | 0.17 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB2 | 15 | 0.17 |
| (1,2905) | 1:29:A:THR:HB | 1:31:A:ALA:HB3 | 15 | 0.17 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 10 | 0.17 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 10 | 0.17 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 10 | 0.17 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 15 | 0.17 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 3 | 0.17 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 3 | 0.17 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 3 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 6 | 0.17 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 6 | 0.17 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 6 | 0.17 |
| (1,2841) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 6 | 0.17 |
| (1,2841) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 13 | 0.17 |
| (1,2841) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 20 | 0.17 |
| (1,2831) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD22 | 18 | 0.17 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 13 | 0.17 |
| (1,2767) | 1:24:A:TYR:HE1 | 1:36:A:ARG:H | 5 | 0.17 |
| (1,2767) | 1:24:A:TYR:HE2 | 1:36:A:ARG:H | 5 | 0.17 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 10 | 0.17 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 10 | 0.17 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 2 | 0.17 |
| (1,2697) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 14 | 0.17 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 3 | 0.17 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 3 | 0.17 |
| (1,2685) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 3 | 0.17 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 3 | 0.17 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 3 | 0.17 |
| (1,2685) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 3 | 0.17 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 3 | 0.17 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 3 | 0.17 |
| (1,2685) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 3 | 0.17 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 15 | 0.17 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 15 | 0.17 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 15 | 0.17 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 14 | 0.17 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 15 | 0.17 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 3 | 0.17 |
| (1,2639) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 6 | 0.17 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 20 | 0.17 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 9 | 0.17 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 9 | 0.17 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 14 | 0.17 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 14 | 0.17 |
| (1,2583) | 1:15:A:MET:HA | 1:16:A:SER:H | 18 | 0.17 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 3 | 0.17 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 6 | 0.17 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 6 | 0.17 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 6 | 0.17 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 7 | 0.17 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 7 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG2 | 14 | 0.17 |
| (1,2501) | 1:13:A:LYS:HA | 1:13:A:LYS:HG3 | 14 | 0.17 |
| (1,2479) | 1:12:A:GLU:H | 1:25:A:PHE:H | 20 | 0.17 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 8 | 0.17 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 8 | 0.17 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 8 | 0.17 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 17 | 0.17 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 20 | 0.17 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 16 | 0.17 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 17 | 0.17 |
| (1,2401) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 8 | 0.17 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 10 | 0.17 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 13 | 0.17 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 16 | 0.17 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 1 | 0.17 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 11 | 0.17 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 13 | 0.17 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 8 | 0.17 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 12 | 0.17 |
| (1,2303) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 11 | 0.17 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 5 | 0.17 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 18 | 0.17 |
| (1,2255) | 1:1:A:MET:HB2 | 1:2:A:ALA:H | 3 | 0.17 |
| (1,2249) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 7 | 0.17 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 11 | 0.17 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 11 | 0.17 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 11 | 0.17 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 12 | 0.17 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 12 | 0.17 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 12 | 0.17 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG21 | 13 | 0.17 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG22 | 13 | 0.17 |
| (1,2201) | 1:162:A:THR:H | 1:162:A:THR:HG23 | 13 | 0.17 |
| (1,2161) | 1:160:A:LEU:H | 1:160:A:LEU:HG | 18 | 0.17 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 2 | 0.17 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 2 | 0.17 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 2 | 0.17 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 2 | 0.17 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 4 | 0.17 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 5 | 0.17 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 8 | 0.17 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 9 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 12 | 0.17 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 20 | 0.17 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 14 | 0.17 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 14 | 0.17 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 14 | 0.17 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 8 | 0.17 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 8 | 0.17 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 15 | 0.17 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 15 | 0.17 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 18 | 0.17 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 6 | 0.17 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 1 | 0.17 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 4 | 0.17 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 6 | 0.17 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 7 | 0.17 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 10 | 0.17 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 11 | 0.17 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 18 | 0.17 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 19 | 0.17 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE1 | 16 | 0.17 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE2 | 16 | 0.17 |
| (1,1905) | 1:93:A:ILE:HD11 | 1:146:A:MET:HE3 | 16 | 0.17 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE1 | 16 | 0.17 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE2 | 16 | 0.17 |
| (1,1905) | 1:93:A:ILE:HD12 | 1:146:A:MET:HE3 | 16 | 0.17 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE1 | 16 | 0.17 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE2 | 16 | 0.17 |
| (1,1905) | 1:93:A:ILE:HD13 | 1:146:A:MET:HE3 | 16 | 0.17 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 10 | 0.17 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 17 | 0.17 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 1 | 0.17 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 1 | 0.17 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 1 | 0.17 |
| (1,1859) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 17 | 0.17 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 17 | 0.17 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 17 | 0.17 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 17 | 0.17 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 17 | 0.17 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 13 | 0.17 |
| (1,1757) | 1:141:A:LEU:HA | 1:142:A:ARG:H | 19 | 0.17 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 5 | 0.17 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 5 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 5 | 0.17 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB1 | 6 | 0.17 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB2 | 6 | 0.17 |
| (1,1737) | 1:140:A:ALA:H | 1:140:A:ALA:HB3 | 6 | 0.17 |
| (1,1709) | 1:139:A:PHE:H | 1:140:A:ALA:H | 8 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 1 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 1 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 1 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 7 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 7 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 7 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 16 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 16 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 16 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 19 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 19 | 0.17 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 19 | 0.17 |
| (1,1639) | 1:136:A:ASP:H | 1:137:A:ALA:H | 3 | 0.17 |
| (1,1639) | 1:136:A:ASP:H | 1:137:A:ALA:H | 13 | 0.17 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 13 | 0.17 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 1 | 0.17 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 13 | 0.17 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 14 | 0.17 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 17 | 0.17 |
| (1,1583) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 5 | 0.17 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 12 | 0.17 |
| (1,1479) | 1:130:A:MET:HB2 | 1:131:A:GLN:H | 5 | 0.17 |
| (1,1441) | 1:129:A:GLN:H | 1:130:A:MET:H | 3 | 0.17 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 4 | 0.17 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 4 | 0.17 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 7 | 0.17 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 8 | 0.17 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 16 | 0.17 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 4 | 0.17 |
| (1,1355) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HZ | 2 | 0.17 |
| (1,1355) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HZ | 2 | 0.17 |
| (1,1355) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HZ | 2 | 0.17 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB2 | 16 | 0.17 |
| (1,1333) | 1:125:A:PHE:H | 1:125:A:PHE:HB3 | 16 | 0.17 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 8 | 0.17 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 8 | 0.17 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 9 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 9 | 0.17 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 18 | 0.17 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 18 | 0.17 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 20 | 0.17 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 20 | 0.17 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 6 | 0.17 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 15 | 0.17 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 11 | 0.17 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 11 | 0.17 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 11 | 0.17 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 11 | 0.17 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 11 | 0.17 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 11 | 0.17 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 11 | 0.17 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 11 | 0.17 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 11 | 0.17 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 4 | 0.17 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 4 | 0.17 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 4 | 0.17 |
| (1,1253) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 5 | 0.17 |
| (1,1253) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 5 | 0.17 |
| (1,1253) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 18 | 0.17 |
| (1,1253) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 18 | 0.17 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 7 | 0.17 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 7 | 0.17 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 13 | 0.17 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 17 | 0.17 |
| (1,1199) | 1:118:A:ALA:H | 1:119:A:ARG:H | 8 | 0.17 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 11 | 0.17 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 11 | 0.17 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 11 | 0.17 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 2 | 0.17 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 15 | 0.17 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 6 | 0.17 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 6 | 0.17 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 6 | 0.17 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 9 | 0.17 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 9 | 0.17 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 9 | 0.17 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 20 | 0.17 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 10 | 0.17 |
| (1,1047) | 1:109:A:GLN:H | 1:110:A:PHE:H | 13 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1035) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 4 | 0.17 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 5 | 0.17 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 5 | 0.17 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 8 | 0.17 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 8 | 0.17 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 8 | 0.17 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 3 | 0.17 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 12 | 0.17 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 12 | 0.17 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 12 | 0.17 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 16 | 0.17 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 16 | 0.17 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 16 | 0.17 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 18 | 0.17 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 2 | 0.17 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 6 | 0.17 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 19 | 0.17 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 9 | 0.17 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 14 | 0.17 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 16 | 0.17 |
| (1,843) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HA | 12 | 0.17 |
| (1,843) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HA | 12 | 0.17 |
| (1,843) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HA | 12 | 0.17 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 13 | 0.17 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 10 | 0.17 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 18 | 0.17 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 18 | 0.17 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 2 | 0.17 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 20 | 0.17 |
| (1,761) | 1:99:A:GLY:H | 1:101:A:GLU:H | 14 | 0.17 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 19 | 0.17 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 3 | 0.17 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 3 | 0.17 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 3 | 0.17 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 15 | 0.17 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 3 | 0.17 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 12 | 0.17 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 12 | 0.17 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 12 | 0.17 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 11 | 0.17 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 11 | 0.17 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 11 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 10 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 10 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 10 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 15 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 15 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 15 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 17 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 17 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 17 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 19 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 19 | 0.17 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 19 | 0.17 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 1 | 0.17 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 7 | 0.17 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 10 | 0.17 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 15 | 0.17 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 19 | 0.17 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 16 | 0.17 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 20 | 0.17 |
| (1,621) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 10 | 0.17 |
| (1,621) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 14 | 0.17 |
| (1,615) | 1:95:A:LYS:HA | 1:95:A:LYS:HB2 | 9 | 0.17 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD11 | 9 | 0.17 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD12 | 9 | 0.17 |
| (1,581) | 1:93:A:ILE:HG12 | 1:158:A:ILE:HD13 | 9 | 0.17 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 17 | 0.17 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 19 | 0.17 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 19 | 0.17 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 19 | 0.17 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 2 | 0.17 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 2 | 0.17 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 2 | 0.17 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 5 | 0.17 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 5 | 0.17 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 5 | 0.17 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 1 | 0.17 |
| (1,475) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 3 | 0.17 |
| (1,475) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 3 | 0.17 |
| (1,475) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 3 | 0.17 |
| (1,469) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 10 | 0.17 |
| (1,469) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 10 | 0.17 |
| (1,469) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 10 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 15 | 0.17 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 15 | 0.17 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 15 | 0.17 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 19 | 0.17 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 12 | 0.17 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 12 | 0.17 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 4 | 0.17 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 4 | 0.17 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 4 | 0.17 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 4 | 0.17 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 4 | 0.17 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 4 | 0.17 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 4 | 0.17 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 4 | 0.17 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 4 | 0.17 |
| (1,410) | 1:86:A:LEU:HG | 1:87:A:GLU:H | 2 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 11 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 11 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 11 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 11 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 11 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 11 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 14 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 14 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 14 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 14 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 14 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 14 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 15 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 15 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 15 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 15 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 15 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 15 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 16 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 16 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 16 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 16 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 16 | 0.17 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 16 | 0.17 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG21 | 3 | 0.17 |
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG22 | 3 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,401) | 1:86:A:LEU:HA | 1:156:A:ILE:HG23 | 3 | 0.17 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 17 | 0.17 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 7 | 0.17 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 7 | 0.17 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 7 | 0.17 |
| (1,393) | 1:86:A:LEU:H | 1:87:A:GLU:H | 18 | 0.17 |
| (1,375) | 1:84:A:GLU:H | 1:84:A:GLU:HG2 | 2 | 0.17 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB1 | 9 | 0.17 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB2 | 9 | 0.17 |
| (1,318) | 1:80:A:ARG:HD2 | 1:85:A:ALA:HB3 | 9 | 0.17 |
| (1,312) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 17 | 0.17 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 2 | 0.17 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 2 | 0.17 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 2 | 0.17 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 18 | 0.17 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 18 | 0.17 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 18 | 0.17 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 13 | 0.17 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 13 | 0.17 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 13 | 0.17 |
| (1,254) | 1:76:A:GLU:HA | 1:77:A:LYS:H | 2 | 0.17 |
| (1,252) | 1:76:A:GLU:H | 1:77:A:LYS:H | 9 | 0.17 |
| (1,246) | 1:75:A:GLN:HA | 1:75:A:GLN:HB3 | 19 | 0.17 |
| (1,237) | 1:74:A:ARG:H | 1:75:A:GLN:H | 6 | 0.17 |
| (1,213) | 1:73:A:TRP:H | 1:74:A:ARG:H | 10 | 0.17 |
| (1,213) | 1:73:A:TRP:H | 1:74:A:ARG:H | 20 | 0.17 |
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 16 | 0.17 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 20 | 0.17 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 7 | 0.17 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 19 | 0.17 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 19 | 0.17 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 19 | 0.17 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 19 | 0.17 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 19 | 0.17 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 19 | 0.17 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 1 | 0.17 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 1 | 0.17 |
| (1,93) | 1:58:A:SER:H | 1:160:A:LEU:H | 5 | 0.17 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 5 | 0.17 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 14 | 0.17 |
| (1,65) | 1:56:A:ARG:H | 1:56:A:ARG:HB2 | 7 | 0.17 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 2 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 5 | 0.17 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 10 | 0.17 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 18 | 0.17 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 19 | 0.17 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 2 | 0.17 |
| (1,15) | 1:52:A:PRO:HA | 1:54:A:ARG:H | 11 | 0.17 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 4 | 0.16 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 4 | 0.16 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 4 | 0.16 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 4 | 0.16 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB2 | 7 | 0.16 |
| (3,1010) | 1:131:A:GLN:HE21 | 1:135:A:GLU:HB3 | 7 | 0.16 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB2 | 7 | 0.16 |
| (3,1010) | 1:131:A:GLN:HE22 | 1:135:A:GLU:HB3 | 7 | 0.16 |
| (3,892) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG2 | 16 | 0.16 |
| (3,892) | 1:81:A:THR:HG21 | 1:84:A:GLU:HG3 | 16 | 0.16 |
| (3,892) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG2 | 16 | 0.16 |
| (3,892) | 1:81:A:THR:HG22 | 1:84:A:GLU:HG3 | 16 | 0.16 |
| (3,892) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG2 | 16 | 0.16 |
| (3,892) | 1:81:A:THR:HG23 | 1:84:A:GLU:HG3 | 16 | 0.16 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB2 | 1 | 0.16 |
| (3,820) | 1:57:A:CYS:H | 1:163:A:GLU:HB3 | 1 | 0.16 |
| (3,813) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB2 | 7 | 0.16 |
| (3,813) | 1:56:A:ARG:HG2 | 1:122:A:LEU:HB3 | 7 | 0.16 |
| (3,813) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB2 | 7 | 0.16 |
| (3,813) | 1:56:A:ARG:HG3 | 1:122:A:LEU:HB3 | 7 | 0.16 |
| (3,801) | 1:54:A:ARG:HB2 | 1:124:A:ALA:H | 20 | 0.16 |
| (3,801) | 1:54:A:ARG:HB3 | 1:124:A:ALA:H | 20 | 0.16 |
| (3,646) | 1:132:A:LYS:HD2 | 1:135:A:GLU:H | 4 | 0.16 |
| (3,605) | 1:115:A:SER:H | 1:122:A:LEU:H | 13 | 0.16 |
| (3,577) | 1:104:A:GLU:HA | 1:105:A:SER:HB2 | 20 | 0.16 |
| (3,488) | 1:85:A:ALA:H | 1:88:A:LEU:H | 1 | 0.16 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 18 | 0.16 |
| (3,254) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 15 | 0.16 |
| (3,254) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 15 | 0.16 |
| (3,254) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 15 | 0.16 |
| (3,90) | 1:2:A:ALA:HB1 | 1:4:A:GLU:H | 17 | 0.16 |
| (3,90) | 1:2:A:ALA:HB2 | 1:4:A:GLU:H | 17 | 0.16 |
| (3,90) | 1:2:A:ALA:HB3 | 1:4:A:GLU:H | 17 | 0.16 |
| (3,25) | 1:89:A:ILE:HG21 | 1:158:A:ILE:H | 3 | 0.16 |
| (3,25) | 1:89:A:ILE:HG22 | 1:158:A:ILE:H | 3 | 0.16 |
| (3,25) | 1:89:A:ILE:HG23 | 1:158:A:ILE:H | 3 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,21) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 8 | 0.16 |
| (3,21) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 8 | 0.16 |
| (3,21) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 8 | 0.16 |
| (3,20) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 18 | 0.16 |
| (1,9629) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 7 | 0.16 |
| (1,9629) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 7 | 0.16 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB2 | 12 | 0.16 |
| (1,9615) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 12 | 0.16 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 16 | 0.16 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 16 | 0.16 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 3 | 0.16 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 3 | 0.16 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 7 | 0.16 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 7 | 0.16 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 16 | 0.16 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 16 | 0.16 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG11 | 9 | 0.16 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG12 | 9 | 0.16 |
| (1,9482) | 1:133:A:PRO:HB2 | 1:150:A:VAL:HG13 | 9 | 0.16 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG11 | 9 | 0.16 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG12 | 9 | 0.16 |
| (1,9482) | 1:133:A:PRO:HB3 | 1:150:A:VAL:HG13 | 9 | 0.16 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 13 | 0.16 |
| (1,9465) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 13 | 0.16 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 13 | 0.16 |
| (1,9465) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 13 | 0.16 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB2 | 13 | 0.16 |
| (1,9463) | 1:131:A:GLN:HE21 | 1:153:A:ASP:HB3 | 13 | 0.16 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB2 | 13 | 0.16 |
| (1,9463) | 1:131:A:GLN:HE22 | 1:153:A:ASP:HB3 | 13 | 0.16 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 16 | 0.16 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 16 | 0.16 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 16 | 0.16 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 16 | 0.16 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 14 | 0.16 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 14 | 0.16 |
| (1,9419) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 14 | 0.16 |
| (1,9419) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 14 | 0.16 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 9 | 0.16 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 9 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 6 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 6 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 6 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 6 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 6 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 6 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 10 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 10 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 10 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 10 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 10 | 0.16 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 10 | 0.16 |
| (1,9300) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD2 | 1 | 0.16 |
| (1,9300) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HD3 | 1 | 0.16 |
| (1,9300) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD2 | 1 | 0.16 |
| (1,9300) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HD3 | 1 | 0.16 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 13 | 0.16 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 13 | 0.16 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 16 | 0.16 |
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 16 | 0.16 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB2 | 14 | 0.16 |
| (1,9043) | 1:81:A:THR:H | 1:84:A:GLU:HB3 | 14 | 0.16 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 13 | 0.16 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 13 | 0.16 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 6 | 0.16 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 6 | 0.16 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 13 | 0.16 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 13 | 0.16 |
| (1,8868) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 7 | 0.16 |
| (1,8868) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 7 | 0.16 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 3 | 0.16 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 3 | 0.16 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB2 | 19 | 0.16 |
| (1,8815) | 1:58:A:SER:HB2 | 1:160:A:LEU:HB3 | 19 | 0.16 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB2 | 19 | 0.16 |
| (1,8815) | 1:58:A:SER:HB3 | 1:160:A:LEU:HB3 | 19 | 0.16 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB2 | 9 | 0.16 |
| (1,8808) | 1:58:A:SER:H | 1:58:A:SER:HB3 | 9 | 0.16 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 7 | 0.16 |
| (1,8775) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB3 | 7 | 0.16 |
| (1,8773) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 7 | 0.16 |
| (1,8773) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 7 | 0.16 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 2 | 0.16 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 2 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 2 | 0.16 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 2 | 0.16 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB2 | 20 | 0.16 |
| (1,8738) | 1:52:A:PRO:HG2 | 1:127:A:ARG:HB3 | 20 | 0.16 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB2 | 20 | 0.16 |
| (1,8738) | 1:52:A:PRO:HG3 | 1:127:A:ARG:HB3 | 20 | 0.16 |
| (1,8727) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 6 | 0.16 |
| (1,8727) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 6 | 0.16 |
| (1,8727) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 14 | 0.16 |
| (1,8727) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 14 | 0.16 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE21 | 17 | 0.16 |
| (1,8713) | 1:47:A:ASN:HB2 | 1:49:A:GLN:HE22 | 17 | 0.16 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE21 | 17 | 0.16 |
| (1,8713) | 1:47:A:ASN:HB3 | 1:49:A:GLN:HE22 | 17 | 0.16 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB2 | 5 | 0.16 |
| (1,8638) | 1:21:A:ARG:HG2 | 1:34:A:TRP:HB3 | 5 | 0.16 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB2 | 5 | 0.16 |
| (1,8638) | 1:21:A:ARG:HG3 | 1:34:A:TRP:HB3 | 5 | 0.16 |
| (1,8620) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 6 | 0.16 |
| (1,8620) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 6 | 0.16 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 5 | 0.16 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 5 | 0.16 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 10 | 0.16 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 10 | 0.16 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 10 | 0.16 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 10 | 0.16 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 10 | 0.16 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 10 | 0.16 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 5 | 0.16 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 5 | 0.16 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 5 | 0.16 |
| (1,8261) | 1:119:A:ARG:H | 1:121:A:ASP:H | 7 | 0.16 |
| (1,8154) | 1:96:A:ILE:HA | 1:100:A:GLU:H | 18 | 0.16 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 6 | 0.16 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 6 | 0.16 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 6 | 0.16 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 16 | 0.16 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 19 | 0.16 |
| (1,8040) | 1:87:A:GLU:H | 1:88:A:LEU:HG | 8 | 0.16 |
| (1,8008) | 1:82:A:LYS:HA | 1:86:A:LEU:H | 7 | 0.16 |
| (1,7966) | 1:77:A:LYS:HD2 | 1:78:A:ILE:H | 10 | 0.16 |
| (1,7966) | 1:77:A:LYS:HD3 | 1:78:A:ILE:H | 10 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7916) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 20 | 0.16 |
| (1,7916) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 20 | 0.16 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 13 | 0.16 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 15 | 0.16 |
| (1,7337) | 1:89:A:ILE:HA | 1:92:A:TYR:H | 5 | 0.16 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 17 | 0.16 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB2 | 2 | 0.16 |
| (1,7308) | 1:40:A:ASN:HA | 1:41:A:SER:HB3 | 2 | 0.16 |
| (1,7306) | 1:40:A:ASN:HA | 1:41:A:SER:H | 12 | 0.16 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 19 | 0.16 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 9 | 0.16 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 13 | 0.16 |
| (1,7109) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 20 | 0.16 |
| (1,7109) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 20 | 0.16 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 19 | 0.16 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 19 | 0.16 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 19 | 0.16 |
| (1,7061) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 17 | 0.16 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 16 | 0.16 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 16 | 0.16 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 3 | 0.16 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 6 | 0.16 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 12 | 0.16 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 12 | 0.16 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 10 | 0.16 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 10 | 0.16 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 13 | 0.16 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 13 | 0.16 |
| (1,6959) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 8 | 0.16 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 16 | 0.16 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 7 | 0.16 |
| (1,6945) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 17 | 0.16 |
| (1,6941) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE21 | 15 | 0.16 |
| (1,6935) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE22 | 9 | 0.16 |
| (1,6929) | 1:32:A:SER:HA | 1:33:A:GLN:H | 9 | 0.16 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 2 | 0.16 |
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 6 | 0.16 |
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 20 | 0.16 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 2 | 0.16 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 10 | 0.16 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 18 | 0.16 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 18 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6756) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 2 | 0.16 |
| (1,6756) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 9 | 0.16 |
| (1,6736) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 10 | 0.16 |
| (1,6736) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 13 | 0.16 |
| (1,6728) | 1:16:A:SER:H | 1:21:A:ARG:HB3 | 11 | 0.16 |
| (1,6726) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 11 | 0.16 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 11 | 0.16 |
| (1,6697) | 1:16:A:SER:H | 1:20:A:GLY:H | 3 | 0.16 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 13 | 0.16 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 9 | 0.16 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 7 | 0.16 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG21 | 20 | 0.16 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG22 | 20 | 0.16 |
| (1,6656) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG23 | 20 | 0.16 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG21 | 20 | 0.16 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG22 | 20 | 0.16 |
| (1,6656) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG23 | 20 | 0.16 |
| (1,6604) | 1:11:A:TRP:HZ3 | 1:32:A:SER:H | 16 | 0.16 |
| (1,6578) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 1 | 0.16 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 13 | 0.16 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 7 | 0.16 |
| (1,6548) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 17 | 0.16 |
| (1,6540) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 3 | 0.16 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 13 | 0.16 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 1 | 0.16 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 20 | 0.16 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 20 | 0.16 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 6 | 0.16 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 8 | 0.16 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 8 | 0.16 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 17 | 0.16 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 17 | 0.16 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 17 | 0.16 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 13 | 0.16 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 13 | 0.16 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 13 | 0.16 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 13 | 0.16 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 13 | 0.16 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 13 | 0.16 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 13 | 0.16 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 13 | 0.16 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 13 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 6 | 0.16 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 6 | 0.16 |
| (1,6236) | 1:146:A:MET:HA | 1:147:A:SER:H | 15 | 0.16 |
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 10 | 0.16 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 10 | 0.16 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 17 | 0.16 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 10 | 0.16 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 10 | 0.16 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 10 | 0.16 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 7 | 0.16 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 7 | 0.16 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 7 | 0.16 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 10 | 0.16 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 10 | 0.16 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 10 | 0.16 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD21 | 20 | 0.16 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD22 | 20 | 0.16 |
| (1,6153) | 1:141:A:LEU:H | 1:141:A:LEU:HD23 | 20 | 0.16 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 8 | 0.16 |
| (1,6122) | 1:139:A:PHE:H | 1:140:A:ALA:H | 6 | 0.16 |
| (1,6122) | 1:139:A:PHE:H | 1:140:A:ALA:H | 20 | 0.16 |
| (1,6107) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 6 | 0.16 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 4 | 0.16 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 4 | 0.16 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 4 | 0.16 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 4 | 0.16 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 4 | 0.16 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 4 | 0.16 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 4 | 0.16 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 4 | 0.16 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 4 | 0.16 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 13 | 0.16 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 13 | 0.16 |
| (1,6093) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 13 | 0.16 |
| (1,6071) | 1:135:A:GLU:HB2 | 1:136:A:ASP:H | 17 | 0.16 |
| (1,6071) | 1:135:A:GLU:HB3 | 1:136:A:ASP:H | 17 | 0.16 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 8 | 0.16 |
| (1,6036) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG21 | 3 | 0.16 |
| (1,6036) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG22 | 3 | 0.16 |
| (1,6036) | 1:133:A:PRO:HD2 | 1:152:A:THR:HG23 | 3 | 0.16 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 1 | 0.16 |
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 1 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6032) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 1 | 0.16 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 1 | 0.16 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 1 | 0.16 |
| (1,6032) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 1 | 0.16 |
| (1,5990) | 1:130:A:MET:HB2 | 1:135:A:GLU:HA | 19 | 0.16 |
| (1,5965) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 13 | 0.16 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 14 | 0.16 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 5 | 0.16 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 14 | 0.16 |
| (1,5887) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 9 | 0.16 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 14 | 0.16 |
| (1,5844) | 1:118:A:ALA:H | 1:119:A:ARG:HA | 9 | 0.16 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 19 | 0.16 |
| (1,5814) | 1:117:A:LYS:H | 1:118:A:ALA:H | 13 | 0.16 |
| (1,5781) | 1:114:A:SER:H | 1:115:A:SER:H | 18 | 0.16 |
| (1,5767) | 1:112:A:ASP:H | 1:113:A:CYS:H | 16 | 0.16 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 14 | 0.16 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 19 | 0.16 |
| (1,5706) | 1:106:A:LEU:HD11 | 1:107:A:ALA:H | 10 | 0.16 |
| (1,5706) | 1:106:A:LEU:HD12 | 1:107:A:ALA:H | 10 | 0.16 |
| (1,5706) | 1:106:A:LEU:HD13 | 1:107:A:ALA:H | 10 | 0.16 |
| (1,5698) | 1:102:A:ASP:H | 1:106:A:LEU:HG | 1 | 0.16 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 8 | 0.16 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 2 | 0.16 |
| (1,5667) | 1:105:A:SER:H | 1:106:A:LEU:H | 1 | 0.16 |
| (1,5667) | 1:105:A:SER:H | 1:106:A:LEU:H | 19 | 0.16 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 13 | 0.16 |
| (1,5595) | 1:100:A:GLU:H | 1:101:A:GLU:H | 12 | 0.16 |
| (1,5577) | 1:98:A:SER:HA | 1:98:A:SER:HB3 | 2 | 0.16 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 9 | 0.16 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 12 | 0.16 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 12 | 0.16 |
| (1,5566) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 12 | 0.16 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 8 | 0.16 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 8 | 0.16 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 8 | 0.16 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 11 | 0.16 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 2 | 0.16 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB2 | 13 | 0.16 |
| (1,5495) | 1:95:A:LYS:HB3 | 1:100:A:GLU:HB3 | 13 | 0.16 |
| (1,5484) | 1:94:A:GLN:H | 1:95:A:LYS:H | 14 | 0.16 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 2 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5331) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 14 | 0.16 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD21 | 18 | 0.16 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD22 | 18 | 0.16 |
| (1,5313) | 1:88:A:LEU:H | 1:88:A:LEU:HD23 | 18 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 6 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 6 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 6 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 6 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 6 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 6 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 6 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 6 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 6 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG21 | 15 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG22 | 15 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HG23 | 15 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG21 | 15 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG22 | 15 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HG23 | 15 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG21 | 15 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG22 | 15 | 0.16 |
| (1,5281) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HG23 | 15 | 0.16 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 11 | 0.16 |
| (1,5190) | 1:84:A:GLU:H | 1:85:A:ALA:H | 13 | 0.16 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 4 | 0.16 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 4 | 0.16 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 4 | 0.16 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 15 | 0.16 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 15 | 0.16 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 15 | 0.16 |
| (1,5155) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 3 | 0.16 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 15 | 0.16 |
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 1 | 0.16 |
| (1,5031) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 9 | 0.16 |
| (1,5020) | 1:73:A:TRP:HE1 | 1:74:A:ARG:H | 4 | 0.16 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB1 | 12 | 0.16 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB2 | 12 | 0.16 |
| (1,5012) | 1:73:A:TRP:HE1 | 1:116:A:ALA:HB3 | 12 | 0.16 |
| (1,4996) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 14 | 0.16 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 18 | 0.16 |
| (1,4984) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 14 | 0.16 |
| (1,4984) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 17 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 17 | 0.16 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 7 | 0.16 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 5 | 0.16 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 12 | 0.16 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 12 | 0.16 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 12 | 0.16 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 18 | 0.16 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 18 | 0.16 |
| (1,4825) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 18 | 0.16 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 18 | 0.16 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 18 | 0.16 |
| (1,4825) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 18 | 0.16 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 18 | 0.16 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 18 | 0.16 |
| (1,4825) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 18 | 0.16 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 2 | 0.16 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 2 | 0.16 |
| (1,4791) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 2 | 0.16 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 12 | 0.16 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 6 | 0.16 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 11 | 0.16 |
| (1,4708) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 1 | 0.16 |
| (1,4696) | 1:55:A:VAL:H | 1:125:A:PHE:H | 14 | 0.16 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 10 | 0.16 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 10 | 0.16 |
| (1,4688) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 10 | 0.16 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 10 | 0.16 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 10 | 0.16 |
| (1,4688) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 10 | 0.16 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 4 | 0.16 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 8 | 0.16 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 8 | 0.16 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 8 | 0.16 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 20 | 0.16 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 16 | 0.16 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 20 | 0.16 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 20 | 0.16 |
| (1,4617) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 8 | 0.16 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 14 | 0.16 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 14 | 0.16 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 1 | 0.16 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 1 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 20 | 0.16 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 20 | 0.16 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 1 | 0.16 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 1 | 0.16 |
| (1,4397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 7 | 0.16 |
| (1,4397) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 7 | 0.16 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 5 | 0.16 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 5 | 0.16 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 10 | 0.16 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 10 | 0.16 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 12 | 0.16 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 12 | 0.16 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 8 | 0.16 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 8 | 0.16 |
| (1,4309) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 10 | 0.16 |
| (1,4309) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 10 | 0.16 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 5 | 0.16 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 5 | 0.16 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 4 | 0.16 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 4 | 0.16 |
| (1,4251) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 0.16 |
| (1,4251) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 0.16 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 14 | 0.16 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 14 | 0.16 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD21 | 2 | 0.16 |
| (1,4087) | 1:89:A:ILE:HG21 | 1:90:A:ASN:HD22 | 2 | 0.16 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD21 | 2 | 0.16 |
| (1,4087) | 1:89:A:ILE:HG22 | 1:90:A:ASN:HD22 | 2 | 0.16 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD21 | 2 | 0.16 |
| (1,4087) | 1:89:A:ILE:HG23 | 1:90:A:ASN:HD22 | 2 | 0.16 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 7 | 0.16 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 7 | 0.16 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 1 | 0.16 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 1 | 0.16 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 4 | 0.16 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 4 | 0.16 |
| (1,3713) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 12 | 0.16 |
| (1,3713) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 12 | 0.16 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 11 | 0.16 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 11 | 0.16 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 4 | 0.16 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 4 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 10 | 0.16 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 10 | 0.16 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 14 | 0.16 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 14 | 0.16 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 17 | 0.16 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 17 | 0.16 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 7 | 0.16 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 7 | 0.16 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB1 | 2 | 0.16 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB2 | 2 | 0.16 |
| (1,3467) | 1:28:A:ILE:HD11 | 1:140:A:ALA:HB3 | 2 | 0.16 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB1 | 2 | 0.16 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB2 | 2 | 0.16 |
| (1,3467) | 1:28:A:ILE:HD12 | 1:140:A:ALA:HB3 | 2 | 0.16 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB1 | 2 | 0.16 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB2 | 2 | 0.16 |
| (1,3467) | 1:28:A:ILE:HD13 | 1:140:A:ALA:HB3 | 2 | 0.16 |
| (1,3417) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 3 | 0.16 |
| (1,3417) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 11 | 0.16 |
| (1,3417) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 14 | 0.16 |
| (1,3415) | 1:21:A:ARG:HA | 1:21:A:ARG:HG3 | 3 | 0.16 |
| (1,3411) | 1:15:A:MET:HB3 | 1:16:A:SER:H | 1 | 0.16 |
| (1,3401) | 1:14:A:ARG:HG3 | 1:14:A:ARG:HD2 | 14 | 0.16 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 7 | 0.16 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 7 | 0.16 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 7 | 0.16 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 1 | 0.16 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 1 | 0.16 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 15 | 0.16 |
| (1,3295) | 1:105:A:SER:HB2 | 1:106:A:LEU:HG | 7 | 0.16 |
| (1,3285) | 1:101:A:GLU:HG2 | 1:102:A:ASP:H | 20 | 0.16 |
| (1,3285) | 1:101:A:GLU:HG3 | 1:102:A:ASP:H | 20 | 0.16 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 11 | 0.16 |
| (1,3271) | 1:97:A:LYS:HA | 1:99:A:GLY:H | 15 | 0.16 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 8 | 0.16 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 11 | 0.16 |
| (1,3251) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 6 | 0.16 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 16 | 0.16 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 16 | 0.16 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 16 | 0.16 |
| (1,3199) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 3 | 0.16 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 14 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 14 | 0.16 |
| (1,3187) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 5 | 0.16 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 3 | 0.16 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 5 | 0.16 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 5 | 0.16 |
| (1,3123) | 1:47:A:ASN:HB3 | 1:48:A:GLY:H | 4 | 0.16 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 15 | 0.16 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 13 | 0.16 |
| (1,3057) | 1:37:A:PRO:HA | 1:38:A:SER:H | 17 | 0.16 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 6 | 0.16 |
| (1,2993) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 2 | 0.16 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 16 | 0.16 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 5 | 0.16 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 5 | 0.16 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 7 | 0.16 |
| (1,2965) | 1:33:A:GLN:HB3 | 1:34:A:TRP:H | 17 | 0.16 |
| (1,2945) | 1:32:A:SER:HA | 1:33:A:GLN:H | 9 | 0.16 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 19 | 0.16 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 19 | 0.16 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 19 | 0.16 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 5 | 0.16 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 5 | 0.16 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 5 | 0.16 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 2 | 0.16 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 14 | 0.16 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 1 | 0.16 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 1 | 0.16 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 1 | 0.16 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 16 | 0.16 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 19 | 0.16 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 19 | 0.16 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 19 | 0.16 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 6 | 0.16 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 20 | 0.16 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB1 | 7 | 0.16 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB2 | 7 | 0.16 |
| (1,2827) | 1:26:A:ASN:HB3 | 1:31:A:ALA:HB3 | 7 | 0.16 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 10 | 0.16 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 10 | 0.16 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 10 | 0.16 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 2 | 0.16 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 10 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 18 | 0.16 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 4 | 0.16 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 4 | 0.16 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 4 | 0.16 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 18 | 0.16 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 20 | 0.16 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 20 | 0.16 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE1 | 9 | 0.16 |
| (1,2755) | 1:7:A:LEU:HD21 | 1:24:A:TYR:HE2 | 9 | 0.16 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE1 | 9 | 0.16 |
| (1,2755) | 1:7:A:LEU:HD22 | 1:24:A:TYR:HE2 | 9 | 0.16 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE1 | 9 | 0.16 |
| (1,2755) | 1:7:A:LEU:HD23 | 1:24:A:TYR:HE2 | 9 | 0.16 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 1 | 0.16 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 1 | 0.16 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 1 | 0.16 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 17 | 0.16 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 17 | 0.16 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 17 | 0.16 |
| (1,2633) | 1:20:A:GLY:H | 1:20:A:GLY:HA3 | 17 | 0.16 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 5 | 0.16 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 5 | 0.16 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 9 | 0.16 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 10 | 0.16 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 10 | 0.16 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB1 | 6 | 0.16 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB2 | 6 | 0.16 |
| (1,2465) | 1:11:A:TRP:HZ2 | 1:31:A:ALA:HB3 | 6 | 0.16 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 5 | 0.16 |
| (1,2445) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 6 | 0.16 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 13 | 0.16 |
| (1,2421) | 1:11:A:TRP:H | 1:11:A:TRP:HB3 | 1 | 0.16 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 19 | 0.16 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 7 | 0.16 |
| (1,2395) | 1:9:A:PRO:HA | 1:10:A:GLY:H | 17 | 0.16 |
| (1,2385) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB2 | 3 | 0.16 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 19 | 0.16 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 19 | 0.16 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 19 | 0.16 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 1 | 0.16 |
| (1,2365) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HG | 10 | 0.16 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 7 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 7 | 0.16 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 7 | 0.16 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 9 | 0.16 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 9 | 0.16 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 9 | 0.16 |
| (1,2323) | 1:6:A:LYS:HA | 1:6:A:LYS:HB3 | 9 | 0.16 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 17 | 0.16 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 2 | 0.16 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 4 | 0.16 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 7 | 0.16 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 13 | 0.16 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 15 | 0.16 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 16 | 0.16 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 19 | 0.16 |
| (1,2303) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 3 | 0.16 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 4 | 0.16 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 19 | 0.16 |
| (1,2279) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 17 | 0.16 |
| (1,2277) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 16 | 0.16 |
| (1,2213) | 1:162:A:THR:HA | 1:162:A:THR:HB | 9 | 0.16 |
| (1,2213) | 1:162:A:THR:HA | 1:162:A:THR:HB | 15 | 0.16 |
| (1,2213) | 1:162:A:THR:HA | 1:162:A:THR:HB | 19 | 0.16 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 3 | 0.16 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 3 | 0.16 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 3 | 0.16 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 13 | 0.16 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 19 | 0.16 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 19 | 0.16 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 19 | 0.16 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 10 | 0.16 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 12 | 0.16 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 12 | 0.16 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 12 | 0.16 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 12 | 0.16 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 12 | 0.16 |
| (1,2037) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 12 | 0.16 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 13 | 0.16 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 15 | 0.16 |
| (1,1999) | 1:152:A:THR:H | 1:152:A:THR:HA | 18 | 0.16 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG21 | 19 | 0.16 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG22 | 19 | 0.16 |
| (1,1997) | 1:152:A:THR:H | 1:152:A:THR:HG23 | 19 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 1 | 0.16 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 1 | 0.16 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 19 | 0.16 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 19 | 0.16 |
| (1,1961) | 1:150:A:VAL:H | 1:157:A:HIS:H | 1 | 0.16 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 16 | 0.16 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 16 | 0.16 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 16 | 0.16 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 2 | 0.16 |
| (1,1929) | 1:148:A:GLY:H | 1:148:A:GLY:HA3 | 3 | 0.16 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 3 | 0.16 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 3 | 0.16 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD11 | 18 | 0.16 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD12 | 18 | 0.16 |
| (1,1901) | 1:146:A:MET:HG3 | 1:160:A:LEU:HD13 | 18 | 0.16 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 6 | 0.16 |
| (1,1867) | 1:146:A:MET:HA | 1:147:A:SER:H | 15 | 0.16 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 19 | 0.16 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 16 | 0.16 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 1 | 0.16 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 1 | 0.16 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 1 | 0.16 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 10 | 0.16 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 17 | 0.16 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 7 | 0.16 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 7 | 0.16 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 7 | 0.16 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 19 | 0.16 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 19 | 0.16 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 19 | 0.16 |
| (1,1709) | 1:139:A:PHE:H | 1:140:A:ALA:H | 6 | 0.16 |
| (1,1709) | 1:139:A:PHE:H | 1:140:A:ALA:H | 20 | 0.16 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG21 | 1 | 0.16 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG22 | 1 | 0.16 |
| (1,1673) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HG23 | 1 | 0.16 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG21 | 1 | 0.16 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG22 | 1 | 0.16 |
| (1,1673) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HG23 | 1 | 0.16 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG21 | 1 | 0.16 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG22 | 1 | 0.16 |
| (1,1673) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HG23 | 1 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 9 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 9 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 9 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 10 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 10 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 10 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 15 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 15 | 0.16 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 15 | 0.16 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 2 | 0.16 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 5 | 0.16 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 7 | 0.16 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 10 | 0.16 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 14 | 0.16 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 8 | 0.16 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 20 | 0.16 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 12 | 0.16 |
| (1,1533) | 1:131:A:GLN:HG2 | 1:153:A:ASP:H | 10 | 0.16 |
| (1,1533) | 1:131:A:GLN:HG3 | 1:153:A:ASP:H | 10 | 0.16 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 13 | 0.16 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 13 | 0.16 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 5 | 0.16 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD1 | 13 | 0.16 |
| (1,1343) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HD2 | 13 | 0.16 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD1 | 13 | 0.16 |
| (1,1343) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HD2 | 13 | 0.16 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD1 | 13 | 0.16 |
| (1,1343) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HD2 | 13 | 0.16 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 2 | 0.16 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 2 | 0.16 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 6 | 0.16 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 6 | 0.16 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 12 | 0.16 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 12 | 0.16 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB2 | 13 | 0.16 |
| (1,1329) | 1:125:A:PHE:HA | 1:125:A:PHE:HB3 | 13 | 0.16 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 5 | 0.16 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 5 | 0.16 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 5 | 0.16 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 15 | 0.16 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 15 | 0.16 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 15 | 0.16 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 19 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 19 | 0.16 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 19 | 0.16 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 13 | 0.16 |
| (1,1253) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 12 | 0.16 |
| (1,1253) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 12 | 0.16 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 8 | 0.16 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 14 | 0.16 |
| (1,1221) | 1:119:A:ARG:HA | 1:119:A:ARG:HB3 | 13 | 0.16 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 2 | 0.16 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 2 | 0.16 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 2 | 0.16 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 8 | 0.16 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 8 | 0.16 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 8 | 0.16 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 19 | 0.16 |
| (1,1177) | 1:117:A:LYS:H | 1:118:A:ALA:H | 13 | 0.16 |
| (1,1167) | 1:116:A:ALA:HA | 1:117:A:LYS:H | 7 | 0.16 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 13 | 0.16 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 13 | 0.16 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 13 | 0.16 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB1 | 15 | 0.16 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB2 | 15 | 0.16 |
| (1,1147) | 1:115:A:SER:HA | 1:118:A:ALA:HB3 | 15 | 0.16 |
| (1,1133) | 1:114:A:SER:H | 1:115:A:SER:H | 18 | 0.16 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 7 | 0.16 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 19 | 0.16 |
| (1,1113) | 1:112:A:ASP:H | 1:113:A:CYS:H | 16 | 0.16 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 11 | 0.16 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 4 | 0.16 |
| (1,1065) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 12 | 0.16 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 12 | 0.16 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 19 | 0.16 |
| (1,1041) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 14 | 0.16 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 14 | 0.16 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 18 | 0.16 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 7 | 0.16 |
| (1,1013) | 1:107:A:ALA:HB1 | 1:119:A:ARG:HA | 15 | 0.16 |
| (1,1013) | 1:107:A:ALA:HB2 | 1:119:A:ARG:HA | 15 | 0.16 |
| (1,1013) | 1:107:A:ALA:HB3 | 1:119:A:ARG:HA | 15 | 0.16 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 19 | 0.16 |
| (1,969) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 6 | 0.16 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 8 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 16 | 0.16 |
| (1,935) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 5 | 0.16 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 4 | 0.16 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 5 | 0.16 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 9 | 0.16 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 10 | 0.16 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 13 | 0.16 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 16 | 0.16 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 20 | 0.16 |
| (1,919) | 1:105:A:SER:H | 1:106:A:LEU:H | 1 | 0.16 |
| (1,919) | 1:105:A:SER:H | 1:106:A:LEU:H | 19 | 0.16 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 12 | 0.16 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 17 | 0.16 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 2 | 0.16 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 3 | 0.16 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 7 | 0.16 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 17 | 0.16 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 19 | 0.16 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD1 | 4 | 0.16 |
| (1,863) | 1:96:A:ILE:HG21 | 1:103:A:PHE:HD2 | 4 | 0.16 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD1 | 4 | 0.16 |
| (1,863) | 1:96:A:ILE:HG22 | 1:103:A:PHE:HD2 | 4 | 0.16 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD1 | 4 | 0.16 |
| (1,863) | 1:96:A:ILE:HG23 | 1:103:A:PHE:HD2 | 4 | 0.16 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 14 | 0.16 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 20 | 0.16 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 5 | 0.16 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 5 | 0.16 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 13 | 0.16 |
| (1,775) | 1:100:A:GLU:H | 1:101:A:GLU:H | 12 | 0.16 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE1 | 9 | 0.16 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE2 | 9 | 0.16 |
| (1,725) | 1:97:A:LYS:HA | 1:146:A:MET:HE3 | 9 | 0.16 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 11 | 0.16 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 2 | 0.16 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 3 | 0.16 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 3 | 0.16 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 3 | 0.16 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 7 | 0.16 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 7 | 0.16 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 7 | 0.16 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 11 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 11 | 0.16 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 11 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 1 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 1 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 1 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 5 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 5 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 5 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 7 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 7 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 7 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG21 | 11 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG22 | 11 | 0.16 |
| (1,653) | 1:96:A:ILE:H | 1:96:A:ILE:HG23 | 11 | 0.16 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 17 | 0.16 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 13 | 0.16 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 13 | 0.16 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 13 | 0.16 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE1 | 10 | 0.16 |
| (1,519) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HE2 | 10 | 0.16 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE1 | 10 | 0.16 |
| (1,519) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HE2 | 10 | 0.16 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE1 | 10 | 0.16 |
| (1,519) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HE2 | 10 | 0.16 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 17 | 0.16 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 17 | 0.16 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 17 | 0.16 |
| (1,455) | 1:88:A:LEU:HD21 | 1:89:A:ILE:H | 18 | 0.16 |
| (1,455) | 1:88:A:LEU:HD22 | 1:89:A:ILE:H | 18 | 0.16 |
| (1,455) | 1:88:A:LEU:HD23 | 1:89:A:ILE:H | 18 | 0.16 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 14 | 0.16 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 14 | 0.16 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 3 | 0.16 |
| (1,411) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 3 | 0.16 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 6 | 0.16 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 6 | 0.16 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 6 | 0.16 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 6 | 0.16 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 6 | 0.16 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 6 | 0.16 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 15 | 0.16 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 15 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 15 | 0.16 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 15 | 0.16 |
| (1,368) | 1:84:A:GLU:H | 1:85:A:ALA:H | 13 | 0.16 |
| (1,367) | 1:84:A:GLU:H | 1:84:A:GLU:HG3 | 10 | 0.16 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE2 | 18 | 0.16 |
| (1,345) | 1:82:A:LYS:HG2 | 1:82:A:LYS:HE3 | 18 | 0.16 |
| (1,337) | 1:82:A:LYS:HA | 1:82:A:LYS:HG2 | 3 | 0.16 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG21 | 1 | 0.16 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG22 | 1 | 0.16 |
| (1,328) | 1:65:A:SER:H | 1:81:A:THR:HG23 | 1 | 0.16 |
| (1,313) | 1:80:A:ARG:HG2 | 1:81:A:THR:H | 20 | 0.16 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 19 | 0.16 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 19 | 0.16 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 19 | 0.16 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 2 | 0.16 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 2 | 0.16 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 2 | 0.16 |
| (1,277) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 11 | 0.16 |
| (1,277) | 1:78:A:ILE:HA | 1:78:A:ILE:HG13 | 11 | 0.16 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 3 | 0.16 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 3 | 0.16 |
| (1,230) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 19 | 0.16 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 7 | 0.16 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 10 | 0.16 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 10 | 0.16 |
| (1,204) | 1:71:A:SER:HA | 1:72:A:SER:H | 10 | 0.16 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 7 | 0.16 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 5 | 0.16 |
| (1,158) | 1:63:A:LYS:HD2 | 1:71:A:SER:H | 15 | 0.16 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 17 | 0.16 |
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 17 | 0.16 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 17 | 0.16 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 18 | 0.16 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 18 | 0.16 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 18 | 0.16 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 17 | 0.16 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 17 | 0.16 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 17 | 0.16 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG21 | 9 | 0.16 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG22 | 9 | 0.16 |
| (1,120) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG23 | 9 | 0.16 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG21 | 9 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG22 | 9 | 0.16 |
| (1,120) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG23 | 9 | 0.16 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG21 | 9 | 0.16 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG22 | 9 | 0.16 |
| (1,120) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG23 | 9 | 0.16 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD11 | 11 | 0.16 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD12 | 11 | 0.16 |
| (1,98) | 1:58:A:SER:HA | 1:122:A:LEU:HD13 | 11 | 0.16 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 12 | 0.16 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 6 | 0.16 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 4 | 0.16 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 4 | 0.16 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 4 | 0.16 |
| (1,48) | 1:55:A:VAL:H | 1:125:A:PHE:H | 14 | 0.16 |
| (1,45) | 1:54:A:ARG:HG2 | 1:55:A:VAL:H | 12 | 0.16 |
| (1,45) | 1:54:A:ARG:HG3 | 1:55:A:VAL:H | 12 | 0.16 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 4 | 0.16 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 4 | 0.16 |
| (1,38) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 4 | 0.16 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 4 | 0.16 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 4 | 0.16 |
| (1,38) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 4 | 0.16 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 20 | 0.16 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 6 | 0.16 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 6 | 0.16 |
| (4,277) | 1:90:A:ASN:CB | 1:34:A:TRP:HE1 | 13 | 0.15 |
| (4,56) | 1:15:A:MET:CB | 1:112:A:ASP:H | 11 | 0.15 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 8 | 0.15 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 8 | 0.15 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 14 | 0.15 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 14 | 0.15 |
| (3,852) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HB3 | 16 | 0.15 |
| (3,852) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HB3 | 16 | 0.15 |
| (3,826) | 1:59:A:HIS:H | 1:160:A:LEU:HB2 | 6 | 0.15 |
| (3,826) | 1:59:A:HIS:H | 1:160:A:LEU:HB3 | 6 | 0.15 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 16 | 0.15 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 16 | 0.15 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 6 | 0.15 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 6 | 0.15 |
| (3,329) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 15 | 0.15 |
| (3,329) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 15 | 0.15 |
| (3,244) | 1:15:A:MET:H | 1:22:A:VAL:H | 10 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 13 | 0.15 |
| (3,221) | 1:12:A:GLU:HG2 | 1:24:A:TYR:HB3 | 13 | 0.15 |
| (3,135) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 15 | 0.15 |
| (3,135) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 15 | 0.15 |
| (3,91) | 1:8:A:PRO:HG3 | 1:37:A:PRO:HB3 | 19 | 0.15 |
| (3,13) | 1:70:A:PRO:HB3 | 1:78:A:ILE:H | 17 | 0.15 |
| (1,9629) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 17 | 0.15 |
| (1,9629) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 17 | 0.15 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 6 | 0.15 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 6 | 0.15 |
| (1,9570) | 1:146:A:MET:HB2 | 1:147:A:SER:H | 10 | 0.15 |
| (1,9570) | 1:146:A:MET:HB3 | 1:147:A:SER:H | 10 | 0.15 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 10 | 0.15 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 10 | 0.15 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 14 | 0.15 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 14 | 0.15 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 4 | 0.15 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 4 | 0.15 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG2 | 18 | 0.15 |
| (1,9540) | 1:143:A:THR:H | 1:163:A:GLU:HG3 | 18 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 1 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 1 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 1 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 1 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 1 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 1 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 7 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 7 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 7 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 7 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 7 | 0.15 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 7 | 0.15 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 14 | 0.15 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 14 | 0.15 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 2 | 0.15 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 2 | 0.15 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 2 | 0.15 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 2 | 0.15 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 8 | 0.15 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 8 | 0.15 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 8 | 0.15 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 8 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 8 | 0.15 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 8 | 0.15 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 11 | 0.15 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 11 | 0.15 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG2 | 8 | 0.15 |
| (1,9255) | 1:100:A:GLU:HB2 | 1:101:A:GLU:HG3 | 8 | 0.15 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG2 | 8 | 0.15 |
| (1,9255) | 1:100:A:GLU:HB3 | 1:101:A:GLU:HG3 | 8 | 0.15 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG2 | 19 | 0.15 |
| (1,9216) | 1:95:A:LYS:HD2 | 1:101:A:GLU:HG3 | 19 | 0.15 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG2 | 19 | 0.15 |
| (1,9216) | 1:95:A:LYS:HD3 | 1:101:A:GLU:HG3 | 19 | 0.15 |
| (1,9067) | 1:83:A:GLU:HB2 | 1:85:A:ALA:H | 17 | 0.15 |
| (1,9067) | 1:83:A:GLU:HB3 | 1:85:A:ALA:H | 17 | 0.15 |
| (1,9013) | 1:77:A:LYS:HG2 | 1:78:A:ILE:H | 16 | 0.15 |
| (1,9013) | 1:77:A:LYS:HG3 | 1:78:A:ILE:H | 16 | 0.15 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 20 | 0.15 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 20 | 0.15 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG21 | 13 | 0.15 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG22 | 13 | 0.15 |
| (1,8841) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HG23 | 13 | 0.15 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG21 | 13 | 0.15 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG22 | 13 | 0.15 |
| (1,8841) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HG23 | 13 | 0.15 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 5 | 0.15 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 5 | 0.15 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 5 | 0.15 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 5 | 0.15 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 5 | 0.15 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 5 | 0.15 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 11 | 0.15 |
| (1,8723) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 11 | 0.15 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 4 | 0.15 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 4 | 0.15 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 4 | 0.15 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 4 | 0.15 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 8 | 0.15 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 8 | 0.15 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 8 | 0.15 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 8 | 0.15 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 18 | 0.15 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 18 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 18 | 0.15 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 18 | 0.15 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 18 | 0.15 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 18 | 0.15 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG2 | 19 | 0.15 |
| (1,8553) | 1:6:A:LYS:H | 1:6:A:LYS:HG3 | 19 | 0.15 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 12 | 0.15 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 12 | 0.15 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 12 | 0.15 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 12 | 0.15 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 12 | 0.15 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 12 | 0.15 |
| (1,8371) | 1:137:A:ALA:HA | 1:141:A:LEU:HG | 5 | 0.15 |
| (1,8178) | 1:102:A:ASP:H | 1:106:A:LEU:H | 10 | 0.15 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 2 | 0.15 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 15 | 0.15 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 16 | 0.15 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 8 | 0.15 |
| (1,7692) | 1:43:A:SER:HA | 1:45:A:GLY:H | 12 | 0.15 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 13 | 0.15 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 19 | 0.15 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 19 | 0.15 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 19 | 0.15 |
| (1,7522) | 1:14:A:ARG:HG3 | 1:25:A:PHE:H | 19 | 0.15 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 17 | 0.15 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 17 | 0.15 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 17 | 0.15 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG2 | 17 | 0.15 |
| (1,7361) | 1:100:A:GLU:HA | 1:101:A:GLU:HG3 | 17 | 0.15 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE2 | 15 | 0.15 |
| (1,7319) | 1:64:A:HIS:HE1 | 1:82:A:LYS:HE3 | 15 | 0.15 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 5 | 0.15 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 5 | 0.15 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 5 | 0.15 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 5 | 0.15 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 5 | 0.15 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 5 | 0.15 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 5 | 0.15 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 5 | 0.15 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 5 | 0.15 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 18 | 0.15 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 18 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 18 | 0.15 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 18 | 0.15 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 18 | 0.15 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 18 | 0.15 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 18 | 0.15 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 18 | 0.15 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 18 | 0.15 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 1 | 0.15 |
| (1,7243) | 1:24:A:TYR:H | 1:33:A:GLN:H | 6 | 0.15 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 2 | 0.15 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 4 | 0.15 |
| (1,7204) | 1:152:A:THR:HG21 | 1:155:A:GLY:H | 1 | 0.15 |
| (1,7204) | 1:152:A:THR:HG22 | 1:155:A:GLY:H | 1 | 0.15 |
| (1,7204) | 1:152:A:THR:HG23 | 1:155:A:GLY:H | 1 | 0.15 |
| (1,7180) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 12 | 0.15 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 18 | 0.15 |
| (1,7093) | 1:69:A:ARG:HG2 | 1:71:A:SER:HB3 | 17 | 0.15 |
| (1,7093) | 1:69:A:ARG:HG3 | 1:71:A:SER:HB3 | 17 | 0.15 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 1 | 0.15 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 1 | 0.15 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 1 | 0.15 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 8 | 0.15 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 8 | 0.15 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 8 | 0.15 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 9 | 0.15 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 17 | 0.15 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 1 | 0.15 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 1 | 0.15 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 19 | 0.15 |
| (1,6971) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 19 | 0.15 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 15 | 0.15 |
| (1,6937) | 1:33:A:GLN:HB2 | 1:34:A:TRP:H | 5 | 0.15 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 14 | 0.15 |
| (1,6931) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 3 | 0.15 |
| (1,6913) | 1:30:A:ASN:H | 1:30:A:ASN:HD22 | 16 | 0.15 |
| (1,6879) | 1:28:A:ILE:HB | 1:29:A:THR:H | 20 | 0.15 |
| (1,6837) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 7 | 0.15 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 3 | 0.15 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 8 | 0.15 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 2 | 0.15 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 4 | 0.15 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 11 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 9 | 0.15 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG21 | 9 | 0.15 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG22 | 9 | 0.15 |
| (1,6747) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG23 | 9 | 0.15 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG21 | 9 | 0.15 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG22 | 9 | 0.15 |
| (1,6747) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG23 | 9 | 0.15 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG21 | 9 | 0.15 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG22 | 9 | 0.15 |
| (1,6747) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG23 | 9 | 0.15 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 16 | 0.15 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 8 | 0.15 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 13 | 0.15 |
| (1,6642) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 20 | 0.15 |
| (1,6642) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 20 | 0.15 |
| (1,6642) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 20 | 0.15 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 17 | 0.15 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 20 | 0.15 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 12 | 0.15 |
| (1,6586) | 1:11:A:TRP:H | 1:11:A:TRP:HD1 | 16 | 0.15 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 19 | 0.15 |
| (1,6520) | 1:7:A:LEU:HB2 | 1:11:A:TRP:HB3 | 13 | 0.15 |
| (1,6469) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 20 | 0.15 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG21 | 2 | 0.15 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG22 | 2 | 0.15 |
| (1,6459) | 1:58:A:SER:H | 1:162:A:THR:HG23 | 2 | 0.15 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 9 | 0.15 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 9 | 0.15 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 9 | 0.15 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 15 | 0.15 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 15 | 0.15 |
| (1,6342) | 1:61:A:LEU:HD21 | 1:154:A:SER:HB2 | 2 | 0.15 |
| (1,6342) | 1:61:A:LEU:HD22 | 1:154:A:SER:HB2 | 2 | 0.15 |
| (1,6342) | 1:61:A:LEU:HD23 | 1:154:A:SER:HB2 | 2 | 0.15 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 2 | 0.15 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 2 | 0.15 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 2 | 0.15 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG21 | 19 | 0.15 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG22 | 19 | 0.15 |
| (1,6278) | 1:149:A:PRO:HB2 | 1:156:A:ILE:HG23 | 19 | 0.15 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD11 | 19 | 0.15 |
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD12 | 19 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6232) | 1:146:A:MET:H | 1:160:A:LEU:HD13 | 19 | 0.15 |
| (1,6226) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 19 | 0.15 |
| (1,6218) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 15 | 0.15 |
| (1,6202) | 1:144:A:GLY:H | 1:145:A:GLU:H | 11 | 0.15 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 3 | 0.15 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 3 | 0.15 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 3 | 0.15 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 3 | 0.15 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD21 | 6 | 0.15 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD22 | 6 | 0.15 |
| (1,6155) | 1:141:A:LEU:HA | 1:141:A:LEU:HD23 | 6 | 0.15 |
| (1,6145) | 1:140:A:ALA:H | 1:141:A:LEU:H | 16 | 0.15 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 15 | 0.15 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 14 | 0.15 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 14 | 0.15 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 14 | 0.15 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 13 | 0.15 |
| (1,6107) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 18 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 1 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 1 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 1 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 1 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 1 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 1 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 1 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 1 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 1 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 15 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 15 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 15 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 15 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 15 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 15 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 15 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 15 | 0.15 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 15 | 0.15 |
| (1,6073) | 1:136:A:ASP:H | 1:137:A:ALA:H | 2 | 0.15 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 8 | 0.15 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 8 | 0.15 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 9 | 0.15 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 9 | 0.15 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 9 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 12 | 0.15 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 19 | 0.15 |
| (1,6028) | 1:132:A:LYS:HD3 | 1:134:A:PHE:H | 3 | 0.15 |
| (1,6000) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 16 | 0.15 |
| (1,5947) | 1:126:A:SER:HB2 | 1:127:A:ARG:H | 17 | 0.15 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 4 | 0.15 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 5 | 0.15 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 15 | 0.15 |
| (1,5895) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 19 | 0.15 |
| (1,5852) | 1:108:A:SER:H | 1:119:A:ARG:HB3 | 2 | 0.15 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 7 | 0.15 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 4 | 0.15 |
| (1,5808) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 11 | 0.15 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB1 | 16 | 0.15 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB2 | 16 | 0.15 |
| (1,5795) | 1:115:A:SER:HB2 | 1:118:A:ALA:HB3 | 16 | 0.15 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB1 | 16 | 0.15 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB2 | 16 | 0.15 |
| (1,5795) | 1:115:A:SER:HB3 | 1:118:A:ALA:HB3 | 16 | 0.15 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 20 | 0.15 |
| (1,5771) | 1:73:A:TRP:HA | 1:113:A:CYS:HA | 3 | 0.15 |
| (1,5717) | 1:107:A:ALA:HA | 1:111:A:SER:H | 11 | 0.15 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 9 | 0.15 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 13 | 0.15 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 7 | 0.15 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 10 | 0.15 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 9 | 0.15 |
| (1,5649) | 1:104:A:GLU:HA | 1:104:A:GLU:HG2 | 10 | 0.15 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 4 | 0.15 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 3 | 0.15 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 3 | 0.15 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 10 | 0.15 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 10 | 0.15 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 19 | 0.15 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 19 | 0.15 |
| (1,5595) | 1:100:A:GLU:H | 1:101:A:GLU:H | 4 | 0.15 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 17 | 0.15 |
| (1,5564) | 1:97:A:LYS:HG3 | 1:98:A:SER:H | 2 | 0.15 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 12 | 0.15 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 12 | 0.15 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 12 | 0.15 |
| (1,5516) | 1:96:A:ILE:HA | 1:98:A:SER:H | 16 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 5 | 0.15 |
| (1,5501) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 11 | 0.15 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 17 | 0.15 |
| (1,5486) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 15 | 0.15 |
| (1,5484) | 1:94:A:GLN:H | 1:95:A:LYS:H | 10 | 0.15 |
| (1,5475) | 1:90:A:ASN:H | 1:93:A:ILE:HG13 | 13 | 0.15 |
| (1,5394) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 16 | 0.15 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 4 | 0.15 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 4 | 0.15 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 4 | 0.15 |
| (1,5339) | 1:62:A:VAL:HG21 | 1:88:A:LEU:HG | 9 | 0.15 |
| (1,5339) | 1:62:A:VAL:HG22 | 1:88:A:LEU:HG | 9 | 0.15 |
| (1,5339) | 1:62:A:VAL:HG23 | 1:88:A:LEU:HG | 9 | 0.15 |
| (1,5307) | 1:87:A:GLU:HA | 1:91:A:GLY:H | 2 | 0.15 |
| (1,5299) | 1:87:A:GLU:H | 1:87:A:GLU:HG3 | 18 | 0.15 |
| (1,5192) | 1:84:A:GLU:H | 1:87:A:GLU:H | 2 | 0.15 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 8 | 0.15 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 9 | 0.15 |
| (1,5163) | 1:82:A:LYS:HG2 | 1:83:A:GLU:H | 5 | 0.15 |
| (1,5099) | 1:79:A:THR:H | 1:80:A:ARG:H | 9 | 0.15 |
| (1,5002) | 1:73:A:TRP:H | 1:73:A:TRP:HE3 | 18 | 0.15 |
| (1,4990) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 19 | 0.15 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 5 | 0.15 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 5 | 0.15 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 5 | 0.15 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 9 | 0.15 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 9 | 0.15 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 9 | 0.15 |
| (1,4984) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 20 | 0.15 |
| (1,4937) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 13 | 0.15 |
| (1,4929) | 1:65:A:SER:H | 1:66:A:GLN:H | 11 | 0.15 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 6 | 0.15 |
| (1,4923) | 1:65:A:SER:H | 1:65:A:SER:HA | 18 | 0.15 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 3 | 0.15 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD11 | 16 | 0.15 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD12 | 16 | 0.15 |
| (1,4885) | 1:63:A:LYS:H | 1:78:A:ILE:HD13 | 16 | 0.15 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB1 | 8 | 0.15 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB2 | 8 | 0.15 |
| (1,4873) | 1:62:A:VAL:HG11 | 1:85:A:ALA:HB3 | 8 | 0.15 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB1 | 8 | 0.15 |
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB2 | 8 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4873) | 1:62:A:VAL:HG12 | 1:85:A:ALA:HB3 | 8 | 0.15 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB1 | 8 | 0.15 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB2 | 8 | 0.15 |
| (1,4873) | 1:62:A:VAL:HG13 | 1:85:A:ALA:HB3 | 8 | 0.15 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 5 | 0.15 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 5 | 0.15 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 5 | 0.15 |
| (1,4835) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD11 | 5 | 0.15 |
| (1,4835) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD12 | 5 | 0.15 |
| (1,4835) | 1:60:A:LEU:HD21 | 1:158:A:ILE:HD13 | 5 | 0.15 |
| (1,4835) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD11 | 5 | 0.15 |
| (1,4835) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD12 | 5 | 0.15 |
| (1,4835) | 1:60:A:LEU:HD22 | 1:158:A:ILE:HD13 | 5 | 0.15 |
| (1,4835) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD11 | 5 | 0.15 |
| (1,4835) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD12 | 5 | 0.15 |
| (1,4835) | 1:60:A:LEU:HD23 | 1:158:A:ILE:HD13 | 5 | 0.15 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 3 | 0.15 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 3 | 0.15 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 3 | 0.15 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB1 | 14 | 0.15 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB2 | 14 | 0.15 |
| (1,4818) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HB3 | 14 | 0.15 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB1 | 14 | 0.15 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB2 | 14 | 0.15 |
| (1,4818) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HB3 | 14 | 0.15 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB1 | 14 | 0.15 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB2 | 14 | 0.15 |
| (1,4818) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HB3 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 14 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD11 | 19 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD12 | 19 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HD13 | 19 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD11 | 19 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD12 | 19 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4812) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HD13 | 19 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD11 | 19 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD12 | 19 | 0.15 |
| (1,4812) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HD13 | 19 | 0.15 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 11 | 0.15 |
| (1,4795) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 16 | 0.15 |
| (1,4771) | 1:58:A:SER:H | 1:162:A:THR:H | 3 | 0.15 |
| (1,4759) | 1:57:A:CYS:HB2 | 1:138:A:SER:H | 17 | 0.15 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 13 | 0.15 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 20 | 0.15 |
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 9 | 0.15 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 11 | 0.15 |
| (1,4719) | 1:55:A:VAL:HG21 | 1:57:A:CYS:H | 14 | 0.15 |
| (1,4719) | 1:55:A:VAL:HG22 | 1:57:A:CYS:H | 14 | 0.15 |
| (1,4719) | 1:55:A:VAL:HG23 | 1:57:A:CYS:H | 14 | 0.15 |
| (1,4706) | 1:55:A:VAL:HB | 1:57:A:CYS:H | 20 | 0.15 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 8 | 0.15 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 20 | 0.15 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 15 | 0.15 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 19 | 0.15 |
| (1,4654) | 1:51:A:GLU:HA | 1:52:A:PRO:HD3 | 2 | 0.15 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 4 | 0.15 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 4 | 0.15 |
| (1,4617) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 1 | 0.15 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 4 | 0.15 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 4 | 0.15 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG12 | 16 | 0.15 |
| (1,4601) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 16 | 0.15 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 18 | 0.15 |
| (1,4561) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 18 | 0.15 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 3 | 0.15 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 3 | 0.15 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 10 | 0.15 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 10 | 0.15 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 13 | 0.15 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 13 | 0.15 |
| (1,4497) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 13 | 0.15 |
| (1,4497) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 13 | 0.15 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 16 | 0.15 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 16 | 0.15 |
| (1,4475) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 16 | 0.15 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 16 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 16 | 0.15 |
| (1,4475) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 16 | 0.15 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 20 | 0.15 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 20 | 0.15 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 8 | 0.15 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 8 | 0.15 |
| (1,4279) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 17 | 0.15 |
| (1,4279) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 17 | 0.15 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 1 | 0.15 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 1 | 0.15 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 13 | 0.15 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 13 | 0.15 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 6 | 0.15 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 6 | 0.15 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 17 | 0.15 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 17 | 0.15 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 17 | 0.15 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 17 | 0.15 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 20 | 0.15 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 20 | 0.15 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 14 | 0.15 |
| (1,3941) | 1:74:A:ARG:HA | 1:74:A:ARG:HG3 | 14 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 3 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 3 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 8 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 8 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 10 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 10 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 12 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 12 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 13 | 0.15 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 13 | 0.15 |
| (1,3911) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 10 | 0.15 |
| (1,3911) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 10 | 0.15 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 7 | 0.15 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 7 | 0.15 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 5 | 0.15 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 5 | 0.15 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD11 | 5 | 0.15 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD12 | 5 | 0.15 |
| (1,3789) | 1:59:A:HIS:HB2 | 1:122:A:LEU:HD13 | 5 | 0.15 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD11 | 5 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD12 | 5 | 0.15 |
| (1,3789) | 1:59:A:HIS:HB3 | 1:122:A:LEU:HD13 | 5 | 0.15 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 10 | 0.15 |
| (1,3653) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 10 | 0.15 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 4 | 0.15 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 4 | 0.15 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 9 | 0.15 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 9 | 0.15 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 2 | 0.15 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 2 | 0.15 |
| (1,3579) | 1:20:A:GLY:HA2 | 1:21:A:ARG:H | 11 | 0.15 |
| (1,3579) | 1:20:A:GLY:HA3 | 1:21:A:ARG:H | 11 | 0.15 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 14 | 0.15 |
| (1,3501) | 1:4:A:GLU:H | 1:4:A:GLU:HB3 | 14 | 0.15 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD21 | 16 | 0.15 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD22 | 16 | 0.15 |
| (1,3481) | 1:29:A:THR:HB | 1:141:A:LEU:HD23 | 16 | 0.15 |
| (1,3417) | 1:21:A:ARG:HB2 | 1:21:A:ARG:HD3 | 8 | 0.15 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 10 | 0.15 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 10 | 0.15 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 10 | 0.15 |
| (1,3303) | 1:117:A:LYS:H | 1:117:A:LYS:HB2 | 19 | 0.15 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 1 | 0.15 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 9 | 0.15 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 14 | 0.15 |
| (1,3275) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 15 | 0.15 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 3 | 0.15 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 12 | 0.15 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 15 | 0.15 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 15 | 0.15 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 18 | 0.15 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 18 | 0.15 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 3 | 0.15 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 3 | 0.15 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 3 | 0.15 |
| (1,3135) | 1:49:A:GLN:HA | 1:49:A:GLN:HB2 | 19 | 0.15 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 15 | 0.15 |
| (1,3047) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 9 | 0.15 |
| (1,3047) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 9 | 0.15 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 9 | 0.15 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 17 | 0.15 |
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB2 | 8 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3003) | 1:35:A:GLU:H | 1:35:A:GLU:HB3 | 8 | 0.15 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 12 | 0.15 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 17 | 0.15 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 17 | 0.15 |
| (1,2949) | 1:33:A:GLN:H | 1:33:A:GLN:HB3 | 3 | 0.15 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 2 | 0.15 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 2 | 0.15 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 2 | 0.15 |
| (1,2929) | 1:30:A:ASN:H | 1:30:A:ASN:HB3 | 8 | 0.15 |
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 16 | 0.15 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 18 | 0.15 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 9 | 0.15 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 9 | 0.15 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 9 | 0.15 |
| (1,2883) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 1 | 0.15 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 5 | 0.15 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 5 | 0.15 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 5 | 0.15 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 7 | 0.15 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 12 | 0.15 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 19 | 0.15 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 5 | 0.15 |
| (1,2823) | 1:26:A:ASN:HB3 | 1:27:A:HIS:H | 19 | 0.15 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 3 | 0.15 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 8 | 0.15 |
| (1,2801) | 1:26:A:ASN:H | 1:26:A:ASN:HB3 | 7 | 0.15 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 2 | 0.15 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 4 | 0.15 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 11 | 0.15 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 19 | 0.15 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 2 | 0.15 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 8 | 0.15 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 9 | 0.15 |
| (1,2629) | 1:15:A:MET:HE1 | 1:20:A:GLY:H | 10 | 0.15 |
| (1,2629) | 1:15:A:MET:HE2 | 1:20:A:GLY:H | 10 | 0.15 |
| (1,2629) | 1:15:A:MET:HE3 | 1:20:A:GLY:H | 10 | 0.15 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 10 | 0.15 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 5 | 0.15 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 5 | 0.15 |
| (1,2587) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 5 | 0.15 |
| (1,2575) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 20 | 0.15 |
| (1,2569) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD3 | 6 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 8 | 0.15 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 12 | 0.15 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 12 | 0.15 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE2 | 10 | 0.15 |
| (1,2525) | 1:13:A:LYS:HG2 | 1:13:A:LYS:HE3 | 10 | 0.15 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE2 | 10 | 0.15 |
| (1,2525) | 1:13:A:LYS:HG3 | 1:13:A:LYS:HE3 | 10 | 0.15 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 19 | 0.15 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 19 | 0.15 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 12 | 0.15 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 20 | 0.15 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 3 | 0.15 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 3 | 0.15 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 3 | 0.15 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 9 | 0.15 |
| (1,2459) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 5 | 0.15 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 19 | 0.15 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 10 | 0.15 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 19 | 0.15 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD21 | 13 | 0.15 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD22 | 13 | 0.15 |
| (1,2369) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD23 | 13 | 0.15 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 5 | 0.15 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 5 | 0.15 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 5 | 0.15 |
| (1,2307) | 1:5:A:GLU:H | 1:5:A:GLU:HA | 11 | 0.15 |
| (1,2257) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 3 | 0.15 |
| (1,2215) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 8 | 0.15 |
| (1,2215) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 8 | 0.15 |
| (1,2215) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 8 | 0.15 |
| (1,2213) | 1:162:A:THR:HA | 1:162:A:THR:HB | 1 | 0.15 |
| (1,2213) | 1:162:A:THR:HA | 1:162:A:THR:HB | 14 | 0.15 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 9 | 0.15 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 3 | 0.15 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 3 | 0.15 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 3 | 0.15 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 17 | 0.15 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 17 | 0.15 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 17 | 0.15 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 10 | 0.15 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 10 | 0.15 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 10 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2127) | 1:147:A:SER:H | 1:159:A:ILE:HB | 14 | 0.15 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 4 | 0.15 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 4 | 0.15 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 4 | 0.15 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 14 | 0.15 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 14 | 0.15 |
| (1,2047) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 14 | 0.15 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 3 | 0.15 |
| (1,2011) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 3 | 0.15 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD1 | 5 | 0.15 |
| (1,1993) | 1:151:A:PHE:H | 1:151:A:PHE:HD2 | 5 | 0.15 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD11 | 18 | 0.15 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD12 | 18 | 0.15 |
| (1,1967) | 1:150:A:VAL:HB | 1:159:A:ILE:HD13 | 18 | 0.15 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 11 | 0.15 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 11 | 0.15 |
| (1,1871) | 1:146:A:MET:HA | 1:161:A:ARG:H | 16 | 0.15 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 3 | 0.15 |
| (1,1847) | 1:145:A:GLU:HB3 | 1:146:A:MET:H | 15 | 0.15 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 9 | 0.15 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 19 | 0.15 |
| (1,1821) | 1:144:A:GLY:H | 1:145:A:GLU:H | 11 | 0.15 |
| (1,1811) | 1:143:A:THR:HG21 | 1:144:A:GLY:H | 4 | 0.15 |
| (1,1811) | 1:143:A:THR:HG22 | 1:144:A:GLY:H | 4 | 0.15 |
| (1,1811) | 1:143:A:THR:HG23 | 1:144:A:GLY:H | 4 | 0.15 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 3 | 0.15 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 1 | 0.15 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 1 | 0.15 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 1 | 0.15 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 10 | 0.15 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 10 | 0.15 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 10 | 0.15 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB1 | 5 | 0.15 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB2 | 5 | 0.15 |
| (1,1711) | 1:139:A:PHE:H | 1:140:A:ALA:HB3 | 5 | 0.15 |
| (1,1695) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 18 | 0.15 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 13 | 0.15 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG21 | 1 | 0.15 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG22 | 1 | 0.15 |
| (1,1665) | 1:137:A:ALA:HA | 1:159:A:ILE:HG23 | 1 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 11 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 11 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 11 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 13 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 13 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 13 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 18 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 18 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 18 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 20 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 20 | 0.15 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 20 | 0.15 |
| (1,1639) | 1:136:A:ASP:H | 1:137:A:ALA:H | 2 | 0.15 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 20 | 0.15 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 17 | 0.15 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 12 | 0.15 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 19 | 0.15 |
| (1,1587) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 1 | 0.15 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 2 | 0.15 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 2 | 0.15 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 9 | 0.15 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 11 | 0.15 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 13 | 0.15 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 18 | 0.15 |
| (1,1539) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 10 | 0.15 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 8 | 0.15 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 8 | 0.15 |
| (1,1505) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 16 | 0.15 |
| (1,1497) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 16 | 0.15 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 16 | 0.15 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 16 | 0.15 |
| (1,1457) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 16 | 0.15 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 7 | 0.15 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 16 | 0.15 |
| (1,1431) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 17 | 0.15 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 2 | 0.15 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 2 | 0.15 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 15 | 0.15 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 15 | 0.15 |
| (1,1411) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 10 | 0.15 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 6 | 0.15 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 3 | 0.15 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 20 | 0.15 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 16 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 4 | 0.15 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 5 | 0.15 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 15 | 0.15 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB1 | 3 | 0.15 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB2 | 3 | 0.15 |
| (1,1321) | 1:55:A:VAL:H | 1:124:A:ALA:HB3 | 3 | 0.15 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 8 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 13 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 13 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 13 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 13 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 13 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 13 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 13 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 13 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 13 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE1 | 20 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE2 | 20 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD21 | 1:130:A:MET:HE3 | 20 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE1 | 20 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE2 | 20 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD22 | 1:130:A:MET:HE3 | 20 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE1 | 20 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE2 | 20 | 0.15 |
| (1,1299) | 1:122:A:LEU:HD23 | 1:130:A:MET:HE3 | 20 | 0.15 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD11 | 19 | 0.15 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD12 | 19 | 0.15 |
| (1,1273) | 1:122:A:LEU:HA | 1:122:A:LEU:HD13 | 19 | 0.15 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 6 | 0.15 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 6 | 0.15 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 7 | 0.15 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 4 | 0.15 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 6 | 0.15 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 6 | 0.15 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 6 | 0.15 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 14 | 0.15 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 14 | 0.15 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 14 | 0.15 |
| (1,1195) | 1:116:A:ALA:H | 1:117:A:LYS:HD3 | 15 | 0.15 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 3 | 0.15 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 3 | 0.15 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 3 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1169) | 1:116:A:ALA:HA | 1:120:A:GLY:H | 11 | 0.15 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 20 | 0.15 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 1 | 0.15 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 6 | 0.15 |
| (1,1085) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 14 | 0.15 |
| (1,1041) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 18 | 0.15 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 19 | 0.15 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 7 | 0.15 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 12 | 0.15 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 12 | 0.15 |
| (1,1001) | 1:107:A:ALA:HA | 1:111:A:SER:H | 11 | 0.15 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 13 | 0.15 |
| (1,965) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 11 | 0.15 |
| (1,963) | 1:106:A:LEU:H | 1:106:A:LEU:HB2 | 12 | 0.15 |
| (1,953) | 1:106:A:LEU:HA | 1:107:A:ALA:H | 4 | 0.15 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 18 | 0.15 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 18 | 0.15 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 18 | 0.15 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 9 | 0.15 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 13 | 0.15 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 1 | 0.15 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 18 | 0.15 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 1 | 0.15 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB1 | 9 | 0.15 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB2 | 9 | 0.15 |
| (1,891) | 1:104:A:GLU:HA | 1:107:A:ALA:HB3 | 9 | 0.15 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 2 | 0.15 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 13 | 0.15 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 13 | 0.15 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 13 | 0.15 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 13 | 0.15 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 13 | 0.15 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 13 | 0.15 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 11 | 0.15 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 11 | 0.15 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 11 | 0.15 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 8 | 0.15 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 19 | 0.15 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 4 | 0.15 |
| (1,775) | 1:100:A:GLU:H | 1:101:A:GLU:H | 4 | 0.15 |
| (1,749) | 1:98:A:SER:HA | 1:99:A:GLY:H | 3 | 0.15 |
| (1,677) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 6 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,677) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 6 | 0.15 |
| (1,677) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 6 | 0.15 |
| (1,677) | 1:96:A:ILE:HB | 1:96:A:ILE:HD11 | 16 | 0.15 |
| (1,677) | 1:96:A:ILE:HB | 1:96:A:ILE:HD12 | 16 | 0.15 |
| (1,677) | 1:96:A:ILE:HB | 1:96:A:ILE:HD13 | 16 | 0.15 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 5 | 0.15 |
| (1,651) | 1:96:A:ILE:H | 1:96:A:ILE:HB | 11 | 0.15 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 17 | 0.15 |
| (1,623) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 3 | 0.15 |
| (1,621) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 15 | 0.15 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 14 | 0.15 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 8 | 0.15 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 8 | 0.15 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 8 | 0.15 |
| (1,555) | 1:90:A:ASN:HA | 1:93:A:ILE:HB | 2 | 0.15 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 5 | 0.15 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 9 | 0.15 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 9 | 0.15 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 9 | 0.15 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD11 | 12 | 0.15 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD12 | 12 | 0.15 |
| (1,506) | 1:92:A:TYR:HB3 | 1:96:A:ILE:HD13 | 12 | 0.15 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 1 | 0.15 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 7 | 0.15 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 13 | 0.15 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB2 | 16 | 0.15 |
| (1,485) | 1:90:A:ASN:H | 1:90:A:ASN:HB3 | 16 | 0.15 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 7 | 0.15 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 7 | 0.15 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 7 | 0.15 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 7 | 0.15 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 7 | 0.15 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 7 | 0.15 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 7 | 0.15 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 7 | 0.15 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 7 | 0.15 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 7 | 0.15 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 7 | 0.15 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 7 | 0.15 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 9 | 0.15 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 9 | 0.15 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 9 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG21 | 16 | 0.15 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG22 | 16 | 0.15 |
| (1,461) | 1:89:A:ILE:HA | 1:89:A:ILE:HG23 | 16 | 0.15 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB2 | 18 | 0.15 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 18 | 0.15 |
| (1,430) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 10 | 0.15 |
| (1,430) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 10 | 0.15 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 1 | 0.15 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD11 | 16 | 0.15 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD12 | 16 | 0.15 |
| (1,397) | 1:86:A:LEU:HA | 1:86:A:LEU:HD13 | 16 | 0.15 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB1 | 18 | 0.15 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB2 | 18 | 0.15 |
| (1,387) | 1:82:A:LYS:HA | 1:85:A:ALA:HB3 | 18 | 0.15 |
| (1,383) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HA | 17 | 0.15 |
| (1,383) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HA | 17 | 0.15 |
| (1,383) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HA | 17 | 0.15 |
| (1,381) | 1:85:A:ALA:H | 1:86:A:LEU:H | 13 | 0.15 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 9 | 0.15 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 9 | 0.15 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 9 | 0.15 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 18 | 0.15 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG21 | 11 | 0.15 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG22 | 11 | 0.15 |
| (1,305) | 1:80:A:ARG:HA | 1:81:A:THR:HG23 | 11 | 0.15 |
| (1,303) | 1:80:A:ARG:H | 1:80:A:ARG:HA | 16 | 0.15 |
| (1,300) | 1:79:A:THR:H | 1:80:A:ARG:H | 9 | 0.15 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 3 | 0.15 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 3 | 0.15 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 3 | 0.15 |
| (1,287) | 1:78:A:ILE:HG21 | 1:79:A:THR:H | 8 | 0.15 |
| (1,287) | 1:78:A:ILE:HG22 | 1:79:A:THR:H | 8 | 0.15 |
| (1,287) | 1:78:A:ILE:HG23 | 1:79:A:THR:H | 8 | 0.15 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 17 | 0.15 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 17 | 0.15 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 17 | 0.15 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 17 | 0.15 |
| (1,244) | 1:75:A:GLN:HB2 | 1:75:A:GLN:HE21 | 17 | 0.15 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 2 | 0.15 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 17 | 0.15 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 15 | 0.15 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 20 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,212) | 1:73:A:TRP:H | 1:73:A:TRP:HA | 19 | 0.15 |
| (1,207) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 9 | 0.15 |
| (1,180) | 1:66:A:GLN:HB2 | 1:67:A:SER:H | 10 | 0.15 |
| (1,173) | 1:65:A:SER:H | 1:66:A:GLN:H | 11 | 0.15 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 20 | 0.15 |
| (1,172) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 20 | 0.15 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 6 | 0.15 |
| (1,171) | 1:65:A:SER:H | 1:65:A:SER:HA | 18 | 0.15 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 4 | 0.15 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 3 | 0.15 |
| (1,156) | 1:63:A:LYS:HG2 | 1:64:A:HIS:H | 16 | 0.15 |
| (1,156) | 1:63:A:LYS:HG3 | 1:64:A:HIS:H | 16 | 0.15 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD11 | 17 | 0.15 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD12 | 17 | 0.15 |
| (1,141) | 1:62:A:VAL:H | 1:89:A:ILE:HD13 | 17 | 0.15 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 18 | 0.15 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 18 | 0.15 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 18 | 0.15 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 18 | 0.15 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 18 | 0.15 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 18 | 0.15 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 20 | 0.15 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 20 | 0.15 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 20 | 0.15 |
| (1,121) | 1:60:A:LEU:HD21 | 1:107:A:ALA:H | 6 | 0.15 |
| (1,121) | 1:60:A:LEU:HD22 | 1:107:A:ALA:H | 6 | 0.15 |
| (1,121) | 1:60:A:LEU:HD23 | 1:107:A:ALA:H | 6 | 0.15 |
| (1,119) | 1:60:A:LEU:HD21 | 1:61:A:LEU:H | 1 | 0.15 |
| (1,119) | 1:60:A:LEU:HD22 | 1:61:A:LEU:H | 1 | 0.15 |
| (1,119) | 1:60:A:LEU:HD23 | 1:61:A:LEU:H | 1 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 2 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 2 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 2 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 2 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 2 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 2 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD11 | 17 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD12 | 17 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD13 | 17 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD21 | 17 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD22 | 17 | 0.15 |
| (1,110) | 1:60:A:LEU:HA | 1:60:A:LEU:HD23 | 17 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,108) | 1:60:A:LEU:H | 1:158:A:ILE:HB | 16 | 0.15 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 4 | 0.15 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 4 | 0.15 |
| (1,94) | 1:58:A:SER:H | 1:162:A:THR:H | 3 | 0.15 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 13 | 0.15 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 20 | 0.15 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB1 | 12 | 0.15 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB2 | 12 | 0.15 |
| (1,83) | 1:57:A:CYS:H | 1:124:A:ALA:HB3 | 12 | 0.15 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 15 | 0.15 |
| (1,72) | 1:56:A:ARG:HB3 | 1:57:A:CYS:H | 2 | 0.15 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG11 | 3 | 0.15 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG12 | 3 | 0.15 |
| (1,58) | 1:53:A:ALA:H | 1:55:A:VAL:HG13 | 3 | 0.15 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 8 | 0.15 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 20 | 0.15 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 15 | 0.15 |
| (1,28) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 18 | 0.15 |
| (1,28) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 18 | 0.15 |
| (1,28) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 18 | 0.15 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 19 | 0.15 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 19 | 0.15 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 19 | 0.15 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 19 | 0.15 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 19 | 0.15 |
| (4,225) | 1:15:A:MET:CB | 1:77:A:LYS:H | 11 | 0.14 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG12 | 5 | 0.14 |
| (3,1045) | 1:152:A:THR:H | 1:156:A:ILE:HG13 | 5 | 0.14 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 20 | 0.14 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 20 | 0.14 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 20 | 0.14 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 20 | 0.14 |
| (3,924) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 16 | 0.14 |
| (3,924) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 16 | 0.14 |
| (3,775) | 1:13:A:LYS:HG2 | 1:25:A:PHE:H | 2 | 0.14 |
| (3,775) | 1:13:A:LYS:HG3 | 1:25:A:PHE:H | 2 | 0.14 |
| (3,756) | 1:30:A:ASN:HD22 | 1:149:A:PRO:HA | 5 | 0.14 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG21 | 16 | 0.14 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG22 | 16 | 0.14 |
| (3,732) | 1:151:A:PHE:H | 1:156:A:ILE:HG23 | 16 | 0.14 |
| (3,414) | 1:62:A:VAL:HB | 1:64:A:HIS:H | 16 | 0.14 |
| (3,402) | 1:61:A:LEU:HG | 1:157:A:HIS:HA | 11 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,329) | 1:54:A:ARG:HD2 | 1:55:A:VAL:HA | 4 | 0.14 |
| (3,329) | 1:54:A:ARG:HD3 | 1:55:A:VAL:HA | 4 | 0.14 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG21 | 5 | 0.14 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG22 | 5 | 0.14 |
| (3,228) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG23 | 5 | 0.14 |
| (3,219) | 1:12:A:GLU:H | 1:24:A:TYR:HA | 4 | 0.14 |
| (3,205) | 1:8:A:PRO:HD2 | 1:11:A:TRP:HB2 | 14 | 0.14 |
| (3,205) | 1:8:A:PRO:HD3 | 1:11:A:TRP:HB2 | 14 | 0.14 |
| (3,135) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 12 | 0.14 |
| (3,135) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 12 | 0.14 |
| (3,76) | 1:130:A:MET:HE1 | 1:131:A:GLN:H | 19 | 0.14 |
| (3,76) | 1:130:A:MET:HE2 | 1:131:A:GLN:H | 19 | 0.14 |
| (3,76) | 1:130:A:MET:HE3 | 1:131:A:GLN:H | 19 | 0.14 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD11 | 20 | 0.14 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD12 | 20 | 0.14 |
| (3,54) | 1:102:A:ASP:H | 1:106:A:LEU:HD13 | 20 | 0.14 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD21 | 8 | 0.14 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD22 | 8 | 0.14 |
| (3,7) | 1:57:A:CYS:H | 1:122:A:LEU:HD23 | 8 | 0.14 |
| (3,3) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 3 | 0.14 |
| (3,3) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 3 | 0.14 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 13 | 0.14 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 13 | 0.14 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 16 | 0.14 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 16 | 0.14 |
| (1,9511) | 1:138:A:SER:HB2 | 1:139:A:PHE:H | 11 | 0.14 |
| (1,9511) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 11 | 0.14 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 18 | 0.14 |
| (1,9509) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 18 | 0.14 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB2 | 5 | 0.14 |
| (1,9467) | 1:131:A:GLN:HE21 | 1:154:A:SER:HB3 | 5 | 0.14 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB2 | 5 | 0.14 |
| (1,9467) | 1:131:A:GLN:HE22 | 1:154:A:SER:HB3 | 5 | 0.14 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 5 | 0.14 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 5 | 0.14 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG2 | 19 | 0.14 |
| (1,9446) | 1:129:A:GLN:HE21 | 1:130:A:MET:HG3 | 19 | 0.14 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG2 | 19 | 0.14 |
| (1,9446) | 1:129:A:GLN:HE22 | 1:130:A:MET:HG3 | 19 | 0.14 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 8 | 0.14 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 8 | 0.14 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 19 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 19 | 0.14 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE21 | 12 | 0.14 |
| (1,9422) | 1:127:A:ARG:HD2 | 1:129:A:GLN:HE22 | 12 | 0.14 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 3 | 0.14 |
| (1,9405) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 3 | 0.14 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 3 | 0.14 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 3 | 0.14 |
| (1,9319) | 1:106:A:LEU:HB2 | 1:107:A:ALA:H | 1 | 0.14 |
| (1,9319) | 1:106:A:LEU:HB3 | 1:107:A:ALA:H | 1 | 0.14 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD2 | 20 | 0.14 |
| (1,9172) | 1:93:A:ILE:HD11 | 1:149:A:PRO:HD3 | 20 | 0.14 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD2 | 20 | 0.14 |
| (1,9172) | 1:93:A:ILE:HD12 | 1:149:A:PRO:HD3 | 20 | 0.14 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD2 | 20 | 0.14 |
| (1,9172) | 1:93:A:ILE:HD13 | 1:149:A:PRO:HD3 | 20 | 0.14 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD2 | 14 | 0.14 |
| (1,9161) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HD3 | 14 | 0.14 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD2 | 14 | 0.14 |
| (1,9161) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HD3 | 14 | 0.14 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD2 | 14 | 0.14 |
| (1,9161) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HD3 | 14 | 0.14 |
| (1,9074) | 1:83:A:GLU:HG2 | 1:86:A:LEU:H | 9 | 0.14 |
| (1,9074) | 1:83:A:GLU:HG3 | 1:86:A:LEU:H | 9 | 0.14 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 4 | 0.14 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 4 | 0.14 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 4 | 0.14 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 4 | 0.14 |
| (1,9063) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HA | 12 | 0.14 |
| (1,9063) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HA | 12 | 0.14 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG2 | 8 | 0.14 |
| (1,9037) | 1:80:A:ARG:HD2 | 1:87:A:GLU:HG3 | 8 | 0.14 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG2 | 8 | 0.14 |
| (1,9037) | 1:80:A:ARG:HD3 | 1:87:A:GLU:HG3 | 8 | 0.14 |
| (1,8982) | 1:75:A:GLN:HG2 | 1:77:A:LYS:H | 8 | 0.14 |
| (1,8982) | 1:75:A:GLN:HG3 | 1:77:A:LYS:H | 8 | 0.14 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 4 | 0.14 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 4 | 0.14 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 4 | 0.14 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 4 | 0.14 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 13 | 0.14 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 13 | 0.14 |
| (1,8868) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 1 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8868) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 1 | 0.14 |
| (1,8855) | 1:61:A:LEU:H | 1:61:A:LEU:HB2 | 5 | 0.14 |
| (1,8855) | 1:61:A:LEU:H | 1:61:A:LEU:HB3 | 5 | 0.14 |
| (1,8839) | 1:60:A:LEU:HB2 | 1:158:A:ILE:HB | 2 | 0.14 |
| (1,8839) | 1:60:A:LEU:HB3 | 1:158:A:ILE:HB | 2 | 0.14 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB2 | 7 | 0.14 |
| (1,8796) | 1:56:A:ARG:HD2 | 1:163:A:GLU:HB3 | 7 | 0.14 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB2 | 7 | 0.14 |
| (1,8796) | 1:56:A:ARG:HD3 | 1:163:A:GLU:HB3 | 7 | 0.14 |
| (1,8773) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 18 | 0.14 |
| (1,8773) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 18 | 0.14 |
| (1,8753) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 11 | 0.14 |
| (1,8753) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 11 | 0.14 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 7 | 0.14 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 7 | 0.14 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 11 | 0.14 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 11 | 0.14 |
| (1,8748) | 1:54:A:ARG:HG2 | 1:125:A:PHE:H | 19 | 0.14 |
| (1,8748) | 1:54:A:ARG:HG3 | 1:125:A:PHE:H | 19 | 0.14 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 15 | 0.14 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 15 | 0.14 |
| (1,8727) | 1:49:A:GLN:HB2 | 1:50:A:GLY:H | 18 | 0.14 |
| (1,8727) | 1:49:A:GLN:HB3 | 1:50:A:GLY:H | 18 | 0.14 |
| (1,8707) | 1:47:A:ASN:H | 1:47:A:ASN:HB2 | 3 | 0.14 |
| (1,8707) | 1:47:A:ASN:H | 1:47:A:ASN:HB3 | 3 | 0.14 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB2 | 12 | 0.14 |
| (1,8689) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 12 | 0.14 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 4 | 0.14 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 4 | 0.14 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 13 | 0.14 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 13 | 0.14 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 5 | 0.14 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 5 | 0.14 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB2 | 15 | 0.14 |
| (1,8667) | 1:40:A:ASN:H | 1:40:A:ASN:HB3 | 15 | 0.14 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 4 | 0.14 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 4 | 0.14 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 13 | 0.14 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 13 | 0.14 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 9 | 0.14 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 9 | 0.14 |
| (1,8539) | 1:4:A:GLU:HB2 | 1:6:A:LYS:H | 11 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8539) | 1:4:A:GLU:HB3 | 1:6:A:LYS:H | 11 | 0.14 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 13 | 0.14 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 13 | 0.14 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 13 | 0.14 |
| (1,8198) | 1:105:A:SER:H | 1:108:A:SER:H | 3 | 0.14 |
| (1,8163) | 1:97:A:LYS:HE2 | 1:146:A:MET:H | 14 | 0.14 |
| (1,8163) | 1:97:A:LYS:HE3 | 1:146:A:MET:H | 14 | 0.14 |
| (1,8126) | 1:95:A:LYS:H | 1:96:A:ILE:H | 11 | 0.14 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 4 | 0.14 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 12 | 0.14 |
| (1,8068) | 1:90:A:ASN:HA | 1:94:A:GLN:H | 14 | 0.14 |
| (1,8013) | 1:83:A:GLU:HA | 1:86:A:LEU:HB2 | 1 | 0.14 |
| (1,7950) | 1:73:A:TRP:HH2 | 1:109:A:GLN:HE22 | 12 | 0.14 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 18 | 0.14 |
| (1,7401) | 1:5:A:GLU:H | 1:7:A:LEU:H | 13 | 0.14 |
| (1,7356) | 1:95:A:LYS:H | 1:95:A:LYS:HG3 | 14 | 0.14 |
| (1,7271) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 18 | 0.14 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 13 | 0.14 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 13 | 0.14 |
| (1,7250) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 13 | 0.14 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 13 | 0.14 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 13 | 0.14 |
| (1,7250) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 13 | 0.14 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 13 | 0.14 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 13 | 0.14 |
| (1,7250) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 13 | 0.14 |
| (1,7247) | 1:36:A:ARG:HG2 | 1:37:A:PRO:HD2 | 19 | 0.14 |
| (1,7237) | 1:10:A:GLY:HA3 | 1:28:A:ILE:HB | 13 | 0.14 |
| (1,7233) | 1:24:A:TYR:HB2 | 1:25:A:PHE:H | 12 | 0.14 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 9 | 0.14 |
| (1,7212) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 3 | 0.14 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 4 | 0.14 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 12 | 0.14 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 12 | 0.14 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 16 | 0.14 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 3 | 0.14 |
| (1,7117) | 1:86:A:LEU:HA | 1:89:A:ILE:HB | 2 | 0.14 |
| (1,7089) | 1:62:A:VAL:HG21 | 1:89:A:ILE:H | 5 | 0.14 |
| (1,7089) | 1:62:A:VAL:HG22 | 1:89:A:ILE:H | 5 | 0.14 |
| (1,7089) | 1:62:A:VAL:HG23 | 1:89:A:ILE:H | 5 | 0.14 |
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 15 | 0.14 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 15 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 15 | 0.14 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 12 | 0.14 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 12 | 0.14 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 16 | 0.14 |
| (1,7025) | 1:7:A:LEU:HD21 | 1:37:A:PRO:HD2 | 3 | 0.14 |
| (1,7025) | 1:7:A:LEU:HD22 | 1:37:A:PRO:HD2 | 3 | 0.14 |
| (1,7025) | 1:7:A:LEU:HD23 | 1:37:A:PRO:HD2 | 3 | 0.14 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 19 | 0.14 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 4 | 0.14 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 9 | 0.14 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 9 | 0.14 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 9 | 0.14 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 18 | 0.14 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG21 | 4 | 0.14 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG22 | 4 | 0.14 |
| (1,6893) | 1:29:A:THR:H | 1:29:A:THR:HG23 | 4 | 0.14 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 20 | 0.14 |
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 13 | 0.14 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 3 | 0.14 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 3 | 0.14 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 3 | 0.14 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 8 | 0.14 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 8 | 0.14 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 8 | 0.14 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG21 | 14 | 0.14 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG22 | 14 | 0.14 |
| (1,6845) | 1:26:A:ASN:HD21 | 1:29:A:THR:HG23 | 14 | 0.14 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 6 | 0.14 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 16 | 0.14 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 17 | 0.14 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 18 | 0.14 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 20 | 0.14 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 14 | 0.14 |
| (1,6825) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 19 | 0.14 |
| (1,6817) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 2 | 0.14 |
| (1,6803) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 12 | 0.14 |
| (1,6720) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 18 | 0.14 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 3 | 0.14 |
| (1,6718) | 1:20:A:GLY:H | 1:21:A:ARG:H | 10 | 0.14 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 9 | 0.14 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 18 | 0.14 |
| (1,6709) | 1:17:A:ARG:HA | 1:21:A:ARG:H | 9 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 5 | 0.14 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 19 | 0.14 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 19 | 0.14 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 19 | 0.14 |
| (1,6640) | 1:13:A:LYS:HA | 1:25:A:PHE:H | 9 | 0.14 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 17 | 0.14 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 7 | 0.14 |
| (1,6626) | 1:6:A:LYS:H | 1:12:A:GLU:HG3 | 19 | 0.14 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 1 | 0.14 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 8 | 0.14 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 17 | 0.14 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 8 | 0.14 |
| (1,6614) | 1:11:A:TRP:HH2 | 1:30:A:ASN:HA | 13 | 0.14 |
| (1,6602) | 1:11:A:TRP:HZ3 | 1:26:A:ASN:H | 3 | 0.14 |
| (1,6584) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 4 | 0.14 |
| (1,6580) | 1:11:A:TRP:HB3 | 1:12:A:GLU:H | 13 | 0.14 |
| (1,6568) | 1:11:A:TRP:HA | 1:26:A:ASN:HA | 9 | 0.14 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 5 | 0.14 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD11 | 6 | 0.14 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD12 | 6 | 0.14 |
| (1,6554) | 1:10:A:GLY:H | 1:28:A:ILE:HD13 | 6 | 0.14 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 1 | 0.14 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 9 | 0.14 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG2 | 2 | 0.14 |
| (1,6536) | 1:7:A:LEU:HD21 | 1:13:A:LYS:HG3 | 2 | 0.14 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG2 | 2 | 0.14 |
| (1,6536) | 1:7:A:LEU:HD22 | 1:13:A:LYS:HG3 | 2 | 0.14 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG2 | 2 | 0.14 |
| (1,6536) | 1:7:A:LEU:HD23 | 1:13:A:LYS:HG3 | 2 | 0.14 |
| (1,6528) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 9 | 0.14 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 2 | 0.14 |
| (1,6504) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 18 | 0.14 |
| (1,6496) | 1:6:A:LYS:HA | 1:7:A:LEU:H | 12 | 0.14 |
| (1,6488) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 16 | 0.14 |
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 16 | 0.14 |
| (1,6469) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 17 | 0.14 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 11 | 0.14 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 7 | 0.14 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD11 | 9 | 0.14 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD12 | 9 | 0.14 |
| (1,6372) | 1:86:A:LEU:HB3 | 1:156:A:ILE:HD13 | 9 | 0.14 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG21 | 10 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG22 | 10 | 0.14 |
| (1,6364) | 1:150:A:VAL:H | 1:156:A:ILE:HG23 | 10 | 0.14 |
| (1,6350) | 1:152:A:THR:H | 1:155:A:GLY:H | 11 | 0.14 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD11 | 6 | 0.14 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD12 | 6 | 0.14 |
| (1,6325) | 1:151:A:PHE:HZ | 1:156:A:ILE:HD13 | 6 | 0.14 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 6 | 0.14 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 6 | 0.14 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 6 | 0.14 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 6 | 0.14 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 6 | 0.14 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 6 | 0.14 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 6 | 0.14 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 6 | 0.14 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 6 | 0.14 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 10 | 0.14 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 10 | 0.14 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 10 | 0.14 |
| (1,6246) | 1:146:A:MET:HG3 | 1:147:A:SER:H | 18 | 0.14 |
| (1,6162) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 6 | 0.14 |
| (1,6162) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 6 | 0.14 |
| (1,6162) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 6 | 0.14 |
| (1,6105) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 12 | 0.14 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG21 | 16 | 0.14 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG22 | 16 | 0.14 |
| (1,6099) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG23 | 16 | 0.14 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG21 | 16 | 0.14 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG22 | 16 | 0.14 |
| (1,6099) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG23 | 16 | 0.14 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG21 | 16 | 0.14 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG22 | 16 | 0.14 |
| (1,6099) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG23 | 16 | 0.14 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 4 | 0.14 |
| (1,6077) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 19 | 0.14 |
| (1,6077) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 19 | 0.14 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 9 | 0.14 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 9 | 0.14 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 8 | 0.14 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 8 | 0.14 |
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 8 | 0.14 |
| (1,6059) | 1:122:A:LEU:HD11 | 1:134:A:PHE:HZ | 18 | 0.14 |
| (1,6059) | 1:122:A:LEU:HD12 | 1:134:A:PHE:HZ | 18 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6059) | 1:122:A:LEU:HD13 | 1:134:A:PHE:HZ | 18 | 0.14 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 18 | 0.14 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 18 | 0.14 |
| (1,6053) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 18 | 0.14 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 15 | 0.14 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 15 | 0.14 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 15 | 0.14 |
| (1,6010) | 1:131:A:GLN:HB2 | 1:153:A:ASP:H | 7 | 0.14 |
| (1,6000) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 8 | 0.14 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 6 | 0.14 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 17 | 0.14 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 8 | 0.14 |
| (1,5908) | 1:54:A:ARG:HD2 | 1:125:A:PHE:H | 11 | 0.14 |
| (1,5908) | 1:54:A:ARG:HD3 | 1:125:A:PHE:H | 11 | 0.14 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 19 | 0.14 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 19 | 0.14 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 12 | 0.14 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 6 | 0.14 |
| (1,5783) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 1 | 0.14 |
| (1,5783) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 1 | 0.14 |
| (1,5757) | 1:110:A:PHE:H | 1:111:A:SER:H | 5 | 0.14 |
| (1,5745) | 1:109:A:GLN:H | 1:110:A:PHE:H | 17 | 0.14 |
| (1,5736) | 1:108:A:SER:H | 1:109:A:GLN:H | 1 | 0.14 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 6 | 0.14 |
| (1,5715) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 16 | 0.14 |
| (1,5657) | 1:104:A:GLU:HA | 1:119:A:ARG:HB3 | 4 | 0.14 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 1 | 0.14 |
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 9 | 0.14 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG2 | 11 | 0.14 |
| (1,5597) | 1:100:A:GLU:HA | 1:100:A:GLU:HG3 | 11 | 0.14 |
| (1,5595) | 1:100:A:GLU:H | 1:101:A:GLU:H | 1 | 0.14 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 1 | 0.14 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 1 | 0.14 |
| (1,5554) | 1:97:A:LYS:H | 1:98:A:SER:H | 19 | 0.14 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 1 | 0.14 |
| (1,5486) | 1:95:A:LYS:H | 1:95:A:LYS:HB2 | 11 | 0.14 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 11 | 0.14 |
| (1,5453) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 7 | 0.14 |
| (1,5453) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 7 | 0.14 |
| (1,5453) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 7 | 0.14 |
| (1,5415) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 10 | 0.14 |
| (1,5396) | 1:90:A:ASN:H | 1:91:A:GLY:H | 3 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 11 | 0.14 |
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 11 | 0.14 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 11 | 0.14 |
| (1,5360) | 1:89:A:ILE:HA | 1:89:A:ILE:HD11 | 19 | 0.14 |
| (1,5360) | 1:89:A:ILE:HA | 1:89:A:ILE:HD12 | 19 | 0.14 |
| (1,5360) | 1:89:A:ILE:HA | 1:89:A:ILE:HD13 | 19 | 0.14 |
| (1,5317) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 2 | 0.14 |
| (1,5273) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HB2 | 4 | 0.14 |
| (1,5273) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HB2 | 4 | 0.14 |
| (1,5273) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HB2 | 4 | 0.14 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 19 | 0.14 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD11 | 20 | 0.14 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD12 | 20 | 0.14 |
| (1,5231) | 1:86:A:LEU:H | 1:156:A:ILE:HD13 | 20 | 0.14 |
| (1,5176) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 18 | 0.14 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG21 | 17 | 0.14 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG22 | 17 | 0.14 |
| (1,5139) | 1:81:A:THR:HA | 1:81:A:THR:HG23 | 17 | 0.14 |
| (1,5087) | 1:71:A:SER:H | 1:78:A:ILE:HG13 | 2 | 0.14 |
| (1,5080) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 6 | 0.14 |
| (1,5080) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 6 | 0.14 |
| (1,5080) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 6 | 0.14 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 1 | 0.14 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 15 | 0.14 |
| (1,5035) | 1:74:A:ARG:H | 1:76:A:GLU:H | 19 | 0.14 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB1 | 17 | 0.14 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB2 | 17 | 0.14 |
| (1,5016) | 1:73:A:TRP:HZ2 | 1:116:A:ALA:HB3 | 17 | 0.14 |
| (1,5004) | 1:73:A:TRP:HB2 | 1:73:A:TRP:HE3 | 8 | 0.14 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 8 | 0.14 |
| (1,4984) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 6 | 0.14 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD2 | 19 | 0.14 |
| (1,4971) | 1:68:A:ARG:HG3 | 1:69:A:ARG:HD3 | 19 | 0.14 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 7 | 0.14 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 1 | 0.14 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG21 | 12 | 0.14 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG22 | 12 | 0.14 |
| (1,4891) | 1:63:A:LYS:HA | 1:78:A:ILE:HG23 | 12 | 0.14 |
| (1,4858) | 1:61:A:LEU:HD21 | 1:113:A:CYS:HB3 | 9 | 0.14 |
| (1,4858) | 1:61:A:LEU:HD22 | 1:113:A:CYS:HB3 | 9 | 0.14 |
| (1,4858) | 1:61:A:LEU:HD23 | 1:113:A:CYS:HB3 | 9 | 0.14 |
| (1,4844) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 12 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4844) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 12 | 0.14 |
| (1,4844) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 12 | 0.14 |
| (1,4837) | 1:61:A:LEU:H | 1:61:A:LEU:HG | 13 | 0.14 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 3 | 0.14 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 3 | 0.14 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 3 | 0.14 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG21 | 8 | 0.14 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG22 | 8 | 0.14 |
| (1,4807) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG23 | 8 | 0.14 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG21 | 8 | 0.14 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG22 | 8 | 0.14 |
| (1,4807) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG23 | 8 | 0.14 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG21 | 8 | 0.14 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG22 | 8 | 0.14 |
| (1,4807) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG23 | 8 | 0.14 |
| (1,4805) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 2 | 0.14 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 3 | 0.14 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 11 | 0.14 |
| (1,4757) | 1:57:A:CYS:HA | 1:162:A:THR:H | 12 | 0.14 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 2 | 0.14 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 5 | 0.14 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 7 | 0.14 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 11 | 0.14 |
| (1,4743) | 1:56:A:ARG:HG2 | 1:57:A:CYS:H | 11 | 0.14 |
| (1,4698) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 3 | 0.14 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 16 | 0.14 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 16 | 0.14 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 16 | 0.14 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 16 | 0.14 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 16 | 0.14 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 16 | 0.14 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 11 | 0.14 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 6 | 0.14 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD2 | 2 | 0.14 |
| (1,4658) | 1:50:A:GLY:H | 1:52:A:PRO:HD3 | 2 | 0.14 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 7 | 0.14 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 7 | 0.14 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 12 | 0.14 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 12 | 0.14 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB2 | 19 | 0.14 |
| (1,4628) | 1:51:A:GLU:H | 1:51:A:GLU:HB3 | 19 | 0.14 |
| (1,4617) | 1:49:A:GLN:HA | 1:50:A:GLY:H | 14 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 4 | 0.14 |
| (1,4607) | 1:161:A:ARG:H | 1:161:A:ARG:HB3 | 4 | 0.14 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 11 | 0.14 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 11 | 0.14 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 19 | 0.14 |
| (1,4485) | 1:134:A:PHE:HA | 1:134:A:PHE:HB3 | 19 | 0.14 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 6 | 0.14 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 6 | 0.14 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 6 | 0.14 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 6 | 0.14 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 17 | 0.14 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 17 | 0.14 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 17 | 0.14 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 17 | 0.14 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 16 | 0.14 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 16 | 0.14 |
| (1,4437) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 16 | 0.14 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE1 | 16 | 0.14 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE2 | 16 | 0.14 |
| (1,4437) | 1:129:A:GLN:HE22 | 1:130:A:MET:HE3 | 16 | 0.14 |
| (1,4421) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 4 | 0.14 |
| (1,4421) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 4 | 0.14 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 6 | 0.14 |
| (1,4415) | 1:129:A:GLN:H | 1:129:A:GLN:HB3 | 6 | 0.14 |
| (1,4343) | 1:109:A:GLN:HB2 | 1:109:A:GLN:HE21 | 11 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 7 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 7 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 11 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 11 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 13 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 13 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 14 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 14 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 18 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 18 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 20 | 0.14 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 20 | 0.14 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 13 | 0.14 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 13 | 0.14 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 13 | 0.14 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 13 | 0.14 |
| (1,4055) | 1:84:A:GLU:HA | 1:84:A:GLU:HG3 | 13 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 12 | 0.14 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 12 | 0.14 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 6 | 0.14 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 7 | 0.14 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 7 | 0.14 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 17 | 0.14 |
| (1,3889) | 1:69:A:ARG:H | 1:69:A:ARG:HB3 | 17 | 0.14 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 6 | 0.14 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 6 | 0.14 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 5 | 0.14 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 5 | 0.14 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 3 | 0.14 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 3 | 0.14 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 3 | 0.14 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 3 | 0.14 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 3 | 0.14 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 3 | 0.14 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 15 | 0.14 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 15 | 0.14 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 15 | 0.14 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 15 | 0.14 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 15 | 0.14 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 15 | 0.14 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 20 | 0.14 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 20 | 0.14 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 20 | 0.14 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 20 | 0.14 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 20 | 0.14 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 20 | 0.14 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 19 | 0.14 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 19 | 0.14 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 9 | 0.14 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 9 | 0.14 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 18 | 0.14 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 18 | 0.14 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 10 | 0.14 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 10 | 0.14 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 13 | 0.14 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 13 | 0.14 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 18 | 0.14 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 18 | 0.14 |
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG2 | 19 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3485) | 1:1:A:MET:HA | 1:1:A:MET:HG3 | 19 | 0.14 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 7 | 0.14 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB2 | 3 | 0.14 |
| (1,3335) | 1:130:A:MET:HB3 | 1:135:A:GLU:HB3 | 3 | 0.14 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 20 | 0.14 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 9 | 0.14 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 10 | 0.14 |
| (1,3253) | 1:95:A:LYS:HA | 1:95:A:LYS:HB3 | 13 | 0.14 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA2 | 20 | 0.14 |
| (1,3229) | 1:91:A:GLY:H | 1:91:A:GLY:HA3 | 20 | 0.14 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE2 | 17 | 0.14 |
| (1,3195) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HE3 | 17 | 0.14 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 19 | 0.14 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 19 | 0.14 |
| (1,3107) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 20 | 0.14 |
| (1,3103) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 18 | 0.14 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 7 | 0.14 |
| (1,3045) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD2 | 16 | 0.14 |
| (1,3045) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD2 | 16 | 0.14 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 19 | 0.14 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 3 | 0.14 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 3 | 0.14 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 4 | 0.14 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 13 | 0.14 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 13 | 0.14 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 13 | 0.14 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 11 | 0.14 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 11 | 0.14 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 11 | 0.14 |
| (1,2921) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 11 | 0.14 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 18 | 0.14 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 16 | 0.14 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 16 | 0.14 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 16 | 0.14 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 7 | 0.14 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 7 | 0.14 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 7 | 0.14 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG21 | 15 | 0.14 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG22 | 15 | 0.14 |
| (1,2861) | 1:28:A:ILE:HA | 1:28:A:ILE:HG23 | 15 | 0.14 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 13 | 0.14 |
| (1,2825) | 1:26:A:ASN:HB3 | 1:31:A:ALA:H | 6 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 8 | 0.14 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 8 | 0.14 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 8 | 0.14 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 6 | 0.14 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 16 | 0.14 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 17 | 0.14 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 18 | 0.14 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 20 | 0.14 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 14 | 0.14 |
| (1,2809) | 1:26:A:ASN:HA | 1:26:A:ASN:HB2 | 19 | 0.14 |
| (1,2799) | 1:26:A:ASN:H | 1:26:A:ASN:HB2 | 2 | 0.14 |
| (1,2781) | 1:25:A:PHE:HA | 1:32:A:SER:HA | 12 | 0.14 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 14 | 0.14 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 14 | 0.14 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE1 | 19 | 0.14 |
| (1,2723) | 1:16:A:SER:H | 1:23:A:TYR:HE2 | 19 | 0.14 |
| (1,2657) | 1:21:A:ARG:HA | 1:21:A:ARG:HB2 | 6 | 0.14 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 3 | 0.14 |
| (1,2635) | 1:20:A:GLY:H | 1:21:A:ARG:H | 10 | 0.14 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD2 | 1 | 0.14 |
| (1,2625) | 1:17:A:ARG:HG2 | 1:17:A:ARG:HD3 | 1 | 0.14 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 16 | 0.14 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 10 | 0.14 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 17 | 0.14 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 17 | 0.14 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 19 | 0.14 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 19 | 0.14 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 17 | 0.14 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 1 | 0.14 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 8 | 0.14 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 14 | 0.14 |
| (1,2483) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 8 | 0.14 |
| (1,2481) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 1 | 0.14 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 17 | 0.14 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 5 | 0.14 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 1 | 0.14 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 9 | 0.14 |
| (1,2401) | 1:10:A:GLY:H | 1:10:A:GLY:HA2 | 20 | 0.14 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 13 | 0.14 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 13 | 0.14 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 13 | 0.14 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 12 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 16 | 0.14 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 7 | 0.14 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 12 | 0.14 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 16 | 0.14 |
| (1,2285) | 1:3:A:ASP:HA | 1:4:A:GLU:H | 16 | 0.14 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 3 | 0.14 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 12 | 0.14 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 1 | 0.14 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 16 | 0.14 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 2 | 0.14 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 2 | 0.14 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 2 | 0.14 |
| (1,2223) | 1:162:A:THR:HG21 | 1:163:A:GLU:H | 16 | 0.14 |
| (1,2223) | 1:162:A:THR:HG22 | 1:163:A:GLU:H | 16 | 0.14 |
| (1,2223) | 1:162:A:THR:HG23 | 1:163:A:GLU:H | 16 | 0.14 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 20 | 0.14 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 20 | 0.14 |
| (1,2221) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 20 | 0.14 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 20 | 0.14 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 20 | 0.14 |
| (1,2221) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 20 | 0.14 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 20 | 0.14 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 20 | 0.14 |
| (1,2221) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 20 | 0.14 |
| (1,2217) | 1:162:A:THR:HA | 1:163:A:GLU:H | 11 | 0.14 |
| (1,2213) | 1:162:A:THR:HA | 1:162:A:THR:HB | 4 | 0.14 |
| (1,2213) | 1:162:A:THR:HA | 1:162:A:THR:HB | 5 | 0.14 |
| (1,2213) | 1:162:A:THR:HA | 1:162:A:THR:HB | 11 | 0.14 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 2 | 0.14 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 2 | 0.14 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 2 | 0.14 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 11 | 0.14 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 10 | 0.14 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 10 | 0.14 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 10 | 0.14 |
| (1,2145) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG13 | 14 | 0.14 |
| (1,2145) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG13 | 14 | 0.14 |
| (1,2145) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG13 | 14 | 0.14 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 20 | 0.14 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 20 | 0.14 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 20 | 0.14 |
| (1,2125) | 1:159:A:ILE:H | 1:159:A:ILE:HG13 | 12 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 7 | 0.14 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 11 | 0.14 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 7 | 0.14 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 7 | 0.14 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 7 | 0.14 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 8 | 0.14 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 8 | 0.14 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 8 | 0.14 |
| (1,2017) | 1:154:A:SER:H | 1:155:A:GLY:H | 14 | 0.14 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 6 | 0.14 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 6 | 0.14 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 6 | 0.14 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 12 | 0.14 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 12 | 0.14 |
| (1,1947) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 12 | 0.14 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 8 | 0.14 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 8 | 0.14 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 8 | 0.14 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE1 | 20 | 0.14 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE2 | 20 | 0.14 |
| (1,1897) | 1:146:A:MET:HG3 | 1:146:A:MET:HE3 | 20 | 0.14 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE1 | 17 | 0.14 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE2 | 17 | 0.14 |
| (1,1861) | 1:146:A:MET:H | 1:146:A:MET:HE3 | 17 | 0.14 |
| (1,1857) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 15 | 0.14 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 7 | 0.14 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 1 | 0.14 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 11 | 0.14 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 15 | 0.14 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 17 | 0.14 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 1 | 0.14 |
| (1,1827) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 6 | 0.14 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 7 | 0.14 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 7 | 0.14 |
| (1,1765) | 1:141:A:LEU:HD11 | 1:147:A:SER:H | 15 | 0.14 |
| (1,1765) | 1:141:A:LEU:HD12 | 1:147:A:SER:H | 15 | 0.14 |
| (1,1765) | 1:141:A:LEU:HD13 | 1:147:A:SER:H | 15 | 0.14 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 11 | 0.14 |
| (1,1759) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 11 | 0.14 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 20 | 0.14 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 20 | 0.14 |
| (1,1687) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 20 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB1 | 11 | 0.14 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB2 | 11 | 0.14 |
| (1,1663) | 1:137:A:ALA:HA | 1:140:A:ALA:HB3 | 11 | 0.14 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 14 | 0.14 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 14 | 0.14 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 14 | 0.14 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 4 | 0.14 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 4 | 0.14 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 16 | 0.14 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 16 | 0.14 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 6 | 0.14 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 2 | 0.14 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 6 | 0.14 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 11 | 0.14 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG21 | 13 | 0.14 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG22 | 13 | 0.14 |
| (1,1579) | 1:133:A:PRO:HG2 | 1:152:A:THR:HG23 | 13 | 0.14 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG21 | 13 | 0.14 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG22 | 13 | 0.14 |
| (1,1579) | 1:133:A:PRO:HG3 | 1:152:A:THR:HG23 | 13 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 5 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 5 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 8 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 8 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 11 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 11 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 12 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 12 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 13 | 0.14 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 13 | 0.14 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 6 | 0.14 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 6 | 0.14 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 6 | 0.14 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 6 | 0.14 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 17 | 0.14 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 17 | 0.14 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 17 | 0.14 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 17 | 0.14 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 2 | 0.14 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 5 | 0.14 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 8 | 0.14 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 15 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 15 | 0.14 |
| (1,1547) | 1:132:A:LYS:HA | 1:132:A:LYS:HD3 | 18 | 0.14 |
| (1,1545) | 1:132:A:LYS:HA | 1:132:A:LYS:HG3 | 20 | 0.14 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 12 | 0.14 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 12 | 0.14 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 15 | 0.14 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 2 | 0.14 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 2 | 0.14 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 10 | 0.14 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 10 | 0.14 |
| (1,1497) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 8 | 0.14 |
| (1,1451) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 15 | 0.14 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 1 | 0.14 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 11 | 0.14 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 11 | 0.14 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 11 | 0.14 |
| (1,1411) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 6 | 0.14 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 10 | 0.14 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 2 | 0.14 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 8 | 0.14 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 10 | 0.14 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 10 | 0.14 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 10 | 0.14 |
| (1,1309) | 1:123:A:GLY:HA3 | 1:124:A:ALA:H | 2 | 0.14 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 7 | 0.14 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 1 | 0.14 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 1 | 0.14 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 1 | 0.14 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 19 | 0.14 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB2 | 11 | 0.14 |
| (1,1265) | 1:118:A:ALA:HB1 | 1:121:A:ASP:HB3 | 11 | 0.14 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB2 | 11 | 0.14 |
| (1,1265) | 1:118:A:ALA:HB2 | 1:121:A:ASP:HB3 | 11 | 0.14 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB2 | 11 | 0.14 |
| (1,1265) | 1:118:A:ALA:HB3 | 1:121:A:ASP:HB3 | 11 | 0.14 |
| (1,1255) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 10 | 0.14 |
| (1,1255) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 10 | 0.14 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 1 | 0.14 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 10 | 0.14 |
| (1,1237) | 1:119:A:ARG:H | 1:119:A:ARG:HB3 | 19 | 0.14 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG2 | 17 | 0.14 |
| (1,1233) | 1:119:A:ARG:HB2 | 1:119:A:ARG:HG3 | 17 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1231) | 1:119:A:ARG:HA | 1:119:A:ARG:HB2 | 15 | 0.14 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 19 | 0.14 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 3 | 0.14 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 3 | 0.14 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 3 | 0.14 |
| (1,1205) | 1:118:A:ALA:HB1 | 1:120:A:GLY:H | 8 | 0.14 |
| (1,1205) | 1:118:A:ALA:HB2 | 1:120:A:GLY:H | 8 | 0.14 |
| (1,1205) | 1:118:A:ALA:HB3 | 1:120:A:GLY:H | 8 | 0.14 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 17 | 0.14 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 2 | 0.14 |
| (1,1185) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 15 | 0.14 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 5 | 0.14 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 5 | 0.14 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 5 | 0.14 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 12 | 0.14 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 12 | 0.14 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 12 | 0.14 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 12 | 0.14 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 1 | 0.14 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 1 | 0.14 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 1 | 0.14 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 14 | 0.14 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 14 | 0.14 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 14 | 0.14 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 6 | 0.14 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 3 | 0.14 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 3 | 0.14 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 20 | 0.14 |
| (1,1089) | 1:110:A:PHE:H | 1:111:A:SER:H | 5 | 0.14 |
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 3 | 0.14 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 1 | 0.14 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 13 | 0.14 |
| (1,1047) | 1:109:A:GLN:H | 1:110:A:PHE:H | 17 | 0.14 |
| (1,1021) | 1:108:A:SER:H | 1:109:A:GLN:H | 1 | 0.14 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 14 | 0.14 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 6 | 0.14 |
| (1,999) | 1:107:A:ALA:HA | 1:110:A:PHE:H | 16 | 0.14 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 4 | 0.14 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 5 | 0.14 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 12 | 0.14 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 16 | 0.14 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 20 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 6 | 0.14 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD21 | 4 | 0.14 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD22 | 4 | 0.14 |
| (1,951) | 1:106:A:LEU:HA | 1:106:A:LEU:HD23 | 4 | 0.14 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 19 | 0.14 |
| (1,935) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 4 | 0.14 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 12 | 0.14 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 1 | 0.14 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD21 | 3 | 0.14 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD22 | 3 | 0.14 |
| (1,869) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD23 | 3 | 0.14 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD21 | 3 | 0.14 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD22 | 3 | 0.14 |
| (1,869) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD23 | 3 | 0.14 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD21 | 10 | 0.14 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD22 | 10 | 0.14 |
| (1,841) | 1:103:A:PHE:H | 1:160:A:LEU:HD23 | 10 | 0.14 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 9 | 0.14 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 7 | 0.14 |
| (1,775) | 1:100:A:GLU:H | 1:101:A:GLU:H | 1 | 0.14 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 1 | 0.14 |
| (1,719) | 1:97:A:LYS:H | 1:99:A:GLY:H | 9 | 0.14 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 1 | 0.14 |
| (1,717) | 1:97:A:LYS:H | 1:98:A:SER:H | 19 | 0.14 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE1 | 15 | 0.14 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE2 | 15 | 0.14 |
| (1,697) | 1:96:A:ILE:HG21 | 1:146:A:MET:HE3 | 15 | 0.14 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE1 | 15 | 0.14 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE2 | 15 | 0.14 |
| (1,697) | 1:96:A:ILE:HG22 | 1:146:A:MET:HE3 | 15 | 0.14 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE1 | 15 | 0.14 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE2 | 15 | 0.14 |
| (1,697) | 1:96:A:ILE:HG23 | 1:146:A:MET:HE3 | 15 | 0.14 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 4 | 0.14 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 4 | 0.14 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 4 | 0.14 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 14 | 0.14 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 14 | 0.14 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 14 | 0.14 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 9 | 0.14 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 9 | 0.14 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 9 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 17 | 0.14 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 17 | 0.14 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 17 | 0.14 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD11 | 5 | 0.14 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD12 | 5 | 0.14 |
| (1,655) | 1:96:A:ILE:H | 1:96:A:ILE:HD13 | 5 | 0.14 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 1 | 0.14 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 11 | 0.14 |
| (1,565) | 1:93:A:ILE:HG21 | 1:94:A:GLN:HA | 2 | 0.14 |
| (1,565) | 1:93:A:ILE:HG22 | 1:94:A:GLN:HA | 2 | 0.14 |
| (1,565) | 1:93:A:ILE:HG23 | 1:94:A:GLN:HA | 2 | 0.14 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 11 | 0.14 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 8 | 0.14 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 8 | 0.14 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 8 | 0.14 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 1 | 0.14 |
| (1,549) | 1:93:A:ILE:HA | 1:96:A:ILE:H | 19 | 0.14 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG21 | 8 | 0.14 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG22 | 8 | 0.14 |
| (1,541) | 1:93:A:ILE:HA | 1:93:A:ILE:HG23 | 8 | 0.14 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 6 | 0.14 |
| (1,505) | 1:92:A:TYR:HB3 | 1:93:A:ILE:H | 8 | 0.14 |
| (1,493) | 1:90:A:ASN:HB3 | 1:91:A:GLY:H | 6 | 0.14 |
| (1,486) | 1:90:A:ASN:H | 1:91:A:GLY:H | 3 | 0.14 |
| (1,449) | 1:85:A:ALA:HA | 1:88:A:LEU:HG | 15 | 0.14 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 1 | 0.14 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB2 | 2 | 0.14 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 2 | 0.14 |
| (1,426) | 1:87:A:GLU:HA | 1:88:A:LEU:H | 8 | 0.14 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 2 | 0.14 |
| (1,424) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 2 | 0.14 |
| (1,409) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HG | 14 | 0.14 |
| (1,409) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HG | 14 | 0.14 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 19 | 0.14 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD11 | 5 | 0.14 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD12 | 5 | 0.14 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD13 | 5 | 0.14 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD21 | 5 | 0.14 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD22 | 5 | 0.14 |
| (1,406) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HD23 | 5 | 0.14 |
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 3 | 0.14 |
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 3 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 1 | 0.14 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 1 | 0.14 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 1 | 0.14 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 1 | 0.14 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 1 | 0.14 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 1 | 0.14 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 3 | 0.14 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 3 | 0.14 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 3 | 0.14 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 14 | 0.14 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 14 | 0.14 |
| (1,355) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HD2 | 18 | 0.14 |
| (1,355) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HD3 | 18 | 0.14 |
| (1,355) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HD2 | 18 | 0.14 |
| (1,355) | 1:82:A:LYS:HB3 | 1:82:A:LYS:HD3 | 18 | 0.14 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 1 | 0.14 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 11 | 0.14 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 13 | 0.14 |
| (1,325) | 1:81:A:THR:H | 1:81:A:THR:HA | 17 | 0.14 |
| (1,277) | 1:78:A:ILE:HA | 1:78:A:ILE:HG12 | 5 | 0.14 |
| (1,277) | 1:78:A:ILE:HA | 1:78:A:ILE:HG13 | 5 | 0.14 |
| (1,275) | 1:78:A:ILE:HA | 1:78:A:ILE:HB | 18 | 0.14 |
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 8 | 0.14 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 12 | 0.14 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 13 | 0.14 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 3 | 0.14 |
| (1,227) | 1:74:A:ARG:H | 1:74:A:ARG:HA | 4 | 0.14 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 12 | 0.14 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 12 | 0.14 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 5 | 0.14 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 5 | 0.14 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 5 | 0.14 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 5 | 0.14 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 2 | 0.14 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 1 | 0.14 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 3 | 0.14 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 3 | 0.14 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 3 | 0.14 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA2 | 8 | 0.14 |
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA2 | 8 | 0.14 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA2 | 8 | 0.14 |
| (1,132) | 1:61:A:LEU:HD11 | 1:155:A:GLY:HA3 | 8 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,132) | 1:61:A:LEU:HD12 | 1:155:A:GLY:HA3 | 8 | 0.14 |
| (1,132) | 1:61:A:LEU:HD13 | 1:155:A:GLY:HA3 | 8 | 0.14 |
| (1,126) | 1:61:A:LEU:HA | 1:62:A:VAL:H | 6 | 0.14 |
| (1,113) | 1:60:A:LEU:HG | 1:107:A:ALA:HA | 2 | 0.14 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD11 | 8 | 0.14 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD12 | 8 | 0.14 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD13 | 8 | 0.14 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD21 | 8 | 0.14 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD22 | 8 | 0.14 |
| (1,106) | 1:59:A:HIS:HD2 | 1:122:A:LEU:HD23 | 8 | 0.14 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 3 | 0.14 |
| (1,86) | 1:57:A:CYS:HA | 1:162:A:THR:H | 12 | 0.14 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 2 | 0.14 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 5 | 0.14 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 7 | 0.14 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 11 | 0.14 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 8 | 0.14 |
| (1,56) | 1:55:A:VAL:HB | 1:163:A:GLU:H | 2 | 0.14 |
| (1,50) | 1:55:A:VAL:HA | 1:55:A:VAL:HB | 3 | 0.14 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 11 | 0.14 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 11 | 0.14 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 11 | 0.14 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 11 | 0.14 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 6 | 0.14 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 18 | 0.14 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 18 | 0.14 |
| (4,170) | 1:98:A:SER:CB | 1:38:A:SER:H | 9 | 0.13 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 4 | 0.13 |
| (4,14) | 1:15:A:MET:CB | 1:62:A:VAL:H | 1 | 0.13 |
| (3,924) | 1:90:A:ASN:HA | 1:149:A:PRO:HD2 | 9 | 0.13 |
| (3,924) | 1:90:A:ASN:HA | 1:149:A:PRO:HD3 | 9 | 0.13 |
| (3,915) | 1:89:A:ILE:HA | 1:158:A:ILE:HG12 | 13 | 0.13 |
| (3,915) | 1:89:A:ILE:HA | 1:158:A:ILE:HG13 | 13 | 0.13 |
| (3,883) | 1:77:A:LYS:HB2 | 1:78:A:ILE:HG13 | 10 | 0.13 |
| (3,883) | 1:77:A:LYS:HB3 | 1:78:A:ILE:HG13 | 10 | 0.13 |
| (3,867) | 1:72:A:SER:H | 1:77:A:LYS:HG2 | 17 | 0.13 |
| (3,867) | 1:72:A:SER:H | 1:77:A:LYS:HG3 | 17 | 0.13 |
| (3,853) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD2 | 19 | 0.13 |
| (3,853) | 1:66:A:GLN:HE21 | 1:82:A:LYS:HD3 | 19 | 0.13 |
| (3,853) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD2 | 19 | 0.13 |
| (3,853) | 1:66:A:GLN:HE22 | 1:82:A:LYS:HD3 | 19 | 0.13 |
| (3,788) | 1:21:A:ARG:HG2 | 1:23:A:TYR:H | 16 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,788) | 1:21:A:ARG:HG3 | 1:23:A:TYR:H | 16 | 0.13 |
| (3,631) | 1:130:A:MET:HE1 | 1:135:A:GLU:H | 11 | 0.13 |
| (3,631) | 1:130:A:MET:HE2 | 1:135:A:GLU:H | 11 | 0.13 |
| (3,631) | 1:130:A:MET:HE3 | 1:135:A:GLU:H | 11 | 0.13 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 9 | 0.13 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 9 | 0.13 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 9 | 0.13 |
| (3,473) | 1:80:A:ARG:HA | 1:85:A:ALA:HA | 20 | 0.13 |
| (3,449) | 1:71:A:SER:H | 1:78:A:ILE:H | 8 | 0.13 |
| (3,365) | 1:58:A:SER:HA | 1:121:A:ASP:H | 19 | 0.13 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE1 | 19 | 0.13 |
| (3,353) | 1:55:A:VAL:HG21 | 1:125:A:PHE:HE2 | 19 | 0.13 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE1 | 19 | 0.13 |
| (3,353) | 1:55:A:VAL:HG22 | 1:125:A:PHE:HE2 | 19 | 0.13 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE1 | 19 | 0.13 |
| (3,353) | 1:55:A:VAL:HG23 | 1:125:A:PHE:HE2 | 19 | 0.13 |
| (3,342) | 1:55:A:VAL:HB | 1:139:A:PHE:HA | 20 | 0.13 |
| (3,303) | 1:29:A:THR:HG21 | 1:30:A:ASN:HD21 | 4 | 0.13 |
| (3,303) | 1:29:A:THR:HG22 | 1:30:A:ASN:HD21 | 4 | 0.13 |
| (3,303) | 1:29:A:THR:HG23 | 1:30:A:ASN:HD21 | 4 | 0.13 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 8 | 0.13 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD11 | 9 | 0.13 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD12 | 9 | 0.13 |
| (3,216) | 1:11:A:TRP:H | 1:28:A:ILE:HD13 | 9 | 0.13 |
| (3,203) | 1:8:A:PRO:HG3 | 1:38:A:SER:HA | 3 | 0.13 |
| (3,143) | 1:12:A:GLU:HG3 | 1:14:A:ARG:HG2 | 16 | 0.13 |
| (3,136) | 1:101:A:GLU:HG2 | 1:105:A:SER:H | 2 | 0.13 |
| (3,136) | 1:101:A:GLU:HG3 | 1:105:A:SER:H | 2 | 0.13 |
| (3,95) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 12 | 0.13 |
| (3,95) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 12 | 0.13 |
| (3,95) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 12 | 0.13 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE1 | 5 | 0.13 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE2 | 5 | 0.13 |
| (3,37) | 1:93:A:ILE:H | 1:146:A:MET:HE3 | 5 | 0.13 |
| (3,3) | 1:50:A:GLY:HA2 | 1:52:A:PRO:HB3 | 2 | 0.13 |
| (3,3) | 1:50:A:GLY:HA3 | 1:52:A:PRO:HB3 | 2 | 0.13 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG2 | 10 | 0.13 |
| (1,9623) | 1:161:A:ARG:H | 1:161:A:ARG:HG3 | 10 | 0.13 |
| (1,9619) | 1:160:A:LEU:HB2 | 1:161:A:ARG:H | 17 | 0.13 |
| (1,9619) | 1:160:A:LEU:HB3 | 1:161:A:ARG:H | 17 | 0.13 |
| (1,9612) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG2 | 10 | 0.13 |
| (1,9612) | 1:159:A:ILE:HG21 | 1:161:A:ARG:HG3 | 10 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9612) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG2 | 10 | 0.13 |
| (1,9612) | 1:159:A:ILE:HG22 | 1:161:A:ARG:HG3 | 10 | 0.13 |
| (1,9612) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG2 | 10 | 0.13 |
| (1,9612) | 1:159:A:ILE:HG23 | 1:161:A:ARG:HG3 | 10 | 0.13 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 3 | 0.13 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 3 | 0.13 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 19 | 0.13 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 19 | 0.13 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 13 | 0.13 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 13 | 0.13 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG2 | 17 | 0.13 |
| (1,9444) | 1:129:A:GLN:HG2 | 1:130:A:MET:HG3 | 17 | 0.13 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG2 | 17 | 0.13 |
| (1,9444) | 1:129:A:GLN:HG3 | 1:130:A:MET:HG3 | 17 | 0.13 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD2 | 4 | 0.13 |
| (1,9306) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HD3 | 4 | 0.13 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD2 | 4 | 0.13 |
| (1,9306) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HD3 | 4 | 0.13 |
| (1,9293) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 16 | 0.13 |
| (1,9293) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 16 | 0.13 |
| (1,9242) | 1:98:A:SER:H | 1:100:A:GLU:HB2 | 10 | 0.13 |
| (1,9242) | 1:98:A:SER:H | 1:100:A:GLU:HB3 | 10 | 0.13 |
| (1,9213) | 1:95:A:LYS:HD2 | 1:101:A:GLU:H | 12 | 0.13 |
| (1,9213) | 1:95:A:LYS:HD3 | 1:101:A:GLU:H | 12 | 0.13 |
| (1,9111) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 15 | 0.13 |
| (1,9111) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 15 | 0.13 |
| (1,9111) | 1:87:A:GLU:HB2 | 1:88:A:LEU:H | 19 | 0.13 |
| (1,9111) | 1:87:A:GLU:HB3 | 1:88:A:LEU:H | 19 | 0.13 |
| (1,9083) | 1:84:A:GLU:HB2 | 1:85:A:ALA:H | 11 | 0.13 |
| (1,9083) | 1:84:A:GLU:HB3 | 1:85:A:ALA:H | 11 | 0.13 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG2 | 18 | 0.13 |
| (1,9065) | 1:83:A:GLU:HB2 | 1:84:A:GLU:HG3 | 18 | 0.13 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG2 | 18 | 0.13 |
| (1,9065) | 1:83:A:GLU:HB3 | 1:84:A:GLU:HG3 | 18 | 0.13 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 20 | 0.13 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 20 | 0.13 |
| (1,8987) | 1:75:A:GLN:HE21 | 1:78:A:ILE:HA | 18 | 0.13 |
| (1,8987) | 1:75:A:GLN:HE22 | 1:78:A:ILE:HA | 18 | 0.13 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE21 | 5 | 0.13 |
| (1,8957) | 1:73:A:TRP:HZ2 | 1:109:A:GLN:HE22 | 5 | 0.13 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB2 | 14 | 0.13 |
| (1,8883) | 1:64:A:HIS:H | 1:67:A:SER:HB3 | 14 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 14 | 0.13 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 14 | 0.13 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 14 | 0.13 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 14 | 0.13 |
| (1,8868) | 1:63:A:LYS:HB2 | 1:64:A:HIS:H | 14 | 0.13 |
| (1,8868) | 1:63:A:LYS:HB3 | 1:64:A:HIS:H | 14 | 0.13 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 2 | 0.13 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 2 | 0.13 |
| (1,8685) | 1:44:A:GLY:HA2 | 1:47:A:ASN:H | 11 | 0.13 |
| (1,8685) | 1:44:A:GLY:HA3 | 1:47:A:ASN:H | 11 | 0.13 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 3 | 0.13 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 3 | 0.13 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 19 | 0.13 |
| (1,8654) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 19 | 0.13 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 5 | 0.13 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 5 | 0.13 |
| (1,8605) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 5 | 0.13 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 5 | 0.13 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 5 | 0.13 |
| (1,8605) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 5 | 0.13 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 15 | 0.13 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 15 | 0.13 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD21 | 9 | 0.13 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD22 | 9 | 0.13 |
| (1,8579) | 1:6:A:LYS:HE2 | 1:7:A:LEU:HD23 | 9 | 0.13 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD21 | 9 | 0.13 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD22 | 9 | 0.13 |
| (1,8579) | 1:6:A:LYS:HE3 | 1:7:A:LEU:HD23 | 9 | 0.13 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 18 | 0.13 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 18 | 0.13 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE1 | 19 | 0.13 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE2 | 19 | 0.13 |
| (1,8519) | 1:1:A:MET:HB2 | 1:1:A:MET:HE3 | 19 | 0.13 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE1 | 19 | 0.13 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE2 | 19 | 0.13 |
| (1,8519) | 1:1:A:MET:HB3 | 1:1:A:MET:HE3 | 19 | 0.13 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 11 | 0.13 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 11 | 0.13 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 11 | 0.13 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 20 | 0.13 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 20 | 0.13 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 20 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE1 | 4 | 0.13 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE2 | 4 | 0.13 |
| (1,8119) | 1:94:A:GLN:H | 1:146:A:MET:HE3 | 4 | 0.13 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 5 | 0.13 |
| (1,8079) | 1:91:A:GLY:H | 1:92:A:TYR:H | 17 | 0.13 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG21 | 3 | 0.13 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG22 | 3 | 0.13 |
| (1,8064) | 1:89:A:ILE:HD11 | 1:156:A:ILE:HG23 | 3 | 0.13 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG21 | 3 | 0.13 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG22 | 3 | 0.13 |
| (1,8064) | 1:89:A:ILE:HD12 | 1:156:A:ILE:HG23 | 3 | 0.13 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG21 | 3 | 0.13 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG22 | 3 | 0.13 |
| (1,8064) | 1:89:A:ILE:HD13 | 1:156:A:ILE:HG23 | 3 | 0.13 |
| (1,8011) | 1:83:A:GLU:H | 1:85:A:ALA:H | 11 | 0.13 |
| (1,7929) | 1:71:A:SER:HA | 1:77:A:LYS:HA | 13 | 0.13 |
| (1,7897) | 1:67:A:SER:H | 1:69:A:ARG:H | 12 | 0.13 |
| (1,7717) | 1:54:A:ARG:H | 1:55:A:VAL:H | 20 | 0.13 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 2 | 0.13 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 10 | 0.13 |
| (1,7537) | 1:15:A:MET:HE1 | 1:21:A:ARG:HA | 13 | 0.13 |
| (1,7537) | 1:15:A:MET:HE2 | 1:21:A:ARG:HA | 13 | 0.13 |
| (1,7537) | 1:15:A:MET:HE3 | 1:21:A:ARG:HA | 13 | 0.13 |
| (1,7387) | 1:1:A:MET:HE1 | 1:2:A:ALA:HA | 12 | 0.13 |
| (1,7387) | 1:1:A:MET:HE2 | 1:2:A:ALA:HA | 12 | 0.13 |
| (1,7387) | 1:1:A:MET:HE3 | 1:2:A:ALA:HA | 12 | 0.13 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB1 | 1 | 0.13 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB2 | 1 | 0.13 |
| (1,7317) | 1:60:A:LEU:HA | 1:107:A:ALA:HB3 | 1 | 0.13 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 10 | 0.13 |
| (1,7227) | 1:14:A:ARG:HB3 | 1:15:A:MET:H | 20 | 0.13 |
| (1,7206) | 1:153:A:ASP:H | 1:155:A:GLY:H | 2 | 0.13 |
| (1,7180) | 1:117:A:LYS:HA | 1:119:A:ARG:H | 15 | 0.13 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 14 | 0.13 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 14 | 0.13 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 7 | 0.13 |
| (1,7120) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HG2 | 17 | 0.13 |
| (1,7120) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HG2 | 17 | 0.13 |
| (1,7120) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HG2 | 17 | 0.13 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 18 | 0.13 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 18 | 0.13 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 17 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7057) | 1:46:A:LYS:H | 1:46:A:LYS:HB3 | 12 | 0.13 |
| (1,7053) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 5 | 0.13 |
| (1,7053) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 5 | 0.13 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 12 | 0.13 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 13 | 0.13 |
| (1,6994) | 1:35:A:GLU:H | 1:36:A:ARG:HA | 8 | 0.13 |
| (1,6973) | 1:35:A:GLU:H | 1:35:A:GLU:HG2 | 13 | 0.13 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 2 | 0.13 |
| (1,6943) | 1:33:A:GLN:HB3 | 1:33:A:GLN:HE22 | 7 | 0.13 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 7 | 0.13 |
| (1,6939) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 16 | 0.13 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 19 | 0.13 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 2 | 0.13 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 8 | 0.13 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 10 | 0.13 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 11 | 0.13 |
| (1,6827) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 13 | 0.13 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 13 | 0.13 |
| (1,6778) | 1:24:A:TYR:HB2 | 1:33:A:GLN:H | 7 | 0.13 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 9 | 0.13 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 10 | 0.13 |
| (1,6742) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 7 | 0.13 |
| (1,6713) | 1:19:A:SER:HA | 1:19:A:SER:HB2 | 7 | 0.13 |
| (1,6692) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 17 | 0.13 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 11 | 0.13 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 9 | 0.13 |
| (1,6642) | 1:7:A:LEU:HD11 | 1:13:A:LYS:HB2 | 16 | 0.13 |
| (1,6642) | 1:7:A:LEU:HD12 | 1:13:A:LYS:HB2 | 16 | 0.13 |
| (1,6642) | 1:7:A:LEU:HD13 | 1:13:A:LYS:HB2 | 16 | 0.13 |
| (1,6624) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 17 | 0.13 |
| (1,6506) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 14 | 0.13 |
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 10 | 0.13 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG21 | 19 | 0.13 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG22 | 19 | 0.13 |
| (1,6461) | 1:160:A:LEU:HD11 | 1:162:A:THR:HG23 | 19 | 0.13 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG21 | 19 | 0.13 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG22 | 19 | 0.13 |
| (1,6461) | 1:160:A:LEU:HD12 | 1:162:A:THR:HG23 | 19 | 0.13 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG21 | 19 | 0.13 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG22 | 19 | 0.13 |
| (1,6461) | 1:160:A:LEU:HD13 | 1:162:A:THR:HG23 | 19 | 0.13 |
| (1,6449) | 1:162:A:THR:H | 1:163:A:GLU:H | 2 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 6 | 0.13 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 17 | 0.13 |
| (1,6392) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 8 | 0.13 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 8 | 0.13 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 8 | 0.13 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 1 | 0.13 |
| (1,6344) | 1:67:A:SER:H | 1:154:A:SER:HB3 | 14 | 0.13 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB2 | 12 | 0.13 |
| (1,6334) | 1:153:A:ASP:H | 1:153:A:ASP:HB3 | 12 | 0.13 |
| (1,6332) | 1:152:A:THR:HG21 | 1:153:A:ASP:H | 4 | 0.13 |
| (1,6332) | 1:152:A:THR:HG22 | 1:153:A:ASP:H | 4 | 0.13 |
| (1,6332) | 1:152:A:THR:HG23 | 1:153:A:ASP:H | 4 | 0.13 |
| (1,6317) | 1:151:A:PHE:HA | 1:152:A:THR:H | 2 | 0.13 |
| (1,6313) | 1:151:A:PHE:H | 1:151:A:PHE:HB2 | 5 | 0.13 |
| (1,6313) | 1:151:A:PHE:H | 1:151:A:PHE:HB3 | 5 | 0.13 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 13 | 0.13 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 13 | 0.13 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 13 | 0.13 |
| (1,6283) | 1:150:A:VAL:H | 1:150:A:VAL:HB | 10 | 0.13 |
| (1,6258) | 1:147:A:SER:H | 1:147:A:SER:HB2 | 6 | 0.13 |
| (1,6258) | 1:147:A:SER:H | 1:147:A:SER:HB3 | 6 | 0.13 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 14 | 0.13 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 6 | 0.13 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 6 | 0.13 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 6 | 0.13 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 6 | 0.13 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 6 | 0.13 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 11 | 0.13 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 11 | 0.13 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 11 | 0.13 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 4 | 0.13 |
| (1,6168) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 4 | 0.13 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 4 | 0.13 |
| (1,6168) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 4 | 0.13 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 4 | 0.13 |
| (1,6168) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 4 | 0.13 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG2 | 16 | 0.13 |
| (1,6159) | 1:141:A:LEU:HA | 1:145:A:GLU:HG3 | 16 | 0.13 |
| (1,6141) | 1:127:A:ARG:HD3 | 1:139:A:PHE:HZ | 6 | 0.13 |
| (1,6122) | 1:139:A:PHE:H | 1:140:A:ALA:H | 3 | 0.13 |
| (1,6122) | 1:139:A:PHE:H | 1:140:A:ALA:H | 12 | 0.13 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 11 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 11 | 0.13 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 11 | 0.13 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD11 | 20 | 0.13 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD12 | 20 | 0.13 |
| (1,6103) | 1:137:A:ALA:HB1 | 1:159:A:ILE:HD13 | 20 | 0.13 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD11 | 20 | 0.13 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD12 | 20 | 0.13 |
| (1,6103) | 1:137:A:ALA:HB2 | 1:159:A:ILE:HD13 | 20 | 0.13 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD11 | 20 | 0.13 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD12 | 20 | 0.13 |
| (1,6103) | 1:137:A:ALA:HB3 | 1:159:A:ILE:HD13 | 20 | 0.13 |
| (1,6073) | 1:136:A:ASP:H | 1:137:A:ALA:H | 15 | 0.13 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 6 | 0.13 |
| (1,6063) | 1:132:A:LYS:HA | 1:135:A:GLU:H | 13 | 0.13 |
| (1,6061) | 1:134:A:PHE:HZ | 1:158:A:ILE:HA | 10 | 0.13 |
| (1,6042) | 1:134:A:PHE:H | 1:136:A:ASP:H | 16 | 0.13 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 9 | 0.13 |
| (1,5967) | 1:128:A:GLY:H | 1:129:A:GLN:H | 18 | 0.13 |
| (1,5942) | 1:126:A:SER:H | 1:126:A:SER:HB3 | 1 | 0.13 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 13 | 0.13 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 13 | 0.13 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 13 | 0.13 |
| (1,5900) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 7 | 0.13 |
| (1,5867) | 1:122:A:LEU:H | 1:123:A:GLY:H | 17 | 0.13 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 18 | 0.13 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 19 | 0.13 |
| (1,5785) | 1:115:A:SER:H | 1:116:A:ALA:H | 12 | 0.13 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 9 | 0.13 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 9 | 0.13 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 18 | 0.13 |
| (1,5755) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 19 | 0.13 |
| (1,5745) | 1:109:A:GLN:H | 1:110:A:PHE:H | 11 | 0.13 |
| (1,5688) | 1:106:A:LEU:HA | 1:109:A:GLN:H | 20 | 0.13 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 12 | 0.13 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 11 | 0.13 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 14 | 0.13 |
| (1,5680) | 1:106:A:LEU:H | 1:106:A:LEU:HG | 17 | 0.13 |
| (1,5659) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 20 | 0.13 |
| (1,5637) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB3 | 2 | 0.13 |
| (1,5637) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB3 | 2 | 0.13 |
| (1,5637) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB3 | 2 | 0.13 |
| (1,5623) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 19 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5621) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 7 | 0.13 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 1 | 0.13 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 16 | 0.13 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 11 | 0.13 |
| (1,5579) | 1:99:A:GLY:H | 1:100:A:GLU:H | 13 | 0.13 |
| (1,5575) | 1:98:A:SER:HA | 1:98:A:SER:HB2 | 8 | 0.13 |
| (1,5552) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 19 | 0.13 |
| (1,5543) | 1:96:A:ILE:HG12 | 1:103:A:PHE:H | 16 | 0.13 |
| (1,5535) | 1:96:A:ILE:HG21 | 1:103:A:PHE:H | 12 | 0.13 |
| (1,5535) | 1:96:A:ILE:HG22 | 1:103:A:PHE:H | 12 | 0.13 |
| (1,5535) | 1:96:A:ILE:HG23 | 1:103:A:PHE:H | 12 | 0.13 |
| (1,5516) | 1:96:A:ILE:HA | 1:98:A:SER:H | 13 | 0.13 |
| (1,5509) | 1:96:A:ILE:H | 1:101:A:GLU:H | 13 | 0.13 |
| (1,5509) | 1:96:A:ILE:H | 1:101:A:GLU:H | 19 | 0.13 |
| (1,5497) | 1:95:A:LYS:HB3 | 1:101:A:GLU:H | 1 | 0.13 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 7 | 0.13 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 3 | 0.13 |
| (1,5442) | 1:93:A:ILE:H | 1:94:A:GLN:H | 14 | 0.13 |
| (1,5412) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 17 | 0.13 |
| (1,5378) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 6 | 0.13 |
| (1,5378) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 6 | 0.13 |
| (1,5378) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 6 | 0.13 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD11 | 12 | 0.13 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD12 | 12 | 0.13 |
| (1,5376) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HD13 | 12 | 0.13 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD11 | 12 | 0.13 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD12 | 12 | 0.13 |
| (1,5376) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HD13 | 12 | 0.13 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD11 | 12 | 0.13 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD12 | 12 | 0.13 |
| (1,5376) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HD13 | 12 | 0.13 |
| (1,5347) | 1:87:A:GLU:H | 1:89:A:ILE:H | 17 | 0.13 |
| (1,5176) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 11 | 0.13 |
| (1,5172) | 1:82:A:LYS:HB2 | 1:83:A:GLU:H | 6 | 0.13 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD11 | 14 | 0.13 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD12 | 14 | 0.13 |
| (1,5159) | 1:82:A:LYS:HA | 1:156:A:ILE:HD13 | 14 | 0.13 |
| (1,5151) | 1:82:A:LYS:H | 1:83:A:GLU:H | 13 | 0.13 |
| (1,5123) | 1:65:A:SER:H | 1:80:A:ARG:HG3 | 20 | 0.13 |
| (1,5054) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 1 | 0.13 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 1 | 0.13 |
| (1,4963) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 20 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4927) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 8 | 0.13 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 1 | 0.13 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 14 | 0.13 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 14 | 0.13 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 14 | 0.13 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 3 | 0.13 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 10 | 0.13 |
| (1,4755) | 1:57:A:CYS:HA | 1:58:A:SER:H | 19 | 0.13 |
| (1,4738) | 1:56:A:ARG:HB3 | 1:123:A:GLY:H | 5 | 0.13 |
| (1,4715) | 1:55:A:VAL:HG11 | 1:139:A:PHE:HA | 11 | 0.13 |
| (1,4715) | 1:55:A:VAL:HG12 | 1:139:A:PHE:HA | 11 | 0.13 |
| (1,4715) | 1:55:A:VAL:HG13 | 1:139:A:PHE:HA | 11 | 0.13 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 7 | 0.13 |
| (1,4666) | 1:53:A:ALA:HB1 | 1:54:A:ARG:H | 16 | 0.13 |
| (1,4666) | 1:53:A:ALA:HB2 | 1:54:A:ARG:H | 16 | 0.13 |
| (1,4666) | 1:53:A:ALA:HB3 | 1:54:A:ARG:H | 16 | 0.13 |
| (1,4641) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 11 | 0.13 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG2 | 3 | 0.13 |
| (1,4630) | 1:51:A:GLU:H | 1:51:A:GLU:HG3 | 3 | 0.13 |
| (1,4623) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 11 | 0.13 |
| (1,4623) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 11 | 0.13 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB2 | 19 | 0.13 |
| (1,4613) | 1:163:A:GLU:H | 1:163:A:GLU:HB3 | 19 | 0.13 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 7 | 0.13 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 7 | 0.13 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 8 | 0.13 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 8 | 0.13 |
| (1,4555) | 1:144:A:GLY:HA2 | 1:145:A:GLU:H | 14 | 0.13 |
| (1,4555) | 1:144:A:GLY:HA3 | 1:145:A:GLU:H | 14 | 0.13 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 10 | 0.13 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 10 | 0.13 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 10 | 0.13 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 10 | 0.13 |
| (1,4371) | 1:117:A:LYS:HB2 | 1:118:A:ALA:H | 19 | 0.13 |
| (1,4371) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 19 | 0.13 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG2 | 9 | 0.13 |
| (1,4369) | 1:117:A:LYS:H | 1:117:A:LYS:HG3 | 9 | 0.13 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 18 | 0.13 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 18 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 1 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 1 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 4 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 4 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 5 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 5 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 8 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 8 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 10 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 10 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 11 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 11 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 12 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 12 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 13 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 13 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 16 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 16 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 17 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 17 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 20 | 0.13 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 20 | 0.13 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 14 | 0.13 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 14 | 0.13 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG2 | 14 | 0.13 |
| (1,4329) | 1:108:A:SER:HB2 | 1:119:A:ARG:HG3 | 14 | 0.13 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 14 | 0.13 |
| (1,4329) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 14 | 0.13 |
| (1,4323) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 4 | 0.13 |
| (1,4323) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 4 | 0.13 |
| (1,4323) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 12 | 0.13 |
| (1,4323) | 1:108:A:SER:HB3 | 1:109:A:GLN:H | 12 | 0.13 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 13 | 0.13 |
| (1,4271) | 1:104:A:GLU:H | 1:104:A:GLU:HG3 | 13 | 0.13 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 8 | 0.13 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 8 | 0.13 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 12 | 0.13 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 12 | 0.13 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 17 | 0.13 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 17 | 0.13 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 19 | 0.13 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 19 | 0.13 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 11 | 0.13 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 11 | 0.13 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 16 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 16 | 0.13 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 11 | 0.13 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 11 | 0.13 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 4 | 0.13 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 4 | 0.13 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 8 | 0.13 |
| (1,3681) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 8 | 0.13 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 15 | 0.13 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 15 | 0.13 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 2 | 0.13 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 2 | 0.13 |
| (1,3619) | 1:34:A:TRP:HB2 | 1:35:A:GLU:H | 17 | 0.13 |
| (1,3619) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 17 | 0.13 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 17 | 0.13 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 17 | 0.13 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 5 | 0.13 |
| (1,3577) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 5 | 0.13 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 5 | 0.13 |
| (1,3577) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 5 | 0.13 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 5 | 0.13 |
| (1,3577) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 5 | 0.13 |
| (1,3539) | 1:12:A:GLU:HB2 | 1:13:A:LYS:H | 18 | 0.13 |
| (1,3539) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 18 | 0.13 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 10 | 0.13 |
| (1,3499) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 10 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 5 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 5 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 5 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 5 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 5 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 5 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 5 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 5 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 5 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 18 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 18 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 18 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 18 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 18 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 18 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 18 | 0.13 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 18 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 18 | 0.13 |
| (1,3457) | 1:28:A:ILE:HG21 | 1:140:A:ALA:H | 12 | 0.13 |
| (1,3457) | 1:28:A:ILE:HG22 | 1:140:A:ALA:H | 12 | 0.13 |
| (1,3457) | 1:28:A:ILE:HG23 | 1:140:A:ALA:H | 12 | 0.13 |
| (1,3437) | 1:28:A:ILE:HG21 | 1:29:A:THR:H | 2 | 0.13 |
| (1,3437) | 1:28:A:ILE:HG22 | 1:29:A:THR:H | 2 | 0.13 |
| (1,3437) | 1:28:A:ILE:HG23 | 1:29:A:THR:H | 2 | 0.13 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 11 | 0.13 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 11 | 0.13 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 11 | 0.13 |
| (1,3341) | 1:139:A:PHE:HA | 1:141:A:LEU:H | 4 | 0.13 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 6 | 0.13 |
| (1,3333) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 6 | 0.13 |
| (1,3319) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 4 | 0.13 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 15 | 0.13 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 2 | 0.13 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 2 | 0.13 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 13 | 0.13 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 13 | 0.13 |
| (1,3023) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 15 | 0.13 |
| (1,3023) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 15 | 0.13 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 2 | 0.13 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 7 | 0.13 |
| (1,2959) | 1:33:A:GLN:HB2 | 1:35:A:GLU:H | 16 | 0.13 |
| (1,2939) | 1:31:A:ALA:HB1 | 1:32:A:SER:H | 9 | 0.13 |
| (1,2939) | 1:31:A:ALA:HB2 | 1:32:A:SER:H | 9 | 0.13 |
| (1,2939) | 1:31:A:ALA:HB3 | 1:32:A:SER:H | 9 | 0.13 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 19 | 0.13 |
| (1,2919) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 6 | 0.13 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 19 | 0.13 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 19 | 0.13 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 19 | 0.13 |
| (1,2879) | 1:28:A:ILE:HG21 | 1:28:A:ILE:HG13 | 17 | 0.13 |
| (1,2879) | 1:28:A:ILE:HG22 | 1:28:A:ILE:HG13 | 17 | 0.13 |
| (1,2879) | 1:28:A:ILE:HG23 | 1:28:A:ILE:HG13 | 17 | 0.13 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 2 | 0.13 |
| (1,2863) | 1:28:A:ILE:HA | 1:28:A:ILE:HG12 | 10 | 0.13 |
| (1,2839) | 1:27:A:HIS:HA | 1:27:A:HIS:HB2 | 7 | 0.13 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 2 | 0.13 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 8 | 0.13 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 10 | 0.13 |
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 11 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2811) | 1:26:A:ASN:HA | 1:27:A:HIS:H | 13 | 0.13 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 13 | 0.13 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE1 | 8 | 0.13 |
| (1,2765) | 1:22:A:VAL:HG11 | 1:24:A:TYR:HE2 | 8 | 0.13 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE1 | 8 | 0.13 |
| (1,2765) | 1:22:A:VAL:HG12 | 1:24:A:TYR:HE2 | 8 | 0.13 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE1 | 8 | 0.13 |
| (1,2765) | 1:22:A:VAL:HG13 | 1:24:A:TYR:HE2 | 8 | 0.13 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE1 | 18 | 0.13 |
| (1,2757) | 1:13:A:LYS:HB2 | 1:24:A:TYR:HE2 | 18 | 0.13 |
| (1,2751) | 1:24:A:TYR:HD1 | 1:36:A:ARG:H | 14 | 0.13 |
| (1,2751) | 1:24:A:TYR:HD2 | 1:36:A:ARG:H | 14 | 0.13 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 9 | 0.13 |
| (1,2691) | 1:22:A:VAL:H | 1:23:A:TYR:H | 18 | 0.13 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 4 | 0.13 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 4 | 0.13 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 4 | 0.13 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 4 | 0.13 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 4 | 0.13 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 4 | 0.13 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 4 | 0.13 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 4 | 0.13 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 4 | 0.13 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG11 | 16 | 0.13 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG12 | 16 | 0.13 |
| (1,2681) | 1:15:A:MET:HE1 | 1:22:A:VAL:HG13 | 16 | 0.13 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG11 | 16 | 0.13 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG12 | 16 | 0.13 |
| (1,2681) | 1:15:A:MET:HE2 | 1:22:A:VAL:HG13 | 16 | 0.13 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG11 | 16 | 0.13 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG12 | 16 | 0.13 |
| (1,2681) | 1:15:A:MET:HE3 | 1:22:A:VAL:HG13 | 16 | 0.13 |
| (1,2677) | 1:22:A:VAL:HB | 1:23:A:TYR:H | 7 | 0.13 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG21 | 19 | 0.13 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG22 | 19 | 0.13 |
| (1,2675) | 1:22:A:VAL:H | 1:22:A:VAL:HG23 | 19 | 0.13 |
| (1,2659) | 1:21:A:ARG:HB2 | 1:22:A:VAL:H | 7 | 0.13 |
| (1,2647) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 3 | 0.13 |
| (1,2631) | 1:20:A:GLY:H | 1:20:A:GLY:HA2 | 2 | 0.13 |
| (1,2591) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 7 | 0.13 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 3 | 0.13 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 3 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 16 | 0.13 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 16 | 0.13 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 6 | 0.13 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 6 | 0.13 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 20 | 0.13 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 20 | 0.13 |
| (1,2487) | 1:12:A:GLU:HG2 | 1:13:A:LYS:H | 17 | 0.13 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 4 | 0.13 |
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 16 | 0.13 |
| (1,2379) | 1:7:A:LEU:HD11 | 1:13:A:LYS:H | 9 | 0.13 |
| (1,2379) | 1:7:A:LEU:HD12 | 1:13:A:LYS:H | 9 | 0.13 |
| (1,2379) | 1:7:A:LEU:HD13 | 1:13:A:LYS:H | 9 | 0.13 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 16 | 0.13 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 16 | 0.13 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 16 | 0.13 |
| (1,2345) | 1:7:A:LEU:H | 1:7:A:LEU:HB3 | 14 | 0.13 |
| (1,2339) | 1:6:A:LYS:H | 1:7:A:LEU:H | 14 | 0.13 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 9 | 0.13 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 20 | 0.13 |
| (1,2291) | 1:3:A:ASP:HB3 | 1:4:A:GLU:H | 17 | 0.13 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 10 | 0.13 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 3 | 0.13 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 14 | 0.13 |
| (1,2215) | 1:162:A:THR:HA | 1:162:A:THR:HG21 | 18 | 0.13 |
| (1,2215) | 1:162:A:THR:HA | 1:162:A:THR:HG22 | 18 | 0.13 |
| (1,2215) | 1:162:A:THR:HA | 1:162:A:THR:HG23 | 18 | 0.13 |
| (1,2203) | 1:162:A:THR:H | 1:163:A:GLU:H | 2 | 0.13 |
| (1,2183) | 1:161:A:ARG:H | 1:161:A:ARG:HB2 | 8 | 0.13 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 6 | 0.13 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 17 | 0.13 |
| (1,2097) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 8 | 0.13 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 16 | 0.13 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 16 | 0.13 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 16 | 0.13 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 18 | 0.13 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 18 | 0.13 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 18 | 0.13 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 18 | 0.13 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 18 | 0.13 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 18 | 0.13 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 18 | 0.13 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 18 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 18 | 0.13 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 1 | 0.13 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 1 | 0.13 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 1 | 0.13 |
| (1,2057) | 1:156:A:ILE:HB | 1:156:A:ILE:HG12 | 8 | 0.13 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 6 | 0.13 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 6 | 0.13 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 6 | 0.13 |
| (1,1989) | 1:151:A:PHE:HA | 1:152:A:THR:H | 2 | 0.13 |
| (1,1977) | 1:150:A:VAL:HG21 | 1:151:A:PHE:H | 15 | 0.13 |
| (1,1977) | 1:150:A:VAL:HG22 | 1:151:A:PHE:H | 15 | 0.13 |
| (1,1977) | 1:150:A:VAL:HG23 | 1:151:A:PHE:H | 15 | 0.13 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 8 | 0.13 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 8 | 0.13 |
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 8 | 0.13 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG21 | 19 | 0.13 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG22 | 19 | 0.13 |
| (1,1959) | 1:150:A:VAL:H | 1:150:A:VAL:HG23 | 19 | 0.13 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 1 | 0.13 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 8 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 2 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 3 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 5 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 8 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 9 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 12 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 13 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 15 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 17 | 0.13 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 20 | 0.13 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 18 | 0.13 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 18 | 0.13 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 14 | 0.13 |
| (1,1833) | 1:145:A:GLU:H | 1:145:A:GLU:HB2 | 6 | 0.13 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 14 | 0.13 |
| (1,1797) | 1:142:A:ARG:HA | 1:142:A:ARG:HB3 | 12 | 0.13 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 5 | 0.13 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 5 | 0.13 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 5 | 0.13 |
| (1,1709) | 1:139:A:PHE:H | 1:140:A:ALA:H | 3 | 0.13 |
| (1,1709) | 1:139:A:PHE:H | 1:140:A:ALA:H | 12 | 0.13 |
| (1,1677) | 1:138:A:SER:H | 1:138:A:SER:HB2 | 20 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 2 | 0.13 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 2 | 0.13 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 2 | 0.13 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB1 | 6 | 0.13 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB2 | 6 | 0.13 |
| (1,1653) | 1:137:A:ALA:H | 1:137:A:ALA:HB3 | 6 | 0.13 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 12 | 0.13 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 12 | 0.13 |
| (1,1639) | 1:136:A:ASP:H | 1:137:A:ALA:H | 15 | 0.13 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 6 | 0.13 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 12 | 0.13 |
| (1,1629) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 12 | 0.13 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 13 | 0.13 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD11 | 4 | 0.13 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD12 | 4 | 0.13 |
| (1,1605) | 1:134:A:PHE:HA | 1:159:A:ILE:HD13 | 4 | 0.13 |
| (1,1591) | 1:134:A:PHE:H | 1:136:A:ASP:H | 16 | 0.13 |
| (1,1583) | 1:132:A:LYS:H | 1:133:A:PRO:HD3 | 10 | 0.13 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE2 | 16 | 0.13 |
| (1,1563) | 1:132:A:LYS:HD2 | 1:132:A:LYS:HE3 | 16 | 0.13 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 10 | 0.13 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 10 | 0.13 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 10 | 0.13 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 10 | 0.13 |
| (1,1553) | 1:132:A:LYS:HA | 1:132:A:LYS:HB2 | 4 | 0.13 |
| (1,1525) | 1:131:A:GLN:HG2 | 1:131:A:GLN:HE21 | 15 | 0.13 |
| (1,1525) | 1:131:A:GLN:HG3 | 1:131:A:GLN:HE21 | 15 | 0.13 |
| (1,1523) | 1:131:A:GLN:HB3 | 1:133:A:PRO:HD2 | 15 | 0.13 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 1 | 0.13 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 1 | 0.13 |
| (1,1513) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 10 | 0.13 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 8 | 0.13 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 8 | 0.13 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG2 | 10 | 0.13 |
| (1,1491) | 1:130:A:MET:H | 1:130:A:MET:HG3 | 10 | 0.13 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 10 | 0.13 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 10 | 0.13 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 10 | 0.13 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 19 | 0.13 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 19 | 0.13 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 19 | 0.13 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 10 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1427) | 1:128:A:GLY:H | 1:129:A:GLN:H | 18 | 0.13 |
| (1,1409) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 9 | 0.13 |
| (1,1407) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 18 | 0.13 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 12 | 0.13 |
| (1,1395) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HG3 | 10 | 0.13 |
| (1,1365) | 1:126:A:SER:H | 1:126:A:SER:HA | 2 | 0.13 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 6 | 0.13 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 6 | 0.13 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 6 | 0.13 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 9 | 0.13 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 9 | 0.13 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 9 | 0.13 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 20 | 0.13 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 20 | 0.13 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 20 | 0.13 |
| (1,1317) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 7 | 0.13 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 15 | 0.13 |
| (1,1315) | 1:124:A:ALA:H | 1:124:A:ALA:HA | 18 | 0.13 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 2 | 0.13 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 2 | 0.13 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 2 | 0.13 |
| (1,1269) | 1:122:A:LEU:H | 1:123:A:GLY:H | 17 | 0.13 |
| (1,1255) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 1 | 0.13 |
| (1,1255) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 1 | 0.13 |
| (1,1255) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 8 | 0.13 |
| (1,1255) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 8 | 0.13 |
| (1,1253) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD2 | 20 | 0.13 |
| (1,1253) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD2 | 20 | 0.13 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 6 | 0.13 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 18 | 0.13 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 19 | 0.13 |
| (1,1171) | 1:116:A:ALA:HB1 | 1:117:A:LYS:H | 20 | 0.13 |
| (1,1171) | 1:116:A:ALA:HB2 | 1:117:A:LYS:H | 20 | 0.13 |
| (1,1171) | 1:116:A:ALA:HB3 | 1:117:A:LYS:H | 20 | 0.13 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB1 | 16 | 0.13 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB2 | 16 | 0.13 |
| (1,1157) | 1:116:A:ALA:H | 1:116:A:ALA:HB3 | 16 | 0.13 |
| (1,1137) | 1:115:A:SER:H | 1:116:A:ALA:H | 12 | 0.13 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 19 | 0.13 |
| (1,1131) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 19 | 0.13 |
| (1,1129) | 1:113:A:CYS:H | 1:113:A:CYS:HB3 | 9 | 0.13 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 8 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1083) | 1:109:A:GLN:HA | 1:110:A:PHE:H | 6 | 0.13 |
| (1,1049) | 1:109:A:GLN:H | 1:111:A:SER:H | 18 | 0.13 |
| (1,1047) | 1:109:A:GLN:H | 1:110:A:PHE:H | 11 | 0.13 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 9 | 0.13 |
| (1,1005) | 1:107:A:ALA:HB1 | 1:108:A:SER:H | 12 | 0.13 |
| (1,1005) | 1:107:A:ALA:HB2 | 1:108:A:SER:H | 12 | 0.13 |
| (1,1005) | 1:107:A:ALA:HB3 | 1:108:A:SER:H | 12 | 0.13 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 8 | 0.13 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 12 | 0.13 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 2 | 0.13 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 3 | 0.13 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 19 | 0.13 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 3 | 0.13 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 7 | 0.13 |
| (1,873) | 1:104:A:GLU:H | 1:104:A:GLU:HG2 | 16 | 0.13 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 6 | 0.13 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 10 | 0.13 |
| (1,871) | 1:104:A:GLU:H | 1:104:A:GLU:HA | 12 | 0.13 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD11 | 12 | 0.13 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD12 | 12 | 0.13 |
| (1,867) | 1:103:A:PHE:HD1 | 1:160:A:LEU:HD13 | 12 | 0.13 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD11 | 12 | 0.13 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD12 | 12 | 0.13 |
| (1,867) | 1:103:A:PHE:HD2 | 1:160:A:LEU:HD13 | 12 | 0.13 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 2 | 0.13 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 13 | 0.13 |
| (1,851) | 1:103:A:PHE:HA | 1:106:A:LEU:H | 18 | 0.13 |
| (1,835) | 1:102:A:ASP:HB3 | 1:105:A:SER:H | 8 | 0.13 |
| (1,825) | 1:102:A:ASP:H | 1:105:A:SER:HB2 | 7 | 0.13 |
| (1,821) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 9 | 0.13 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 19 | 0.13 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 19 | 0.13 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 1 | 0.13 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 9 | 0.13 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 9 | 0.13 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 16 | 0.13 |
| (1,771) | 1:98:A:SER:H | 1:100:A:GLU:H | 9 | 0.13 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 11 | 0.13 |
| (1,759) | 1:99:A:GLY:H | 1:100:A:GLU:H | 13 | 0.13 |
| (1,715) | 1:97:A:LYS:H | 1:97:A:LYS:HG3 | 19 | 0.13 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 8 | 0.13 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 8 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 8 | 0.13 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 8 | 0.13 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 8 | 0.13 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 8 | 0.13 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 8 | 0.13 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 8 | 0.13 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 8 | 0.13 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 2 | 0.13 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 2 | 0.13 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 2 | 0.13 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 9 | 0.13 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 9 | 0.13 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 9 | 0.13 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 7 | 0.13 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 5 | 0.13 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 8 | 0.13 |
| (1,619) | 1:95:A:LYS:HA | 1:96:A:ILE:H | 20 | 0.13 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 16 | 0.13 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 3 | 0.13 |
| (1,535) | 1:93:A:ILE:H | 1:94:A:GLN:H | 14 | 0.13 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 2 | 0.13 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 5 | 0.13 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD11 | 17 | 0.13 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD12 | 17 | 0.13 |
| (1,479) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HD13 | 17 | 0.13 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD11 | 17 | 0.13 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD12 | 17 | 0.13 |
| (1,479) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HD13 | 17 | 0.13 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD11 | 17 | 0.13 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD12 | 17 | 0.13 |
| (1,479) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HD13 | 17 | 0.13 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 12 | 0.13 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 12 | 0.13 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 12 | 0.13 |
| (1,472) | 1:89:A:ILE:HG21 | 1:93:A:ILE:HG12 | 9 | 0.13 |
| (1,472) | 1:89:A:ILE:HG22 | 1:93:A:ILE:HG12 | 9 | 0.13 |
| (1,472) | 1:89:A:ILE:HG23 | 1:93:A:ILE:HG12 | 9 | 0.13 |
| (1,469) | 1:89:A:ILE:HG21 | 1:90:A:ASN:H | 11 | 0.13 |
| (1,469) | 1:89:A:ILE:HG22 | 1:90:A:ASN:H | 11 | 0.13 |
| (1,469) | 1:89:A:ILE:HG23 | 1:90:A:ASN:H | 11 | 0.13 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD11 | 4 | 0.13 |
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD12 | 4 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,452) | 1:87:A:GLU:H | 1:88:A:LEU:HD13 | 4 | 0.13 |
| (1,399) | 1:86:A:LEU:HA | 1:88:A:LEU:H | 4 | 0.13 |
| (1,390) | 1:85:A:ALA:HB1 | 1:86:A:LEU:H | 17 | 0.13 |
| (1,390) | 1:85:A:ALA:HB2 | 1:86:A:LEU:H | 17 | 0.13 |
| (1,390) | 1:85:A:ALA:HB3 | 1:86:A:LEU:H | 17 | 0.13 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 11 | 0.13 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 3 | 0.13 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 3 | 0.13 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 11 | 0.13 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 11 | 0.13 |
| (1,334) | 1:82:A:LYS:H | 1:83:A:GLU:H | 13 | 0.13 |
| (1,330) | 1:81:A:THR:HG21 | 1:84:A:GLU:H | 4 | 0.13 |
| (1,330) | 1:81:A:THR:HG22 | 1:84:A:GLU:H | 4 | 0.13 |
| (1,330) | 1:81:A:THR:HG23 | 1:84:A:GLU:H | 4 | 0.13 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 9 | 0.13 |
| (1,311) | 1:65:A:SER:H | 1:80:A:ARG:HG2 | 7 | 0.13 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB1 | 20 | 0.13 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB2 | 20 | 0.13 |
| (1,310) | 1:80:A:ARG:HB3 | 1:85:A:ALA:HB3 | 20 | 0.13 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 2 | 0.13 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 2 | 0.13 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 2 | 0.13 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG21 | 6 | 0.13 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG22 | 6 | 0.13 |
| (1,279) | 1:78:A:ILE:HA | 1:79:A:THR:HG23 | 6 | 0.13 |
| (1,272) | 1:78:A:ILE:H | 1:78:A:ILE:HG12 | 1 | 0.13 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 14 | 0.13 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 7 | 0.13 |
| (1,231) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 10 | 0.13 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 8 | 0.13 |
| (1,229) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 17 | 0.13 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 18 | 0.13 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 18 | 0.13 |
| (1,204) | 1:71:A:SER:HA | 1:72:A:SER:H | 9 | 0.13 |
| (1,190) | 1:68:A:ARG:HA | 1:69:A:ARG:H | 20 | 0.13 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG21 | 9 | 0.13 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG22 | 9 | 0.13 |
| (1,174) | 1:65:A:SER:H | 1:78:A:ILE:HG23 | 9 | 0.13 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 1 | 0.13 |
| (1,160) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 15 | 0.13 |
| (1,159) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 13 | 0.13 |
| (1,151) | 1:61:A:LEU:HD11 | 1:63:A:LYS:HA | 8 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,151) | 1:61:A:LEU:HD12 | 1:63:A:LYS:HA | 8 | 0.13 |
| (1,151) | 1:61:A:LEU:HD13 | 1:63:A:LYS:HA | 8 | 0.13 |
| (1,133) | 1:61:A:LEU:HD11 | 1:156:A:ILE:H | 19 | 0.13 |
| (1,133) | 1:61:A:LEU:HD12 | 1:156:A:ILE:H | 19 | 0.13 |
| (1,133) | 1:61:A:LEU:HD13 | 1:156:A:ILE:H | 19 | 0.13 |
| (1,105) | 1:59:A:HIS:H | 1:59:A:HIS:HD2 | 15 | 0.13 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD21 | 7 | 0.13 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD22 | 7 | 0.13 |
| (1,100) | 1:59:A:HIS:H | 1:122:A:LEU:HD23 | 7 | 0.13 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 10 | 0.13 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 10 | 0.13 |
| (1,99) | 1:58:A:SER:HB2 | 1:59:A:HIS:H | 19 | 0.13 |
| (1,99) | 1:58:A:SER:HB3 | 1:59:A:HIS:H | 19 | 0.13 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 17 | 0.13 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 17 | 0.13 |
| (1,89) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 17 | 0.13 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 3 | 0.13 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 10 | 0.13 |
| (1,85) | 1:57:A:CYS:HA | 1:58:A:SER:H | 19 | 0.13 |
| (1,81) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 9 | 0.13 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 5 | 0.13 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 5 | 0.13 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 5 | 0.13 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB1 | 6 | 0.13 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB2 | 6 | 0.13 |
| (1,44) | 1:54:A:ARG:HD2 | 1:124:A:ALA:HB3 | 6 | 0.13 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB1 | 6 | 0.13 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB2 | 6 | 0.13 |
| (1,44) | 1:54:A:ARG:HD3 | 1:124:A:ALA:HB3 | 6 | 0.13 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 17 | 0.13 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 17 | 0.13 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 17 | 0.13 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 17 | 0.13 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 7 | 0.13 |
| (1,25) | 1:53:A:ALA:H | 1:53:A:ALA:HA | 2 | 0.13 |
| (1,25) | 1:53:A:ALA:H | 1:53:A:ALA:HA | 3 | 0.13 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 20 | 0.13 |
| (1,17) | 1:52:A:PRO:HB2 | 1:54:A:ARG:H | 11 | 0.13 |
| (1,10) | 1:50:A:GLY:H | 1:51:A:GLU:H | 12 | 0.13 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG2 | 4 | 0.13 |
| (1,9) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HG3 | 4 | 0.13 |
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG2 | 4 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HG3 | 4 | 0.13 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 3 | 0.13 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 3 | 0.13 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 16 | 0.13 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 16 | 0.13 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 17 | 0.13 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 17 | 0.13 |
| (4,120) | 1:90:A:ASN:CB | 1:23:A:TYR:H | 12 | 0.12 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA2 | 12 | 0.12 |
| (3,1034) | 1:142:A:ARG:HG2 | 1:144:A:GLY:HA3 | 12 | 0.12 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA2 | 12 | 0.12 |
| (3,1034) | 1:142:A:ARG:HG3 | 1:144:A:GLY:HA3 | 12 | 0.12 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD2 | 15 | 0.12 |
| (3,973) | 1:105:A:SER:HB3 | 1:119:A:ARG:HD3 | 15 | 0.12 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG21 | 5 | 0.12 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG22 | 5 | 0.12 |
| (3,850) | 1:66:A:GLN:HE21 | 1:81:A:THR:HG23 | 5 | 0.12 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG21 | 5 | 0.12 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG22 | 5 | 0.12 |
| (3,850) | 1:66:A:GLN:HE22 | 1:81:A:THR:HG23 | 5 | 0.12 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE2 | 8 | 0.12 |
| (3,764) | 1:5:A:GLU:H | 1:6:A:LYS:HE3 | 8 | 0.12 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG21 | 13 | 0.12 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG22 | 13 | 0.12 |
| (3,727) | 1:150:A:VAL:HG21 | 1:152:A:THR:HG23 | 13 | 0.12 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG21 | 13 | 0.12 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG22 | 13 | 0.12 |
| (3,727) | 1:150:A:VAL:HG22 | 1:152:A:THR:HG23 | 13 | 0.12 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG21 | 13 | 0.12 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG22 | 13 | 0.12 |
| (3,727) | 1:150:A:VAL:HG23 | 1:152:A:THR:HG23 | 13 | 0.12 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 8 | 0.12 |
| (3,705) | 1:144:A:GLY:H | 1:146:A:MET:H | 2 | 0.12 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG21 | 18 | 0.12 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG22 | 18 | 0.12 |
| (3,656) | 1:134:A:PHE:HE1 | 1:152:A:THR:HG23 | 18 | 0.12 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG21 | 18 | 0.12 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG22 | 18 | 0.12 |
| (3,656) | 1:134:A:PHE:HE2 | 1:152:A:THR:HG23 | 18 | 0.12 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG2 | 9 | 0.12 |
| (3,625) | 1:125:A:PHE:HZ | 1:130:A:MET:HG3 | 9 | 0.12 |
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE1 | 3 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,620) | 1:122:A:LEU:HG | 1:125:A:PHE:HE2 | 3 | 0.12 |
| (3,590) | 1:107:A:ALA:H | 1:119:A:ARG:HB3 | 6 | 0.12 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE2 | 19 | 0.12 |
| (3,531) | 1:93:A:ILE:HB | 1:97:A:LYS:HE3 | 19 | 0.12 |
| (3,462) | 1:77:A:LYS:HE2 | 1:79:A:THR:H | 13 | 0.12 |
| (3,462) | 1:77:A:LYS:HE3 | 1:79:A:THR:H | 13 | 0.12 |
| (3,453) | 1:72:A:SER:HA | 1:78:A:ILE:HA | 10 | 0.12 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE1 | 11 | 0.12 |
| (3,352) | 1:55:A:VAL:H | 1:125:A:PHE:HE2 | 11 | 0.12 |
| (3,254) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 14 | 0.12 |
| (3,254) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 14 | 0.12 |
| (3,254) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 14 | 0.12 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 9 | 0.12 |
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 19 | 0.12 |
| (3,204) | 1:8:A:PRO:HD3 | 1:38:A:SER:HA | 3 | 0.12 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE2 | 9 | 0.12 |
| (3,154) | 1:81:A:THR:HB | 1:82:A:LYS:HE3 | 9 | 0.12 |
| (3,135) | 1:95:A:LYS:HE2 | 1:101:A:GLU:HB3 | 18 | 0.12 |
| (3,135) | 1:95:A:LYS:HE3 | 1:101:A:GLU:HB3 | 18 | 0.12 |
| (3,121) | 1:25:A:PHE:HD1 | 1:32:A:SER:H | 20 | 0.12 |
| (3,121) | 1:25:A:PHE:HD2 | 1:32:A:SER:H | 20 | 0.12 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE1 | 4 | 0.12 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE2 | 4 | 0.12 |
| (3,73) | 1:126:A:SER:H | 1:130:A:MET:HE3 | 4 | 0.12 |
| (3,55) | 1:106:A:LEU:HD21 | 1:108:A:SER:H | 13 | 0.12 |
| (3,55) | 1:106:A:LEU:HD22 | 1:108:A:SER:H | 13 | 0.12 |
| (3,55) | 1:106:A:LEU:HD23 | 1:108:A:SER:H | 13 | 0.12 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 6 | 0.12 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 6 | 0.12 |
| (1,9572) | 1:146:A:MET:HB2 | 1:147:A:SER:HA | 2 | 0.12 |
| (1,9572) | 1:146:A:MET:HB3 | 1:147:A:SER:HA | 2 | 0.12 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 20 | 0.12 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 20 | 0.12 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 7 | 0.12 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 7 | 0.12 |
| (1,9522) | 1:141:A:LEU:H | 1:161:A:ARG:HD2 | 18 | 0.12 |
| (1,9522) | 1:141:A:LEU:H | 1:161:A:ARG:HD3 | 18 | 0.12 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 3 | 0.12 |
| (1,9457) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 3 | 0.12 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG2 | 2 | 0.12 |
| (1,9431) | 1:129:A:GLN:H | 1:129:A:GLN:HG3 | 2 | 0.12 |
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE21 | 9 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9424) | 1:127:A:ARG:HD3 | 1:129:A:GLN:HE22 | 9 | 0.12 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 6 | 0.12 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 6 | 0.12 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 19 | 0.12 |
| (1,9394) | 1:123:A:GLY:H | 1:123:A:GLY:HA3 | 19 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 4 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 4 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 4 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 4 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 4 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 4 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB1 | 7 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB2 | 7 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB2 | 1:118:A:ALA:HB3 | 7 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB1 | 7 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB2 | 7 | 0.12 |
| (1,9373) | 1:117:A:LYS:HB3 | 1:118:A:ALA:HB3 | 7 | 0.12 |
| (1,9341) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD2 | 14 | 0.12 |
| (1,9341) | 1:108:A:SER:HB2 | 1:119:A:ARG:HD3 | 14 | 0.12 |
| (1,9341) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD2 | 14 | 0.12 |
| (1,9341) | 1:108:A:SER:HB3 | 1:119:A:ARG:HD3 | 14 | 0.12 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE21 | 10 | 0.12 |
| (1,9323) | 1:106:A:LEU:HD21 | 1:109:A:GLN:HE22 | 10 | 0.12 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE21 | 10 | 0.12 |
| (1,9323) | 1:106:A:LEU:HD22 | 1:109:A:GLN:HE22 | 10 | 0.12 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE21 | 10 | 0.12 |
| (1,9323) | 1:106:A:LEU:HD23 | 1:109:A:GLN:HE22 | 10 | 0.12 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 16 | 0.12 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 16 | 0.12 |
| (1,9297) | 1:104:A:GLU:HB2 | 1:119:A:ARG:HB3 | 18 | 0.12 |
| (1,9297) | 1:104:A:GLU:HB3 | 1:119:A:ARG:HB3 | 18 | 0.12 |
| (1,9267) | 1:102:A:ASP:HB2 | 1:103:A:PHE:H | 3 | 0.12 |
| (1,9267) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 3 | 0.12 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 5 | 0.12 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 5 | 0.12 |
| (1,9005) | 1:77:A:LYS:HA | 1:77:A:LYS:HD2 | 6 | 0.12 |
| (1,9005) | 1:77:A:LYS:HA | 1:77:A:LYS:HD3 | 6 | 0.12 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 1 | 0.12 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 1 | 0.12 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB1 | 14 | 0.12 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB2 | 14 | 0.12 |
| (1,8892) | 1:64:A:HIS:HB2 | 1:85:A:ALA:HB3 | 14 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB1 | 14 | 0.12 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB2 | 14 | 0.12 |
| (1,8892) | 1:64:A:HIS:HB3 | 1:85:A:ALA:HB3 | 14 | 0.12 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB2 | 18 | 0.12 |
| (1,8875) | 1:63:A:LYS:HG2 | 1:112:A:ASP:HB3 | 18 | 0.12 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB2 | 18 | 0.12 |
| (1,8875) | 1:63:A:LYS:HG3 | 1:112:A:ASP:HB3 | 18 | 0.12 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD2 | 11 | 0.12 |
| (1,8778) | 1:56:A:ARG:HB3 | 1:56:A:ARG:HD3 | 11 | 0.12 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 10 | 0.12 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 10 | 0.12 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 10 | 0.12 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 10 | 0.12 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 10 | 0.12 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 10 | 0.12 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB2 | 6 | 0.12 |
| (1,8717) | 1:47:A:ASN:HD21 | 1:49:A:GLN:HB3 | 6 | 0.12 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB2 | 6 | 0.12 |
| (1,8717) | 1:47:A:ASN:HD22 | 1:49:A:GLN:HB3 | 6 | 0.12 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG2 | 19 | 0.12 |
| (1,8691) | 1:46:A:LYS:H | 1:46:A:LYS:HG3 | 19 | 0.12 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 4 | 0.12 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 4 | 0.12 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB2 | 5 | 0.12 |
| (1,8646) | 1:32:A:SER:H | 1:32:A:SER:HB3 | 5 | 0.12 |
| (1,8628) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 18 | 0.12 |
| (1,8628) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA3 | 18 | 0.12 |
| (1,8628) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 18 | 0.12 |
| (1,8628) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA3 | 18 | 0.12 |
| (1,8628) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 18 | 0.12 |
| (1,8628) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA3 | 18 | 0.12 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG2 | 5 | 0.12 |
| (1,8616) | 1:15:A:MET:HB2 | 1:21:A:ARG:HG3 | 5 | 0.12 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG2 | 5 | 0.12 |
| (1,8616) | 1:15:A:MET:HB3 | 1:21:A:ARG:HG3 | 5 | 0.12 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 8 | 0.12 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 8 | 0.12 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 17 | 0.12 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 17 | 0.12 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD11 | 16 | 0.12 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD12 | 16 | 0.12 |
| (1,8572) | 1:6:A:LYS:HG2 | 1:7:A:LEU:HD13 | 16 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD11 | 16 | 0.12 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD12 | 16 | 0.12 |
| (1,8572) | 1:6:A:LYS:HG3 | 1:7:A:LEU:HD13 | 16 | 0.12 |
| (1,8569) | 1:6:A:LYS:HG2 | 1:7:A:LEU:H | 14 | 0.12 |
| (1,8569) | 1:6:A:LYS:HG3 | 1:7:A:LEU:H | 14 | 0.12 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB2 | 13 | 0.12 |
| (1,8527) | 1:1:A:MET:HE1 | 1:3:A:ASP:HB3 | 13 | 0.12 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB2 | 13 | 0.12 |
| (1,8527) | 1:1:A:MET:HE2 | 1:3:A:ASP:HB3 | 13 | 0.12 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB2 | 13 | 0.12 |
| (1,8527) | 1:1:A:MET:HE3 | 1:3:A:ASP:HB3 | 13 | 0.12 |
| (1,8521) | 1:1:A:MET:HB2 | 1:3:A:ASP:H | 13 | 0.12 |
| (1,8521) | 1:1:A:MET:HB3 | 1:3:A:ASP:H | 13 | 0.12 |
| (1,8505) | 1:160:A:LEU:HG | 1:161:A:ARG:H | 7 | 0.12 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 12 | 0.12 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 19 | 0.12 |
| (1,7916) | 1:69:A:ARG:HG2 | 1:71:A:SER:H | 3 | 0.12 |
| (1,7916) | 1:69:A:ARG:HG3 | 1:71:A:SER:H | 3 | 0.12 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 13 | 0.12 |
| (1,7740) | 1:54:A:ARG:HA | 1:127:A:ARG:H | 20 | 0.12 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 20 | 0.12 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 20 | 0.12 |
| (1,7702) | 1:48:A:GLY:HA2 | 1:52:A:PRO:HB3 | 20 | 0.12 |
| (1,7702) | 1:48:A:GLY:HA3 | 1:52:A:PRO:HB3 | 20 | 0.12 |
| (1,7630) | 1:27:A:HIS:HA | 1:28:A:ILE:HA | 16 | 0.12 |
| (1,7600) | 1:25:A:PHE:HZ | 1:30:A:ASN:HA | 8 | 0.12 |
| (1,7495) | 1:13:A:LYS:HG2 | 1:22:A:VAL:HB | 20 | 0.12 |
| (1,7495) | 1:13:A:LYS:HG3 | 1:22:A:VAL:HB | 20 | 0.12 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 7 | 0.12 |
| (1,7332) | 1:88:A:LEU:HG | 1:89:A:ILE:H | 10 | 0.12 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 20 | 0.12 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 20 | 0.12 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 20 | 0.12 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 20 | 0.12 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 20 | 0.12 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 20 | 0.12 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 20 | 0.12 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 20 | 0.12 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 20 | 0.12 |
| (1,7195) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG21 | 12 | 0.12 |
| (1,7195) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG22 | 12 | 0.12 |
| (1,7195) | 1:146:A:MET:HE1 | 1:158:A:ILE:HG23 | 12 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7195) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG21 | 12 | 0.12 |
| (1,7195) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG22 | 12 | 0.12 |
| (1,7195) | 1:146:A:MET:HE2 | 1:158:A:ILE:HG23 | 12 | 0.12 |
| (1,7195) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG21 | 12 | 0.12 |
| (1,7195) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG22 | 12 | 0.12 |
| (1,7195) | 1:146:A:MET:HE3 | 1:158:A:ILE:HG23 | 12 | 0.12 |
| (1,7136) | 1:90:A:ASN:HB3 | 1:93:A:ILE:HB | 19 | 0.12 |
| (1,7130) | 1:87:A:GLU:HA | 1:90:A:ASN:HB2 | 18 | 0.12 |
| (1,7123) | 1:88:A:LEU:HB2 | 1:89:A:ILE:H | 4 | 0.12 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 15 | 0.12 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 15 | 0.12 |
| (1,7075) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 15 | 0.12 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 7 | 0.12 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 7 | 0.12 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 16 | 0.12 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 16 | 0.12 |
| (1,7063) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 5 | 0.12 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA2 | 1 | 0.12 |
| (1,7051) | 1:45:A:GLY:H | 1:45:A:GLY:HA3 | 1 | 0.12 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 17 | 0.12 |
| (1,7037) | 1:39:A:GLY:H | 1:40:A:ASN:HA | 2 | 0.12 |
| (1,6998) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 12 | 0.12 |
| (1,6985) | 1:35:A:GLU:HB2 | 1:36:A:ARG:H | 6 | 0.12 |
| (1,6985) | 1:35:A:GLU:HB3 | 1:36:A:ARG:H | 6 | 0.12 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 8 | 0.12 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 8 | 0.12 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 17 | 0.12 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 17 | 0.12 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 7 | 0.12 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 11 | 0.12 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 3 | 0.12 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB2 | 7 | 0.12 |
| (1,6961) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HB3 | 7 | 0.12 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 8 | 0.12 |
| (1,6949) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 20 | 0.12 |
| (1,6933) | 1:33:A:GLN:HB2 | 1:33:A:GLN:HE21 | 5 | 0.12 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 17 | 0.12 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 4 | 0.12 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 20 | 0.12 |
| (1,6897) | 1:29:A:THR:H | 1:31:A:ALA:H | 4 | 0.12 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD11 | 15 | 0.12 |
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD12 | 15 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6888) | 1:26:A:ASN:HD21 | 1:28:A:ILE:HD13 | 15 | 0.12 |
| (1,6879) | 1:28:A:ILE:HB | 1:29:A:THR:H | 11 | 0.12 |
| (1,6873) | 1:28:A:ILE:HA | 1:30:A:ASN:H | 17 | 0.12 |
| (1,6821) | 1:26:A:ASN:H | 1:31:A:ALA:H | 1 | 0.12 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 4 | 0.12 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 16 | 0.12 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 20 | 0.12 |
| (1,6760) | 1:23:A:TYR:HB3 | 1:24:A:TYR:H | 4 | 0.12 |
| (1,6724) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 13 | 0.12 |
| (1,6720) | 1:21:A:ARG:H | 1:21:A:ARG:HB3 | 13 | 0.12 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 5 | 0.12 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 5 | 0.12 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 5 | 0.12 |
| (1,6681) | 1:14:A:ARG:HD3 | 1:25:A:PHE:H | 6 | 0.12 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 15 | 0.12 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG11 | 2 | 0.12 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG12 | 2 | 0.12 |
| (1,6654) | 1:13:A:LYS:HE2 | 1:22:A:VAL:HG13 | 2 | 0.12 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG11 | 2 | 0.12 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG12 | 2 | 0.12 |
| (1,6654) | 1:13:A:LYS:HE3 | 1:22:A:VAL:HG13 | 2 | 0.12 |
| (1,6620) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 5 | 0.12 |
| (1,6564) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 3 | 0.12 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 3 | 0.12 |
| (1,6550) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 6 | 0.12 |
| (1,6494) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 17 | 0.12 |
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 8 | 0.12 |
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 11 | 0.12 |
| (1,6442) | 1:141:A:LEU:HD11 | 1:161:A:ARG:H | 3 | 0.12 |
| (1,6442) | 1:141:A:LEU:HD12 | 1:161:A:ARG:H | 3 | 0.12 |
| (1,6442) | 1:141:A:LEU:HD13 | 1:161:A:ARG:H | 3 | 0.12 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 19 | 0.12 |
| (1,6380) | 1:152:A:THR:H | 1:157:A:HIS:HD2 | 19 | 0.12 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD11 | 20 | 0.12 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD12 | 20 | 0.12 |
| (1,6309) | 1:150:A:VAL:HG21 | 1:159:A:ILE:HD13 | 20 | 0.12 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD11 | 20 | 0.12 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD12 | 20 | 0.12 |
| (1,6309) | 1:150:A:VAL:HG22 | 1:159:A:ILE:HD13 | 20 | 0.12 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD11 | 20 | 0.12 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD12 | 20 | 0.12 |
| (1,6309) | 1:150:A:VAL:HG23 | 1:159:A:ILE:HD13 | 20 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG11 | 15 | 0.12 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG12 | 15 | 0.12 |
| (1,6285) | 1:150:A:VAL:H | 1:150:A:VAL:HG13 | 15 | 0.12 |
| (1,6242) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD11 | 8 | 0.12 |
| (1,6242) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD12 | 8 | 0.12 |
| (1,6242) | 1:146:A:MET:HG2 | 1:160:A:LEU:HD13 | 8 | 0.12 |
| (1,6164) | 1:141:A:LEU:HD11 | 1:159:A:ILE:HB | 1 | 0.12 |
| (1,6164) | 1:141:A:LEU:HD12 | 1:159:A:ILE:HB | 1 | 0.12 |
| (1,6164) | 1:141:A:LEU:HD13 | 1:159:A:ILE:HB | 1 | 0.12 |
| (1,6145) | 1:140:A:ALA:H | 1:141:A:LEU:H | 17 | 0.12 |
| (1,6127) | 1:139:A:PHE:H | 1:139:A:PHE:HB3 | 13 | 0.12 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 2 | 0.12 |
| (1,6109) | 1:138:A:SER:H | 1:139:A:PHE:H | 9 | 0.12 |
| (1,6107) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 7 | 0.12 |
| (1,6073) | 1:136:A:ASP:H | 1:137:A:ALA:H | 16 | 0.12 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 2 | 0.12 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 2 | 0.12 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB2 | 5 | 0.12 |
| (1,6065) | 1:135:A:GLU:H | 1:135:A:GLU:HB3 | 5 | 0.12 |
| (1,6040) | 1:134:A:PHE:H | 1:135:A:GLU:H | 6 | 0.12 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 15 | 0.12 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 15 | 0.12 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 1 | 0.12 |
| (1,5887) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 1 | 0.12 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE1 | 20 | 0.12 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE2 | 20 | 0.12 |
| (1,5881) | 1:122:A:LEU:HD11 | 1:130:A:MET:HE3 | 20 | 0.12 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE1 | 20 | 0.12 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE2 | 20 | 0.12 |
| (1,5881) | 1:122:A:LEU:HD12 | 1:130:A:MET:HE3 | 20 | 0.12 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE1 | 20 | 0.12 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE2 | 20 | 0.12 |
| (1,5881) | 1:122:A:LEU:HD13 | 1:130:A:MET:HE3 | 20 | 0.12 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 13 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 1 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 3 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 5 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 6 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 7 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 8 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 9 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 10 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 11 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 12 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 13 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 14 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 15 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 17 | 0.12 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 20 | 0.12 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 9 | 0.12 |
| (1,5819) | 1:112:A:ASP:H | 1:117:A:LYS:HD3 | 18 | 0.12 |
| (1,5801) | 1:116:A:ALA:H | 1:117:A:LYS:H | 5 | 0.12 |
| (1,5785) | 1:115:A:SER:H | 1:116:A:ALA:H | 3 | 0.12 |
| (1,5713) | 1:107:A:ALA:H | 1:108:A:SER:H | 15 | 0.12 |
| (1,5684) | 1:106:A:LEU:H | 1:107:A:ALA:H | 20 | 0.12 |
| (1,5667) | 1:105:A:SER:H | 1:106:A:LEU:H | 11 | 0.12 |
| (1,5659) | 1:104:A:GLU:HB2 | 1:105:A:SER:H | 16 | 0.12 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 16 | 0.12 |
| (1,5653) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 20 | 0.12 |
| (1,5607) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 17 | 0.12 |
| (1,5605) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 7 | 0.12 |
| (1,5595) | 1:100:A:GLU:H | 1:101:A:GLU:H | 14 | 0.12 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 17 | 0.12 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 17 | 0.12 |
| (1,5558) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 17 | 0.12 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 9 | 0.12 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 9 | 0.12 |
| (1,5526) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 9 | 0.12 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE2 | 6 | 0.12 |
| (1,5469) | 1:93:A:ILE:HG21 | 1:97:A:LYS:HE3 | 6 | 0.12 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE2 | 6 | 0.12 |
| (1,5469) | 1:93:A:ILE:HG22 | 1:97:A:LYS:HE3 | 6 | 0.12 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE2 | 6 | 0.12 |
| (1,5469) | 1:93:A:ILE:HG23 | 1:97:A:LYS:HE3 | 6 | 0.12 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 2 | 0.12 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 2 | 0.12 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 2 | 0.12 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD11 | 14 | 0.12 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD12 | 14 | 0.12 |
| (1,5426) | 1:92:A:TYR:HB3 | 1:106:A:LEU:HD13 | 14 | 0.12 |
| (1,5410) | 1:91:A:GLY:HA2 | 1:94:A:GLN:H | 4 | 0.12 |
| (1,5410) | 1:91:A:GLY:HA3 | 1:94:A:GLN:H | 4 | 0.12 |
| (1,5390) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 2 | 0.12 |
| (1,5390) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 2 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5390) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 2 | 0.12 |
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 8 | 0.12 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 8 | 0.12 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 8 | 0.12 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 10 | 0.12 |
| (1,5323) | 1:88:A:LEU:HA | 1:90:A:ASN:H | 18 | 0.12 |
| (1,5279) | 1:86:A:LEU:HD11 | 1:149:A:PRO:HD3 | 7 | 0.12 |
| (1,5279) | 1:86:A:LEU:HD12 | 1:149:A:PRO:HD3 | 7 | 0.12 |
| (1,5279) | 1:86:A:LEU:HD13 | 1:149:A:PRO:HD3 | 7 | 0.12 |
| (1,5263) | 1:86:A:LEU:HG | 1:90:A:ASN:HD22 | 18 | 0.12 |
| (1,5261) | 1:86:A:LEU:HG | 1:90:A:ASN:HD21 | 1 | 0.12 |
| (1,5257) | 1:86:A:LEU:HB3 | 1:88:A:LEU:H | 18 | 0.12 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD11 | 5 | 0.12 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD12 | 5 | 0.12 |
| (1,5243) | 1:86:A:LEU:HA | 1:156:A:ILE:HD13 | 5 | 0.12 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB1 | 2 | 0.12 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB2 | 2 | 0.12 |
| (1,5211) | 1:62:A:VAL:HG21 | 1:85:A:ALA:HB3 | 2 | 0.12 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB1 | 2 | 0.12 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB2 | 2 | 0.12 |
| (1,5211) | 1:62:A:VAL:HG22 | 1:85:A:ALA:HB3 | 2 | 0.12 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB1 | 2 | 0.12 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB2 | 2 | 0.12 |
| (1,5211) | 1:62:A:VAL:HG23 | 1:85:A:ALA:HB3 | 2 | 0.12 |
| (1,5184) | 1:83:A:GLU:HA | 1:86:A:LEU:HB3 | 2 | 0.12 |
| (1,5182) | 1:83:A:GLU:H | 1:84:A:GLU:H | 7 | 0.12 |
| (1,5068) | 1:64:A:HIS:H | 1:78:A:ILE:HB | 1 | 0.12 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG2 | 12 | 0.12 |
| (1,5043) | 1:75:A:GLN:HA | 1:76:A:GLU:HG3 | 12 | 0.12 |
| (1,5041) | 1:76:A:GLU:HB2 | 1:77:A:LYS:H | 8 | 0.12 |
| (1,5031) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 20 | 0.12 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD11 | 7 | 0.12 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD12 | 7 | 0.12 |
| (1,4988) | 1:72:A:SER:H | 1:78:A:ILE:HD13 | 7 | 0.12 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 11 | 0.12 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG21 | 6 | 0.12 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG22 | 6 | 0.12 |
| (1,4895) | 1:63:A:LYS:HB2 | 1:78:A:ILE:HG23 | 6 | 0.12 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG21 | 6 | 0.12 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG22 | 6 | 0.12 |
| (1,4895) | 1:63:A:LYS:HB3 | 1:78:A:ILE:HG23 | 6 | 0.12 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD11 | 5 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD12 | 5 | 0.12 |
| (1,4875) | 1:62:A:VAL:HG11 | 1:88:A:LEU:HD13 | 5 | 0.12 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD11 | 5 | 0.12 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD12 | 5 | 0.12 |
| (1,4875) | 1:62:A:VAL:HG12 | 1:88:A:LEU:HD13 | 5 | 0.12 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD11 | 5 | 0.12 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD12 | 5 | 0.12 |
| (1,4875) | 1:62:A:VAL:HG13 | 1:88:A:LEU:HD13 | 5 | 0.12 |
| (1,4854) | 1:61:A:LEU:HD21 | 1:112:A:ASP:H | 13 | 0.12 |
| (1,4854) | 1:61:A:LEU:HD22 | 1:112:A:ASP:H | 13 | 0.12 |
| (1,4854) | 1:61:A:LEU:HD23 | 1:112:A:ASP:H | 13 | 0.12 |
| (1,4829) | 1:60:A:LEU:HD21 | 1:107:A:ALA:HA | 11 | 0.12 |
| (1,4829) | 1:60:A:LEU:HD22 | 1:107:A:ALA:HA | 11 | 0.12 |
| (1,4829) | 1:60:A:LEU:HD23 | 1:107:A:ALA:HA | 11 | 0.12 |
| (1,4816) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 10 | 0.12 |
| (1,4816) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 10 | 0.12 |
| (1,4816) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 10 | 0.12 |
| (1,4793) | 1:60:A:LEU:H | 1:158:A:ILE:H | 12 | 0.12 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 20 | 0.12 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG21 | 9 | 0.12 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG22 | 9 | 0.12 |
| (1,4763) | 1:57:A:CYS:HB2 | 1:159:A:ILE:HG23 | 9 | 0.12 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 19 | 0.12 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 11 | 0.12 |
| (1,4694) | 1:55:A:VAL:H | 1:56:A:ARG:H | 9 | 0.12 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB1 | 20 | 0.12 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB2 | 20 | 0.12 |
| (1,4682) | 1:54:A:ARG:HB2 | 1:124:A:ALA:HB3 | 20 | 0.12 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB1 | 20 | 0.12 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB2 | 20 | 0.12 |
| (1,4682) | 1:54:A:ARG:HB3 | 1:124:A:ALA:HB3 | 20 | 0.12 |
| (1,4676) | 1:54:A:ARG:HB2 | 1:125:A:PHE:H | 1 | 0.12 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 1 | 0.12 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 14 | 0.12 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 3 | 0.12 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 3 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 3 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 3 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 3 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 3 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 14 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 14 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 14 | 0.12 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 14 | 0.12 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB2 | 10 | 0.12 |
| (1,4465) | 1:132:A:LYS:H | 1:132:A:LYS:HB3 | 10 | 0.12 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 15 | 0.12 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 15 | 0.12 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 18 | 0.12 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 18 | 0.12 |
| (1,4427) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 18 | 0.12 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE1 | 18 | 0.12 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE2 | 18 | 0.12 |
| (1,4427) | 1:129:A:GLN:HB3 | 1:130:A:MET:HE3 | 18 | 0.12 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 3 | 0.12 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 3 | 0.12 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 12 | 0.12 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 12 | 0.12 |
| (1,4399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 13 | 0.12 |
| (1,4399) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 13 | 0.12 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 6 | 0.12 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 6 | 0.12 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 9 | 0.12 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 9 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 2 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 2 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 3 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 3 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 6 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 6 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 7 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 7 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 9 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 9 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 14 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 14 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 15 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 15 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 18 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 18 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE21 | 19 | 0.12 |
| (1,4349) | 1:109:A:GLN:HG2 | 1:109:A:GLN:HE22 | 19 | 0.12 |
| (1,4347) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 7 | 0.12 |
| (1,4347) | 1:109:A:GLN:HB3 | 1:110:A:PHE:H | 7 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 2 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 2 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 2 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 2 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 3 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 3 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 3 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 3 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 5 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 5 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 5 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 5 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 6 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 6 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 6 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 6 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 7 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 7 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 7 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 7 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 8 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 8 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 8 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 8 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 10 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 10 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 10 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 10 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 15 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 15 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 15 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 15 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 16 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 16 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 16 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 16 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 18 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 18 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 18 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 18 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 20 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 20 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 20 | 0.12 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 20 | 0.12 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 16 | 0.12 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 16 | 0.12 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD2 | 4 | 0.12 |
| (1,4189) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HD3 | 4 | 0.12 |
| (1,4187) | 1:95:A:LYS:HA | 1:95:A:LYS:HD2 | 19 | 0.12 |
| (1,4171) | 1:94:A:GLN:HG2 | 1:94:A:GLN:HE21 | 4 | 0.12 |
| (1,4171) | 1:94:A:GLN:HG3 | 1:94:A:GLN:HE21 | 4 | 0.12 |
| (1,4093) | 1:89:A:ILE:HG21 | 1:148:A:GLY:HA3 | 12 | 0.12 |
| (1,4093) | 1:89:A:ILE:HG22 | 1:148:A:GLY:HA3 | 12 | 0.12 |
| (1,4093) | 1:89:A:ILE:HG23 | 1:148:A:GLY:HA3 | 12 | 0.12 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD21 | 19 | 0.12 |
| (1,4069) | 1:86:A:LEU:HD11 | 1:90:A:ASN:HD22 | 19 | 0.12 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD21 | 19 | 0.12 |
| (1,4069) | 1:86:A:LEU:HD12 | 1:90:A:ASN:HD22 | 19 | 0.12 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD21 | 19 | 0.12 |
| (1,4069) | 1:86:A:LEU:HD13 | 1:90:A:ASN:HD22 | 19 | 0.12 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 16 | 0.12 |
| (1,4035) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 16 | 0.12 |
| (1,3979) | 1:77:A:LYS:HB2 | 1:78:A:ILE:H | 18 | 0.12 |
| (1,3979) | 1:77:A:LYS:HB3 | 1:78:A:ILE:H | 18 | 0.12 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 18 | 0.12 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 18 | 0.12 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 7 | 0.12 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 6 | 0.12 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 6 | 0.12 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB2 | 16 | 0.12 |
| (1,3909) | 1:71:A:SER:HA | 1:71:A:SER:HB3 | 16 | 0.12 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 3 | 0.12 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 3 | 0.12 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB2 | 17 | 0.12 |
| (1,3907) | 1:71:A:SER:H | 1:71:A:SER:HB3 | 17 | 0.12 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB2 | 15 | 0.12 |
| (1,3865) | 1:66:A:GLN:H | 1:67:A:SER:HB3 | 15 | 0.12 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 10 | 0.12 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 10 | 0.12 |
| (1,3845) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 20 | 0.12 |
| (1,3845) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 20 | 0.12 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 19 | 0.12 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 19 | 0.12 |
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 9 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3659) | 1:46:A:LYS:HA | 1:46:A:LYS:HB3 | 9 | 0.12 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 20 | 0.12 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 20 | 0.12 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 4 | 0.12 |
| (1,3513) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 4 | 0.12 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 6 | 0.12 |
| (1,3493) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 6 | 0.12 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB1 | 4 | 0.12 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB2 | 4 | 0.12 |
| (1,3459) | 1:28:A:ILE:HG21 | 1:140:A:ALA:HB3 | 4 | 0.12 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB1 | 4 | 0.12 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB2 | 4 | 0.12 |
| (1,3459) | 1:28:A:ILE:HG22 | 1:140:A:ALA:HB3 | 4 | 0.12 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB1 | 4 | 0.12 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB2 | 4 | 0.12 |
| (1,3459) | 1:28:A:ILE:HG23 | 1:140:A:ALA:HB3 | 4 | 0.12 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG21 | 6 | 0.12 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG22 | 6 | 0.12 |
| (1,3373) | 1:158:A:ILE:H | 1:158:A:ILE:HG23 | 6 | 0.12 |
| (1,3275) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 2 | 0.12 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD11 | 6 | 0.12 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD12 | 6 | 0.12 |
| (1,3221) | 1:62:A:VAL:HB | 1:89:A:ILE:HD13 | 6 | 0.12 |
| (1,3169) | 1:69:A:ARG:H | 1:69:A:ARG:HB2 | 17 | 0.12 |
| (1,3155) | 1:60:A:LEU:HD11 | 1:106:A:LEU:HB3 | 14 | 0.12 |
| (1,3155) | 1:60:A:LEU:HD12 | 1:106:A:LEU:HB3 | 14 | 0.12 |
| (1,3155) | 1:60:A:LEU:HD13 | 1:106:A:LEU:HB3 | 14 | 0.12 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 8 | 0.12 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 8 | 0.12 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 2 | 0.12 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 2 | 0.12 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 8 | 0.12 |
| (1,3127) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 8 | 0.12 |
| (1,3071) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HB3 | 15 | 0.12 |
| (1,3041) | 1:36:A:ARG:HA | 1:37:A:PRO:HD2 | 12 | 0.12 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 17 | 0.12 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 17 | 0.12 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 8 | 0.12 |
| (1,2969) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HA | 20 | 0.12 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 17 | 0.12 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 4 | 0.12 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 20 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 5 | 0.12 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 5 | 0.12 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 5 | 0.12 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG21 | 7 | 0.12 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG22 | 7 | 0.12 |
| (1,2901) | 1:29:A:THR:HA | 1:29:A:THR:HG23 | 7 | 0.12 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 13 | 0.12 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 13 | 0.12 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 13 | 0.12 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD11 | 2 | 0.12 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD12 | 2 | 0.12 |
| (1,2873) | 1:28:A:ILE:HB | 1:28:A:ILE:HD13 | 2 | 0.12 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 2 | 0.12 |
| (1,2871) | 1:28:A:ILE:HB | 1:28:A:ILE:HG13 | 5 | 0.12 |
| (1,2805) | 1:26:A:ASN:H | 1:31:A:ALA:H | 1 | 0.12 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 4 | 0.12 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 16 | 0.12 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 20 | 0.12 |
| (1,2683) | 1:22:A:VAL:HG11 | 1:23:A:TYR:H | 2 | 0.12 |
| (1,2683) | 1:22:A:VAL:HG12 | 1:23:A:TYR:H | 2 | 0.12 |
| (1,2683) | 1:22:A:VAL:HG13 | 1:23:A:TYR:H | 2 | 0.12 |
| (1,2655) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 13 | 0.12 |
| (1,2645) | 1:21:A:ARG:H | 1:21:A:ARG:HB2 | 13 | 0.12 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 6 | 0.12 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 6 | 0.12 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 10 | 0.12 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 10 | 0.12 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 11 | 0.12 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 11 | 0.12 |
| (1,2595) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 3 | 0.12 |
| (1,2563) | 1:14:A:ARG:HB2 | 1:23:A:TYR:H | 13 | 0.12 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG11 | 14 | 0.12 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG12 | 14 | 0.12 |
| (1,2549) | 1:14:A:ARG:H | 1:22:A:VAL:HG13 | 14 | 0.12 |
| (1,2545) | 1:14:A:ARG:H | 1:14:A:ARG:HG2 | 19 | 0.12 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 1 | 0.12 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 1 | 0.12 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 18 | 0.12 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 18 | 0.12 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG11 | 20 | 0.12 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG12 | 20 | 0.12 |
| (1,2531) | 1:13:A:LYS:HD2 | 1:22:A:VAL:HG13 | 20 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE2 | 15 | 0.12 |
| (1,2529) | 1:13:A:LYS:HD2 | 1:13:A:LYS:HE3 | 15 | 0.12 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG2 | 2 | 0.12 |
| (1,2513) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HG3 | 2 | 0.12 |
| (1,2483) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 14 | 0.12 |
| (1,2481) | 1:12:A:GLU:HB3 | 1:13:A:LYS:H | 4 | 0.12 |
| (1,2477) | 1:12:A:GLU:H | 1:12:A:GLU:HG2 | 5 | 0.12 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB1 | 10 | 0.12 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB2 | 10 | 0.12 |
| (1,2473) | 1:11:A:TRP:HH2 | 1:31:A:ALA:HB3 | 10 | 0.12 |
| (1,2469) | 1:11:A:TRP:HH2 | 1:26:A:ASN:HD21 | 8 | 0.12 |
| (1,2425) | 1:11:A:TRP:HA | 1:11:A:TRP:HB3 | 3 | 0.12 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 3 | 0.12 |
| (1,2397) | 1:9:A:PRO:HA | 1:11:A:TRP:H | 6 | 0.12 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 7 | 0.12 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 7 | 0.12 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 7 | 0.12 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD11 | 20 | 0.12 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD12 | 20 | 0.12 |
| (1,2367) | 1:7:A:LEU:HB3 | 1:7:A:LEU:HD13 | 20 | 0.12 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 4 | 0.12 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 4 | 0.12 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 4 | 0.12 |
| (1,2343) | 1:7:A:LEU:H | 1:7:A:LEU:HB2 | 1 | 0.12 |
| (1,2313) | 1:5:A:GLU:HA | 1:6:A:LYS:H | 17 | 0.12 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 14 | 0.12 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 13 | 0.12 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 18 | 0.12 |
| (1,2301) | 1:4:A:GLU:HA | 1:4:A:GLU:HB2 | 19 | 0.12 |
| (1,2295) | 1:4:A:GLU:H | 1:4:A:GLU:HB2 | 2 | 0.12 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 8 | 0.12 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 11 | 0.12 |
| (1,2245) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 2 | 0.12 |
| (1,2245) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 8 | 0.12 |
| (1,2245) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 9 | 0.12 |
| (1,2245) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 14 | 0.12 |
| (1,2245) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 15 | 0.12 |
| (1,2245) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 16 | 0.12 |
| (1,2245) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 20 | 0.12 |
| (1,2243) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 3 | 0.12 |
| (1,2243) | 1:1:A:MET:HA | 1:1:A:MET:HB2 | 11 | 0.12 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 5 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 16 | 0.12 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 7 | 0.12 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 7 | 0.12 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 7 | 0.12 |
| (1,2209) | 1:160:A:LEU:HD11 | 1:162:A:THR:HA | 13 | 0.12 |
| (1,2209) | 1:160:A:LEU:HD12 | 1:162:A:THR:HA | 13 | 0.12 |
| (1,2209) | 1:160:A:LEU:HD13 | 1:162:A:THR:HA | 13 | 0.12 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG21 | 15 | 0.12 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG22 | 15 | 0.12 |
| (1,2135) | 1:138:A:SER:H | 1:159:A:ILE:HG23 | 15 | 0.12 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 17 | 0.12 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 19 | 0.12 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG21 | 15 | 0.12 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG22 | 15 | 0.12 |
| (1,2095) | 1:158:A:ILE:HA | 1:158:A:ILE:HG23 | 15 | 0.12 |
| (1,2065) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 13 | 0.12 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 5 | 0.12 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 5 | 0.12 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 5 | 0.12 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG21 | 12 | 0.12 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG22 | 12 | 0.12 |
| (1,1931) | 1:148:A:GLY:H | 1:150:A:VAL:HG23 | 12 | 0.12 |
| (1,1925) | 1:147:A:SER:HB2 | 1:159:A:ILE:H | 7 | 0.12 |
| (1,1925) | 1:147:A:SER:HB3 | 1:159:A:ILE:H | 7 | 0.12 |
| (1,1895) | 1:146:A:MET:H | 1:146:A:MET:HG3 | 14 | 0.12 |
| (1,1873) | 1:146:A:MET:HA | 1:146:A:MET:HB2 | 6 | 0.12 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 18 | 0.12 |
| (1,1853) | 1:145:A:GLU:HG2 | 1:146:A:MET:H | 15 | 0.12 |
| (1,1853) | 1:145:A:GLU:HG3 | 1:146:A:MET:H | 15 | 0.12 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 17 | 0.12 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 17 | 0.12 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 10 | 0.12 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 10 | 0.12 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG2 | 9 | 0.12 |
| (1,1781) | 1:142:A:ARG:H | 1:142:A:ARG:HG3 | 9 | 0.12 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG2 | 18 | 0.12 |
| (1,1771) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HG3 | 18 | 0.12 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG2 | 18 | 0.12 |
| (1,1771) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HG3 | 18 | 0.12 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG2 | 18 | 0.12 |
| (1,1771) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HG3 | 18 | 0.12 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 14 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 14 | 0.12 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 14 | 0.12 |
| (1,1763) | 1:141:A:LEU:HD11 | 1:145:A:GLU:H | 1 | 0.12 |
| (1,1763) | 1:141:A:LEU:HD12 | 1:145:A:GLU:H | 1 | 0.12 |
| (1,1763) | 1:141:A:LEU:HD13 | 1:145:A:GLU:H | 1 | 0.12 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 2 | 0.12 |
| (1,1681) | 1:138:A:SER:H | 1:139:A:PHE:H | 9 | 0.12 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 2 | 0.12 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 2 | 0.12 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 13 | 0.12 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 13 | 0.12 |
| (1,1639) | 1:136:A:ASP:H | 1:137:A:ALA:H | 16 | 0.12 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 14 | 0.12 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 14 | 0.12 |
| (1,1599) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 14 | 0.12 |
| (1,1589) | 1:134:A:PHE:H | 1:135:A:GLU:H | 6 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 3 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 3 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 3 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 3 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 14 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 14 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 14 | 0.12 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 14 | 0.12 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 6 | 0.12 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 6 | 0.12 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG2 | 17 | 0.12 |
| (1,1519) | 1:131:A:GLN:HB3 | 1:131:A:GLN:HG3 | 17 | 0.12 |
| (1,1505) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 11 | 0.12 |
| (1,1505) | 1:131:A:GLN:HA | 1:131:A:GLN:HB3 | 17 | 0.12 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 8 | 0.12 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 8 | 0.12 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE1 | 18 | 0.12 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE2 | 18 | 0.12 |
| (1,1487) | 1:130:A:MET:HB3 | 1:130:A:MET:HE3 | 18 | 0.12 |
| (1,1435) | 1:129:A:GLN:H | 1:129:A:GLN:HB2 | 1 | 0.12 |
| (1,1423) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD2 | 17 | 0.12 |
| (1,1423) | 1:127:A:ARG:HG3 | 1:127:A:ARG:HD3 | 17 | 0.12 |
| (1,1367) | 1:126:A:SER:H | 1:126:A:SER:HB2 | 17 | 0.12 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD1 | 2 | 0.12 |
| (1,1347) | 1:125:A:PHE:H | 1:125:A:PHE:HD2 | 2 | 0.12 |
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD1 | 19 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1345) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 19 | 0.12 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD1 | 19 | 0.12 |
| (1,1345) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HD2 | 19 | 0.12 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD1 | 19 | 0.12 |
| (1,1345) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HD2 | 19 | 0.12 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 1 | 0.12 |
| (1,1323) | 1:124:A:ALA:HB1 | 1:125:A:PHE:H | 11 | 0.12 |
| (1,1323) | 1:124:A:ALA:HB2 | 1:125:A:PHE:H | 11 | 0.12 |
| (1,1323) | 1:124:A:ALA:HB3 | 1:125:A:PHE:H | 11 | 0.12 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 4 | 0.12 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 4 | 0.12 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 4 | 0.12 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB1 | 9 | 0.12 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB2 | 9 | 0.12 |
| (1,1311) | 1:124:A:ALA:H | 1:124:A:ALA:HB3 | 9 | 0.12 |
| (1,1255) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 6 | 0.12 |
| (1,1255) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 6 | 0.12 |
| (1,1255) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 13 | 0.12 |
| (1,1255) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 13 | 0.12 |
| (1,1243) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD3 | 15 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 1 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 3 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 5 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 6 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 7 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 8 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 9 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 10 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 11 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 12 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 13 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 14 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 15 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 17 | 0.12 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 20 | 0.12 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB1 | 9 | 0.12 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB2 | 9 | 0.12 |
| (1,1179) | 1:117:A:LYS:H | 1:118:A:ALA:HB3 | 9 | 0.12 |
| (1,1159) | 1:116:A:ALA:H | 1:117:A:LYS:H | 5 | 0.12 |
| (1,1137) | 1:115:A:SER:H | 1:116:A:ALA:H | 3 | 0.12 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 10 | 0.12 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 12 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 16 | 0.12 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 5 | 0.12 |
| (1,1061) | 1:109:A:GLN:HB2 | 1:110:A:PHE:H | 8 | 0.12 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 4 | 0.12 |
| (1,1051) | 1:109:A:GLN:HA | 1:109:A:GLN:HB3 | 5 | 0.12 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 6 | 0.12 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 1 | 0.12 |
| (1,973) | 1:101:A:GLU:HB3 | 1:106:A:LEU:HG | 3 | 0.12 |
| (1,949) | 1:106:A:LEU:H | 1:107:A:ALA:H | 20 | 0.12 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 5 | 0.12 |
| (1,919) | 1:105:A:SER:H | 1:106:A:LEU:H | 11 | 0.12 |
| (1,913) | 1:105:A:SER:H | 1:105:A:SER:HA | 2 | 0.12 |
| (1,913) | 1:105:A:SER:H | 1:105:A:SER:HA | 13 | 0.12 |
| (1,907) | 1:104:A:GLU:HB3 | 1:105:A:SER:H | 15 | 0.12 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 16 | 0.12 |
| (1,889) | 1:104:A:GLU:HA | 1:107:A:ALA:H | 20 | 0.12 |
| (1,853) | 1:96:A:ILE:HD11 | 1:103:A:PHE:HB2 | 16 | 0.12 |
| (1,853) | 1:96:A:ILE:HD12 | 1:103:A:PHE:HB2 | 16 | 0.12 |
| (1,853) | 1:96:A:ILE:HD13 | 1:103:A:PHE:HB2 | 16 | 0.12 |
| (1,833) | 1:102:A:ASP:HB3 | 1:103:A:PHE:H | 12 | 0.12 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 1 | 0.12 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 1 | 0.12 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 19 | 0.12 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 19 | 0.12 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 6 | 0.12 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 6 | 0.12 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 14 | 0.12 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 14 | 0.12 |
| (1,799) | 1:101:A:GLU:HB2 | 1:102:A:ASP:H | 17 | 0.12 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 2 | 0.12 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 2 | 0.12 |
| (1,791) | 1:101:A:GLU:H | 1:101:A:GLU:HB3 | 7 | 0.12 |
| (1,775) | 1:100:A:GLU:H | 1:101:A:GLU:H | 14 | 0.12 |
| (1,765) | 1:99:A:GLY:HA2 | 1:100:A:GLU:H | 7 | 0.12 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE1 | 7 | 0.12 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE2 | 7 | 0.12 |
| (1,743) | 1:97:A:LYS:HE2 | 1:146:A:MET:HE3 | 7 | 0.12 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE1 | 7 | 0.12 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE2 | 7 | 0.12 |
| (1,743) | 1:97:A:LYS:HE3 | 1:146:A:MET:HE3 | 7 | 0.12 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE1 | 16 | 0.12 |
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE2 | 16 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,737) | 1:97:A:LYS:HG3 | 1:146:A:MET:HE3 | 16 | 0.12 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE1 | 7 | 0.12 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE2 | 7 | 0.12 |
| (1,721) | 1:97:A:LYS:H | 1:146:A:MET:HE3 | 7 | 0.12 |
| (1,693) | 1:96:A:ILE:HG21 | 1:99:A:GLY:H | 13 | 0.12 |
| (1,693) | 1:96:A:ILE:HG22 | 1:99:A:GLY:H | 13 | 0.12 |
| (1,693) | 1:96:A:ILE:HG23 | 1:99:A:GLY:H | 13 | 0.12 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 7 | 0.12 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 7 | 0.12 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 7 | 0.12 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 16 | 0.12 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 16 | 0.12 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 16 | 0.12 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG21 | 12 | 0.12 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG22 | 12 | 0.12 |
| (1,683) | 1:93:A:ILE:HA | 1:96:A:ILE:HG23 | 12 | 0.12 |
| (1,621) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HG3 | 11 | 0.12 |
| (1,595) | 1:94:A:GLN:H | 1:94:A:GLN:HB3 | 1 | 0.12 |
| (1,577) | 1:93:A:ILE:HA | 1:93:A:ILE:HG12 | 15 | 0.12 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 2 | 0.12 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 2 | 0.12 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 2 | 0.12 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 5 | 0.12 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 5 | 0.12 |
| (1,551) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 5 | 0.12 |
| (1,487) | 1:90:A:ASN:HA | 1:93:A:ILE:H | 4 | 0.12 |
| (1,474) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HA | 20 | 0.12 |
| (1,474) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HA | 20 | 0.12 |
| (1,474) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HA | 20 | 0.12 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 2 | 0.12 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 2 | 0.12 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 2 | 0.12 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 9 | 0.12 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 9 | 0.12 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 9 | 0.12 |
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 16 | 0.12 |
| (1,409) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HG | 6 | 0.12 |
| (1,409) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HG | 6 | 0.12 |
| (1,409) | 1:86:A:LEU:HB2 | 1:86:A:LEU:HG | 11 | 0.12 |
| (1,409) | 1:86:A:LEU:HB3 | 1:86:A:LEU:HG | 11 | 0.12 |
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 10 | 0.12 |
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 10 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB2 | 12 | 0.12 |
| (1,392) | 1:86:A:LEU:H | 1:86:A:LEU:HB3 | 12 | 0.12 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 12 | 0.12 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 12 | 0.12 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 12 | 0.12 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 12 | 0.12 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 12 | 0.12 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 12 | 0.12 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 20 | 0.12 |
| (1,362) | 1:83:A:GLU:H | 1:84:A:GLU:H | 7 | 0.12 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB2 | 2 | 0.12 |
| (1,360) | 1:83:A:GLU:H | 1:83:A:GLU:HB3 | 2 | 0.12 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB2 | 20 | 0.12 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB3 | 20 | 0.12 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB1 | 14 | 0.12 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB2 | 14 | 0.12 |
| (1,321) | 1:80:A:ARG:HD3 | 1:85:A:ALA:HB3 | 14 | 0.12 |
| (1,303) | 1:80:A:ARG:H | 1:80:A:ARG:HA | 3 | 0.12 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 9 | 0.12 |
| (1,291) | 1:72:A:SER:H | 1:78:A:ILE:HG12 | 20 | 0.12 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG21 | 18 | 0.12 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG22 | 18 | 0.12 |
| (1,276) | 1:78:A:ILE:HA | 1:78:A:ILE:HG23 | 18 | 0.12 |
| (1,254) | 1:76:A:GLU:HA | 1:77:A:LYS:H | 8 | 0.12 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 16 | 0.12 |
| (1,238) | 1:74:A:ARG:HA | 1:75:A:GLN:H | 11 | 0.12 |
| (1,233) | 1:74:A:ARG:HA | 1:74:A:ARG:HG2 | 1 | 0.12 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 4 | 0.12 |
| (1,228) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 15 | 0.12 |
| (1,216) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 5 | 0.12 |
| (1,209) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 10 | 0.12 |
| (1,204) | 1:71:A:SER:HA | 1:72:A:SER:H | 12 | 0.12 |
| (1,182) | 1:66:A:GLN:HB3 | 1:67:A:SER:H | 11 | 0.12 |
| (1,164) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 7 | 0.12 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 11 | 0.12 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 17 | 0.12 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 17 | 0.12 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 17 | 0.12 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG21 | 18 | 0.12 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG22 | 18 | 0.12 |
| (1,140) | 1:62:A:VAL:H | 1:62:A:VAL:HG23 | 18 | 0.12 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 15 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 15 | 0.12 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 15 | 0.12 |
| (1,135) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 15 | 0.12 |
| (1,135) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 15 | 0.12 |
| (1,135) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 15 | 0.12 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 6 | 0.12 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 6 | 0.12 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 6 | 0.12 |
| (1,123) | 1:60:A:LEU:HD21 | 1:111:A:SER:H | 11 | 0.12 |
| (1,123) | 1:60:A:LEU:HD22 | 1:111:A:SER:H | 11 | 0.12 |
| (1,123) | 1:60:A:LEU:HD23 | 1:111:A:SER:H | 11 | 0.12 |
| (1,107) | 1:60:A:LEU:H | 1:158:A:ILE:H | 12 | 0.12 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 20 | 0.12 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 16 | 0.12 |
| (1,47) | 1:55:A:VAL:H | 1:56:A:ARG:H | 9 | 0.12 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 3 | 0.12 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 3 | 0.12 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 3 | 0.12 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 3 | 0.12 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD2 | 20 | 0.12 |
| (1,43) | 1:54:A:ARG:HB2 | 1:54:A:ARG:HD3 | 20 | 0.12 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD2 | 20 | 0.12 |
| (1,43) | 1:54:A:ARG:HB3 | 1:54:A:ARG:HD3 | 20 | 0.12 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 1 | 0.12 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 14 | 0.12 |
| (1,25) | 1:53:A:ALA:H | 1:53:A:ALA:HA | 13 | 0.12 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 16 | 0.12 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 12 | 0.12 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 12 | 0.12 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG2 | 7 | 0.12 |
| (1,2) | 1:49:A:GLN:H | 1:49:A:GLN:HG3 | 7 | 0.12 |
| (4,252) | 1:15:A:MET:CB | 1:147:A:SER:H | 4 | 0.11 |
| (3,857) | 1:66:A:GLN:HE21 | 1:84:A:GLU:H | 15 | 0.11 |
| (3,857) | 1:66:A:GLN:HE22 | 1:84:A:GLU:H | 15 | 0.11 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG2 | 20 | 0.11 |
| (3,809) | 1:56:A:ARG:H | 1:161:A:ARG:HG3 | 20 | 0.11 |
| (3,796) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG2 | 20 | 0.11 |
| (3,796) | 1:34:A:TRP:HE3 | 1:35:A:GLU:HG3 | 20 | 0.11 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 11 | 0.11 |
| (3,630) | 1:127:A:ARG:HD2 | 1:139:A:PHE:HZ | 1 | 0.11 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE1 | 15 | 0.11 |
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE2 | 15 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,532) | 1:93:A:ILE:HB | 1:146:A:MET:HE3 | 15 | 0.11 |
| (3,502) | 1:87:A:GLU:H | 1:90:A:ASN:HB2 | 19 | 0.11 |
| (3,383) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 1 | 0.11 |
| (3,383) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 1 | 0.11 |
| (3,383) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 1 | 0.11 |
| (3,383) | 1:60:A:LEU:HD21 | 1:106:A:LEU:H | 9 | 0.11 |
| (3,383) | 1:60:A:LEU:HD22 | 1:106:A:LEU:H | 9 | 0.11 |
| (3,383) | 1:60:A:LEU:HD23 | 1:106:A:LEU:H | 9 | 0.11 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG11 | 14 | 0.11 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG12 | 14 | 0.11 |
| (3,378) | 1:60:A:LEU:HD11 | 1:62:A:VAL:HG13 | 14 | 0.11 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG11 | 14 | 0.11 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG12 | 14 | 0.11 |
| (3,378) | 1:60:A:LEU:HD12 | 1:62:A:VAL:HG13 | 14 | 0.11 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG11 | 14 | 0.11 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG12 | 14 | 0.11 |
| (3,378) | 1:60:A:LEU:HD13 | 1:62:A:VAL:HG13 | 14 | 0.11 |
| (3,274) | 1:25:A:PHE:HE1 | 1:33:A:GLN:H | 11 | 0.11 |
| (3,274) | 1:25:A:PHE:HE2 | 1:33:A:GLN:H | 11 | 0.11 |
| (3,254) | 1:22:A:VAL:HG21 | 1:24:A:TYR:H | 20 | 0.11 |
| (3,254) | 1:22:A:VAL:HG22 | 1:24:A:TYR:H | 20 | 0.11 |
| (3,254) | 1:22:A:VAL:HG23 | 1:24:A:TYR:H | 20 | 0.11 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 2 | 0.11 |
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 2 | 0.11 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 2 | 0.11 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 6 | 0.11 |
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 6 | 0.11 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 6 | 0.11 |
| (3,243) | 1:15:A:MET:HE1 | 1:21:A:ARG:HD3 | 17 | 0.11 |
| (3,243) | 1:15:A:MET:HE2 | 1:21:A:ARG:HD3 | 17 | 0.11 |
| (3,243) | 1:15:A:MET:HE3 | 1:21:A:ARG:HD3 | 17 | 0.11 |
| (3,127) | 1:33:A:GLN:HE21 | 1:37:A:PRO:HB2 | 15 | 0.11 |
| (3,75) | 1:130:A:MET:HB2 | 1:136:A:ASP:H | 16 | 0.11 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 17 | 0.11 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 17 | 0.11 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 17 | 0.11 |
| (3,20) | 1:82:A:LYS:HG3 | 1:85:A:ALA:H | 5 | 0.11 |
| (3,5) | 1:55:A:VAL:HG21 | 1:138:A:SER:H | 9 | 0.11 |
| (3,5) | 1:55:A:VAL:HG22 | 1:138:A:SER:H | 9 | 0.11 |
| (3,5) | 1:55:A:VAL:HG23 | 1:138:A:SER:H | 9 | 0.11 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 2 | 0.11 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 2 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 5 | 0.11 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 5 | 0.11 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 8 | 0.11 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 8 | 0.11 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 1 | 0.11 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 1 | 0.11 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA2 | 17 | 0.11 |
| (1,9555) | 1:144:A:GLY:H | 1:144:A:GLY:HA3 | 17 | 0.11 |
| (1,9534) | 1:142:A:ARG:HB2 | 1:143:A:THR:H | 3 | 0.11 |
| (1,9534) | 1:142:A:ARG:HB3 | 1:143:A:THR:H | 3 | 0.11 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB2 | 2 | 0.11 |
| (1,9494) | 1:134:A:PHE:H | 1:134:A:PHE:HB3 | 2 | 0.11 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG21 | 6 | 0.11 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG22 | 6 | 0.11 |
| (1,9487) | 1:133:A:PRO:HB2 | 1:152:A:THR:HG23 | 6 | 0.11 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG21 | 6 | 0.11 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG22 | 6 | 0.11 |
| (1,9487) | 1:133:A:PRO:HB3 | 1:152:A:THR:HG23 | 6 | 0.11 |
| (1,9438) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 11 | 0.11 |
| (1,9438) | 1:129:A:GLN:HB3 | 1:130:A:MET:H | 11 | 0.11 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB2 | 3 | 0.11 |
| (1,9407) | 1:126:A:SER:H | 1:129:A:GLN:HB3 | 3 | 0.11 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD2 | 6 | 0.11 |
| (1,9311) | 1:105:A:SER:HA | 1:119:A:ARG:HD3 | 6 | 0.11 |
| (1,9186) | 1:94:A:GLN:HB2 | 1:97:A:LYS:HG2 | 15 | 0.11 |
| (1,9186) | 1:94:A:GLN:HB3 | 1:97:A:LYS:HG2 | 15 | 0.11 |
| (1,9184) | 1:94:A:GLN:HB2 | 1:96:A:ILE:H | 18 | 0.11 |
| (1,9184) | 1:94:A:GLN:HB3 | 1:96:A:ILE:H | 18 | 0.11 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB2 | 9 | 0.11 |
| (1,9165) | 1:93:A:ILE:HG13 | 1:146:A:MET:HB3 | 9 | 0.11 |
| (1,9071) | 1:83:A:GLU:HB2 | 1:87:A:GLU:H | 16 | 0.11 |
| (1,9071) | 1:83:A:GLU:HB3 | 1:87:A:GLU:H | 16 | 0.11 |
| (1,8973) | 1:75:A:GLN:H | 1:75:A:GLN:HE21 | 4 | 0.11 |
| (1,8973) | 1:75:A:GLN:H | 1:75:A:GLN:HE22 | 4 | 0.11 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 10 | 0.11 |
| (1,8945) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 10 | 0.11 |
| (1,8922) | 1:68:A:ARG:HB2 | 1:69:A:ARG:H | 8 | 0.11 |
| (1,8922) | 1:68:A:ARG:HB3 | 1:69:A:ARG:H | 8 | 0.11 |
| (1,8877) | 1:63:A:LYS:HD2 | 1:64:A:HIS:H | 2 | 0.11 |
| (1,8877) | 1:63:A:LYS:HD3 | 1:64:A:HIS:H | 2 | 0.11 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB2 | 1 | 0.11 |
| (1,8734) | 1:52:A:PRO:HB2 | 1:54:A:ARG:HB3 | 1 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD2 | 11 | 0.11 |
| (1,8695) | 1:46:A:LYS:HB2 | 1:46:A:LYS:HD3 | 11 | 0.11 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD2 | 11 | 0.11 |
| (1,8695) | 1:46:A:LYS:HB3 | 1:46:A:LYS:HD3 | 11 | 0.11 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 8 | 0.11 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 8 | 0.11 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD2 | 13 | 0.11 |
| (1,8693) | 1:46:A:LYS:HA | 1:46:A:LYS:HD3 | 13 | 0.11 |
| (1,8673) | 1:40:A:ASN:HB2 | 1:41:A:SER:HA | 10 | 0.11 |
| (1,8673) | 1:40:A:ASN:HB3 | 1:41:A:SER:HA | 10 | 0.11 |
| (1,8620) | 1:15:A:MET:HG2 | 1:16:A:SER:H | 2 | 0.11 |
| (1,8620) | 1:15:A:MET:HG3 | 1:16:A:SER:H | 2 | 0.11 |
| (1,8597) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 14 | 0.11 |
| (1,8597) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 14 | 0.11 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 9 | 0.11 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 9 | 0.11 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 12 | 0.11 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 12 | 0.11 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 14 | 0.11 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 14 | 0.11 |
| (1,8588) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG3 | 20 | 0.11 |
| (1,8588) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 20 | 0.11 |
| (1,8531) | 1:3:A:ASP:H | 1:3:A:ASP:HB2 | 1 | 0.11 |
| (1,8531) | 1:3:A:ASP:H | 1:3:A:ASP:HB3 | 1 | 0.11 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE1 | 1 | 0.11 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE2 | 1 | 0.11 |
| (1,8313) | 1:130:A:MET:H | 1:130:A:MET:HE3 | 1 | 0.11 |
| (1,8289) | 1:125:A:PHE:HZ | 1:126:A:SER:H | 13 | 0.11 |
| (1,8035) | 1:87:A:GLU:HA | 1:88:A:LEU:HA | 13 | 0.11 |
| (1,7861) | 1:62:A:VAL:HG21 | 1:156:A:ILE:HB | 6 | 0.11 |
| (1,7861) | 1:62:A:VAL:HG22 | 1:156:A:ILE:HB | 6 | 0.11 |
| (1,7861) | 1:62:A:VAL:HG23 | 1:156:A:ILE:HB | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 6 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG11 | 9 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG12 | 9 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD21 | 1:62:A:VAL:HG13 | 9 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG11 | 9 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG12 | 9 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD22 | 1:62:A:VAL:HG13 | 9 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG11 | 9 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG12 | 9 | 0.11 |
| (1,7822) | 1:60:A:LEU:HD23 | 1:62:A:VAL:HG13 | 9 | 0.11 |
| (1,7728) | 1:54:A:ARG:HD2 | 1:57:A:CYS:H | 1 | 0.11 |
| (1,7728) | 1:54:A:ARG:HD3 | 1:57:A:CYS:H | 1 | 0.11 |
| (1,7705) | 1:49:A:GLN:HG2 | 1:51:A:GLU:H | 12 | 0.11 |
| (1,7705) | 1:49:A:GLN:HG3 | 1:51:A:GLU:H | 12 | 0.11 |
| (1,7485) | 1:13:A:LYS:H | 1:13:A:LYS:HG2 | 14 | 0.11 |
| (1,7485) | 1:13:A:LYS:H | 1:13:A:LYS:HG3 | 14 | 0.11 |
| (1,7475) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG3 | 15 | 0.11 |
| (1,7471) | 1:12:A:GLU:H | 1:27:A:HIS:H | 18 | 0.11 |
| (1,7403) | 1:5:A:GLU:H | 1:13:A:LYS:H | 10 | 0.11 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG21 | 10 | 0.11 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG22 | 10 | 0.11 |
| (1,7380) | 1:146:A:MET:HG2 | 1:158:A:ILE:HG23 | 10 | 0.11 |
| (1,7310) | 1:40:A:ASN:HA | 1:42:A:SER:H | 2 | 0.11 |
| (1,7271) | 1:11:A:TRP:HE3 | 1:24:A:TYR:HB2 | 10 | 0.11 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE2 | 15 | 0.11 |
| (1,7217) | 1:13:A:LYS:HB3 | 1:13:A:LYS:HE3 | 15 | 0.11 |
| (1,7174) | 1:104:A:GLU:H | 1:105:A:SER:HB2 | 4 | 0.11 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB2 | 2 | 0.11 |
| (1,7164) | 1:95:A:LYS:HA | 1:100:A:GLU:HB3 | 2 | 0.11 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 6 | 0.11 |
| (1,7132) | 1:89:A:ILE:HA | 1:92:A:TYR:HB2 | 10 | 0.11 |
| (1,7085) | 1:61:A:LEU:HD11 | 1:155:A:GLY:H | 2 | 0.11 |
| (1,7085) | 1:61:A:LEU:HD12 | 1:155:A:GLY:H | 2 | 0.11 |
| (1,7085) | 1:61:A:LEU:HD13 | 1:155:A:GLY:H | 2 | 0.11 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA2 | 13 | 0.11 |
| (1,7071) | 1:47:A:ASN:HD21 | 1:48:A:GLY:HA3 | 13 | 0.11 |
| (1,7059) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 2 | 0.11 |
| (1,7053) | 1:45:A:GLY:HA2 | 1:46:A:LYS:H | 11 | 0.11 |
| (1,7053) | 1:45:A:GLY:HA3 | 1:46:A:LYS:H | 11 | 0.11 |
| (1,7049) | 1:44:A:GLY:HA2 | 1:45:A:GLY:H | 8 | 0.11 |
| (1,7049) | 1:44:A:GLY:HA3 | 1:45:A:GLY:H | 8 | 0.11 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA2 | 19 | 0.11 |
| (1,7047) | 1:44:A:GLY:H | 1:44:A:GLY:HA3 | 19 | 0.11 |
| (1,7045) | 1:43:A:SER:HA | 1:44:A:GLY:H | 6 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 6 | 0.11 |
| (1,7041) | 1:40:A:ASN:HA | 1:44:A:GLY:H | 8 | 0.11 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 15 | 0.11 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 15 | 0.11 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB2 | 18 | 0.11 |
| (1,6979) | 1:35:A:GLU:HA | 1:36:A:ARG:HB3 | 18 | 0.11 |
| (1,6975) | 1:35:A:GLU:H | 1:35:A:GLU:HG3 | 16 | 0.11 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 10 | 0.11 |
| (1,6967) | 1:33:A:GLN:H | 1:34:A:TRP:HZ3 | 15 | 0.11 |
| (1,6963) | 1:23:A:TYR:HB2 | 1:34:A:TRP:HZ3 | 9 | 0.11 |
| (1,6951) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 1 | 0.11 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 3 | 0.11 |
| (1,6917) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 14 | 0.11 |
| (1,6915) | 1:30:A:ASN:H | 1:31:A:ALA:H | 13 | 0.11 |
| (1,6886) | 1:27:A:HIS:H | 1:28:A:ILE:HG13 | 13 | 0.11 |
| (1,6851) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 15 | 0.11 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 9 | 0.11 |
| (1,6807) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 10 | 0.11 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 10 | 0.11 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 12 | 0.11 |
| (1,6776) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 6 | 0.11 |
| (1,6756) | 1:23:A:TYR:HB2 | 1:24:A:TYR:H | 18 | 0.11 |
| (1,6724) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 1 | 0.11 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 13 | 0.11 |
| (1,6705) | 1:16:A:SER:H | 1:17:A:ARG:HA | 20 | 0.11 |
| (1,6686) | 1:15:A:MET:H | 1:23:A:TYR:H | 16 | 0.11 |
| (1,6677) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 15 | 0.11 |
| (1,6672) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 2 | 0.11 |
| (1,6662) | 1:14:A:ARG:H | 1:15:A:MET:H | 8 | 0.11 |
| (1,6652) | 1:13:A:LYS:HG2 | 1:14:A:ARG:H | 15 | 0.11 |
| (1,6652) | 1:13:A:LYS:HG3 | 1:14:A:ARG:H | 15 | 0.11 |
| (1,6628) | 1:12:A:GLU:H | 1:12:A:GLU:HG3 | 6 | 0.11 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 6 | 0.11 |
| (1,6594) | 1:11:A:TRP:HE3 | 1:26:A:ASN:H | 14 | 0.11 |
| (1,6552) | 1:10:A:GLY:H | 1:11:A:TRP:H | 3 | 0.11 |
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 2 | 0.11 |
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 6 | 0.11 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 10 | 0.11 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 18 | 0.11 |
| (1,6392) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 17 | 0.11 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD11 | 20 | 0.11 |
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD12 | 20 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6356) | 1:156:A:ILE:H | 1:156:A:ILE:HD13 | 20 | 0.11 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 12 | 0.11 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 12 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 4 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 4 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 4 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 4 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 4 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 4 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 4 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 4 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 4 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD11 | 12 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD12 | 12 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG11 | 1:159:A:ILE:HD13 | 12 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD11 | 12 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD12 | 12 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG12 | 1:159:A:ILE:HD13 | 12 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD11 | 12 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD12 | 12 | 0.11 |
| (1,6303) | 1:150:A:VAL:HG13 | 1:159:A:ILE:HD13 | 12 | 0.11 |
| (1,6228) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 16 | 0.11 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 20 | 0.11 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 1 | 0.11 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 1 | 0.11 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 14 | 0.11 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 14 | 0.11 |
| (1,6186) | 1:142:A:ARG:HA | 1:143:A:THR:H | 19 | 0.11 |
| (1,6172) | 1:141:A:LEU:HD21 | 1:147:A:SER:H | 7 | 0.11 |
| (1,6172) | 1:141:A:LEU:HD22 | 1:147:A:SER:H | 7 | 0.11 |
| (1,6172) | 1:141:A:LEU:HD23 | 1:147:A:SER:H | 7 | 0.11 |
| (1,6145) | 1:140:A:ALA:H | 1:141:A:LEU:H | 19 | 0.11 |
| (1,6120) | 1:138:A:SER:HB3 | 1:139:A:PHE:H | 16 | 0.11 |
| (1,6107) | 1:138:A:SER:H | 1:138:A:SER:HB3 | 11 | 0.11 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 14 | 0.11 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 14 | 0.11 |
| (1,6097) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 14 | 0.11 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 14 | 0.11 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 14 | 0.11 |
| (1,6097) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 14 | 0.11 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 14 | 0.11 |
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 14 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6097) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 14 | 0.11 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 14 | 0.11 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 14 | 0.11 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 14 | 0.11 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 14 | 0.11 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG21 | 16 | 0.11 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG22 | 16 | 0.11 |
| (1,6057) | 1:134:A:PHE:HB3 | 1:152:A:THR:HG23 | 16 | 0.11 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 19 | 0.11 |
| (1,6004) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 19 | 0.11 |
| (1,6000) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 2 | 0.11 |
| (1,5977) | 1:129:A:GLN:HB2 | 1:130:A:MET:H | 5 | 0.11 |
| (1,5957) | 1:127:A:ARG:HA | 1:128:A:GLY:H | 15 | 0.11 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 3 | 0.11 |
| (1,5927) | 1:55:A:VAL:HG11 | 1:125:A:PHE:HZ | 8 | 0.11 |
| (1,5927) | 1:55:A:VAL:HG12 | 1:125:A:PHE:HZ | 8 | 0.11 |
| (1,5927) | 1:55:A:VAL:HG13 | 1:125:A:PHE:HZ | 8 | 0.11 |
| (1,5914) | 1:125:A:PHE:HA | 1:126:A:SER:H | 19 | 0.11 |
| (1,5900) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 14 | 0.11 |
| (1,5848) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 13 | 0.11 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 11 | 0.11 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG2 | 4 | 0.11 |
| (1,5838) | 1:119:A:ARG:H | 1:119:A:ARG:HG3 | 4 | 0.11 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 2 | 0.11 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 4 | 0.11 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 16 | 0.11 |
| (1,5836) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 18 | 0.11 |
| (1,5817) | 1:117:A:LYS:H | 1:119:A:ARG:H | 6 | 0.11 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB2 | 18 | 0.11 |
| (1,5779) | 1:114:A:SER:H | 1:114:A:SER:HB3 | 18 | 0.11 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB1 | 5 | 0.11 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB2 | 5 | 0.11 |
| (1,5738) | 1:108:A:SER:HA | 1:116:A:ALA:HB3 | 5 | 0.11 |
| (1,5672) | 1:102:A:ASP:H | 1:105:A:SER:HB3 | 16 | 0.11 |
| (1,5667) | 1:105:A:SER:H | 1:106:A:LEU:H | 4 | 0.11 |
| (1,5667) | 1:105:A:SER:H | 1:106:A:LEU:H | 10 | 0.11 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD21 | 13 | 0.11 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD22 | 13 | 0.11 |
| (1,5617) | 1:101:A:GLU:HG2 | 1:106:A:LEU:HD23 | 13 | 0.11 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD21 | 13 | 0.11 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD22 | 13 | 0.11 |
| (1,5617) | 1:101:A:GLU:HG3 | 1:106:A:LEU:HD23 | 13 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 8 | 0.11 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 14 | 0.11 |
| (1,5571) | 1:98:A:SER:H | 1:98:A:SER:HB3 | 17 | 0.11 |
| (1,5546) | 1:96:A:ILE:HD11 | 1:103:A:PHE:H | 20 | 0.11 |
| (1,5546) | 1:96:A:ILE:HD12 | 1:103:A:PHE:H | 20 | 0.11 |
| (1,5546) | 1:96:A:ILE:HD13 | 1:103:A:PHE:H | 20 | 0.11 |
| (1,5492) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 11 | 0.11 |
| (1,5438) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 13 | 0.11 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD11 | 3 | 0.11 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD12 | 3 | 0.11 |
| (1,5428) | 1:92:A:TYR:HB3 | 1:158:A:ILE:HD13 | 3 | 0.11 |
| (1,5415) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 1 | 0.11 |
| (1,5415) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 15 | 0.11 |
| (1,5390) | 1:89:A:ILE:HD11 | 1:158:A:ILE:H | 8 | 0.11 |
| (1,5390) | 1:89:A:ILE:HD12 | 1:158:A:ILE:H | 8 | 0.11 |
| (1,5390) | 1:89:A:ILE:HD13 | 1:158:A:ILE:H | 8 | 0.11 |
| (1,5380) | 1:89:A:ILE:HG21 | 1:149:A:PRO:HB3 | 15 | 0.11 |
| (1,5380) | 1:89:A:ILE:HG22 | 1:149:A:PRO:HB3 | 15 | 0.11 |
| (1,5380) | 1:89:A:ILE:HG23 | 1:149:A:PRO:HB3 | 15 | 0.11 |
| (1,5356) | 1:60:A:LEU:HD21 | 1:89:A:ILE:HA | 19 | 0.11 |
| (1,5356) | 1:60:A:LEU:HD22 | 1:89:A:ILE:HA | 19 | 0.11 |
| (1,5356) | 1:60:A:LEU:HD23 | 1:89:A:ILE:HA | 19 | 0.11 |
| (1,5255) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 11 | 0.11 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 10 | 0.11 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 10 | 0.11 |
| (1,5209) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 10 | 0.11 |
| (1,5153) | 1:82:A:LYS:H | 1:84:A:GLU:H | 7 | 0.11 |
| (1,5118) | 1:80:A:ARG:H | 1:80:A:ARG:HG2 | 11 | 0.11 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD11 | 7 | 0.11 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD12 | 7 | 0.11 |
| (1,5089) | 1:71:A:SER:H | 1:78:A:ILE:HD13 | 7 | 0.11 |
| (1,5083) | 1:71:A:SER:H | 1:78:A:ILE:HG12 | 9 | 0.11 |
| (1,5024) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 20 | 0.11 |
| (1,5000) | 1:73:A:TRP:H | 1:73:A:TRP:HD1 | 3 | 0.11 |
| (1,4984) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 15 | 0.11 |
| (1,4967) | 1:68:A:ARG:HG2 | 1:69:A:ARG:H | 18 | 0.11 |
| (1,4957) | 1:68:A:ARG:H | 1:68:A:ARG:HG3 | 11 | 0.11 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 5 | 0.11 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD11 | 1 | 0.11 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD12 | 1 | 0.11 |
| (1,4921) | 1:64:A:HIS:HE1 | 1:88:A:LEU:HD13 | 1 | 0.11 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 2 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 2 | 0.11 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 2 | 0.11 |
| (1,4867) | 1:62:A:VAL:HG11 | 1:63:A:LYS:H | 12 | 0.11 |
| (1,4867) | 1:62:A:VAL:HG12 | 1:63:A:LYS:H | 12 | 0.11 |
| (1,4867) | 1:62:A:VAL:HG13 | 1:63:A:LYS:H | 12 | 0.11 |
| (1,4814) | 1:60:A:LEU:HD11 | 1:107:A:ALA:H | 7 | 0.11 |
| (1,4814) | 1:60:A:LEU:HD12 | 1:107:A:ALA:H | 7 | 0.11 |
| (1,4814) | 1:60:A:LEU:HD13 | 1:107:A:ALA:H | 7 | 0.11 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 16 | 0.11 |
| (1,4761) | 1:57:A:CYS:HB2 | 1:138:A:SER:HA | 7 | 0.11 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 17 | 0.11 |
| (1,4745) | 1:56:A:ARG:HG2 | 1:123:A:GLY:H | 19 | 0.11 |
| (1,4694) | 1:55:A:VAL:H | 1:56:A:ARG:H | 6 | 0.11 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 11 | 0.11 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 15 | 0.11 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 17 | 0.11 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB1 | 18 | 0.11 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB2 | 18 | 0.11 |
| (1,4660) | 1:53:A:ALA:H | 1:53:A:ALA:HB3 | 18 | 0.11 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 15 | 0.11 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 15 | 0.11 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG12 | 19 | 0.11 |
| (1,4599) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 19 | 0.11 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 16 | 0.11 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 16 | 0.11 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 16 | 0.11 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 16 | 0.11 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 18 | 0.11 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 18 | 0.11 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 18 | 0.11 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 18 | 0.11 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE21 | 10 | 0.11 |
| (1,4447) | 1:131:A:GLN:HB2 | 1:131:A:GLN:HE22 | 10 | 0.11 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 1 | 0.11 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 1 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 2 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 2 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 3 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 3 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 7 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 7 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 14 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 14 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 15 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 15 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE21 | 19 | 0.11 |
| (1,4351) | 1:109:A:GLN:HG3 | 1:109:A:GLN:HE22 | 19 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 1 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 1 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 1 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 1 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 12 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 12 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 12 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 12 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 17 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 17 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 17 | 0.11 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 17 | 0.11 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 2 | 0.11 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 2 | 0.11 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 6 | 0.11 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 6 | 0.11 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB2 | 5 | 0.11 |
| (1,4255) | 1:102:A:ASP:H | 1:102:A:ASP:HB3 | 5 | 0.11 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB2 | 13 | 0.11 |
| (1,4073) | 1:87:A:GLU:H | 1:87:A:GLU:HB3 | 13 | 0.11 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG2 | 2 | 0.11 |
| (1,4037) | 1:83:A:GLU:H | 1:83:A:GLU:HG3 | 2 | 0.11 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG2 | 20 | 0.11 |
| (1,4031) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 20 | 0.11 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB2 | 6 | 0.11 |
| (1,4019) | 1:81:A:THR:HG21 | 1:84:A:GLU:HB3 | 6 | 0.11 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB2 | 6 | 0.11 |
| (1,4019) | 1:81:A:THR:HG22 | 1:84:A:GLU:HB3 | 6 | 0.11 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB2 | 6 | 0.11 |
| (1,4019) | 1:81:A:THR:HG23 | 1:84:A:GLU:HB3 | 6 | 0.11 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB2 | 20 | 0.11 |
| (1,3969) | 1:77:A:LYS:H | 1:77:A:LYS:HB3 | 20 | 0.11 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG2 | 9 | 0.11 |
| (1,3943) | 1:75:A:GLN:HA | 1:75:A:GLN:HG3 | 9 | 0.11 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 16 | 0.11 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 16 | 0.11 |
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB2 | 20 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3939) | 1:74:A:ARG:HA | 1:74:A:ARG:HB3 | 20 | 0.11 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB2 | 2 | 0.11 |
| (1,3935) | 1:74:A:ARG:H | 1:74:A:ARG:HB3 | 2 | 0.11 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 1 | 0.11 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 1 | 0.11 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 5 | 0.11 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 5 | 0.11 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE2 | 5 | 0.11 |
| (1,3821) | 1:61:A:LEU:HD21 | 1:63:A:LYS:HE3 | 5 | 0.11 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE2 | 5 | 0.11 |
| (1,3821) | 1:61:A:LEU:HD22 | 1:63:A:LYS:HE3 | 5 | 0.11 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE2 | 5 | 0.11 |
| (1,3821) | 1:61:A:LEU:HD23 | 1:63:A:LYS:HE3 | 5 | 0.11 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD2 | 14 | 0.11 |
| (1,3743) | 1:56:A:ARG:HB2 | 1:56:A:ARG:HD3 | 14 | 0.11 |
| (1,3665) | 1:46:A:LYS:HB2 | 1:47:A:ASN:H | 14 | 0.11 |
| (1,3665) | 1:46:A:LYS:HB3 | 1:47:A:ASN:H | 14 | 0.11 |
| (1,3633) | 1:35:A:GLU:HG2 | 1:36:A:ARG:H | 11 | 0.11 |
| (1,3633) | 1:35:A:GLU:HG3 | 1:36:A:ARG:H | 11 | 0.11 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 6 | 0.11 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 6 | 0.11 |
| (1,3611) | 1:30:A:ASN:HB2 | 1:30:A:ASN:HD21 | 13 | 0.11 |
| (1,3611) | 1:30:A:ASN:HB3 | 1:30:A:ASN:HD21 | 13 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 1 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 1 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 4 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 4 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 9 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 9 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 14 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 14 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 16 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 16 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 19 | 0.11 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 19 | 0.11 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG11 | 5 | 0.11 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG12 | 5 | 0.11 |
| (1,3561) | 1:15:A:MET:HB2 | 1:22:A:VAL:HG13 | 5 | 0.11 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG11 | 5 | 0.11 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG12 | 5 | 0.11 |
| (1,3561) | 1:15:A:MET:HB3 | 1:22:A:VAL:HG13 | 5 | 0.11 |
| (1,3413) | 1:21:A:ARG:HA | 1:21:A:ARG:HG2 | 1 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 11 | 0.11 |
| (1,3275) | 1:99:A:GLY:HA3 | 1:100:A:GLU:H | 9 | 0.11 |
| (1,3273) | 1:95:A:LYS:HA | 1:100:A:GLU:H | 11 | 0.11 |
| (1,3197) | 1:84:A:GLU:HA | 1:84:A:GLU:HG2 | 15 | 0.11 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG2 | 16 | 0.11 |
| (1,3139) | 1:49:A:GLN:HA | 1:49:A:GLN:HG3 | 16 | 0.11 |
| (1,3133) | 1:49:A:GLN:H | 1:49:A:GLN:HB3 | 6 | 0.11 |
| (1,3105) | 1:46:A:LYS:HA | 1:46:A:LYS:HB2 | 18 | 0.11 |
| (1,3083) | 1:38:A:SER:H | 1:38:A:SER:HB2 | 5 | 0.11 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 13 | 0.11 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 13 | 0.11 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB2 | 19 | 0.11 |
| (1,3027) | 1:36:A:ARG:H | 1:36:A:ARG:HB3 | 19 | 0.11 |
| (1,3011) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 5 | 0.11 |
| (1,3011) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 18 | 0.11 |
| (1,2971) | 1:33:A:GLN:HE22 | 1:37:A:PRO:HA | 1 | 0.11 |
| (1,2941) | 1:26:A:ASN:H | 1:32:A:SER:HA | 4 | 0.11 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 3 | 0.11 |
| (1,2923) | 1:30:A:ASN:HA | 1:31:A:ALA:H | 14 | 0.11 |
| (1,2917) | 1:30:A:ASN:H | 1:31:A:ALA:H | 13 | 0.11 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 10 | 0.11 |
| (1,2881) | 1:28:A:ILE:HG21 | 1:29:A:THR:HA | 2 | 0.11 |
| (1,2881) | 1:28:A:ILE:HG22 | 1:29:A:THR:HA | 2 | 0.11 |
| (1,2881) | 1:28:A:ILE:HG23 | 1:29:A:THR:HA | 2 | 0.11 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG21 | 15 | 0.11 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG22 | 15 | 0.11 |
| (1,2849) | 1:28:A:ILE:H | 1:28:A:ILE:HG23 | 15 | 0.11 |
| (1,2841) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 5 | 0.11 |
| (1,2841) | 1:27:A:HIS:HA | 1:27:A:HIS:HB3 | 19 | 0.11 |
| (1,2837) | 1:27:A:HIS:H | 1:27:A:HIS:HB3 | 15 | 0.11 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB1 | 19 | 0.11 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB2 | 19 | 0.11 |
| (1,2807) | 1:26:A:ASN:H | 1:31:A:ALA:HB3 | 19 | 0.11 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 9 | 0.11 |
| (1,2785) | 1:25:A:PHE:HB2 | 1:26:A:ASN:H | 10 | 0.11 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 10 | 0.11 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 12 | 0.11 |
| (1,2731) | 1:24:A:TYR:HA | 1:25:A:PHE:H | 6 | 0.11 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG11 | 11 | 0.11 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG12 | 11 | 0.11 |
| (1,2679) | 1:13:A:LYS:HD3 | 1:22:A:VAL:HG13 | 11 | 0.11 |
| (1,2671) | 1:22:A:VAL:H | 1:22:A:VAL:HB | 3 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2655) | 1:21:A:ARG:HA | 1:22:A:VAL:H | 1 | 0.11 |
| (1,2637) | 1:15:A:MET:HE1 | 1:20:A:GLY:HA2 | 2 | 0.11 |
| (1,2637) | 1:15:A:MET:HE2 | 1:20:A:GLY:HA2 | 2 | 0.11 |
| (1,2637) | 1:15:A:MET:HE3 | 1:20:A:GLY:HA2 | 2 | 0.11 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 3 | 0.11 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 3 | 0.11 |
| (1,2601) | 1:15:A:MET:HE1 | 1:16:A:SER:H | 11 | 0.11 |
| (1,2601) | 1:15:A:MET:HE2 | 1:16:A:SER:H | 11 | 0.11 |
| (1,2601) | 1:15:A:MET:HE3 | 1:16:A:SER:H | 11 | 0.11 |
| (1,2567) | 1:14:A:ARG:HB3 | 1:14:A:ARG:HD2 | 15 | 0.11 |
| (1,2559) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HD2 | 2 | 0.11 |
| (1,2547) | 1:14:A:ARG:H | 1:15:A:MET:H | 4 | 0.11 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 4 | 0.11 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 4 | 0.11 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE2 | 11 | 0.11 |
| (1,2533) | 1:13:A:LYS:HD3 | 1:13:A:LYS:HE3 | 11 | 0.11 |
| (1,2485) | 1:12:A:GLU:HB3 | 1:12:A:GLU:HG2 | 8 | 0.11 |
| (1,2463) | 1:11:A:TRP:HZ3 | 1:32:A:SER:HA | 6 | 0.11 |
| (1,2443) | 1:8:A:PRO:HG2 | 1:11:A:TRP:HD1 | 12 | 0.11 |
| (1,2415) | 1:10:A:GLY:HA3 | 1:11:A:TRP:H | 3 | 0.11 |
| (1,2403) | 1:10:A:GLY:H | 1:11:A:TRP:H | 3 | 0.11 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD21 | 10 | 0.11 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD22 | 10 | 0.11 |
| (1,2351) | 1:7:A:LEU:H | 1:7:A:LEU:HD23 | 10 | 0.11 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 19 | 0.11 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 19 | 0.11 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 19 | 0.11 |
| (1,2321) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 6 | 0.11 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 10 | 0.11 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 16 | 0.11 |
| (1,2309) | 1:5:A:GLU:HA | 1:5:A:GLU:HB2 | 2 | 0.11 |
| (1,2303) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 5 | 0.11 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 1 | 0.11 |
| (1,2283) | 1:3:A:ASP:HA | 1:3:A:ASP:HB3 | 16 | 0.11 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 3 | 0.11 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 2 | 0.11 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 6 | 0.11 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 8 | 0.11 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 8 | 0.11 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 8 | 0.11 |
| (1,2245) | 1:1:A:MET:HA | 1:1:A:MET:HB3 | 1 | 0.11 |
| (1,2239) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 8 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 2 | 0.11 |
| (1,2227) | 1:162:A:THR:HB | 1:163:A:GLU:H | 20 | 0.11 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 10 | 0.11 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG21 | 5 | 0.11 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG22 | 5 | 0.11 |
| (1,2137) | 1:159:A:ILE:H | 1:159:A:ILE:HG23 | 5 | 0.11 |
| (1,2131) | 1:159:A:ILE:HB | 1:160:A:LEU:H | 10 | 0.11 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD11 | 3 | 0.11 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD12 | 3 | 0.11 |
| (1,2129) | 1:159:A:ILE:HB | 1:159:A:ILE:HD13 | 3 | 0.11 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 18 | 0.11 |
| (1,2107) | 1:158:A:ILE:H | 1:158:A:ILE:HG13 | 20 | 0.11 |
| (1,2097) | 1:158:A:ILE:HA | 1:159:A:ILE:H | 17 | 0.11 |
| (1,2065) | 1:156:A:ILE:HB | 1:156:A:ILE:HG13 | 18 | 0.11 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 9 | 0.11 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 9 | 0.11 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 9 | 0.11 |
| (1,2059) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG12 | 11 | 0.11 |
| (1,2059) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG12 | 11 | 0.11 |
| (1,2059) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG12 | 11 | 0.11 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 15 | 0.11 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 15 | 0.11 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 15 | 0.11 |
| (1,2049) | 1:156:A:ILE:HG21 | 1:156:A:ILE:HG13 | 19 | 0.11 |
| (1,2049) | 1:156:A:ILE:HG22 | 1:156:A:ILE:HG13 | 19 | 0.11 |
| (1,2049) | 1:156:A:ILE:HG23 | 1:156:A:ILE:HG13 | 19 | 0.11 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD11 | 17 | 0.11 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD12 | 17 | 0.11 |
| (1,1869) | 1:146:A:MET:HA | 1:160:A:LEU:HD13 | 17 | 0.11 |
| (1,1855) | 1:146:A:MET:H | 1:146:A:MET:HA | 11 | 0.11 |
| (1,1841) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 4 | 0.11 |
| (1,1841) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 4 | 0.11 |
| (1,1839) | 1:145:A:GLU:HA | 1:145:A:GLU:HB3 | 10 | 0.11 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG2 | 6 | 0.11 |
| (1,1837) | 1:145:A:GLU:H | 1:145:A:GLU:HG3 | 6 | 0.11 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 20 | 0.11 |
| (1,1793) | 1:142:A:ARG:HA | 1:143:A:THR:H | 19 | 0.11 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG2 | 15 | 0.11 |
| (1,1791) | 1:142:A:ARG:HA | 1:142:A:ARG:HG3 | 15 | 0.11 |
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 8 | 0.11 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 8 | 0.11 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 8 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1769) | 1:141:A:LEU:HD21 | 1:145:A:GLU:HB3 | 11 | 0.11 |
| (1,1769) | 1:141:A:LEU:HD22 | 1:145:A:GLU:HB3 | 11 | 0.11 |
| (1,1769) | 1:141:A:LEU:HD23 | 1:145:A:GLU:HB3 | 11 | 0.11 |
| (1,1761) | 1:141:A:LEU:HA | 1:141:A:LEU:HG | 5 | 0.11 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 1 | 0.11 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 14 | 0.11 |
| (1,1627) | 1:135:A:GLU:H | 1:135:A:GLU:HA | 19 | 0.11 |
| (1,1609) | 1:134:A:PHE:HA | 1:134:A:PHE:HB2 | 15 | 0.11 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 16 | 0.11 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 16 | 0.11 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 16 | 0.11 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 16 | 0.11 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 18 | 0.11 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 18 | 0.11 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 18 | 0.11 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 18 | 0.11 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG2 | 19 | 0.11 |
| (1,1501) | 1:131:A:GLN:H | 1:131:A:GLN:HG3 | 19 | 0.11 |
| (1,1497) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 2 | 0.11 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE1 | 18 | 0.11 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE2 | 18 | 0.11 |
| (1,1453) | 1:129:A:GLN:HB2 | 1:130:A:MET:HE3 | 18 | 0.11 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD2 | 17 | 0.11 |
| (1,1421) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 17 | 0.11 |
| (1,1419) | 1:127:A:ARG:HD2 | 1:128:A:GLY:H | 17 | 0.11 |
| (1,1411) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 7 | 0.11 |
| (1,1411) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 8 | 0.11 |
| (1,1411) | 1:127:A:ARG:HG2 | 1:127:A:ARG:HD3 | 16 | 0.11 |
| (1,1397) | 1:127:A:ARG:HB2 | 1:127:A:ARG:HD2 | 13 | 0.11 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 3 | 0.11 |
| (1,1331) | 1:125:A:PHE:HA | 1:126:A:SER:H | 19 | 0.11 |
| (1,1317) | 1:124:A:ALA:HA | 1:125:A:PHE:H | 14 | 0.11 |
| (1,1307) | 1:123:A:GLY:HA2 | 1:124:A:ALA:H | 19 | 0.11 |
| (1,1301) | 1:123:A:GLY:H | 1:123:A:GLY:HA2 | 16 | 0.11 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 7 | 0.11 |
| (1,1277) | 1:122:A:LEU:HA | 1:123:A:GLY:H | 20 | 0.11 |
| (1,1255) | 1:119:A:ARG:HG2 | 1:119:A:ARG:HD3 | 15 | 0.11 |
| (1,1255) | 1:119:A:ARG:HG3 | 1:119:A:ARG:HD3 | 15 | 0.11 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG2 | 7 | 0.11 |
| (1,1245) | 1:105:A:SER:HA | 1:119:A:ARG:HG3 | 7 | 0.11 |
| (1,1225) | 1:119:A:ARG:HA | 1:120:A:GLY:H | 13 | 0.11 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 11 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 2 | 0.11 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 4 | 0.11 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 16 | 0.11 |
| (1,1211) | 1:119:A:ARG:H | 1:119:A:ARG:HA | 18 | 0.11 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 7 | 0.11 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 7 | 0.11 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 7 | 0.11 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 18 | 0.11 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 18 | 0.11 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 18 | 0.11 |
| (1,1187) | 1:117:A:LYS:HB3 | 1:118:A:ALA:H | 20 | 0.11 |
| (1,1181) | 1:117:A:LYS:H | 1:119:A:ARG:H | 6 | 0.11 |
| (1,1127) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 18 | 0.11 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 3 | 0.11 |
| (1,1035) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 18 | 0.11 |
| (1,1019) | 1:108:A:SER:H | 1:108:A:SER:HB3 | 4 | 0.11 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 1 | 0.11 |
| (1,993) | 1:107:A:ALA:H | 1:107:A:ALA:HA | 18 | 0.11 |
| (1,939) | 1:105:A:SER:HB2 | 1:106:A:LEU:H | 4 | 0.11 |
| (1,935) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 13 | 0.11 |
| (1,935) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 17 | 0.11 |
| (1,921) | 1:105:A:SER:HA | 1:106:A:LEU:H | 8 | 0.11 |
| (1,919) | 1:105:A:SER:H | 1:106:A:LEU:H | 4 | 0.11 |
| (1,919) | 1:105:A:SER:H | 1:106:A:LEU:H | 10 | 0.11 |
| (1,913) | 1:105:A:SER:H | 1:105:A:SER:HA | 3 | 0.11 |
| (1,913) | 1:105:A:SER:H | 1:105:A:SER:HA | 7 | 0.11 |
| (1,913) | 1:105:A:SER:H | 1:105:A:SER:HA | 16 | 0.11 |
| (1,913) | 1:105:A:SER:H | 1:105:A:SER:HA | 20 | 0.11 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 6 | 0.11 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 8 | 0.11 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 14 | 0.11 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 15 | 0.11 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 6 | 0.11 |
| (1,885) | 1:104:A:GLU:HA | 1:104:A:GLU:HG3 | 12 | 0.11 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG2 | 3 | 0.11 |
| (1,815) | 1:101:A:GLU:H | 1:101:A:GLU:HG3 | 3 | 0.11 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 10 | 0.11 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 10 | 0.11 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE1 | 16 | 0.11 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE2 | 16 | 0.11 |
| (1,709) | 1:96:A:ILE:HD11 | 1:146:A:MET:HE3 | 16 | 0.11 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE1 | 16 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE2 | 16 | 0.11 |
| (1,709) | 1:96:A:ILE:HD12 | 1:146:A:MET:HE3 | 16 | 0.11 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE1 | 16 | 0.11 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE2 | 16 | 0.11 |
| (1,709) | 1:96:A:ILE:HD13 | 1:146:A:MET:HE3 | 16 | 0.11 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 5 | 0.11 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 5 | 0.11 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 5 | 0.11 |
| (1,689) | 1:96:A:ILE:HG21 | 1:97:A:LYS:H | 17 | 0.11 |
| (1,689) | 1:96:A:ILE:HG22 | 1:97:A:LYS:H | 17 | 0.11 |
| (1,689) | 1:96:A:ILE:HG23 | 1:97:A:LYS:H | 17 | 0.11 |
| (1,685) | 1:96:A:ILE:HG21 | 1:96:A:ILE:HG12 | 13 | 0.11 |
| (1,685) | 1:96:A:ILE:HG22 | 1:96:A:ILE:HG12 | 13 | 0.11 |
| (1,685) | 1:96:A:ILE:HG23 | 1:96:A:ILE:HG12 | 13 | 0.11 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 5 | 0.11 |
| (1,629) | 1:95:A:LYS:HB3 | 1:96:A:ILE:H | 11 | 0.11 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 8 | 0.11 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 8 | 0.11 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 8 | 0.11 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD11 | 9 | 0.11 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD12 | 9 | 0.11 |
| (1,545) | 1:93:A:ILE:HA | 1:93:A:ILE:HD13 | 9 | 0.11 |
| (1,531) | 1:93:A:ILE:H | 1:93:A:ILE:HB | 13 | 0.11 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD1 | 7 | 0.11 |
| (1,509) | 1:60:A:LEU:HD11 | 1:92:A:TYR:HD2 | 7 | 0.11 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD1 | 7 | 0.11 |
| (1,509) | 1:60:A:LEU:HD12 | 1:92:A:TYR:HD2 | 7 | 0.11 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD1 | 7 | 0.11 |
| (1,509) | 1:60:A:LEU:HD13 | 1:92:A:TYR:HD2 | 7 | 0.11 |
| (1,490) | 1:90:A:ASN:HB2 | 1:91:A:GLY:H | 7 | 0.11 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 17 | 0.11 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 17 | 0.11 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 17 | 0.11 |
| (1,478) | 1:89:A:ILE:HG21 | 1:158:A:ILE:HB | 19 | 0.11 |
| (1,478) | 1:89:A:ILE:HG22 | 1:158:A:ILE:HB | 19 | 0.11 |
| (1,478) | 1:89:A:ILE:HG23 | 1:158:A:ILE:HB | 19 | 0.11 |
| (1,466) | 1:89:A:ILE:HB | 1:90:A:ASN:H | 12 | 0.11 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD11 | 5 | 0.11 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD12 | 5 | 0.11 |
| (1,457) | 1:89:A:ILE:H | 1:89:A:ILE:HD13 | 5 | 0.11 |
| (1,443) | 1:88:A:LEU:H | 1:88:A:LEU:HB2 | 17 | 0.11 |
| (1,442) | 1:85:A:ALA:HA | 1:88:A:LEU:HB2 | 10 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,437) | 1:88:A:LEU:HA | 1:88:A:LEU:HG | 13 | 0.11 |
| (1,432) | 1:88:A:LEU:H | 1:88:A:LEU:HA | 1 | 0.11 |
| (1,432) | 1:88:A:LEU:H | 1:88:A:LEU:HA | 15 | 0.11 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 13 | 0.11 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 13 | 0.11 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 13 | 0.11 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 13 | 0.11 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 13 | 0.11 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 13 | 0.11 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 13 | 0.11 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 13 | 0.11 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 13 | 0.11 |
| (1,407) | 1:86:A:LEU:HB3 | 1:87:A:GLU:H | 11 | 0.11 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB1 | 14 | 0.11 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB2 | 14 | 0.11 |
| (1,380) | 1:85:A:ALA:H | 1:85:A:ALA:HB3 | 14 | 0.11 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB2 | 10 | 0.11 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB3 | 10 | 0.11 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB2 | 13 | 0.11 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB3 | 13 | 0.11 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 5 | 0.11 |
| (1,317) | 1:80:A:ARG:H | 1:80:A:ARG:HG3 | 19 | 0.11 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB1 | 8 | 0.11 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB2 | 8 | 0.11 |
| (1,308) | 1:80:A:ARG:HB2 | 1:85:A:ALA:HB3 | 8 | 0.11 |
| (1,303) | 1:80:A:ARG:H | 1:80:A:ARG:HA | 14 | 0.11 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG21 | 1 | 0.11 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG22 | 1 | 0.11 |
| (1,299) | 1:79:A:THR:H | 1:79:A:THR:HG23 | 1 | 0.11 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 9 | 0.11 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 9 | 0.11 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 9 | 0.11 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD11 | 16 | 0.11 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD12 | 16 | 0.11 |
| (1,282) | 1:78:A:ILE:HB | 1:78:A:ILE:HD13 | 16 | 0.11 |
| (1,253) | 1:72:A:SER:H | 1:76:A:GLU:HA | 13 | 0.11 |
| (1,251) | 1:75:A:GLN:HA | 1:76:A:GLU:H | 10 | 0.11 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB2 | 15 | 0.11 |
| (1,215) | 1:73:A:TRP:HA | 1:73:A:TRP:HB3 | 15 | 0.11 |
| (1,209) | 1:71:A:SER:HB3 | 1:72:A:SER:H | 4 | 0.11 |
| (1,204) | 1:71:A:SER:HA | 1:72:A:SER:H | 2 | 0.11 |
| (1,204) | 1:71:A:SER:HA | 1:72:A:SER:H | 3 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,204) | 1:71:A:SER:HA | 1:72:A:SER:H | 5 | 0.11 |
| (1,204) | 1:71:A:SER:HA | 1:72:A:SER:H | 13 | 0.11 |
| (1,204) | 1:71:A:SER:HA | 1:72:A:SER:H | 19 | 0.11 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG2 | 1 | 0.11 |
| (1,183) | 1:66:A:GLN:H | 1:66:A:GLN:HG3 | 1 | 0.11 |
| (1,162) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 9 | 0.11 |
| (1,131) | 1:61:A:LEU:HD11 | 1:62:A:VAL:H | 11 | 0.11 |
| (1,131) | 1:61:A:LEU:HD12 | 1:62:A:VAL:H | 11 | 0.11 |
| (1,131) | 1:61:A:LEU:HD13 | 1:62:A:VAL:H | 11 | 0.11 |
| (1,117) | 1:60:A:LEU:HD11 | 1:107:A:ALA:HA | 14 | 0.11 |
| (1,117) | 1:60:A:LEU:HD12 | 1:107:A:ALA:HA | 14 | 0.11 |
| (1,117) | 1:60:A:LEU:HD13 | 1:107:A:ALA:HA | 14 | 0.11 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 16 | 0.11 |
| (1,91) | 1:57:A:CYS:HB3 | 1:58:A:SER:H | 6 | 0.11 |
| (1,78) | 1:56:A:ARG:HG3 | 1:57:A:CYS:H | 12 | 0.11 |
| (1,47) | 1:55:A:VAL:H | 1:56:A:ARG:H | 6 | 0.11 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 17 | 0.11 |
| (1,25) | 1:53:A:ALA:H | 1:53:A:ALA:HA | 6 | 0.11 |
| (1,25) | 1:53:A:ALA:H | 1:53:A:ALA:HA | 11 | 0.11 |
| (1,25) | 1:53:A:ALA:H | 1:53:A:ALA:HA | 17 | 0.11 |
| (1,20) | 1:52:A:PRO:HB3 | 1:53:A:ALA:H | 6 | 0.11 |
| (1,12) | 1:50:A:GLY:HA2 | 1:51:A:GLU:HA | 20 | 0.11 |
| (1,12) | 1:50:A:GLY:HA3 | 1:51:A:GLU:HA | 20 | 0.11 |
| (1,8) | 1:50:A:GLY:HA2 | 1:51:A:GLU:H | 4 | 0.11 |
| (1,8) | 1:50:A:GLY:HA3 | 1:51:A:GLU:H | 4 | 0.11 |
| (1,1) | 1:49:A:GLN:H | 1:49:A:GLN:HB2 | 1 | 0.11 |
| (4,190) | 1:131:A:GLN:CB | 1:16:A:SER:H | 6 | 0.1 |
| (3,999) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG2 | 6 | 0.1 |
| (3,999) | 1:126:A:SER:HB2 | 1:129:A:GLN:HG3 | 6 | 0.1 |
| (3,999) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG2 | 6 | 0.1 |
| (3,999) | 1:126:A:SER:HB3 | 1:129:A:GLN:HG3 | 6 | 0.1 |
| (3,722) | 1:148:A:GLY:H | 1:159:A:ILE:HB | 12 | 0.1 |
| (3,471) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 2 | 0.1 |
| (3,471) | 1:79:A:THR:HA | 1:80:A:ARG:HG3 | 4 | 0.1 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE2 | 13 | 0.1 |
| (3,447) | 1:71:A:SER:HA | 1:77:A:LYS:HE3 | 13 | 0.1 |
| (3,233) | 1:14:A:ARG:HB2 | 1:17:A:ARG:HG3 | 17 | 0.1 |
| (3,222) | 1:12:A:GLU:H | 1:26:A:ASN:H | 16 | 0.1 |
| (3,148) | 1:13:A:LYS:HE2 | 1:36:A:ARG:HG2 | 5 | 0.1 |
| (3,148) | 1:13:A:LYS:HE3 | 1:36:A:ARG:HG2 | 5 | 0.1 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD11 | 10 | 0.1 |
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD12 | 10 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (3,27) | 1:92:A:TYR:H | 1:158:A:ILE:HD13 | 10 | 0.1 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB2 | 3 | 0.1 |
| (1,9598) | 1:157:A:HIS:H | 1:157:A:HIS:HB3 | 3 | 0.1 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB2 | 14 | 0.1 |
| (1,9582) | 1:150:A:VAL:HB | 1:157:A:HIS:HB3 | 14 | 0.1 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB2 | 9 | 0.1 |
| (1,9564) | 1:146:A:MET:H | 1:146:A:MET:HB3 | 9 | 0.1 |
| (1,9303) | 1:104:A:GLU:HG2 | 1:119:A:ARG:HB2 | 15 | 0.1 |
| (1,9303) | 1:104:A:GLU:HG3 | 1:119:A:ARG:HB2 | 15 | 0.1 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB2 | 12 | 0.1 |
| (1,9265) | 1:102:A:ASP:HA | 1:102:A:ASP:HB3 | 12 | 0.1 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG2 | 20 | 0.1 |
| (1,9045) | 1:81:A:THR:H | 1:84:A:GLU:HG3 | 20 | 0.1 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD11 | 5 | 0.1 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD12 | 5 | 0.1 |
| (1,9039) | 1:80:A:ARG:HD2 | 1:88:A:LEU:HD13 | 5 | 0.1 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD11 | 5 | 0.1 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD12 | 5 | 0.1 |
| (1,9039) | 1:80:A:ARG:HD3 | 1:88:A:LEU:HD13 | 5 | 0.1 |
| (1,8993) | 1:75:A:GLN:HE21 | 1:80:A:ARG:H | 15 | 0.1 |
| (1,8993) | 1:75:A:GLN:HE22 | 1:80:A:ARG:H | 15 | 0.1 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB2 | 8 | 0.1 |
| (1,8906) | 1:66:A:GLN:HA | 1:66:A:GLN:HB3 | 8 | 0.1 |
| (1,8821) | 1:59:A:HIS:HA | 1:59:A:HIS:HB2 | 12 | 0.1 |
| (1,8821) | 1:59:A:HIS:HA | 1:59:A:HIS:HB3 | 12 | 0.1 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG11 | 1 | 0.1 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG12 | 1 | 0.1 |
| (1,8736) | 1:52:A:PRO:HG2 | 1:55:A:VAL:HG13 | 1 | 0.1 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG11 | 1 | 0.1 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG12 | 1 | 0.1 |
| (1,8736) | 1:52:A:PRO:HG3 | 1:55:A:VAL:HG13 | 1 | 0.1 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 9 | 0.1 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 9 | 0.1 |
| (1,8577) | 1:6:A:LYS:HE2 | 1:7:A:LEU:H | 16 | 0.1 |
| (1,8577) | 1:6:A:LYS:HE3 | 1:7:A:LEU:H | 16 | 0.1 |
| (1,8574) | 1:6:A:LYS:HD2 | 1:7:A:LEU:H | 19 | 0.1 |
| (1,8574) | 1:6:A:LYS:HD3 | 1:7:A:LEU:H | 19 | 0.1 |
| (1,7932) | 1:71:A:SER:HA | 1:78:A:ILE:H | 17 | 0.1 |
| (1,7925) | 1:71:A:SER:H | 1:77:A:LYS:HA | 13 | 0.1 |
| (1,7779) | 1:57:A:CYS:HB3 | 1:122:A:LEU:HG | 2 | 0.1 |
| (1,7326) | 1:83:A:GLU:HA | 1:86:A:LEU:H | 19 | 0.1 |
| (1,7312) | 1:40:A:ASN:HA | 1:43:A:SER:H | 13 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7288) | 1:15:A:MET:H | 1:15:A:MET:HG3 | 10 | 0.1 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB1 | 12 | 0.1 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB2 | 12 | 0.1 |
| (1,7265) | 1:29:A:THR:HG21 | 1:140:A:ALA:HB3 | 12 | 0.1 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB1 | 12 | 0.1 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB2 | 12 | 0.1 |
| (1,7265) | 1:29:A:THR:HG22 | 1:140:A:ALA:HB3 | 12 | 0.1 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB1 | 12 | 0.1 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB2 | 12 | 0.1 |
| (1,7265) | 1:29:A:THR:HG23 | 1:140:A:ALA:HB3 | 12 | 0.1 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG21 | 14 | 0.1 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG22 | 14 | 0.1 |
| (1,7197) | 1:147:A:SER:H | 1:158:A:ILE:HG23 | 14 | 0.1 |
| (1,7079) | 1:56:A:ARG:HB2 | 1:163:A:GLU:HB2 | 7 | 0.1 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA2 | 15 | 0.1 |
| (1,7069) | 1:48:A:GLY:H | 1:48:A:GLY:HA3 | 15 | 0.1 |
| (1,7059) | 1:46:A:LYS:HA | 1:47:A:ASN:H | 5 | 0.1 |
| (1,7004) | 1:36:A:ARG:HB2 | 1:36:A:ARG:HD3 | 13 | 0.1 |
| (1,7004) | 1:36:A:ARG:HB3 | 1:36:A:ARG:HD3 | 13 | 0.1 |
| (1,6959) | 1:34:A:TRP:HE3 | 1:35:A:GLU:H | 20 | 0.1 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 18 | 0.1 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 18 | 0.1 |
| (1,6919) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 18 | 0.1 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 1 | 0.1 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 5 | 0.1 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 8 | 0.1 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 15 | 0.1 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 17 | 0.1 |
| (1,6801) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 19 | 0.1 |
| (1,6711) | 1:16:A:SER:H | 1:17:A:ARG:HG3 | 17 | 0.1 |
| (1,6694) | 1:15:A:MET:HE1 | 1:21:A:ARG:H | 13 | 0.1 |
| (1,6694) | 1:15:A:MET:HE2 | 1:21:A:ARG:H | 13 | 0.1 |
| (1,6694) | 1:15:A:MET:HE3 | 1:21:A:ARG:H | 13 | 0.1 |
| (1,6632) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 8 | 0.1 |
| (1,6598) | 1:11:A:TRP:HE1 | 1:26:A:ASN:HD21 | 16 | 0.1 |
| (1,6592) | 1:11:A:TRP:HE3 | 1:25:A:PHE:H | 5 | 0.1 |
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 9 | 0.1 |
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 13 | 0.1 |
| (1,6483) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 18 | 0.1 |
| (1,6445) | 1:161:A:ARG:HA | 1:162:A:THR:H | 7 | 0.1 |
| (1,6410) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 3 | 0.1 |
| (1,6408) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 2 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,6408) | 1:158:A:ILE:HB | 1:159:A:ILE:H | 4 | 0.1 |
| (1,6358) | 1:62:A:VAL:H | 1:156:A:ILE:HB | 17 | 0.1 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB2 | 2 | 0.1 |
| (1,6348) | 1:154:A:SER:H | 1:154:A:SER:HB3 | 2 | 0.1 |
| (1,6297) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 19 | 0.1 |
| (1,6297) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 19 | 0.1 |
| (1,6297) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 19 | 0.1 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG21 | 9 | 0.1 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG22 | 9 | 0.1 |
| (1,6280) | 1:149:A:PRO:HB3 | 1:156:A:ILE:HG23 | 9 | 0.1 |
| (1,6192) | 1:143:A:THR:H | 1:143:A:THR:HB | 16 | 0.1 |
| (1,6190) | 1:142:A:ARG:HD2 | 1:143:A:THR:H | 15 | 0.1 |
| (1,6190) | 1:142:A:ARG:HD3 | 1:143:A:THR:H | 15 | 0.1 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD11 | 8 | 0.1 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD12 | 8 | 0.1 |
| (1,6114) | 1:138:A:SER:H | 1:159:A:ILE:HD13 | 8 | 0.1 |
| (1,6079) | 1:135:A:GLU:HA | 1:137:A:ALA:H | 7 | 0.1 |
| (1,6067) | 1:135:A:GLU:H | 1:136:A:ASP:H | 2 | 0.1 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG11 | 11 | 0.1 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG12 | 11 | 0.1 |
| (1,6050) | 1:134:A:PHE:HA | 1:150:A:VAL:HG13 | 11 | 0.1 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB1 | 12 | 0.1 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB2 | 12 | 0.1 |
| (1,6048) | 1:134:A:PHE:HA | 1:137:A:ALA:HB3 | 12 | 0.1 |
| (1,6012) | 1:131:A:GLN:HB3 | 1:132:A:LYS:H | 5 | 0.1 |
| (1,6000) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 11 | 0.1 |
| (1,5961) | 1:127:A:ARG:HB3 | 1:128:A:GLY:H | 20 | 0.1 |
| (1,5953) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 20 | 0.1 |
| (1,5933) | 1:125:A:PHE:H | 1:125:A:PHE:HZ | 20 | 0.1 |
| (1,5850) | 1:119:A:ARG:HA | 1:121:A:ASP:H | 18 | 0.1 |
| (1,5842) | 1:108:A:SER:HA | 1:119:A:ARG:HA | 10 | 0.1 |
| (1,5840) | 1:119:A:ARG:H | 1:120:A:GLY:H | 1 | 0.1 |
| (1,5789) | 1:115:A:SER:HA | 1:118:A:ALA:H | 2 | 0.1 |
| (1,5785) | 1:115:A:SER:H | 1:116:A:ALA:H | 5 | 0.1 |
| (1,5777) | 1:113:A:CYS:H | 1:113:A:CYS:HB2 | 20 | 0.1 |
| (1,5726) | 1:107:A:ALA:HB1 | 1:116:A:ALA:HA | 11 | 0.1 |
| (1,5726) | 1:107:A:ALA:HB2 | 1:116:A:ALA:HA | 11 | 0.1 |
| (1,5726) | 1:107:A:ALA:HB3 | 1:116:A:ALA:HA | 11 | 0.1 |
| (1,5724) | 1:107:A:ALA:HB1 | 1:111:A:SER:H | 5 | 0.1 |
| (1,5724) | 1:107:A:ALA:HB2 | 1:111:A:SER:H | 5 | 0.1 |
| (1,5724) | 1:107:A:ALA:HB3 | 1:111:A:SER:H | 5 | 0.1 |
| (1,5623) | 1:102:A:ASP:HB2 | 1:105:A:SER:H | 10 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5595) | 1:100:A:GLU:H | 1:101:A:GLU:H | 17 | 0.1 |
| (1,5516) | 1:96:A:ILE:HA | 1:98:A:SER:H | 9 | 0.1 |
| (1,5463) | 1:93:A:ILE:HG21 | 1:94:A:GLN:H | 10 | 0.1 |
| (1,5463) | 1:93:A:ILE:HG22 | 1:94:A:GLN:H | 10 | 0.1 |
| (1,5463) | 1:93:A:ILE:HG23 | 1:94:A:GLN:H | 10 | 0.1 |
| (1,5461) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 19 | 0.1 |
| (1,5453) | 1:93:A:ILE:HA | 1:96:A:ILE:HD11 | 4 | 0.1 |
| (1,5453) | 1:93:A:ILE:HA | 1:96:A:ILE:HD12 | 4 | 0.1 |
| (1,5453) | 1:93:A:ILE:HA | 1:96:A:ILE:HD13 | 4 | 0.1 |
| (1,5415) | 1:92:A:TYR:HB2 | 1:93:A:ILE:H | 6 | 0.1 |
| (1,5412) | 1:92:A:TYR:H | 1:92:A:TYR:HB2 | 19 | 0.1 |
| (1,5317) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 20 | 0.1 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD11 | 19 | 0.1 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD12 | 19 | 0.1 |
| (1,5249) | 1:86:A:LEU:HB2 | 1:156:A:ILE:HD13 | 19 | 0.1 |
| (1,5165) | 1:82:A:LYS:HG3 | 1:83:A:GLU:H | 20 | 0.1 |
| (1,5114) | 1:80:A:ARG:HB3 | 1:81:A:THR:H | 10 | 0.1 |
| (1,5052) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 3 | 0.1 |
| (1,4994) | 1:73:A:TRP:H | 1:77:A:LYS:H | 4 | 0.1 |
| (1,4984) | 1:71:A:SER:HB2 | 1:72:A:SER:H | 11 | 0.1 |
| (1,4951) | 1:67:A:SER:HA | 1:69:A:ARG:H | 19 | 0.1 |
| (1,4925) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 16 | 0.1 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 5 | 0.1 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 5 | 0.1 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 5 | 0.1 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD11 | 20 | 0.1 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD12 | 20 | 0.1 |
| (1,4919) | 1:64:A:HIS:HD2 | 1:156:A:ILE:HD13 | 20 | 0.1 |
| (1,4905) | 1:64:A:HIS:H | 1:67:A:SER:H | 10 | 0.1 |
| (1,4903) | 1:63:A:LYS:HD3 | 1:71:A:SER:H | 8 | 0.1 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD11 | 15 | 0.1 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD12 | 15 | 0.1 |
| (1,4877) | 1:62:A:VAL:HG11 | 1:89:A:ILE:HD13 | 15 | 0.1 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD11 | 15 | 0.1 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD12 | 15 | 0.1 |
| (1,4877) | 1:62:A:VAL:HG12 | 1:89:A:ILE:HD13 | 15 | 0.1 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD11 | 15 | 0.1 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD12 | 15 | 0.1 |
| (1,4877) | 1:62:A:VAL:HG13 | 1:89:A:ILE:HD13 | 15 | 0.1 |
| (1,4803) | 1:60:A:LEU:HA | 1:107:A:ALA:HA | 16 | 0.1 |
| (1,4785) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 11 | 0.1 |
| (1,4775) | 1:58:A:SER:HA | 1:122:A:LEU:H | 6 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4749) | 1:56:A:ARG:HG3 | 1:123:A:GLY:H | 8 | 0.1 |
| (1,4678) | 1:54:A:ARG:HB3 | 1:125:A:PHE:H | 19 | 0.1 |
| (1,4674) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 11 | 0.1 |
| (1,4662) | 1:53:A:ALA:H | 1:54:A:ARG:H | 7 | 0.1 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG2 | 18 | 0.1 |
| (1,4615) | 1:163:A:GLU:H | 1:163:A:GLU:HG3 | 18 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 2 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 2 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 2 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 2 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 4 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 4 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 4 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 4 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 5 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 5 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 5 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 5 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 12 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 12 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 12 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 12 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 13 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 13 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 13 | 0.1 |
| (1,4471) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 13 | 0.1 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA2 | 6 | 0.1 |
| (1,4409) | 1:128:A:GLY:H | 1:128:A:GLY:HA3 | 6 | 0.1 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB2 | 9 | 0.1 |
| (1,4353) | 1:110:A:PHE:H | 1:110:A:PHE:HB3 | 9 | 0.1 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG2 | 13 | 0.1 |
| (1,4277) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 13 | 0.1 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 13 | 0.1 |
| (1,4277) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG3 | 13 | 0.1 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB2 | 10 | 0.1 |
| (1,4263) | 1:103:A:PHE:HA | 1:103:A:PHE:HB3 | 10 | 0.1 |
| (1,3967) | 1:76:A:GLU:HG3 | 1:77:A:LYS:H | 10 | 0.1 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB2 | 19 | 0.1 |
| (1,3863) | 1:66:A:GLN:H | 1:66:A:GLN:HB3 | 19 | 0.1 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB2 | 3 | 0.1 |
| (1,3857) | 1:65:A:SER:H | 1:65:A:SER:HB3 | 3 | 0.1 |
| (1,3845) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 2 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3845) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 2 | 0.1 |
| (1,3845) | 1:64:A:HIS:HB2 | 1:65:A:SER:H | 5 | 0.1 |
| (1,3845) | 1:64:A:HIS:HB3 | 1:65:A:SER:H | 5 | 0.1 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG2 | 18 | 0.1 |
| (1,3631) | 1:35:A:GLU:HA | 1:35:A:GLU:HG3 | 18 | 0.1 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 6 | 0.1 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 6 | 0.1 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 11 | 0.1 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 11 | 0.1 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB2 | 18 | 0.1 |
| (1,3609) | 1:30:A:ASN:HA | 1:30:A:ASN:HB3 | 18 | 0.1 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG21 | 12 | 0.1 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG22 | 12 | 0.1 |
| (1,3575) | 1:15:A:MET:HG2 | 1:22:A:VAL:HG23 | 12 | 0.1 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG21 | 12 | 0.1 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG22 | 12 | 0.1 |
| (1,3575) | 1:15:A:MET:HG3 | 1:22:A:VAL:HG23 | 12 | 0.1 |
| (1,3395) | 1:14:A:ARG:HB2 | 1:14:A:ARG:HG2 | 4 | 0.1 |
| (1,3277) | 1:100:A:GLU:H | 1:100:A:GLU:HA | 16 | 0.1 |
| (1,3257) | 1:96:A:ILE:H | 1:96:A:ILE:HG13 | 13 | 0.1 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE2 | 20 | 0.1 |
| (1,3193) | 1:82:A:LYS:HB2 | 1:82:A:LYS:HE3 | 20 | 0.1 |
| (1,3121) | 1:47:A:ASN:HB2 | 1:48:A:GLY:H | 15 | 0.1 |
| (1,3049) | 1:36:A:ARG:H | 1:36:A:ARG:HG3 | 17 | 0.1 |
| (1,2979) | 1:34:A:TRP:HB3 | 1:35:A:GLU:H | 2 | 0.1 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB2 | 7 | 0.1 |
| (1,2967) | 1:33:A:GLN:HE21 | 1:35:A:GLU:HB3 | 7 | 0.1 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB1 | 10 | 0.1 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB2 | 10 | 0.1 |
| (1,2935) | 1:31:A:ALA:H | 1:31:A:ALA:HB3 | 10 | 0.1 |
| (1,2895) | 1:29:A:THR:H | 1:30:A:ASN:H | 5 | 0.1 |
| (1,2857) | 1:28:A:ILE:H | 1:30:A:ASN:H | 16 | 0.1 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 4 | 0.1 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 4 | 0.1 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 4 | 0.1 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB1 | 17 | 0.1 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB2 | 17 | 0.1 |
| (1,2819) | 1:26:A:ASN:HB2 | 1:31:A:ALA:HB3 | 17 | 0.1 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 1 | 0.1 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 5 | 0.1 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 8 | 0.1 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 15 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 17 | 0.1 |
| (1,2779) | 1:25:A:PHE:HA | 1:26:A:ASN:H | 19 | 0.1 |
| (1,2729) | 1:14:A:ARG:H | 1:24:A:TYR:HA | 20 | 0.1 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD2 | 4 | 0.1 |
| (1,2627) | 1:17:A:ARG:HG3 | 1:17:A:ARG:HD3 | 4 | 0.1 |
| (1,2497) | 1:13:A:LYS:H | 1:13:A:LYS:HB2 | 8 | 0.1 |
| (1,2483) | 1:12:A:GLU:HB2 | 1:12:A:GLU:HG2 | 19 | 0.1 |
| (1,2447) | 1:11:A:TRP:HE3 | 1:12:A:GLU:H | 19 | 0.1 |
| (1,2433) | 1:7:A:LEU:HD11 | 1:11:A:TRP:HB2 | 5 | 0.1 |
| (1,2433) | 1:7:A:LEU:HD12 | 1:11:A:TRP:HB2 | 5 | 0.1 |
| (1,2433) | 1:7:A:LEU:HD13 | 1:11:A:TRP:HB2 | 5 | 0.1 |
| (1,2419) | 1:11:A:TRP:H | 1:11:A:TRP:HA | 15 | 0.1 |
| (1,2373) | 1:6:A:LYS:H | 1:7:A:LEU:HG | 4 | 0.1 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD11 | 11 | 0.1 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD12 | 11 | 0.1 |
| (1,2349) | 1:7:A:LEU:H | 1:7:A:LEU:HD13 | 11 | 0.1 |
| (1,2321) | 1:6:A:LYS:HA | 1:6:A:LYS:HB2 | 8 | 0.1 |
| (1,2319) | 1:6:A:LYS:H | 1:6:A:LYS:HB3 | 11 | 0.1 |
| (1,2317) | 1:6:A:LYS:H | 1:6:A:LYS:HB2 | 19 | 0.1 |
| (1,2311) | 1:5:A:GLU:HA | 1:5:A:GLU:HB3 | 5 | 0.1 |
| (1,2303) | 1:4:A:GLU:HA | 1:4:A:GLU:HB3 | 1 | 0.1 |
| (1,2281) | 1:3:A:ASP:HA | 1:3:A:ASP:HB2 | 12 | 0.1 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 9 | 0.1 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 13 | 0.1 |
| (1,2269) | 1:2:A:ALA:HA | 1:3:A:ASP:H | 18 | 0.1 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE1 | 14 | 0.1 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE2 | 14 | 0.1 |
| (1,2251) | 1:1:A:MET:HA | 1:1:A:MET:HE3 | 14 | 0.1 |
| (1,2179) | 1:161:A:ARG:HA | 1:162:A:THR:H | 7 | 0.1 |
| (1,2157) | 1:160:A:LEU:H | 1:160:A:LEU:HB3 | 9 | 0.1 |
| (1,2123) | 1:159:A:ILE:H | 1:159:A:ILE:HB | 3 | 0.1 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD11 | 13 | 0.1 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD12 | 13 | 0.1 |
| (1,2067) | 1:85:A:ALA:HB1 | 1:156:A:ILE:HD13 | 13 | 0.1 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD11 | 13 | 0.1 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD12 | 13 | 0.1 |
| (1,2067) | 1:85:A:ALA:HB2 | 1:156:A:ILE:HD13 | 13 | 0.1 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD11 | 13 | 0.1 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD12 | 13 | 0.1 |
| (1,2067) | 1:85:A:ALA:HB3 | 1:156:A:ILE:HD13 | 13 | 0.1 |
| (1,1969) | 1:150:A:VAL:HG11 | 1:151:A:PHE:H | 1 | 0.1 |
| (1,1969) | 1:150:A:VAL:HG12 | 1:151:A:PHE:H | 1 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1969) | 1:150:A:VAL:HG13 | 1:151:A:PHE:H | 1 | 0.1 |
| (1,1841) | 1:145:A:GLU:HA | 1:145:A:GLU:HG2 | 3 | 0.1 |
| (1,1841) | 1:145:A:GLU:HA | 1:145:A:GLU:HG3 | 3 | 0.1 |
| (1,1803) | 1:143:A:THR:H | 1:143:A:THR:HB | 16 | 0.1 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG11 | 3 | 0.1 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG12 | 3 | 0.1 |
| (1,1669) | 1:137:A:ALA:HB1 | 1:150:A:VAL:HG13 | 3 | 0.1 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG11 | 3 | 0.1 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG12 | 3 | 0.1 |
| (1,1669) | 1:137:A:ALA:HB2 | 1:150:A:VAL:HG13 | 3 | 0.1 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG11 | 3 | 0.1 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG12 | 3 | 0.1 |
| (1,1669) | 1:137:A:ALA:HB3 | 1:150:A:VAL:HG13 | 3 | 0.1 |
| (1,1647) | 1:136:A:ASP:HB2 | 1:137:A:ALA:H | 3 | 0.1 |
| (1,1647) | 1:136:A:ASP:HB3 | 1:137:A:ALA:H | 3 | 0.1 |
| (1,1631) | 1:135:A:GLU:H | 1:136:A:ASP:H | 2 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 2 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 2 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 2 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 2 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 4 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 4 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 4 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 4 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 5 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 5 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 5 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 5 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 12 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 12 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 12 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 12 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE2 | 13 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG2 | 1:132:A:LYS:HE3 | 13 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE2 | 13 | 0.1 |
| (1,1561) | 1:132:A:LYS:HG3 | 1:132:A:LYS:HE3 | 13 | 0.1 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 5 | 0.1 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 5 | 0.1 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG2 | 17 | 0.1 |
| (1,1507) | 1:131:A:GLN:HA | 1:131:A:GLN:HG3 | 17 | 0.1 |
| (1,1497) | 1:131:A:GLN:H | 1:131:A:GLN:HB2 | 11 | 0.1 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE1 | 1 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE2 | 1 | 0.1 |
| (1,1459) | 1:129:A:GLN:HE21 | 1:130:A:MET:HE3 | 1 | 0.1 |
| (1,1443) | 1:129:A:GLN:HA | 1:129:A:GLN:HB2 | 6 | 0.1 |
| (1,1403) | 1:127:A:ARG:HB3 | 1:127:A:ARG:HG3 | 1 | 0.1 |
| (1,1399) | 1:127:A:ARG:HB2 | 1:128:A:GLY:H | 18 | 0.1 |
| (1,1389) | 1:127:A:ARG:H | 1:127:A:ARG:HG2 | 20 | 0.1 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE1 | 14 | 0.1 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE2 | 14 | 0.1 |
| (1,1363) | 1:125:A:PHE:HZ | 1:130:A:MET:HE3 | 14 | 0.1 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE1 | 9 | 0.1 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE2 | 9 | 0.1 |
| (1,1285) | 1:122:A:LEU:HB2 | 1:130:A:MET:HE3 | 9 | 0.1 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD21 | 3 | 0.1 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD22 | 3 | 0.1 |
| (1,1275) | 1:122:A:LEU:HA | 1:122:A:LEU:HD23 | 3 | 0.1 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG2 | 17 | 0.1 |
| (1,1251) | 1:108:A:SER:HB3 | 1:119:A:ARG:HG3 | 17 | 0.1 |
| (1,1241) | 1:119:A:ARG:HB3 | 1:119:A:ARG:HD2 | 14 | 0.1 |
| (1,1215) | 1:119:A:ARG:H | 1:120:A:GLY:H | 1 | 0.1 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB1 | 10 | 0.1 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB2 | 10 | 0.1 |
| (1,1197) | 1:118:A:ALA:H | 1:118:A:ALA:HB3 | 10 | 0.1 |
| (1,1145) | 1:115:A:SER:HA | 1:118:A:ALA:H | 2 | 0.1 |
| (1,1137) | 1:115:A:SER:H | 1:116:A:ALA:H | 5 | 0.1 |
| (1,1135) | 1:114:A:SER:HB2 | 1:115:A:SER:H | 8 | 0.1 |
| (1,1135) | 1:114:A:SER:HB3 | 1:115:A:SER:H | 8 | 0.1 |
| (1,1121) | 1:113:A:CYS:H | 1:113:A:CYS:HA | 4 | 0.1 |
| (1,1043) | 1:109:A:GLN:H | 1:109:A:GLN:HB3 | 11 | 0.1 |
| (1,1041) | 1:109:A:GLN:H | 1:109:A:GLN:HB2 | 19 | 0.1 |
| (1,1035) | 1:108:A:SER:HB2 | 1:109:A:GLN:H | 5 | 0.1 |
| (1,1033) | 1:107:A:ALA:H | 1:109:A:GLN:H | 15 | 0.1 |
| (1,1017) | 1:108:A:SER:H | 1:108:A:SER:HB2 | 20 | 0.1 |
| (1,935) | 1:105:A:SER:HA | 1:105:A:SER:HB3 | 12 | 0.1 |
| (1,913) | 1:105:A:SER:H | 1:105:A:SER:HA | 6 | 0.1 |
| (1,913) | 1:105:A:SER:H | 1:105:A:SER:HA | 9 | 0.1 |
| (1,903) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 2 | 0.1 |
| (1,903) | 1:104:A:GLU:HB3 | 1:104:A:GLU:HG2 | 18 | 0.1 |
| (1,899) | 1:104:A:GLU:HB2 | 1:104:A:GLU:HG3 | 10 | 0.1 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG2 | 7 | 0.1 |
| (1,803) | 1:101:A:GLU:HB3 | 1:101:A:GLU:HG3 | 7 | 0.1 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG2 | 20 | 0.1 |
| (1,797) | 1:101:A:GLU:HB2 | 1:101:A:GLU:HG3 | 20 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,775) | 1:100:A:GLU:H | 1:101:A:GLU:H | 17 | 0.1 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE1 | 6 | 0.1 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE2 | 6 | 0.1 |
| (1,681) | 1:96:A:ILE:HB | 1:146:A:MET:HE3 | 6 | 0.1 |
| (1,671) | 1:96:A:ILE:HA | 1:101:A:GLU:H | 2 | 0.1 |
| (1,625) | 1:95:A:LYS:HB2 | 1:101:A:GLU:HB3 | 10 | 0.1 |
| (1,561) | 1:93:A:ILE:HB | 1:94:A:GLN:H | 19 | 0.1 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB2 | 20 | 0.1 |
| (1,436) | 1:88:A:LEU:HA | 1:88:A:LEU:HB3 | 20 | 0.1 |
| (1,432) | 1:88:A:LEU:H | 1:88:A:LEU:HA | 4 | 0.1 |
| (1,432) | 1:88:A:LEU:H | 1:88:A:LEU:HA | 5 | 0.1 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD11 | 9 | 0.1 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD12 | 9 | 0.1 |
| (1,418) | 1:86:A:LEU:HD11 | 1:156:A:ILE:HD13 | 9 | 0.1 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD11 | 9 | 0.1 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD12 | 9 | 0.1 |
| (1,418) | 1:86:A:LEU:HD12 | 1:156:A:ILE:HD13 | 9 | 0.1 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD11 | 9 | 0.1 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD12 | 9 | 0.1 |
| (1,418) | 1:86:A:LEU:HD13 | 1:156:A:ILE:HD13 | 9 | 0.1 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD11 | 7 | 0.1 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD12 | 7 | 0.1 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD13 | 7 | 0.1 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD21 | 7 | 0.1 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD22 | 7 | 0.1 |
| (1,384) | 1:85:A:ALA:HA | 1:88:A:LEU:HD23 | 7 | 0.1 |
| (1,371) | 1:84:A:GLU:H | 1:84:A:GLU:HB2 | 4 | 0.1 |
| (1,364) | 1:82:A:LYS:H | 1:83:A:GLU:HG3 | 5 | 0.1 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB2 | 5 | 0.1 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB3 | 5 | 0.1 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB2 | 7 | 0.1 |
| (1,336) | 1:82:A:LYS:HA | 1:82:A:LYS:HB3 | 7 | 0.1 |
| (1,306) | 1:80:A:ARG:HB2 | 1:81:A:THR:H | 7 | 0.1 |
| (1,303) | 1:80:A:ARG:H | 1:80:A:ARG:HA | 9 | 0.1 |
| (1,303) | 1:80:A:ARG:H | 1:80:A:ARG:HA | 19 | 0.1 |
| (1,288) | 1:78:A:ILE:HG21 | 1:80:A:ARG:H | 14 | 0.1 |
| (1,288) | 1:78:A:ILE:HG22 | 1:80:A:ARG:H | 14 | 0.1 |
| (1,288) | 1:78:A:ILE:HG23 | 1:80:A:ARG:H | 14 | 0.1 |
| (1,271) | 1:78:A:ILE:H | 1:78:A:ILE:HB | 3 | 0.1 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD11 | 3 | 0.1 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD12 | 3 | 0.1 |
| (1,239) | 1:75:A:GLN:H | 1:78:A:ILE:HD13 | 3 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,234) | 1:74:A:ARG:H | 1:74:A:ARG:HG3 | 16 | 0.1 |
| (1,186) | 1:67:A:SER:H | 1:67:A:SER:HA | 15 | 0.1 |
| (1,161) | 1:64:A:HIS:H | 1:67:A:SER:H | 10 | 0.1 |
| (1,102) | 1:59:A:HIS:HA | 1:60:A:LEU:H | 11 | 0.1 |
| (1,97) | 1:58:A:SER:HA | 1:122:A:LEU:H | 6 | 0.1 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB1 | 18 | 0.1 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB2 | 18 | 0.1 |
| (1,74) | 1:56:A:ARG:HB3 | 1:124:A:ALA:HB3 | 18 | 0.1 |
| (1,33) | 1:54:A:ARG:HA | 1:55:A:VAL:H | 11 | 0.1 |
| (1,26) | 1:53:A:ALA:H | 1:54:A:ARG:H | 7 | 0.1 |
| (1,25) | 1:53:A:ALA:H | 1:53:A:ALA:HA | 9 | 0.1 |

# 10 Dihedral-angle violation analysis

## 10.1 Summary of dihedral-angle violations

The following table provides the summary of dihedral-angle violations in different dihedral-angle types. Violations less than 1° are not included in the calculation.

| Angle type | Count | %[1] | Violated[3] | | | Consistently Violated[4] | | |
|---|---|---|---|---|---|---|---|---|
| | | | Count | %[2] | %[1] | Count | %[2] | %[1] |
| PSI | 66 | 50.0 | 34 | 51.5 | 25.8 | 0 | 0.0 | 0.0 |
| PHI | 66 | 50.0 | 26 | 39.4 | 19.7 | 0 | 0.0 | 0.0 |
| Total | 132 | 100.0 | 60 | 45.5 | 45.5 | 0 | 0.0 | 0.0 |

[1] percentage calculated with respect to total number of dihedral-angle restraints, [2] percentage calculated with respect to number of restraints in a particular dihedral-angle type, [3] violated in at least one model, [4] violated in all the models

### 10.1.1 Bar chart : Distribution of dihedral-angles and violations

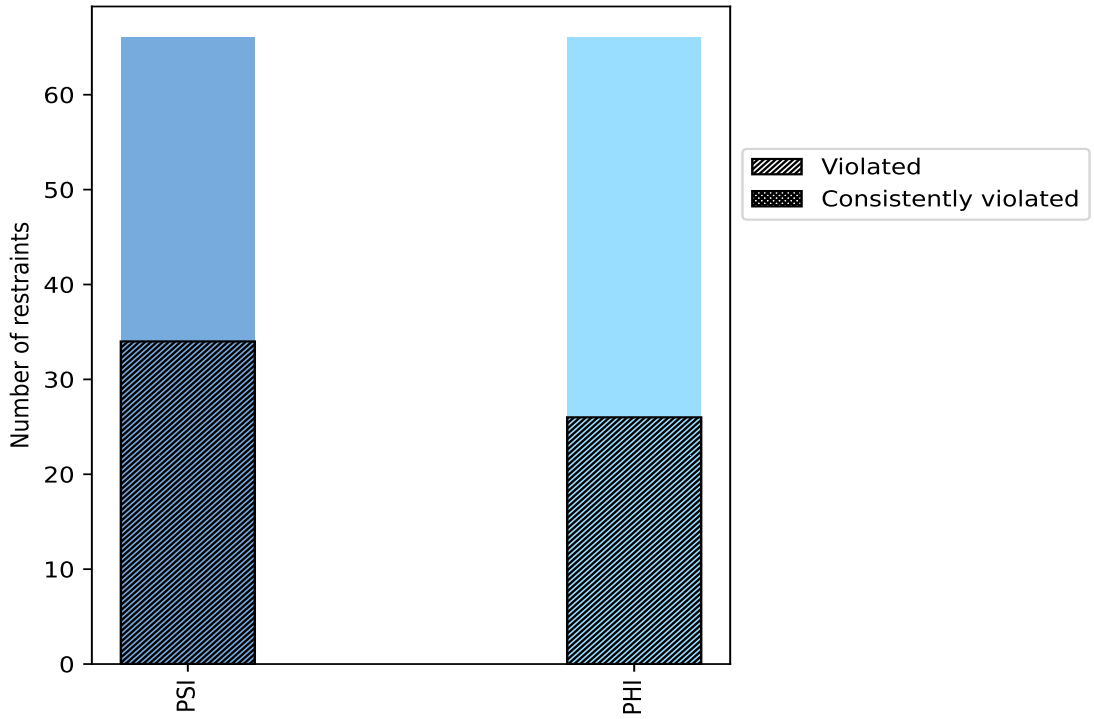


Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

## 10.2 Dihedral-angle violation statistics for each model (i)

The following table provides the dihedral-angle violation statistics for each model in the ensemble. Violations less than 1° are not included in the statistics.

| Model ID | Number of violations | | | Mean (°) | Max (°) | SD (°) | Median (°) |
|---|---|---|---|---|---|---|---|
| | PSI | PHI | Total | | | | |
| 1 | 14 | 4 | 18 | 18.71 | 31.93 | 9.08 | 17.59 |
| 2 | 4 | 6 | 10 | 38.56 | 59.04 | 15.38 | 43.32 |
| 3 | 4 | 2 | 6 | 24.22 | 31.69 | 9.44 | 30.08 |
| 4 | 24 | 12 | 36 | 25.27 | 63.45 | 16.84 | 24.1 |
| 5 | 10 | 6 | 16 | 29.13 | 62.53 | 17.4 | 26.58 |
| 6 | 10 | 2 | 12 | 15.23 | 30.25 | 8.77 | 14.97 |
| 7 | 10 | 4 | 14 | 32.51 | 57.06 | 14.86 | 31.23 |
| 8 | 6 | 6 | 12 | 28.37 | 55.14 | 17.58 | 32.74 |
| 9 | 18 | 6 | 24 | 22.16 | 69.01 | 17.93 | 23.52 |
| 10 | 6 | 6 | 12 | 39.07 | 57.52 | 17.73 | 42.22 |
| 11 | 10 | 6 | 16 | 32.5 | 62.16 | 19.18 | 29.06 |
| 12 | 12 | 8 | 20 | 24.86 | 76.65 | 23.28 | 14.62 |
| 13 | 14 | 8 | 22 | 31.03 | 56.07 | 15.04 | 29.73 |
| 14 | 10 | 6 | 16 | 37.86 | 72.97 | 21.15 | 33.22 |
| 15 | 8 | 2 | 10 | 24.32 | 52.3 | 15.27 | 23.34 |
| 16 | 12 | 6 | 18 | 23.42 | 46.58 | 12.83 | 26.72 |
| 17 | 6 | 2 | 8 | 19.94 | 41.54 | 14.37 | 17.48 |
| 18 | 10 | 6 | 16 | 33.32 | 74.46 | 20.96 | 30.1 |
| 19 | 10 | 8 | 18 | 29.94 | 71.74 | 22.08 | 24.23 |
| 20 | 12 | 6 | 18 | 34.14 | 57.67 | 17.08 | 33.49 |

### 10.2.1 Bar graph : Dihedral violation statistics for each model

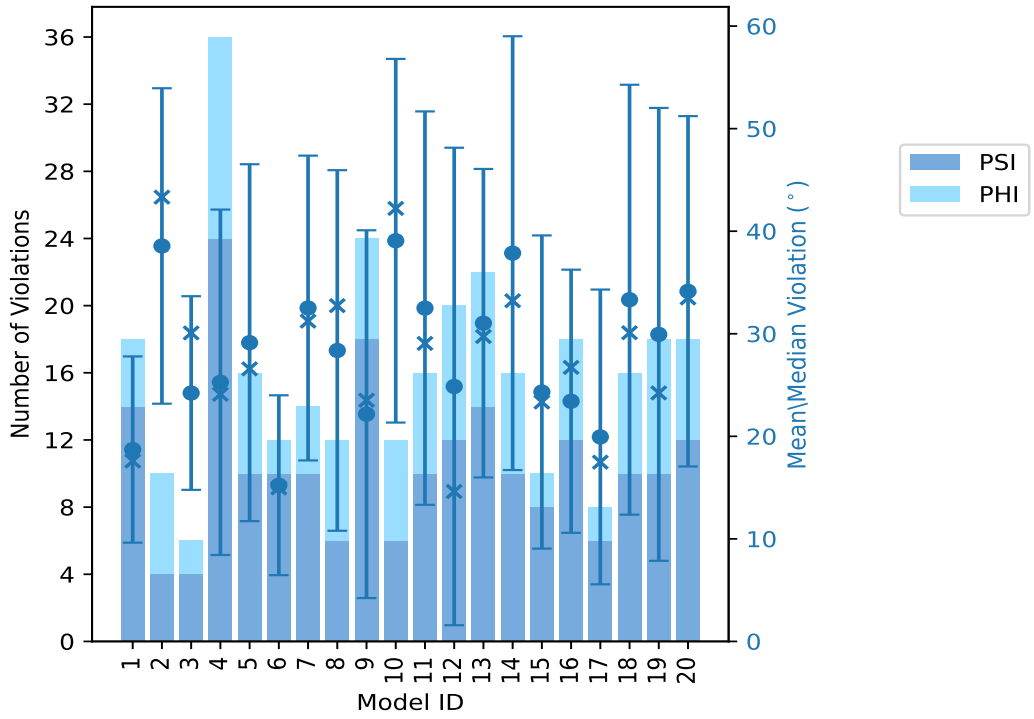


The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

## 10.3 Dihedral-angle violation statistics for the ensemble

Violation analysis may find that some restraints are violated in very few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of ensemble.

| Number of violated restraints | | | Fraction of the ensemble | |
|---|---|---|---|---|
| PSI | PHI | Total | Count[1] | % |
| 8 | 6 | 14 | 1 | 5.0 |
| 4 | 8 | 12 | 2 | 10.0 |
| 0 | 2 | 2 | 3 | 15.0 |
| 4 | 0 | 4 | 4 | 20.0 |
| 0 | 2 | 2 | 5 | 25.0 |
| 0 | 0 | 0 | 6 | 30.0 |
| 4 | 0 | 4 | 7 | 35.0 |
| 4 | 4 | 8 | 8 | 40.0 |
| 2 | 2 | 4 | 9 | 45.0 |
| 4 | 0 | 4 | 10 | 50.0 |
| 0 | 0 | 0 | 11 | 55.0 |

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| Number of violated restraints | | | Fraction of the ensemble | |
|---|---|---|---|---|
| PSI | PHI | Total | Count[1] | % |
| 2 | 2 | 4 | 12 | 60.0 |
| 0 | 0 | 0 | 13 | 65.0 |
| 0 | 0 | 0 | 14 | 70.0 |
| 0 | 0 | 0 | 15 | 75.0 |
| 0 | 0 | 0 | 16 | 80.0 |
| 0 | 0 | 0 | 17 | 85.0 |
| 2 | 0 | 2 | 18 | 90.0 |
| 0 | 0 | 0 | 19 | 95.0 |
| 0 | 0 | 0 | 20 | 100.0 |

[1] Number of models with violations

### 10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble

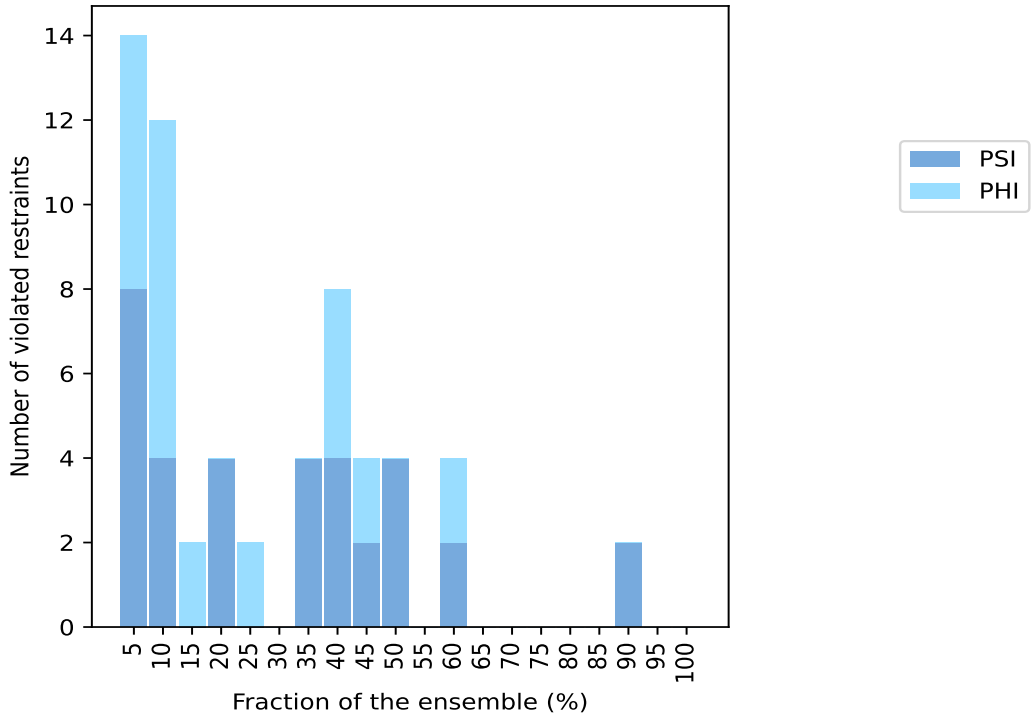


## 10.4 Most violated dihedral-angle restraints in the ensemble

### 10.4.1 Histogram : Distribution of mean dihedral-angle violations

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models

in the ensemble

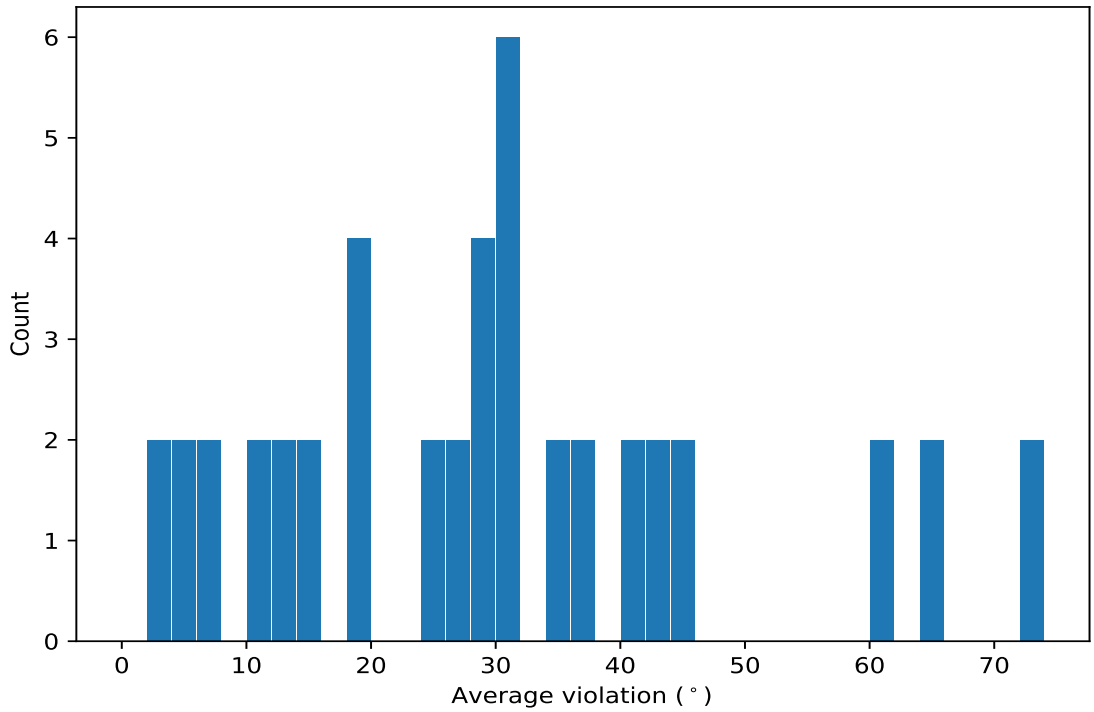


### 10.4.2 Table: Most violated dihedral-angle restraints

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models[1] | Mean | SD[2] | Median |
|---|---|---|---|---|---|---|---|---|
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 18 | 12.83 | 5.57 | 12.15 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 18 | 12.83 | 5.57 | 12.15 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 12 | 30.69 | 8.89 | 31.83 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 12 | 30.69 | 8.89 | 31.83 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 12 | 28.48 | 7.49 | 30.56 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 12 | 28.48 | 7.49 | 30.56 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 10 | 30.05 | 10.07 | 27.54 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 10 | 30.05 | 10.07 | 27.54 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 10 | 24.94 | 9.13 | 24.8 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 10 | 24.94 | 9.13 | 24.8 |
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 9 | 36.43 | 22.74 | 51.21 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 9 | 36.43 | 22.74 | 51.21 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 9 | 34.67 | 16.05 | 29.05 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 9 | 34.67 | 16.05 | 29.05 |
| (1,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 8 | 44.26 | 15.42 | 45.26 |
| (2,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 8 | 44.26 | 15.42 | 45.26 |
| (1,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 8 | 42.02 | 18.38 | 51.74 |
| (2,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 8 | 42.02 | 18.38 | 51.74 |
| (1,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 8 | 18.95 | 10.44 | 20.56 |
| (2,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 8 | 18.95 | 10.44 | 20.56 |

*Continued on next page...*

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models[1] | Mean | SD[2] | Median |
|---|---|---|---|---|---|---|---|---|
| (1,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 8 | 11.98 | 8.17 | 10.78 |
| (2,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 8 | 11.98 | 8.17 | 10.78 |
| (1,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 7 | 41.2 | 16.98 | 49.56 |
| (2,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 7 | 41.2 | 16.98 | 49.56 |
| (1,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 7 | 19.24 | 8.03 | 23.32 |
| (2,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 7 | 19.24 | 8.03 | 23.32 |
| (1,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 5 | 28.6 | 6.1 | 32.14 |
| (2,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 5 | 28.6 | 6.1 | 32.14 |
| (1,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 4 | 30.09 | 17.93 | 34.12 |
| (2,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 4 | 30.09 | 17.93 | 34.12 |
| (1,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 4 | 15.45 | 9.36 | 17.81 |
| (2,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 4 | 15.45 | 9.36 | 17.81 |
| (1,1) | 1:81:A:THR:C | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 3 | 65.9 | 13.69 | 74.46 |
| (2,1) | 1:81:A:THR:C | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 3 | 65.9 | 13.69 | 74.46 |
| (1,53) | 1:131:A:GLN:C | 1:132:A:LYS:N | 1:132:A:LYS:CA | 1:132:A:LYS:C | 2 | 72.35 | 0.62 | 72.35 |
| (2,53) | 1:131:A:GLN:C | 1:132:A:LYS:N | 1:132:A:LYS:CA | 1:132:A:LYS:C | 2 | 72.35 | 0.62 | 72.35 |
| (1,30) | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 1:97:A:LYS:N | 2 | 60.14 | 8.87 | 60.14 |
| (2,30) | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 1:97:A:LYS:N | 2 | 60.14 | 8.87 | 60.14 |
| (1,49) | 1:115:A:SER:C | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 2 | 27.73 | 3.5 | 27.73 |
| (2,49) | 1:115:A:SER:C | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 2 | 27.73 | 3.5 | 27.73 |
| (1,11) | 1:86:A:LEU:C | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 2 | 6.36 | 1.38 | 6.36 |
| (2,11) | 1:86:A:LEU:C | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 2 | 6.36 | 1.38 | 6.36 |
| (1,65) | 1:138:A:SER:C | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 2 | 5.36 | 2.3 | 5.36 |
| (2,65) | 1:138:A:SER:C | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 2 | 5.36 | 2.3 | 5.36 |
| (1,58) | 1:135:A:GLU:N | 1:135:A:GLU:CA | 1:135:A:GLU:C | 1:136:A:ASP:N | 2 | 2.49 | 0.93 | 2.49 |
| (2,58) | 1:135:A:GLU:N | 1:135:A:GLU:CA | 1:135:A:GLU:C | 1:136:A:ASP:N | 2 | 2.49 | 0.93 | 2.49 |

[1] Number of violated models, [2]Standard deviation, All angle values are in degree (°)

## 10.5 All violated dihedral-angle restraints (i)

### 10.5.1 Histogram : Distribution of violations (i)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.

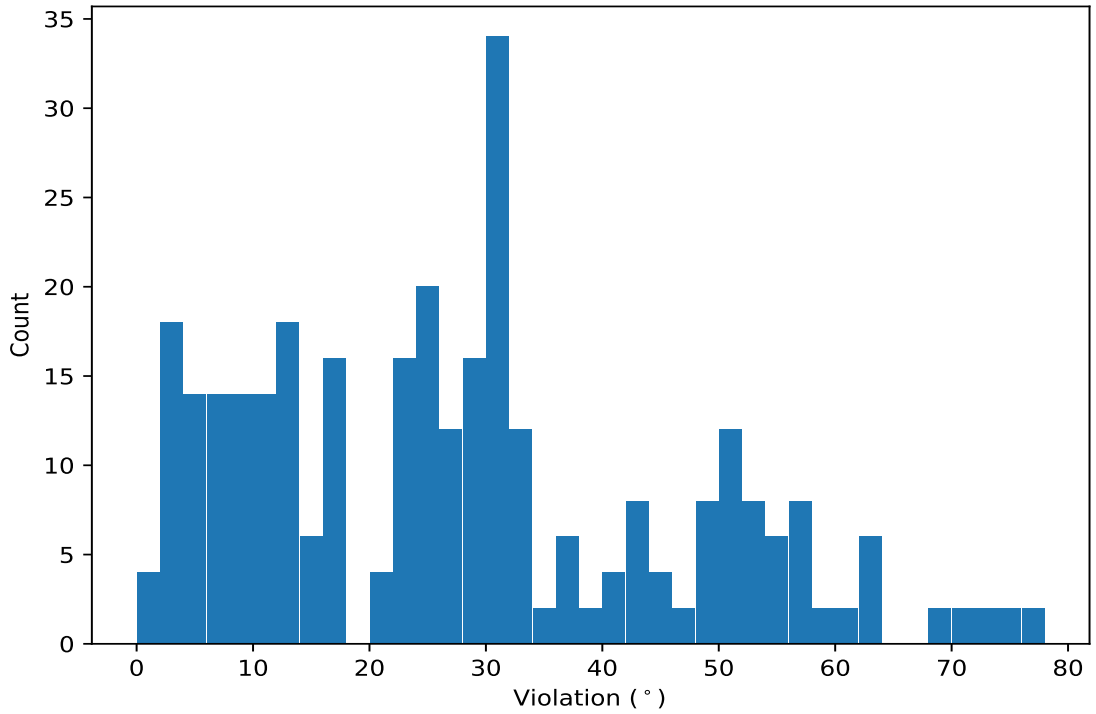


### 10.5.2 Table: All violated dihedral-angle restraints

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (2,1) | 1:81:A:THR:C | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 12 | 76.65 |
| (1,1) | 1:81:A:THR:C | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 12 | 76.65 |
| (2,1) | 1:81:A:THR:C | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 18 | 74.46 |
| (1,1) | 1:81:A:THR:C | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 18 | 74.46 |
| (2,53) | 1:131:A:GLN:C | 1:132:A:LYS:N | 1:132:A:LYS:CA | 1:132:A:LYS:C | 14 | 72.97 |
| (1,53) | 1:131:A:GLN:C | 1:132:A:LYS:N | 1:132:A:LYS:CA | 1:132:A:LYS:C | 14 | 72.97 |
| (2,53) | 1:131:A:GLN:C | 1:132:A:LYS:N | 1:132:A:LYS:CA | 1:132:A:LYS:C | 19 | 71.74 |
| (1,53) | 1:131:A:GLN:C | 1:132:A:LYS:N | 1:132:A:LYS:CA | 1:132:A:LYS:C | 19 | 71.74 |
| (2,30) | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 1:97:A:LYS:N | 9 | 69.01 |
| (1,30) | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 1:97:A:LYS:N | 9 | 69.01 |
| (2,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 4 | 63.45 |
| (1,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 4 | 63.45 |
| (2,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 5 | 62.53 |
| (1,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 5 | 62.53 |
| (2,37) | 1:104:A:GLU:C | 1:105:A:SER:N | 1:105:A:SER:CA | 1:105:A:SER:C | 11 | 62.16 |
| (1,37) | 1:104:A:GLU:C | 1:105:A:SER:N | 1:105:A:SER:CA | 1:105:A:SER:C | 11 | 62.16 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 14 | 60.33 |
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 14 | 60.33 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 2 | 59.04 |
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 2 | 59.04 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 20 | 57.67 |

*Continued on next page...*

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 20 | 57.67 |
| (2,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 10 | 57.52 |
| (1,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 10 | 57.52 |
| (2,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 7 | 57.06 |
| (1,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 7 | 57.06 |
| (2,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 13 | 56.07 |
| (1,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 13 | 56.07 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 8 | 55.14 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 8 | 55.14 |
| (2,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 20 | 54.35 |
| (1,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 20 | 54.35 |
| (2,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 14 | 54.33 |
| (1,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 14 | 54.33 |
| (2,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 10 | 53.86 |
| (1,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 10 | 53.86 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 18 | 52.95 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 18 | 52.95 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 19 | 52.64 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 19 | 52.64 |
| (2,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 15 | 52.3 |
| (1,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 15 | 52.3 |
| (2,36) | 1:104:A:GLU:N | 1:104:A:GLU:CA | 1:104:A:GLU:C | 1:105:A:SER:N | 11 | 51.75 |
| (1,36) | 1:104:A:GLU:N | 1:104:A:GLU:CA | 1:104:A:GLU:C | 1:105:A:SER:N | 11 | 51.75 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 4 | 51.5 |
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 4 | 51.5 |
| (2,30) | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 1:97:A:LYS:N | 13 | 51.27 |
| (1,30) | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 1:97:A:LYS:N | 13 | 51.27 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 12 | 51.23 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 12 | 51.23 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 10 | 51.21 |
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 10 | 51.21 |
| (2,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 4 | 50.74 |
| (1,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 4 | 50.74 |
| (2,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 20 | 49.56 |
| (1,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 20 | 49.56 |
| (2,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 5 | 49.14 |
| (1,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 5 | 49.14 |
| (2,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 11 | 48.97 |
| (1,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 11 | 48.97 |
| (2,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 19 | 48.9 |
| (1,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 19 | 48.9 |
| (2,1) | 1:81:A:THR:C | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 16 | 46.58 |
| (1,1) | 1:81:A:THR:C | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 16 | 46.58 |
| (2,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 2 | 45.99 |
| (1,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 2 | 45.99 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 13 | 45.82 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 13 | 45.82 |
| (2,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 7 | 43.53 |
| (1,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 7 | 43.53 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 12 | 43.48 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 12 | 43.48 |

*Continued on next page...*

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 2 | 43.32 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 2 | 43.32 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 7 | 43.18 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 7 | 43.18 |
| (2,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 17 | 41.54 |
| (1,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 17 | 41.54 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 18 | 41.38 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 18 | 41.38 |
| (2,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 13 | 39.07 |
| (1,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 13 | 39.07 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 20 | 37.92 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 20 | 37.92 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 8 | 37.78 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 8 | 37.78 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 14 | 36.1 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 14 | 36.1 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 4 | 34.24 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 4 | 34.24 |
| (2,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 8 | 33.5 |
| (1,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 8 | 33.5 |
| (2,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 20 | 33.49 |
| (1,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 20 | 33.49 |
| (2,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 10 | 33.24 |
| (1,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 10 | 33.24 |
| (2,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 10 | 32.75 |
| (1,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 10 | 32.75 |
| (2,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 4 | 32.22 |
| (1,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 4 | 32.22 |
| (2,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 5 | 32.14 |
| (1,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 5 | 32.14 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 8 | 31.97 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 8 | 31.97 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 4 | 31.96 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 4 | 31.96 |
| (2,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 1 | 31.93 |
| (1,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 1 | 31.93 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 9 | 31.82 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 9 | 31.82 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 3 | 31.69 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 3 | 31.69 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 18 | 31.65 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 18 | 31.65 |
| (2,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 11 | 31.27 |
| (1,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 11 | 31.27 |
| (2,49) | 1:115:A:SER:C | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 7 | 31.23 |
| (1,49) | 1:115:A:SER:C | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 7 | 31.23 |
| (2,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 13 | 31.09 |
| (1,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 13 | 31.09 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 4 | 31.02 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 4 | 31.02 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 2 | 30.98 |

*Continued on next page...*

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 2 | 30.98 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 9 | 30.96 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 9 | 30.96 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 20 | 30.76 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 20 | 30.76 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 14 | 30.35 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 14 | 30.35 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 16 | 30.31 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 16 | 30.31 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 6 | 30.25 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 6 | 30.25 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 3 | 30.08 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 3 | 30.08 |
| (2,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 16 | 29.74 |
| (1,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 16 | 29.74 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 13 | 29.73 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 13 | 29.73 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 19 | 29.28 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 19 | 29.28 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 1 | 29.25 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 1 | 29.25 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 9 | 29.05 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 9 | 29.05 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 16 | 28.79 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 16 | 28.79 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 18 | 28.55 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 18 | 28.55 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 4 | 28.12 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 4 | 28.12 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 5 | 27.83 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 5 | 27.83 |
| (2,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 11 | 26.86 |
| (1,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 11 | 26.86 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 16 | 26.72 |
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 16 | 26.72 |
| (2,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 13 | 26.69 |
| (1,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 13 | 26.69 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 20 | 26.5 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 20 | 26.5 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 9 | 26.3 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 9 | 26.3 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 13 | 25.89 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 13 | 25.89 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 16 | 25.84 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 16 | 25.84 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 5 | 25.32 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 5 | 25.32 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 11 | 25.05 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 11 | 25.05 |
| (2,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 12 | 25.04 |
| (1,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 12 | 25.04 |

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*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 15 | 24.77 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 15 | 24.77 |
| (2,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 4 | 24.71 |
| (1,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 4 | 24.71 |
| (2,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 1 | 24.61 |
| (1,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 1 | 24.61 |
| (2,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 1 | 24.56 |
| (1,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 1 | 24.56 |
| (2,49) | 1:115:A:SER:C | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 19 | 24.23 |
| (1,49) | 1:115:A:SER:C | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 19 | 24.23 |
| (2,31) | 1:96:A:ILE:C | 1:97:A:LYS:N | 1:97:A:LYS:CA | 1:97:A:LYS:C | 9 | 23.95 |
| (1,31) | 1:96:A:ILE:C | 1:97:A:LYS:N | 1:97:A:LYS:CA | 1:97:A:LYS:C | 9 | 23.95 |
| (2,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 4 | 23.49 |
| (1,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 4 | 23.49 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 4 | 23.34 |
| (2,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 15 | 23.34 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 4 | 23.34 |
| (1,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 15 | 23.34 |
| (2,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 19 | 23.33 |
| (1,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 19 | 23.33 |
| (2,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 17 | 23.32 |
| (1,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 17 | 23.32 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 9 | 23.1 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 9 | 23.1 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 14 | 22.95 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 14 | 22.95 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 7 | 21.6 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 7 | 21.6 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 6 | 20.37 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 6 | 20.37 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 18 | 17.87 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 18 | 17.87 |
| (2,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 9 | 17.8 |
| (1,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 9 | 17.8 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 14 | 17.62 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 14 | 17.62 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 1 | 17.59 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 1 | 17.59 |
| (2,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 7 | 17.44 |
| (1,3) | 1:82:A:LYS:C | 1:83:A:GLU:N | 1:83:A:GLU:CA | 1:83:A:GLU:C | 7 | 17.44 |
| (2,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 6 | 16.81 |
| (1,50) | 1:116:A:ALA:N | 1:116:A:ALA:CA | 1:116:A:ALA:C | 1:117:A:LYS:N | 6 | 16.81 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 12 | 16.76 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 12 | 16.76 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 4 | 16.14 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 4 | 16.14 |
| (2,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 13 | 15.94 |
| (1,28) | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 1:96:A:ILE:N | 13 | 15.94 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 1 | 15.69 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 1 | 15.69 |
| (2,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 4 | 14.64 |

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*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 4 | 14.64 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 7 | 13.56 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 7 | 13.56 |
| (2,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 2 | 13.49 |
| (1,55) | 1:133:A:PRO:C | 1:134:A:PHE:N | 1:134:A:PHE:CA | 1:134:A:PHE:C | 2 | 13.49 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 1 | 13.46 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 1 | 13.46 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 5 | 13.25 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 5 | 13.25 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 6 | 13.13 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 6 | 13.13 |
| (2,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 12 | 12.48 |
| (1,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 12 | 12.48 |
| (2,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 5 | 12.46 |
| (1,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 5 | 12.46 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 16 | 12.31 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 16 | 12.31 |
| (2,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 15 | 12.14 |
| (1,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 15 | 12.14 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 20 | 11.99 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 20 | 11.99 |
| (2,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 18 | 11.7 |
| (1,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 18 | 11.7 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 17 | 11.63 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 17 | 11.63 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 3 | 10.9 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 3 | 10.9 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 11 | 10.88 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 11 | 10.88 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 19 | 10.8 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 19 | 10.8 |
| (2,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 5 | 10.4 |
| (1,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 5 | 10.4 |
| (2,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 13 | 9.9 |
| (1,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 13 | 9.9 |
| (2,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 13 | 9.87 |
| (1,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 13 | 9.87 |
| (2,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 15 | 9.06 |
| (1,12) | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1:88:A:LEU:N | 15 | 9.06 |
| (2,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 16 | 8.9 |
| (1,44) | 1:108:A:SER:N | 1:108:A:SER:CA | 1:108:A:SER:C | 1:109:A:GLN:N | 16 | 8.9 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 12 | 8.29 |
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 12 | 8.29 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 14 | 8.25 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 14 | 8.25 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 18 | 8.0 |
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 18 | 8.0 |
| (2,11) | 1:86:A:LEU:C | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1 | 7.74 |
| (1,11) | 1:86:A:LEU:C | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 1 | 7.74 |
| (2,65) | 1:138:A:SER:C | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 4 | 7.67 |
| (1,65) | 1:138:A:SER:C | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 4 | 7.67 |

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*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (2,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 6 | 7.58 |
| (1,6) | 1:84:A:GLU:N | 1:84:A:GLU:CA | 1:84:A:GLU:C | 1:85:A:ALA:N | 6 | 7.58 |
| (2,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 4 | 6.86 |
| (1,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 4 | 6.86 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 12 | 6.77 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 12 | 6.77 |
| (2,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 8 | 6.75 |
| (1,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 8 | 6.75 |
| (2,64) | 1:138:A:SER:N | 1:138:A:SER:CA | 1:138:A:SER:C | 1:139:A:PHE:N | 4 | 6.03 |
| (1,64) | 1:138:A:SER:N | 1:138:A:SER:CA | 1:138:A:SER:C | 1:139:A:PHE:N | 4 | 6.03 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 10 | 5.83 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 10 | 5.83 |
| (2,60) | 1:136:A:ASP:N | 1:136:A:ASP:CA | 1:136:A:ASP:C | 1:137:A:ALA:N | 19 | 5.77 |
| (1,60) | 1:136:A:ASP:N | 1:136:A:ASP:CA | 1:136:A:ASP:C | 1:137:A:ALA:N | 19 | 5.77 |
| (2,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 9 | 5.39 |
| (1,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 9 | 5.39 |
| (2,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 8 | 5.1 |
| (1,27) | 1:94:A:GLN:C | 1:95:A:LYS:N | 1:95:A:LYS:CA | 1:95:A:LYS:C | 8 | 5.1 |
| (2,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 20 | 5.0 |
| (1,40) | 1:106:A:LEU:N | 1:106:A:LEU:CA | 1:106:A:LEU:C | 1:107:A:ALA:N | 20 | 5.0 |
| (2,11) | 1:86:A:LEU:C | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 4 | 4.99 |
| (1,11) | 1:86:A:LEU:C | 1:87:A:GLU:N | 1:87:A:GLU:CA | 1:87:A:GLU:C | 4 | 4.99 |
| (2,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 12 | 4.19 |
| (1,26) | 1:94:A:GLN:N | 1:94:A:GLN:CA | 1:94:A:GLN:C | 1:95:A:LYS:N | 12 | 4.19 |
| (2,52) | 1:117:A:LYS:N | 1:117:A:LYS:CA | 1:117:A:LYS:C | 1:118:A:ALA:N | 4 | 3.75 |
| (1,52) | 1:117:A:LYS:N | 1:117:A:LYS:CA | 1:117:A:LYS:C | 1:118:A:ALA:N | 4 | 3.75 |
| (2,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 12 | 3.73 |
| (1,29) | 1:95:A:LYS:C | 1:96:A:ILE:N | 1:96:A:ILE:CA | 1:96:A:ILE:C | 12 | 3.73 |
| (2,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 1 | 3.58 |
| (1,13) | 1:87:A:GLU:C | 1:88:A:LEU:N | 1:88:A:LEU:CA | 1:88:A:LEU:C | 1 | 3.58 |
| (2,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 9 | 3.52 |
| (1,66) | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 1:140:A:ALA:N | 9 | 3.52 |
| (2,58) | 1:135:A:GLU:N | 1:135:A:GLU:CA | 1:135:A:GLU:C | 1:136:A:ASP:N | 9 | 3.42 |
| (1,58) | 1:135:A:GLU:N | 1:135:A:GLU:CA | 1:135:A:GLU:C | 1:136:A:ASP:N | 9 | 3.42 |
| (2,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 17 | 3.25 |
| (1,2) | 1:82:A:LYS:N | 1:82:A:LYS:CA | 1:82:A:LYS:C | 1:83:A:GLU:N | 17 | 3.25 |
| (2,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 6 | 3.21 |
| (1,48) | 1:115:A:SER:N | 1:115:A:SER:CA | 1:115:A:SER:C | 1:116:A:ALA:N | 6 | 3.21 |
| (2,65) | 1:138:A:SER:C | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 11 | 3.06 |
| (1,65) | 1:138:A:SER:C | 1:139:A:PHE:N | 1:139:A:PHE:CA | 1:139:A:PHE:C | 11 | 3.06 |
| (2,51) | 1:116:A:ALA:C | 1:117:A:LYS:N | 1:117:A:LYS:CA | 1:117:A:LYS:C | 19 | 2.76 |
| (1,51) | 1:116:A:ALA:C | 1:117:A:LYS:N | 1:117:A:LYS:CA | 1:117:A:LYS:C | 19 | 2.76 |
| (2,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 9 | 1.6 |
| (1,10) | 1:86:A:LEU:N | 1:86:A:LEU:CA | 1:86:A:LEU:C | 1:87:A:GLU:N | 9 | 1.6 |
| (2,58) | 1:135:A:GLU:N | 1:135:A:GLU:CA | 1:135:A:GLU:C | 1:136:A:ASP:N | 16 | 1.56 |
| (1,58) | 1:135:A:GLU:N | 1:135:A:GLU:CA | 1:135:A:GLU:C | 1:136:A:ASP:N | 16 | 1.56 |